

z/OS
3.2

SDSF User's Guide



Note

Before using this information and the product it supports, read the information in [“Notices” on page 571.](#)

Last updated: 2025-09-20

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About this information

This book provides general user information for SDSF. The book is designed to help system users understand the function and use of the SDSF panels.

This book assumes that readers have a working knowledge of:

- The z/OS operating system
- ISPF
- JCL
- RACF
- REXX
- Java
- Python

z/OS information

This information explains how z/OS references information in other documents and on the web.

When possible, this information uses cross-document links that go directly to the topic in reference using shortened versions of the document title. For complete titles and order numbers of the documents for all products that are part of z/OS, see *z/OS Information Roadmap*.

To find the complete z/OS® library, go to [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

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Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

Note: IBM z/OS policy for the integration of service information into the z/OS product documentation library is documented on the z/OS Internet Library under [IBM z/OS Product Documentation Update Policy](http://www.ibm.com/docs/en/zos/latest?topic=zos-product-documentation-update-policy) (www.ibm.com/docs/en/zos/latest?topic=zos-product-documentation-update-policy).

Summary of changes for SDSF for z/OS 3.2

The following content is new, changed, or no longer included in System Display and Search Facility (SDSF) for z/OS 3.2.

New

The following content is new.

September 2025 release

New primary panels

- The “[WLM Class Activity panel \(AW\)](#)” on [page 65](#) displays address space activity summarized by WLM class name and type.
- The “[Catalog Data Sets panel \(CAT\)](#)” on [page 68](#) displays information about the ICF catalogs that have been used since the system was IPLed.
- The “[Common Memory Objects panel \(CMO\)](#)” on [page 82](#) panel displays the 64-bit common storage (HVCOMM) memory objects.
- The “[Device Space panel \(DEVS\)](#)” on [page 107](#) lists device space information for all or a subset of DASD volumes.
- The “[Function Registry panel \(FXE\)](#)” on [page 124](#) displays information about both IBM and independent vendor entries from the z/OS function registry.
- The “[JES Resource by User ID panel \(JRU\)](#)” on [page 162](#) displays critical JES2 resources summarized by the user ID of the job owner.
- The “[Module Fetch Paths panel \(MFP\)](#)” on [page 192](#) displays module fetch statistics from z/OS UNIX file system paths.
- The “[Main Group panel \(MGRP\)](#)” on [page 194](#) displays the main panel as a list of command groups that can be expanded or collapsed to show the panels in that group.
- The “[Network Port Activity panel \(NAP\)](#)” on [page 197](#) displays TCP/IP network activity summarized by the port number used by the connection.
- The “[RACF Data Sets panel \(RACD\)](#)” on [page 247](#) displays RACF data sets currently defined to the system.
- The “[RACF Information panel \(RACF\)](#)” on [page 249](#) displays RACF general configuration information, along with the entry point addresses of each known RACF exit.
- The “[RACF RRSF Nodes panel \(RACR\)](#)” on [page 254](#) displays the RACF remote sharing facility (RRSF) nodes currently defined to the system.
- The “[RACF Log \(RLOG\) panel](#)” on [page 264](#) displays logged RACF access attempts including the user ID, profile, class, and permission requested, and the access eventually granted.
- The “[SMF Log Streams panel \(SMFL\)](#)” on [page 278](#) shows information about defined log streams that are recording SMF records.

- The “[SMF Real Time Resources panel \(SMFR\)](#)” on [page 281](#) shows information about the size and usage of in-memory buffers.

New secondary panels

- The “[UNIX Threads panel](#)” on [page 377](#) displays z/OS UNIX thread information.
- The “[Process Details panel](#)” on [page 373](#) shows attributes about a process, including the invocation command.
- The “[VTOC panel](#)” on [page 378](#) shows the volume table of contents for a DASD volume.

New non-overtypable columns that are on existing panels are shown in the following table:

<i>Table 1. New non-overtypable columns</i>				
Panel	Column Name	Title (Displayed)	Width	Description
ACTH	TOUCH	Touch	5	Touch target ASID
ACTH	JAVAMETHOD	JavaMethod	127	Corresponding Java classname.methodname
ACTH	OPERCMD	Opercmd	126	Operator command template
AD	ZCX	zCX	3	zCX address space (YES or NO)
AS	MEMLIMCHG	MemLimChg	9	High virtual private high-water mark charged against MEMLIMIT for the current job step
AS	REAL1MB	Real1Mb	7	1 MB pages backed in real storage
AS	ZCX	zCX	3	zCX address space (YES or NO)
CDE (Job Modules)	DSNAME	Dataset	44	Module fetch data set name
CDE (Job Modules)	VOLSER	Volser	6	Module fetch volume serial
CMDH	NEW	New	3	New command (YES or blank)
COLH	OPERCLASS	OperClass	9	Overtyp operator command SAF class
COLH	OPERRESOURCE	OperResource	48	Overtyp operator command SAF resource
COLH	OPERAUTH	OperAuth	8	Overtyp operator command SAF authorization level
COLH	OPERCMD	Opercmd	126	Overtyp operator command text
CSI	LENGTHX	LengthX	8	Storage size (hexadecimal)
DA	BOOSTENABLED	BoostEnabled	12	Address space has passed the WLM classification rules that make it eligible for recovery process (RP) boost (YES or NO)
DA	ZCX	zCX	3	zCX address space (YES or NO)
DEV	SS	SS	2	Subchannel set number
DEV	SSUNIT	SSUnit	6	Hexadecimal unit address including subchannel set number

<i>Table 1. New non-overtimeable columns (continued)</i>				
Panel	Column Name	Title (Displayed)	Width	Description
FS	PDEVICE	PDevice	7	Parent device number
FS	AUTOMNT	AutoMnt	7	Whether the file system was auto-mounted (YES or NO)
H	XEQSTIME	XeqSt-DateTime	19	Execution start time (requires JES2 checkpoint activation level z32)
H	XEQETIME	XeqEnd-DateTime	19	Execution end time (requires JES2 checkpoint activation level z32)
I	ARRTIME	Arrival-DateTime	19	Arrival time when job first placed on current queue and not held
I	CQTIME	CurrQ-DateTime	19	Time job arrived on current queue
I	XEQSTIME	XeqSt-DateTime	19	Execution start time (requires JES2 checkpoint activation level z32)
I	XEQETIME	XeqEnd-DateTime	19	Execution end time (requires JES2 checkpoint activation level z32)
JCS	SIZEX	SizeX	8	Block size (hexadecimal)
JCM	ENABLED	Enabled	7	(JES2) Class enabled on member
JCM	JCLIM	JCLim	7	(JES2) Maximum number of jobs that can run in job class
JCM	JOBCL	Class	8	(JES2) Job class
JCM	STATUS	MemberStatus	14	(JES2) Member status
JCM	XEQCUR	XeqCur	7	(JES2) Current number of jobs running in job class on member
JDS	JOE	JOE	3	JOE created for this data set (YES or NO) (JES2 only)
Job Tasks	USERID	Userid	8	Userid from ACEE
Job Tasks	SPECIAL	Special	7	RACF SPECIAL (YES or NO)
Job Tasks	OPER	Oper	4	RACF OPERATIONS (YES or NO)
Job Tasks	PRIV	Priv	4	Privileged userid (YES or NO)
Job Tasks	TRUSTED	Trusted	7	Trusted userid (YES or NO)
Job Tasks	AUDIT	Audit	5	RACF AUDITOR (YES or NO)
Job Tasks	ROAUDIT	ROAudit	7	RACF ROAUDIT (read only auditor) (YES or NO)
Job Tasks	OTCB	OTCB	8	OTCB address
Job Tasks	POETYPE	POEType	8	Port of entry type
Job Tasks	POENAME	POEName	8	Port of entry name
Job Tasks	SESSION	Session	32	Session type
JRJC	ACTIONVAL	ActionVal	9	Current action value

<i>Table 1. New non-overtimeable columns (continued)</i>				
Panel	Column Name	Title (Displayed)	Width	Description
JRJC	LIMITPCTVAL	LimitVal	8	Current limit percent value
JRJJ	ACTIONVAL	ActionVal	9	Current action value
JRJJ	LIMITPCTVAL	LimitVal	8	Current limit percent value
LLS	EXTENT	NumExtents	10	Number of physical data set extents
LLS	EFFEXTENT	EffExtents	10	Number of effective data set extents
NA	BYTESINRATE	BytesInRate	11	Bytes in per second
NA	BYTESOUTRATE	BytesOutRate	12	Bytes out per second
O	XEQSTIME	XeqSt-DateTime	19	Execution start time (requires JES2 checkpoint activation level z32)
O	XEQETIME	XeqEnd-DateTime	19	Execution end time (requires JES2 checkpoint activation level z32)
PAG	SUSEPCT	SUse%	5	System average usage percent for type
SMFS	NOTYPE	NoTypes	127	Record types not being recorded for the SMF subsystem
ST	ARRTIME	Arrival-DateTime	19	Arrival time when job first placed on current queue and not held
ST	CQTIME	CurrQ-DateTime	19	Time job arrived on current queue
ST	LIMIMPACT	LimitsImpact	12	Impacted by resource limit action (YES or NO)
ST	LIMRAISED	LimitsRaised	12	Target of raise limits (YES or NO)
ST	XEQSTIME	XeqSt-DateTime	19	Execution start time (requires JES2 checkpoint activation level z32)
ST	XEQETIME	XeqEnd-DateTime	19	Execution end time (requires JES2 checkpoint activation level z32)
SYS	IPLCVOL	IPLCurrVol	10	IPL volume serial (current)
UCB	SS	SS	2	Subchannel set number
UCB	SSUNIT	SSUnit	6	Hexadecimal unit address including subchannel set number
USI	EXECUTABLE	Executable	10	Executable memory (YES or NO)
USI	LENGTHX	LengthX	8	Storage size (hexadecimal)

New overtypable columns that are available on existing panels are shown in following table:

<i>Table 2. New overtypable columns</i>				
Panel Name	Column Name	Title (Displayed)	Width	Description
JC	PROCNAME	ProcName	8	Default procedure library name (JES2 only)
JC	QAFF	QAff	4	JES queue member affinity (if any)
JCM	XEQMAX	XeqMax	7	Maximum number of jobs that can run in job class on member

New action characters that are available on existing panels are shown in the following table:

<i>Table 3. New action characters</i>		
Panel	Action Character	Description
All tabular panels	./	Allows you to select an action character from a list of valid actions for the panel.
AD	FP	List fetch path by job name. Requires the SDSF MFM feature to be active.
AD	JCM	Display common memory objects used by the address space.
AD	LE	List enclaves.
AD	LU	List user ID information. IBM Security Server (RACF) must be active.
APF	LA	List RACF access. IBM Security Server (RACF) must be active.
APF	LCK	List health checks. IBM Health Checker must be active.
APF	LP	List RACF profiles. IBM Security Server (RACF) must be active.
APF	NEW	Add a data set to the APF list.
APF	REM	Remove a data set from the APF list.
AS	JCM	List job common memory objects for a job name, job ID, and ASID combination.
AS	LE	List enclaves.
AS	LU	List user ID information. IBM Security Server (RACF) must be active.
CF	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
CFC	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
CFD	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
CFD	LVT	List VTOC for the coupling facility data set.
CFS	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.

<i>Table 3. New action characters (continued)</i>		
Panel	Action Character	Description
CFSA	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
CSR	JCM	List job common memory objects.
DA	FP	List fetch path by job name. Requires the SDSF MFM feature to be active.
DA	JCM	List job common memory objects.
DA	LE	List enclaves.
DA	LU	List user ID information. IBM Security Server (RACF) must be active.
DEV	LVT	List VTOC for the device.
ELOG	LI	List info about JES resources.
FS	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
JCM	A	(JES2 only) Add member to job class.
JCM	D	(JES2 only) Display long form of information about a job class in the log.
JCM	H	(JES2 only) Remove member from job class.
JDDN	LA	List RACF access. IBM Security Server (RACF) must be active.
JDDN	LP	List RACF profiles. IBM Security Server (RACF) must be active.
JDDN	LV	List data sets.
JDS	LA	List RACF access. IBM Security Server (RACF) must be active.
JDS	LP	List RACF profiles. IBM Security Server (RACF) must be active.
JES	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
LLS	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
LLS	ACT	Activate a link list set.
LLS	NEW	Add a new link list set.
LLS	REM	Remove a link list set.
LLS	UPD	Update one or more active jobs to use a new link list set.
LNK	LA	List RACF access. IBM Security Server (RACF) must be active.
LNK	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
LNK	LP	List RACF profiles. IBM Security Server (RACF) must be active.
LNK	NEW	Add existing data sets to a link list.
LNK	REM	Remove data sets from a link list.

Table 3. New action characters (continued)

Panel	Action Character	Description
LPA	LA	List RACF access. IBM Security Server (RACF) must be active.
LPA	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
LPA	LP	List RACF profiles. IBM Security Server (RACF) must be active.
LPD	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
MFJ	FP	List fetch path by job name. Requires the SDSF MFM feature to be active.
PAG	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
PARM	LA	List RACF access. IBM Security Server (RACF) must be active.
PARM	LP	List RACF profiles. IBM Security Server (RACF) must be active.
PLEX	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
PROC	LA	List RACF access. IBM Security Server (RACF) must be active.
PROC	LP	List RACF profiles. IBM Security Server (RACF) must be active.
PS	L	List process details.
PS	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
PS	LT	List threads. Requires SDSFAUX READ access to UNIXPRIV class resource SUPERUSER.PROCESS.GETPSENT
PS	LU	List user ID information. IBM Security Server (RACF) must be active.
REPC	LE	List enclaves.
RGRP	LE	List enclaves.
SMFO	L	Search for parmlib data sets.
SMFO	LD	List data sets.
SMFO	LL	List log streams.
SMFO	LR	List resources.
SMFO	LS	List subsystems.
SMSV	LVT	List VTOC for the volume.
SP	LH	List resource history.
SP	LV	List data sets on the spool volume.
SP	LVT	List VTOC for the spool volume.
SRVC	LE	List enclaves.
TCB (Job Tasks)	LU	List user ID information. IBM Security Server (RACF) must be active.

<i>Table 3. New action characters (continued)</i>		
Panel	Action Character	Description
VMAP	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
WKLD	LE	List enclaves.
XCFA	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
XCFM	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.
XCFP	LCK	List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.

Other new features

- The MGRP panel displays a list of command groups and can be set as the default SDSF main menu. For more information, refer to the topic [“SET MAIN” on page 511](#).
- SDSF can save user settings in the z/OS UNIX file system as an alternative to the ISPF profile. The topics [“Saving session settings” on page 48](#) and [“SET PTRACE” on page 514](#) were added, and the topics [“Special ddnames” on page 50](#), [“Using the WHO command” on page 14](#), and [“Setting complex filters” on page 22](#) were updated.
- A new pySDSF facility allows access to SDSF through user-written python scripts. For more information, see [Chapter 7, “Using SDSF with the Python programming language,” on page 487](#).
- The SDSF Task Assistant (a set of actions, panels, and confirmation dialogs) can be used to facilitate basic management of system data sets on some panels. The topics [Chapter 4, “Using the SDSF Task Assistant,” on page 381](#), [“Managing APF list data sets” on page 381](#), and [“Managing link list sets” on page 381](#) were added.
- The SDSF/Java API internally exploits the FasterXML/Jackson JSON parser. Several file paths have been changed in [Chapter 8, “Using SDSF with the Java programming language,” on page 489](#).
- Instructions were added for setting a delay in REXX ISFSLASH processing to ensure all command responses are received before SDSF terminates. For more information, see the topic [“Retrieving command responses” on page 430](#).
- The ACTH and CMDH commands support parameters to filter the output by panel and environment. For more information, see [“Action Character Help panel \(ACTH\)” on page 53](#) and [“Command Help panel \(CMDH\)” on page 81](#).
- The ISFMIGXB special dd was added to enable use of color and highlighting on browse panels such as ULOG and health checks. The topic [“Special ddnames” on page 50](#) was updated.
- The ISFMIGNP special dd was added to disable use of files system profiles when running under TSO. The topic [“Special ddnames” on page 50](#) was updated.
- You can use the ENV parameter in the server command MODIFY DISPLAY to see information about SDSF invocation environments. For more information, see the topic [“MODIFY DISPLAY ENV” on page 549](#).
- Server MODIFY commands were added to the command reference. For more information, see the topic [Chapter 9, “SDSF command reference,” on page 491](#).
- The topic [“Printing a tabular panel” on page 46](#) was added to describe options for printing the contents of tabular panels.
- A REXX exec example for issuing system commands using ISFSLASH was added to the RGEN X command examples. To see the example, on any SDSF panel, enter **RGEN X** and select the Slash type exec [“Issue system commands using ISFSLASH”](#).

Changed

The following content is changed.

September 2025 release

- The title line in the DA panel now shows the zIIP utilization instead of the zAAP utilization. A custom property can be set for compatibility with the old format. The topic [“Display Active Users panel \(DA\)”](#) on page 92 was updated.
- The Job Class Members panel is now available on JES2 systems. For more information, see the topic [“Job Class Members panel \(JCM\)”](#) on page 340.
- The topics [“Invoking SDSF in batch”](#) on page 385, [“Using program name ISFAFD”](#) on page 386, and [“AFD command”](#) on page 387 were updated for clarification.
- The topics [“Special variables for slash \(/\) commands”](#) on page 429 and [“Options commands”](#) on page 432 were updated to clarify that the default console name must be less than 8 characters to use the ISFCONMOD option.
- The topic [“Special ddnames”](#) on page 50 was updated to describe the ISFMIGNB ddname, which disables color and highlighting support on browse panels.
- Information in [“Invoking an exec with the % action character”](#) on page 469 was added to describe how to invoke REXX execs using the % action character with ISPF services.
- The RSYS and SYSNAME commands now accept a parameter to limit the WTORs displayed on log panels and data displayed on selected SDSF panels to a list of systems that is specified in ISFPRMxx. The topics [“RSYS”](#) on page 525 and [“SYSNAME”](#) on page 529 were updated.

Changed non-overtimeable columns that are on existing panels are shown in the following table:

Table 4. Changed non-overtimeable columns				
Panel	Column Name	Title (Displayed)	Width	Description
EDT	ETOKEN	EToken	8	Unit name look-up value
H, I, O, ST	PNAME	Programmer-Name	20	JES programmer name. Delayed except when JES is running the z32 activation level
I, ST	SUBUSER	SubUser	8	Submitting user ID. Delayed except when JES is running the z32 activation level
LNK	APF	APF	3	APF indicator. YES means the data set is APF authorized. NO means the data set is not APF authorized. LNK means the data set is APF authorized via the LNKAUTH=LNKLST statement in IEASYSxx, which means that all data sets in the link list are considered APF authorized.

Deleted

The following content was deleted.

September 2025 release

- The Java methods tables in [Chapter 8, “Using SDSF with the Java programming language,”](#) on page 489 were removed. Information about Java methods, their associated action characters, and SAF resources for protecting them was added to the ACTH panel; see the topic [“Action Character Help panel \(ACTH\)”](#) on page 53.

- Symbolic links to the SDSF/Java jar file and DLLs have been removed. For more information, see Chapter 8, “Using SDSF with the Java programming language,” on page 489.

Summary of changes for SDSF for z/OS 3.1

The following content is new, changed, or no longer included in System Display and Search Facility (SDSF) for z/OS 3.1.

New

The following content is new.

May 2025

The ISFMIGXB special dd was added to enable use of color and highlighting on browse panels such as ULOG and health checks. The topic “Special ddnames” on page 50 was updated.

New non-overtypable columns that are on existing panels are shown in the following table:

<i>Table 5. New non-overtypable columns</i>				
Panel	Column Name	Title (Displayed)	Width	Description
Job Tasks	USERID	Userid	8	Userid from ACEE
Job Tasks	SPECIAL	Special	7	RACF SPECIAL (YES or NO)
Job Tasks	OPER	Oper	4	RACF OPERATIONS (YES or NO)
Job Tasks	PRIV	Priv	4	Privileged userid (YES or NO)
Job Tasks	TRUSTED	Trusted	7	Trusted userid (YES or NO)
Job Tasks	AUDIT	Audit	5	RACF AUDITOR (YES or NO)
Job Tasks	ROAUDIT	ROAudit	7	RACF ROAUDIT (read only auditor) (YES or NO)
Job Tasks	OTCB	OTCB	8	OTCB address
Job Tasks	POETYPE	POEType	8	Port of entry type
Job Tasks	POENAME	POEName	8	Port of entry name
Job Tasks	SESSION	Session	32	Session type

New overtypable columns that are available on existing panels are shown in following table:

<i>Table 6. New overtypable columns</i>				
Panel Name	Column Name	Title (Displayed)	Width	Description
JC	PROCNAME	ProcName	8	Default procedure library name (JES2 only)

February 2025

Invoking ISPF services using REXX execs with % action character

Information in “Invoking an exec with the % action character” on page 469 was added to describe how to invoke REXX execs using the % action character with ISPF services.

October 2024

New non-overtypable columns that are on existing panels are shown in the following table:

Table 7. New non-overtypable columns				
Panel	Column Name	Title (Displayed)	Width	Description
JRJC	ACTIONVAL	ActionVal	9	Show action value
JRJC	LIMITPCTVAL	LimitVal	8	Show limit percent value
JRJJ	ACTIONVAL	ActionVal	9	Show action value
JRJJ	LIMITPCTVAL	LimitVal	8	Show limit percent value

May 2024

New non-overtypable columns that are on existing panels are shown in the following table:

Table 8. New non-overtypable columns				
Panel	Column Name	Title (Displayed)	Width	Description
DA	BOOSTENABLED	BoostEnabled	12	Address space has passed the WLM classification rules that make it eligible for recovery process (RP) boost (YES or NO)

Printing tabular panels

The topic “Printing a tabular panel” on page 46 was added to describe options for printing the contents of tabular panels.

September 2023

New program panels

- The “Product Enablement panel (PROD)” on page 234 displays information about products that have been registered and their current status.
- The “Module Fetch Data Sets panel (MFD)” on page 186 shows information about load module fetch activity summarized by data set name.
- The “Module Fetch Job Names panel (MFJ)” on page 188 displays statistics about module fetch activity, including the number of times each module is fetched and the duration of the fetch operation.
- The “Module Fetch Statistics panel (MFM)” on page 190 shows information about load module fetch activity, such as the number of times each module is fetched and the duration of the fetch operation.
- The “Program Properties panel (PPT)” on page 221 shows the entries in the system program properties table, which is used to assign runtime attributes to programs.

New device panels

- The “Eligible Device Table panel (EDT)” on page 112 provides information about the installation-defined I/O devices that are eligible for allocation.

- The [“Unit Control Blocks panel \(UCB\)”](#) on page 321 displays status and information for static and dynamic UCBs.

New JES panels

- The [“JES Resource Group panel \(JRG\)”](#) on page 156 displays information for resource groups that are defined in JES.
- The [“Class Resource Limit panel \(JRJC\)”](#) on page 161 provides details of resource usage by JES class.
- The [“Job Resource Limit panel”](#) on page 361 displays resource limits and usage for a job.

New and enhanced memory panels

- The [“Memory Chain panel \(MEMC\)”](#) on page 369 displays storage for control block chains that are linked together.
- The [“MAP panel”](#) on page 367 is enhanced to show the storage content for a structure.

New security panels

- The [“RACF Classes panel \(RAC\)”](#) on page 245 shows the defined RACF classes and provides the ability to list all profiles for a class.
- The [“RACF Profiles panel \(RACP\)”](#) on page 252 shows the RACF profiles for a class and provides the ability to view the access list for each profile.
- The [“RACF Options panel \(RACO\)”](#) on page 251 displays current RACF options.
- The [“RACF Access panel”](#) on page 373 shows the access lists entries for a RACF profile.
- The [“RACF Browse panel”](#) on page 374 shows detailed information from all segments of a RACF profile.
- The [“RACF Connects panel”](#) on page 375 lists all connected groups for a user.

New sysplex panels

- The [“Coupling Facilities panel \(CF\)”](#) on page 70 displays information about all of the coupling facilities that are defined in the sysplex.
- The [“CF Structure Activity panel \(CFSA\)”](#) on page 78 displays coupling facility structure activity using RMF as the data source.
- The [“Sysplex panel \(PLEX\)”](#) on page 220 shows information about the sysplex.
- The [“XCF Application Servers panel \(XCFA\)”](#) on page 327 shows details about the XCF application servers in the sysplex.
- The [“XCF Signaling Paths panel \(XCFP\)”](#) on page 331 displays signaling path information for XCF connections.

New system information panels

- The [“Dashboard panel \(DASH\)”](#) on page 104 displays system configuration information along with utilization and top consumers of various system resources.
- The [“Event Log panel \(ELOG\)”](#) on page 113 displays important system events and has the ability to position within the OPERLOG at the time the event occurred.
- The [“Logical Partition panel \(LPAR\)”](#) on page 177 shows information about system LPARs.
- The [“SMF Data Sets panel \(SMFD\)”](#) on page 276 displays details for SMF data sets.
- The [“SMF Options panel \(SMFO\)”](#) on page 279 panel shows SMFPRMxx parameters in the SMF parmlib member in use.
- The [“SMF Subsystems panel \(SMFS\)”](#) on page 282 panel displays SMF subsystems and exits.

New non-overtypable columns that are on existing panels are shown in the following table:

<i>Table 9. New non-overtypable columns</i>				
Panel	Column Name	Title (Displayed)	Width	Description
ACTH	SINCE	Since	20	Release when action added
ACTH	DEPEND	Dependency	127	Dependency
AD	RAX	RAX	8	RAX address
AD	RAX64	RAX64	17	RAX64 address
AD	STDATE	StartDate	19	Address space start date
AD	ELAPSED	ElapsedTime	12	Address space elapsed time in ddd:hh:mm:ss format
AD	STOKEN	SToken	16	Address space token
AS	DMEM	DMem	8	Amount of dedicated memory assigned (GB)
AS	DMPCT	DMem%	5	Percentage of dedicated memory in use
AS	MEMLIMSRC	MemLimSrc	9	Source of MEMLIMIT
AS	REAL2GB	Real2Gb	7	Number of 2 GB pages backed in real storage
AS	ELAPSED	ElapsedTime	12	Address space elapsed time in ddd:hh:mm:ss format
CMDH	ENV	Environment	40	Valid environments
CMDH	PARM	ParmAllowed	11	Command supports additional parameters (YES or NO)
CMDH	DEPEND	Dependency	127	Configuration dependency
COLH	AUTH	AuthLevel	9	Overtyping authorization level
DA	ELAPSED	ElapsedTime	12	Address space elapsed time in ddd:hh:mm:ss format

<i>Table 9. New non-overtimeable columns (continued)</i>				
Panel	Column Name	Title (Displayed)	Width	Description
DA	OUTTIME	OutTime	12	The duration since the last time the address space was swapped in, in ddd:hh:mm:ss format
DYNX	ABENDSLEFT	AbendsLeft	10	Number of abends remaining before inactivation
FS	SETUID	SetUID	6	SetUID can be issued for the file system (YES or NO)
H	MAXCC	Max-CC	6	Maximum condition code
H	RESGROUP	ResGroup	8	Resource group name
I	RESGROUP	ResGroup	8	Resource group name
JDS	JNAME	JobName	8	Job name
JDS	JOBID	JobID	8	JES job ID
JES	CKPTLEV	CkptLevel	9	JES2 checkpoint level
JG	MAXCC	Max-CC	6	Maximum condition code
JMO	REAL	Real	6	Real frames backing object
JMO	AUX	Aux	6	Auxiliary storage slots backing object
JMO	RASN	RASN	4	Creation requester ASID (hexadecimal)
JMO	HASN	HASN	4	Home ASID at creation (hexadecimal)
JMO	PASN	PASN	4	Primary ASID at creation (hexadecimal)
Job Modules	PATH	Path	127	Path name for z/OS USS module
JRJ	LIMIT	Limit	11	Limit
JRJ	ACTION	Action	8	Action

<i>Table 9. New non-overtimeable columns (continued)</i>				
Panel	Column Name	Title (Displayed)	Width	Description
JT	ACEE	ACEE	8	ACEE address
O	MAXCC	Max-CC	6	Maximum condition code
O	RESGROUP	ResGroup	8	Resource group name
SR	ELAPSED	Elapsed	12	The elapsed time since the system request was issued in ddd:hh:mm:ss format
ST	MAXCC	Max-CC	6	Maximum condition code
ST	RESGROUP	ResGroup	8	Resource group name
SYS	DMEM	DMem	8	Dedicated memory online (GB)
SYS	DMPCT	DMem%	5	Percentage of dedicated memory in use
SYS	DMSYS	DMemSys	7	Dedicated memory in use by system (Gb)
SYS	REALPCT	Real%	5	Percentage of real memory in use
SYS	UUID	UUID	36	Software instance unique ID generated from z/OSMF
SYS	VALIDBOOT	ValidatedBoot	16	Validated boot status

New overtimeable columns that are available on existing panels are shown in following table:

<i>Table 10. New overtimeable columns</i>				
Panel Name	Column Name	Title (Displayed)	Width	Description
I	JESCANCEL	JESCancel	10	JES cancel option (allowed or restricted)
JC	DESC	Description	60	Job class description
JC	JESCANCEL	JESCancel	10	JES cancel option (allowed or restricted)
ST	JESCANCEL	JESCancel	10	JES cancel option (allowed or restricted)

New action characters that are available on existing panels are shown in the following table:

<i>Table 11. New action characters</i>		
Panel	Action Character	Description
AD	FJ	Fetch by job name
APF	FD	Fetch by data set name
APF	FJ	Fetch by job name
APF	LV	List data sets
CFC	LP	List paths
CFC	LS	List structures
CFS	L	List activities
CFS	LC	List connections
CFS	LP	List paths
DA	FJ	Fetch by job name
DEV	LV	List data sets
JC	JRL	Display resource limits for a job class
JRI	L	List group information for a resource
LNK	FD	Fetch by data set name
LNK	FJ	Fetch by job name
LNK	LV	List data sets
LPA	LV	List data sets
MEM	M	Address map
MEM	RC	Run chain
MFD	FJ	Fetch by job name
MFD	FM	Fetch by module name
MFJ	FJ	Fetch by job name
MFJ	FM	Fetch by module name
MFM	FJ	Fetch by job name
PARM	LV	List data sets
PROC	LV	List data sets
REPC	L	List address spaces assigned to WLM class or group
RGRP	L	List address spaces assigned to WLM class or group
SMSV	LV	List data sets
SRCH	LV	List data sets

<i>Table 11. New action characters (continued)</i>		
Panel	Action Character	Description
SRVC	L	List address spaces assigned to WLM class or group
ST	JRL	Display resource limits for a job
WKLD	L	List address spaces assigned to WLM class or group

New views were added to the SDSF z/OSMF task:

- CF connections
- CF structure activity
- Common storage remaining
- Coupling facilities
- Event log
- Extended consoles
- Generic trackers
- Initiators
- JES resource information
- JES resource information by job
- Link pack directory
- Module fetch data sets
- Module fetch job names
- Module fetch statistics
- PC routines
- Proclib
- Product enablement
- Program properties
- RACF classes
- Resource monitoring
- Resource monitoring alerts
- Service classes
- Subsystems
- SVC routines
- System symbols
- Unit control blocks
- XCF application servers
- XCF groups and members
- XCF signaling paths
- Virtual storage maps
- WLM policy
- WLM report classes
- WLM resource groups
- WLM workloads

For more information, see the topic about z/OSMF considerations in [z/OS SDSF Operation and Customization](#).

Other new information

- An SDSF command reference was added to describe the syntax of commonly used SDSF commands.
- You can now control the format of the SDSF main panel so it shows either a tabular list of SDSF commands or the system dashboard equivalent to the DASH command. For more information, see the topics [“Specifying an alternate main panel” on page 7](#) and [“SET MAIN” on page 511](#).
- You can control the format of the DASH panel with the [“SET DASH” on page 507](#) command.
- Under ISPF, the CK, CKH, and ULOG panels now display messages using color and highlighting based on message severity. You can use the new SET BCOLOR command to enable or disable the use of color and highlighting. For more information, see the topic [“SET BCOLOR” on page 501](#).

Changed

The following content is changed.

March 2025

- The topics [“Special variables for slash \(/\) commands” on page 429](#) and [“Options commands” on page 432](#) were updated to clarify that the default console name must be less than 8 characters to use the ISFCNMOD option.
- The topic [“Special ddnames” on page 50](#) was updated to describe the ISFMIGNB ddname, which disables color and highlighting support on browse panels.

October 2024

- The topics [“Invoking SDSF in batch” on page 385](#), [“Using program name ISFAFD” on page 386](#), and [“AFD command” on page 387](#) were updated for clarification.

September 2023

- JES3 is no longer part of z/OS; consequently, SDSF has not been tested with JES3. For now, JES3-related information in the documentation has been retained.
- SDSF does not support batch processing for new commands, action characters, and panels that were implemented in SDSF 3.1 or later. Topics in [Chapter 5, “Using SDSF in batch,” on page 385](#) were updated.
- The MENU command is now supported in REXX via the ISFEXEC command. The MENU command was added to the topic [“SDSF commands reference” on page 436](#) and the ISFMENU special variable was added to the topic [“Special variables reference” on page 441](#).
- The topic [“Displaying the SDSF screen name” on page 30](#) was updated to clarify how the SET SCRNAME command works.

Deleted

The following content was deleted.

September 2023

- Fallback to the non-scrollable main SDSF panel is no longer supported. The ISFMIGMN dd was removed from the topic [“Special ddnames” on page 50](#).
- The SET CMODE command is no longer supported. The SET CMODE command was removed from the REXX [“SDSF commands reference” on page 436](#) and the [Chapter 9, “SDSF command reference,” on page 491](#). The ISFCMODE REXX special variable was removed from the topic [“Special variables reference” on page 441](#).

Chapter 1. Introduction to SDSF

SDSF provides you with information to monitor, manage, and control your z/OS system. It can help you run your business and save you time and money.

SDSF provides a powerful and secure way to monitor and manage your z/OS sysplex, in both JES2 and JES3 environments. Data is presented in tabular format on more than fifty different panels. The panels are customizable by the system programmer and the user.

The easy-to-use interface lets you display and control:

- Jobs and output
- Devices, such as network connections and servers, printers, readers, lines, and spool offloaders
- Checks from IBM Health Checker for z/OS
- System resources, such as WLM scheduling environments, the members of your MAS, and JES job classes
- System information about systems in the sysplex such as CPU busy, storage utilization, and IPL information; system storage utilization for all address spaces in the sysplex; and system static and dynamic symbols for each system in the sysplex
- System log and action messages
- Data sets used by the system, such as APF, link list, and couple data sets
- Address space storage
- An event log showing key system events
- Module fetch details
- RACF classes, profiles, and access lists

For example, for jobs you can:

- Cancel, hold or release jobs
- Find out if jobs are waiting to be processed
- Filter the jobs to show just the jobs that interest you
- View output before it is printed
- Change a job's priority, class, or destination
- Edit and resubmit the JCL without leaving SDSF

You can also perform many of these tasks by using SDSF/REXX, SDSF/Java, and Python using pySDSF.

SDSF security controls the panels you see and the functions you can use using SAF.

Invoking SDSF

There are multiple ways to invoke SDSF.

Invoking SDSF from ISPF

You can invoke SDSF from the ISPF Primary Option Menu by entering **S** or entering the ISPF primary menu option that is configured at your site.

When you invoke SDSF this way:

- The action bar is displayed at the top of screen. Your security access determines what menu options are displayed and accessible.
- You can save your customization of the environment.

Invoking SDSF with ISPF stacked commands

Under ISPF, you can use a combination of SDSF and ISPF stacked commands to invoke SDSF. ISPF stacked commands use a special delimiter between them. The default delimiter is a semicolon. ISPF stacked commands are described in [z/OS ISPF User's Guide Vol I](#).

Consider the following examples:

- From the ISPF Primary Option Menu, **S.DA** invokes SDSF and then the Active Users panel.
- **S;DA** from the ISPF Primary Option Menu invokes SDSF and then the Active Users panel, using ISPF stacked commands.
- **S.DA;S T*** from the ISPF Primary Option Menu invokes SDSF and then the Active Users panel. ISPF then processes the stacked **S T*** command. **S T*** is an SDSF fast path select (S) that displays the data sets for all jobs that begin with **T***.

Invoking SDSF from TSO

You can invoke SDSF from the TSO READY panel by entering **SDSF** or **ISF**. You can also enter **TSO SDSF** or **TSO ISF** from the ISPF Primary Option Menu.

When you invoke SDSF this way:

- The action bar is not displayed. Your security access determines which options are displayed and accessible.
- You cannot save your customization of the environment unless you are using z/OS UNIX file system profiles.

Invoking SDSF as a replacement for the Terminal Monitor Program (TMP)

You can invoke SDSF as a replacement for the TMP by including the following EXEC statement in the JCL for a TSO logon procedure:

```
//SDSFTMP EXEC PGM=SDSF,REGION=0M,MEMLIMIT=NOLIMIT
```

There is no requirement to code any other JCL statements.

When you invoke SDSF in this manner:

- The action bar is not displayed. Your security access determines which options are displayed and accessible.
- You cannot save your customization of the environment unless you are using z/OS UNIX file system profiles.
- The user is placed directly into SDSF after successful logon to TSO and is logged off automatically when leaving the SDSF product.
- No other TSO commands are available.

Invoking SDSF with REXX

You can access SDSF data and function with the REXX programming language. For more information, see [Chapter 6, “Using SDSF with the REXX programming language,” on page 393](#).

Invoking SDSF in batch

You can issue often-repeated SDSF commands by creating a list of the commands as control statements and issuing them via batch processing.

Note: Using SDSF in batch is limited in scope and has been functionally stabilized. It will not support any new enhancements. The recommended approach is that you use the SDSF REXX or the pySDSF interface to replace your existing SDSF batch invocations.

For information about invoking SDSF in batch, see [“Invoking SDSF in batch” on page 385](#).

For information about using SDSF REXX, see [Chapter 6, “Using SDSF with the REXX programming language,”](#) on page 393.

For information about using pySDSF, see [Chapter 7, “Using SDSF with the Python programming language,”](#) on page 487.

SDSF panel format

SDSF panels provide current information about jobs, output, devices, sysplex, memory, OMVS, network, log, JES, WLM, system information, and more.

With SDSF panels, there is no need to learn or remember complex command syntax. Action characters, overtypable fields, action bar pull-downs, and pop-up windows allow you to select available functions.

Sample panel format

Under ISPF, you can select most SDSF functions from the action bar at the top of the screen. To display a pull-down menu of choices, place the cursor on an option on the action bar and press Enter.

[Figure 1 on page 3](#) uses a sample tabular panel to show the layout of an SDSF panel.

```
Display Filter View Print Options Search Help 1
-----
SDSF DA RS86 2 RS86 PAG 0 CPU 27 3 LINE 1-18 (72)
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=5
NP JOBNAME 6 StepName ProcStep JobID Owner C Pos DP Real Paging SIO
7 *MASTER* STC04388 +MASTER+ NS FF 3518 0.00 0.00
PCAUTH PCAUTH NS FF 115 0.00 0.00
RASP RASP NS FF 460 0.00 0.00
TRACE TRACE NS FF 5850 0.00 0.00
DUMPSRV DUMPSRV DUMPSRV NS FF 646 0.00 0.00
XCFAS XCFAS IEFPROC NS FF 6419 0.00 0.00
GRS GRS NS FF 24T 0.00 0.00
SMSPDSE SMSPDSE NS FF 679 0.00 0.00
SMSPDSE1 SMSPDSE1 NS FF 1575 0.00 0.00
COMMAND INPUT ==> 4 SCROLL ==> PAGE
```

Figure 1. A Sample SDSF Tabular Panel

See	Name	Description
1	Action bar	The action bar permits you to select a pull-down menu to accomplish various SDSF tasks.
2	Title line	The title line shows the panel name as well as other information.
3	Message area	Short error and confirmation messages appear here.
4	Command line	The command line lets you enter SDSF, MVS, or JES commands.
5	Message and information lines	Longer messages appear below the command line. The information lines display responses when you issue some SDSF commands. The example shows the response to SET DISPLAY, which displays settings for filters.

See	Name	Description
6	Data area	<p>The data area contains the system data. On tabular panels, the data is in columns and rows. Each row represents a single job, TSO user, data set, device or system resource, depending on the panel.</p> <p>The column titles may be customized by the system programmer. For that reason, when using the programming interfaces, you refer to columns by their internal <i>names</i> rather than by their titles. The names cannot be modified.</p> <p>When customizing the columns, system programmers can define a primary list of columns, which is shown when the panel is first displayed, and an alternate list, which you display with the ? command. Typically, the alternate list contains all of the columns in the primary list plus some additional columns. The additional columns may require additional work by SDSF to retrieve the data. These columns are referred to as <i>delayed</i> or <i>delayed-access</i>.</p> <p>The first column is the <i>fixed field</i>; when you scroll right or left, it remains in the same position. In the sample panel, the JOBNAME field is fixed.</p> <p>The REXX, Python, and Java interfaces allow you to control which columns are included when you access a panel. Typically, you want to include only those columns that are required.</p>
7	NP column	Input (iNP ut) field for brief commands, known as action characters.

Understanding the SDSF main panel

Regardless of how you invoke SDSF, the default SDSF main panel uses a table layout, similar to all other SDSF tabular panels.

The tabular main panel shows the command name, description, group, and status. You can scroll to view additional pages.

The SDSF tabular main panel lists the panels that you are authorized to use, and the commands that display the panels. (A few panels are accessed with action characters instead of commands, and do not appear on the main panel.) The tabular panels have a fixed field, at the left, that does not move as you scroll right and left.

Tip: You can use the **MENU** command to return to the main panel from any tabular panel.

The SDSF main panel layout is as follows:

```

      Display  Filter  View  Print  Options  Search  Help
-----
SDSF MENU 3.2      SYSPLEX1  SYS1                      LINE 1-16 (110)
COMMAND INPUT ==>                                SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
ACTION=.-Prompt,.-Show,S-Select
NP1  NAME2      Description3      Group4      Status5
DA      Active users              Jobs
I      Input queue                Jobs
O      Output queue               Output
H      Held output queue          Output
ST     Status of jobs             Jobs
JG     Job groups                 JES
SYM    System symbols             System
LOG    System log                 Log
SR     System requests            Log
MAS    Members in the MAS         JES
JC     Job classes                JES
SE     Scheduling environments    WLM
RES    WLM resources              WLM
ENC    Enclaves                   WLM
PS     Processes                  OMVS
SYS    System information          System

```

You can scroll to view additional pages. The main panel shows the following rows:

1 iNPut

The 'NP' column means 'iNPut' field and the line commands are called 'action characters'.

2 Command name

The SDSF main panel lists the panels that you are authorized to use, and the commands that display the panels.

3 Description

A brief description of the command.

4 Group

The SDSF tabular commands are organized by groups, which are defined by SDSF. The groups are shown in [Table 12 on page 5](#). You can sort the group column with the **`SORT GROUP`** command or filter them by using fast path select. For example, `s * wlm`.

Table 12. Main Panel Groups	
Group	Panel
Devices	DEV, DEVS, EDT, SMSG, SMSV, UCB
Jobs	AD, AS, AW, DA, I, ST
JES	INIT, JO, JC, JES, JG, JRG, JRI, JRJ, JRJC, JRU, MAS, PR, PROC, PUN, RDR, RM, RMA, SO, SP
Log	ELOG, LOG, RLOG, SR, ULOG
Measure	SMFD, SMFL, SMFO, SMFR, SMFS
Memory	CMO, CS, CSR, MEM, VMAP
Network	LINE, NA, NAP, NC, NODE, NS
Output	H, O
OMVS	BPXO, FS, PS
Program	LPD, MFD, MFJ, MFM, MFP, PC, PPT, PROD, SVC
Security	RAC, RACD, RACF, RACG, RACO, RACP, RACR, RACU
Sysplex	CF, CFC, CFD, CFS, CFSA, EMCS, ENQD, PLEX, XCFA, XCFM, XCFP
System	APF, CAT, CK, DASH, DYNX, ELOG, ENQ, ENQC, FXE, GT, LLS, LNK, LPA, LPAR, PAG, PARM, SSI, SYM, SYS, SYSP, HELP
WLM	ENC, REPC, RES, RGRP, SE, SRVC, WKLD, WLM

5 Status

The status value shows a reason why the command is not available, such as a subsystem restriction (for example, a JES3-only command when SDSF is running in a JES2 environment), or the command is not authorized. The reasons are:

- JES2 environment only
- JES3 environment only
- JESx not active
- Native environment only
- Global not acceptable
- Command not authorized
- RACF required

- Suppressed by installation
- Feature feature-name inactive

Panels available only from other panels

The following panels do not appear on the SDSF main panel and are available only by using action characters from other panels:

Table 13. Panels Available Only From Other Panels

Panel	Available From	Action Character
CKH Health Check History	CK	L
CKPT JES Checkpoint	JES	JC
CSI Common Storage Subpool Details	CS	L
FXE attributes	FXE	S
JCM Job Class Members	JC (JES3 only)	I
JC Job Modules	AD, AS, DA	JC
JCS Job Common Storage	AD, AS, CSR, and DA	JCS
JD Job Device	AS, DA, I, INIT, NS, ST	JD
JDD Job DDName	AD, DA, I, ST, INIT, NS	JDD
JDS Job Data Set	DA, I, ST, H, O	?
JM Job Memory	AD, AS, DA, I, INIT, NS, ST	JM
JMO Job Memory Objects	AD, AS, DA	JMO
Job Resource Limit panel	ST	JRL
JS Job Step	DA, H, I, O, ST	JS
Job Dependency	I, JG, ST	JP
Job Tasks	AD, AS, DA	JT
Job Delay	DA	JY
MAP panel	MEM	M
MEMC Memory Chain	MEM	RC
Process Details	PS	L
RACF Access	RAC, RACP	L
RACF Browse	RACF Access, RACP	S
RACF Connects	RACP	L
S Output Data Set	DA, I, O, H, ST, JG, JS	To view output formatted for a line-mode device, use the S action character. To invoke ISPF Browse or Edit, use the SB, SE, or SJ action characters.
UNIX Threads	PS	LT

Table 13. Panels Available Only From Other Panels (continued)

Panel	Available From	Action Character
USI Private Storage Subpool Details	JM	L
VTOC Volume Table of Contents	CAT, DEV, DEVS, SMSV, SP	LVT

Specifying an alternate main panel

You can change the default main panel that is displayed on entry to SDSF by using the **SET MAIN** command.

You can specify either the Dashboard panel (DASH) (as long as you are authorized to the SYS command) or the MGRP panel to be the main SDSF panel.

The DASH panel displays system configuration information along with utilization and top consumers of various system resources. An example of the DASH panel follows:

```

  Display Filter View Print Options Search Help
-----
SDSF DASHBOARD SYS2          SRPLEX0H          LINE 1-18 (45)
COMMAND INPUT ==>          SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
Attribute Value Metric Measure
Sysplex SRPLEX0H CPU% 100
Sysname SYS2 zIIP% 0
Syslevel z/OS 03.02.00 HBB77F0 Spool% 9
Sysclone 92 SIO 628
SMFID SYS2 Aux% 0
JESName JES2 RealAFC 386185
JESNode SRPLEX0H Real% 68
JESMember SYS2 PageRate 0
LPAR SysMSU 394
IPLVolser LM301A AvgMSU 25
IPLDate 2025/08/04-00:30:20 MaxASID 605
IEASYS (LP,IZ,L) FreeASID 445
IEASYM (31,92,L) BadASID 0
CVTVERID Z32R252 05May25 TSO 4
HardwareName Z16 Job 0
CPCNode 003931.A01.IBM.02.000000088DC8 WTOR 5
Userid TWUSR HVComm% 14

```

The DASH panel is described in the topic [“Dashboard panel \(DASH\)”](#) on page 104.

The Main group panel (MGRP) displays the main panel as a list of command groups. Groups can be expanded to show only the panels in that group or collapsed to show only the group name. An example of the MGRP panel with one of the groups expanded follows:

```

Display Filter View Print Options Search Help
-----
SDSF MENU 3.2      SYSplex1 SYS1                      LINE 1-17 (22)
COMMAND INPUT ==>          SCROLL ==> CSR
ACTION=.-Collapse,.-A-CollapseAll,.-Expand,.-A-ExpandAll,/-Show,S-Select
NP  GROUP  Name      Description      Status
Devices >>----- 6 of 6 panels available
Devices DEV       Device activity
Devices DEVS      Device space
Devices EDT       Eligible device table
Devices SMSG      SMS storage groups
Devices SMSV      SMS volumes
Devices UCB       Unit control blocks
Jobs <<----- 5 of 5 panels available
JES <<----- 18 of 19 panels available
Log <<----- 5 of 5 panels available
Measure <<----- 5 of 5 panels available
Memory <<----- 4 of 4 panels available
Network <<----- 6 of 6 panels available
Output <<----- 2 of 2 panels available
OMVS <<----- 3 of 3 panels available
Program <<----- 8 of 8 panels available

```

The MGRP panel is described in the topic [“Main Group panel \(MGRP\)”](#) on page 194.

For more information about the SET MAIN command, see the topic [“SET MAIN”](#) on page 511.

Selecting a row on the main panel

SDSF provides mechanisms to navigate and work with the SDSF panels.

You can select a command row on the main panel by using the S action character in the NP column. Multiple selects are not allowed; select only a single row with the S action.

For example, you might select the DA command from the main panel:

```

Display Filter View Print Options Search Help
-----
SDSF MENU V2R5M0    RSPLEX01 SYS1                      LINE 1-18 (73)
NP  NAME      Description      Group      Status
S  DA        Active users      Jobs
I  I          Input Queue       Jobs
O  O          Output Queue      Output
H  H          Held output Queue Output
ST ST         Status of jobs    Jobs
J0 J0         Job zero          JES        JES3 environment only
JG JG         Job groups        JES
SYM SYM        System symbols    System
LOG LOG        System log         Log
SR  SR         System requests   Log
MAS MAS        Members in the MAS JES
JC  JC         Job classes       JES
SE  SE         Scheduling environments WLM
RES RES        WLM resources     WLM
ENC ENC        Enclaves         WLM
PS  PS        Processes         OMVS

```

The repeat (=) and block (//) actions are not available on the main panel.

Using SDSF help

From any panel, F1 opens a general help page for that panel. You can also invoke help from the Help pull-down menu or by entering the HELP command.

For example, if you invoke help for the DA panel, the following help panel is displayed:

```

Display Filter View Print Options Search Help
-----
SDSF HELP  SYS1      SECTION DA                      LINE 1-18 (599)
COMMAND INPUT ==>                                SCROLL ==> CSR
PREFIX=*  DEST=(ALL)  OWNER=*  SYSNAME=
NP  Help-Text
    Display Active Users panel (DA)

    The Display Active Users (DA) panel allows authorized users to display
    information about jobs, users, started tasks, and initiators that are
    active in the sysplex. It also shows system data, such as CPU usage and
    paging information.

    NOTE: Some of the values on the DA panel, such as CPU% and SIO, are
    approximate. For detailed and precise performance monitoring, use RMF.

    Command

    Access the DA panel with the DA command from any SDSF panel.

    Parameters

```

Scroll down to view additional help content.

Accessing help topics

A full list of help topics for SDSF is available by entering F1 on the main SDSF panel, or selecting the **Help contents** option from the action bar pull-down. The following shows the main help topics list:

```

Display Filter View Print Options Search Help
-----
SDSF HELP  SYS1      SECTION                          SET COMMAND COMPLETE
COMMAND INPUT ==>                                SCROLL ==> CSR
NP  Help-Text
    Summary of changes for SDSF for z/OS 3.2
    Changes in previous releases
    SDSF messages and codes
    Introduction to SDSF
    o Invoking SDSF
    o SDSF panel format
    o Understanding the SDSF main panel
    o Specifying an alternate main panel
    o Selecting a row on the main panel
    o Using SDSF help
    o Working with SDSF panels
    o Managing jobs
    o Monitoring jobs
    o Displaying output
    o Using the system log
    o Using the user log
    o Purging output
    o Printing from SDSF panels

```

Use the S action character in the NP column to select a topic, or point-and-shoot by placing the cursor under the topic and pressing Enter.

Searching the help

Use the **SEARCH** command to search SDSF's help.

The parameter usage is as follows:

```
SEARCH phrase
```

If the phrase includes blanks, enclose the phrase in quotation marks. If you do not pass a phrase, a pop-up panel appears.

Consider the following examples:

- **SEARCH cpu use** - Searches for cpu use, cpu, and use.
- **SEARCH 'cpu use'** - Searches for cpu use.

See “Search panel (SRCH)” on page 272 for a description of **SRCH**.

“Action Character Help panel (ACTH)” on page 53

“Columns Help panel (COLH)” on page 79

SDSF provides mechanisms to navigate and work with the SDSF panels.

Using action characters

You take action against or display more information about an object, such as a job or a device, with action characters. Action characters are short commands, usually one or two characters. When using SDSF interactively, you type action characters in the NP column.

- Display the valid action characters with a description by using the SET ACTION command, as described in “Displaying action characters” on page 12.

```

Display Filter View Print Options Search Help
-----
SDSF INPUT QUEUE DISPLAY ALL CLASSES                               LINE 1-16 (445)
COMMAND INPUT ==>                                                SCROLL ==> CSR
ACTION=.,+,,/,/,%,?,,=,A,C,CA,CD,CDA,D,DL,DP,E,EC,ES,ESH,H,I,J,JD,JDD,JM,JP,JS,
ACTION=L,LL,P,PP,S,Sn,SB,SE,SJ,SV,W,X,XC,XD,XDC,XF,XFC,XS,XSC
NP  JOBNAME      JobID      Owner      Prty C      Pos  PrtDst      Rmt  Node
PSDAMON J0001714 PSDAMON      9  *      SIRIUS.PSDAMON      2
DVRICST J0106595 DVRICKP      9  A      LOCAL      21
STORMAN J0158910 SUBJCL      9  A      LOCAL      21
IEK3M1  J0159286 IEK3CTL      9  A      LOCAL      21

```

- ```

Action Characters Row 1 to 9 of 58
Command ==>

Type a number to select an action. Sort with F5
(action), F6 (description).

Line number: 66 TWUSRA

Selection:

Number Action Description
1. + Extend
2. / Show
3. % RunExec
4. ? JDS
5. A Release
6. C Cancel
7. CA CancelARM
8. CD CancelDump
9. CDA CancelARMDump

```

- You can also issue action characters against rows on a tabular panel from the command line. The syntax for action characters from the command line is:

```
rows action-character
```

where *rows* can be one or more row numbers or ranges of row numbers. Row numbers are displayed using SET ROWNUM as previously described.

The action characters on each panel vary, depending on the functions that can be performed on the panel. For example:

- +(n) - Expand the NP column, where *n* is 4-20. For example, +6 expands the column width to 6 bytes.
- ? - List a job's data sets
- c - Cancel a job
- p - Purge output
- s - Browse line-mode output
- x - Print data sets

Some action characters access a secondary panel. For example, use the ? action character on a job-related panel to display the Job Data Set panel, which lets you work with individual data sets.

## Using repeat and block repeat action characters

You can repeat the previous action character or overwrite, and select a block repeat.

The = action character repeats the previous action character or overwrite.

To perform a block repeat, enter // on the first row, the action character to be repeated, and another // on the last row to be processed.

For example, you might select the DA command from the main panel and select a block of jobs to display:

|       | Display | Filter   | View     | Print   | Options   | Search | Help |                  |
|-------|---------|----------|----------|---------|-----------|--------|------|------------------|
| ----- |         |          |          |         |           |        |      |                  |
| SDSF  | STATUS  | DISPLAY  | ALL      | CLASSES |           |        |      | LINE 1-19 (280)  |
| NP    | JOBNAME | JobID    | Owner    | PrtY    | Queue     | C      | Pos  | SAff ASys Status |
|       | JOB     | JOB03289 | TS5485   | 9       | EXECUTION | A      |      | RS86 RS86 HOLD   |
| //D   | TS5485  | TSU05289 | TS5485   | 15      | EXECUTION |        |      | RS86 RS86        |
|       | TS5536  | TSU05294 | TS5536   | 15      | EXECUTION |        |      | RS86 RS86        |
|       | BPXAS   | STC04924 | BPXAS    | 15      | EXECUTION |        |      | RS86 RS86        |
|       | VTAM    | STC04925 | VTAM     | 15      | EXECUTION |        |      | RS86 RS86        |
|       | SYSLOG  | STC04928 | +MASTER+ | 15      | EXECUTION |        |      | RS86 RS86        |
| //    | HZSPROC | STC04931 | HZSPROC  | 15      | EXECUTION |        |      | RS86 RS86        |

The display (D) action character is repeated for the block, as follows:

```

Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES 6 COMMANDS ISSUED
RESPONSE=RS86
$HASP890 JOB(TS5485)
$HASP890 JOB(TS5485) STATUS=(EXECUTING/RS86),CLASS=TSU,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
$HASP890 JOB(TS5536)
$HASP890 JOB(TS5536) STATUS=(EXECUTING/RS86),CLASS=TSU,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
$HASP890 JOB(BPXAS)
$HASP890 JOB(BPXAS) STATUS=(EXECUTING/RS86),CLASS=STC,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
$HASP890 JOB(VTAM)
$HASP890 JOB(VTAM) STATUS=(EXECUTING/RS86),CLASS=STC,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
$HASP890 JOB(SYSLOG)
$HASP890 JOB(SYSLOG) STATUS=(EXECUTING/RS86),CLASS=STC,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
$HASP890 JOB(HZSPROC)
$HASP890 JOB(HZSPROC) STATUS=(EXECUTING/RS86),CLASS=STC,
$HASP890 PRIORITY=15,SYSAFF=(RS86),HOLD=(NONE)
INIT STC04943 INIT 15 EXECUTION RS86 RS86
COMMAND INPUT ==> SCROLL ==> PAGE

```

## Displaying action characters

The **SET ACTION** command displays the valid action characters for a panel. The selected values are saved across SDSF sessions when running under ISPF. On the SDSF main panel, the only available action is S (Select). The actions available on other panels are panel specific.

The **SET ACTION** command displays the available action characters you can enter in the NP column. **SET ACTION** is interpreted as **SET ACTION LONG**, which displays both the action characters and their descriptions.

Consider the following example from the ST panel:

```

Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES LINE 1-8 (13326)
COMMAND INPUT ==> SCROLL ==> CSR
ACTION=.-/ -Prompt,+-Extend,/ -Show,/-Block,%-RunExec,?-JDS,=-Repeat,A-Release,
ACTION=C-Cancel,CA-CancelARM,CD-CancelDump,CDA-CancelARMDump,D-Display,
ACTION=DL-DisplayLong,DP-DisplayDependencies,E-Restart,EC-RestartCancel,
ACTION=ES-RestartStep,ESH-RestartStepHold,H-Hold,I-Info,J-Start,JD-JobDevices,
ACTION=JDD-JobDDNames,JM-JobMemory,JP-JobDependencies,JRL-JobResourceLimit,
ACTION=JS-JobStep,L-List,LL-ListLong,O-ReleaseOutput,P-Purge,P0-PurgeOutput,
ACTION=PP-PurgeProtected,S-Browse,Sn-BrowseLocDS,SB-ISPFBrowse,SE-ISPFEdit,
ACTION=SJ-JCLEdit,SV-ISPFView,W-Spin,X-Print,XC-PrintClose,XD-PrintDS,
ACTION=XDC-PrintDSClose,XF-PrintFile,XFC-PrintFileClose,XS-PrintSysout,
ACTION=XSC-PrintSysoutClose
NP JOBNAME JobID Owner Prty Queue C Pos SAff ASys Status
 $B1C0085 J0181351 TS3466 1 PRINT A 4498
 $MASCOMM S0000001 JES2 15 PRINT
 #02CBDB J0177332 TS5946 1 PRINT A 1917
 #02CBDB J0177603 TS5946 1 PRINT A 2139

```

## Additional SET ACTION commands

The **SET ACTION SHORT** command displays the available action characters you can enter in the NP column, without descriptions.

Consider the following example from the ST panel:

```

Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES SET COMMAND COMPLETE
COMMAND INPUT ==> SCROLL ==> CSR
ACTION=.,+,/,//,%?,=,A,C,CA,CD,CDA,D,DL,DP,E,EC,ES,ESH,H,I,J,JD,JDD,JM,JP,
ACTION=JRL,JS,L,LL,O,P,PO,PP,S,Sn,SB,SE,SJ,SV,W,X,XC,XD,XDC,XF,XFC,XS,XSC
NP JOBNAME JobID Owner Prty Queue C Pos SAff ASys Status
 $B1C0085 J0181351 TS3466 1 PRINT A 4498
 $MASCOMM S0000001 JES2 15 PRINT 1
 #02CBDB J0177332 TS5946 1 PRINT A 1917
 #02CBDB J0177603 TS5946 1 PRINT A 2139

```

The **SET ACTION ?** command displays the current setting for SET ACTION.

The **SET ACTION OFF** command stops the current SET ACTION.

## Overtyping values in columns

You can change the values in some columns by typing over them. SDSF refers to this as *overtyping*. The columns you can overwrite are panel specific. For example, on the ST panel you can overwrite columns such as service class and priority:

```

Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES LINE 1-18 (256)
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
NP JOBNAME JobID Owner 1 Prty Queue 2 C Pos 3 SAff ASys Status
 JOBB JOB03289 TS5485 9 EXECUTION A RS86 HOLD
 TS5485 TSU05243 TS5485 15 EXECUTION RS86 RS86
 TS5536 TSU05245 TS5536 15 EXECUTION RS86 RS86

```

where:

- **1** is the priority field that you can overwrite.
- **2** is the class field you can overwrite.
- **3** is the JES execution system affinity (if any) that you can overwrite.

You can also overwrite the values in columns from the command line. The syntax is:

```
rows column-title=value
```

where *rows* can be one or more row numbers or ranges of row numbers.

Some overtypeable columns are part of a set of values, which you can view with the COLSHELP command described in [“Displaying all column names for a panel”](#) on page 16. SDSF typically handles these related fields by providing a single overtypeable column. You work with a set of related values by entering a plus sign + alone in the column, which opens the Overtyping Extension pop-up. The Overtyping Extension pop-up shows as many input fields as are valid for that column. (If there are no related columns, the pop-up has only one field.)

For example, there are eight SFORMS values for printers, and only the first one is overtypeable. To overwrite multiple SFORMS, enter + in the SFORMS column to display the Overtyping Extension pop-up.

### Overtyping Extension

Column SForms  
Maximum length 8

Type values or use blanks to  
erase values.

```

==> _____
==> _____
==> _____
==> _____
==> _____
==> _____
==> _____
==> _____

```

## Locating overtypable fields

SDSF uses colors on the tabular panels to identify active objects (such as jobs) and overtypable fields:

- Blue - Not active; the field is not overtypable.
- White - Active; the field is not overtypable.
- Green - Not active; the field is overtypable.
- Red - Active; the field is overtypable.

You can change these colors with the command **SET SCREEN** from ISPF.

## Using the WHO command

The **WHO** command displays your user ID, TSO logon procedure name, terminal ID, group index, and group name of the authorization group you have been assigned to based on ISFGRP macros or GROUP statements in ISFPARMS. (The index indicates the group by a count of groups. For example, an index of 3 indicates the group defined by the third GROUP statement in ISFPARMS.)

Enter the **WHO** command from any tabular panel. You can also access the **WHO** pop-up by selecting **View > WHO** from the SDSF main menu.

The **WHO** command displays when the user is logged in to the JES2 emergency subsystem. The JESNAME keyword appends "E" to the JES name being processed.

In support of the DA panel using the HSF data gatherer, the RMF/DA response displays the following additional values:

- HSF, when SDSFAUX is being used to gather the data.
- HSF/NORMF, when SDSFAUX is being used to gather the data without RMF.

The example is for demonstration purposes only.

```
USERID=TS5485,PROC=SDSF324J,TERMINAL=S86TCP01,GRPINDEX=1,GRPNAME=ISFSPROG,
MVS=z/OS 03.02.00,JES=z/OS 3.2,SDSF=HGX77F0,ISPF=8.1,RMF/DA=HSF,SERVER=YES
SERVERNAME=SDSF,JESNAME=HASP/E,MEMBER=SYS1,JESTYPE=JES2,SYSNAME=SYS1,
SYSPLEX=NNPLEX99,COMM=NOTAVAIL,COMM=ENABLED,JOBID=SRD09999,
XCFCGROUP=NNPLEX99,SESSID=1,NUMSESS=1,PROFILE=FILESYS
```

## Querying authorized SDSF commands

You can display the SDSF commands for which you are authorized.

Enter the **QUERY AUTH** command from any tabular panel to display a list of the commands you are authorized to use. Only commands that require authorization are included.

The example is for demonstration purposes only; your authorized commands may be different.

```
AUTH=ABEND,ACTION,APF,AS,BPX0,CFC,CFS,CK,CSR,DA,DEST,DEV,DIAG,DYNX,EMCS,ENC,
AUTH=ENQ,ENQC,ENQD,FINDLIM,FS,GT,H,I,INIT,INPUT,JC,JG,JP,J0,LINES,LNK,LOG,LP
AUTH=LPD,MAS,NA,NC,NODES,NS,O,OWNER,PAG,PAGE,PARM,PR,PREFIX,PROC,PS,PUN,RDR,
AUTH=REPC,RES,RGRP,RM,RMA,RSYS,SE,SLASH,MSG,SMSV,SO,SP,SR,SRVC,SSI,ST,SYM,
AUTH=SYS,SYSID,SYSNAME,SYSTEM,TRACE,ULOG,VMAP,WKLD,WLM,XCFM
```

The **QUERY AUTH LONG** command returns information about the JES dependencies:



```

AUTH=ABEND (ANYJES) , ACTION (ANYJES) , APF (ANYJES) , AS (ANYJES) , BPXO (ANYJES) ,
AUTH=CFC (ANYJES) , CFS (ANYJES) , CK (ANYJES) , CSR (ANYJES) , DA (ANYJES) , DEST (ANYJES) ,
AUTH=DEV (ANYJES) , DIAG (ANYJES) , DYNX (ANYJES) , EMCS (ANYJES) , ENC (ANYJES) ,
AUTH=ENQ (ANYJES) , ENQC (ANYJES) , ENQD (ANYJES) , FINDLIM (ANYJES) , FS (ANYJES) ,
AUTH=GT (ANYJES) , H (ANYJES) , I (ANYJES) , INIT (ANYJES) , INPUT (ANYJES) , JC (ANYJES) ,
AUTH=JG (JES2) , JP (ANYJES) , JQ (JES3) , LINES (ANYJES) , LNK (ANYJES) , LOG (ANYJES) ,
AUTH=LPA (ANYJES) , LPD (ANYJES) , MAS (ANYJES) , NA (ANYJES) , NC (ANYJES) , NODES (ANYJES) ,
AUTH=NS (ANYJES) , O (ANYJES) , OWNER (ANYJES) , PAG (ANYJES) , PAGE (ANYJES) , PARM (ANYJES) ,
AUTH=PR (ANYJES) , PREFIX (ANYJES) , PROC (JES2) , PS (ANYJES) , PUN (ANYJES) , RDR (ANYJES) ,
AUTH=REPC (ANYJES) , RES (ANYJES) , RGRP (ANYJES) , RM (JES2) , RMA (JES2) , RSYS (ANYJES) ,
AUTH=SE (ANYJES) , SLASH (ANYJES) , MSG (ANYJES) , SMSV (ANYJES) , SO (JES2) , SP (ANYJES) ,
AUTH=SR (ANYJES) , SRVC (ANYJES) , SSI (ANYJES) , ST (ANYJES) , SYM (ANYJES) , SYS (ANYJES) ,
AUTH=SYSID (ANYJES) , SYSNAME (ANYJES) , SYSTEM (ANYJES) , TRACE (ANYJES) , ULOG (ANYJES) ,
AUTH=VMAP (ANYJES) , WKLD (ANYJES) , WLM (ANYJES) , XCFM (ANYJES)

```

## Displaying row numbers

You might want to reference row numbers when entering action characters from the command line. Using the example that follows, if you enter **2 D** in the command line, the Display action is taken against row 2 (job name ISFUSER1).

Display row numbers with the **SET ROWNUM** or **SET ROWNUM ON** command.

```

SDSF INPUT QUEUE DISPLAY ALL CLASSES SET COMMAND COMPLETE
NP #### JOBNAME JobID Owner Prty C Pos PrtDest Rmt Nod
 1 JOBB JOB03289 TS5485 9 A LOCAL
 2 ISFUSER1 JOB06434 TS5479 9 X LOCAL

```

Turn row numbers off with the **SET ROWNUM OFF** command.

## Showing all column values for a row

The Show Columns pop-up displays all column values for a row in a scrollable pop-up.

You access the pop-up with the / (slash) action character from a row when running in the ISPF environment. This pop-up is especially useful when viewing a table with many columns because there is no need to scroll. All possible columns are included.

The pop-up contains two options. The selected values are saved across SDSF sessions when running under ISPF. The values are global across all SDSF tables.

- All values - When selected, all columns will be shown, even if the value is blank. When deselected, only columns with values are shown.
- Column width - When selected, values will be formatted using the same width as the underlying panel. When deselected, a maximum width is used. This results in longer string values being shown.

Consider the following example. From the ST panel, locate a job and enter / in the NP column next to the job name:

```

/ SDSF STC04612 SDSF 15 EXECUTION RS86 RS86

```

A pop-up similar to the following appears:

Sort column with F5. Use Locate to position to column.

| <u>_</u> All values | <u>_</u> Column width |           |
|---------------------|-----------------------|-----------|
| Column              | ##                    | Value     |
| JOBNAME             | 01                    | SDSF      |
| JobID               | 01                    | STC04612  |
| Owner               | 01                    | SDSF      |
| PrtY                | 01                    | 15        |
| Queue               | 01                    | EXECUTION |
| SAff                | 01                    | RS86      |
| ASys                | 01                    | RS86      |
| PrtDest             | 01                    | LOCAL     |
| TGNum               | 01                    | 4         |
| TGPct               | 01                    | 0.02      |
| OrigNode            | 01                    | LOCAL     |
| ExecNode            | 01                    | LOCAL     |
| WPos                | 01                    | 0         |

Note the following usage:

- All tabular panels except the SDSF main panel support the show columns action. The **SET ACTION** command response contains the "Show" string on panels that support the action.
- The pop-up displays all columns, even when hidden. If you select **All values**, the .END column is also shown at the appropriate point in the panel.
- The actual columns that are available depend on any customization of field lists in ISFPARMS.
- Values for delayed columns are fetched even if the column was not visible on the underlying panel.
- Long character values will be split across as many lines as are needed.
- For columns with multiple values, each value is shown with a value count under the ## heading.
- By default, the columns on the pop-up appear in the same order as the underlying table. Press F5 to sort the columns alphabetically. The column title on the pop-up is then underlined to indicate that sorting is in effect.
- Enter **L** *column-name* to locate a specific column. **Locate** positions to the first column matching all or part of the command parameter.

## Displaying all column names for a panel

The **COLSHELP** (COLSH) command displays a table of the columns that can be displayed on SDSF tabular panels. The **COLSHELP** command is often used when writing REXX execs because the exec needs to reference the column name.

The function of the **COLSHELP** command depends on where you invoke it:

- If you invoke the **COLSHELP** command on the main menu, it displays all columns for all panels, including panels that are available only from other panels.

```

SDSF COLUMN HELP SYS1 ALL LINE 1-17 (2541)
COMMAND INPUT ==> SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
ACTION=+-Extend,/-Show,/-Block,%-RunExec,=-Repeat
NP COLUMN Panel Title Description
 COMMAND ACTH COMMAND Action command
 PANEL ACTH Panel Panel name
 DESC ACTH Description Command description
 AUTH ACTH AuthLevel Auth level required for command
 JES ACTH JES JES Type
 ENV ACTH Environment Valid environments
 NEW ACTH New New action
 CLASS ACTH Class SAF class
 RESOURCE ACTH Resource SAF resource
 JNAME AD JOBNAME Job name, fixed field
 ASIDX AD ASIDX Address space identifier in hexa
 STEPN AD StepName Step name
 PROCS AD ProcStep Procedure step name
 JOBID AD JobID JES job ID, or work ID
 OWNERID AD Owner User ID of job creator
 ASCB AD ASCB ASCB address
 ASSB AD ASSB ASSB address

```

- If you invoke the **COLSHELP** command on any other tabular panel, it displays all columns for that panel.

```

SDSF COLUMN HELP RS22 DA LINE 1-18 (65)
COMMAND INPUT ==> SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=
NP COLUMN Panel Title Description
 JNAME DA JOBNAME Job name, fixed field
 JNUM DA JNum JES job number
 STEPN DA StepName Job step name (TSO logon proc fo
 PROCS DA ProcStep Procedure step name (terminal ID
 JOBID DA JobID JES job ID
 OWNERID DA Owner User ID of job owner
 JCLASS DA C JES input class
 POS DA Pos Address space position
 DP DA DP Dispatching priority in hexadeci
 REAL DA Real Current real storage usage in fr
 PAGING DA Paging Demand paging rate for address s
 EXCPRT DA SIO EXCP rate in EXCPs per second
 CPUPR DA CPU% Percent of CPU time used
 ASID DA ASID Address space identifier
 ASIDX DA ASIDX Address space identifier in hexa
 EXCP DA EXCP-Cnt EXCP count for the current job s
 CPU DA CPU-Time CPU time used, for the current j
 SWAPR DA SR Swap out reason code

```

## Setting primary function keys

You can display and set the primary function (PF) keys.

Enter the **KEYS** command from ISPF or select the "Non-Keylist PF Key settings" pull down entry from Settings to change the PF keys. The PF Key Definitions and Labels panel is displayed.

```

 PF Key Definitions and Labels
 More: +
Number of PF Keys . . . 12 Terminal type . : 3278

PF1 . . . HELP-----
PF2 . . . SPLIT-----
PF3 . . . END-----
PF4 . . . RETURN-----
PF5 . . . IFIND-----
PF6 . . . BOOK-----
PF7 . . . UP-----
PF8 . . . DOWN-----
PF9 . . . SWAP-----
PF10 . . . LEFT-----
PF11 . . . RIGHT-----
PF12 . . . RETRIEVE-----

PF1 label . . .----- PF2 label . . .----- PF3 label . . .-----
PF4 label . . .----- PF5 label . . .----- PF6 label . . .-----
PF7 label . . .----- PF8 label . . .----- PF9 label . . .-----
PF10 label . . .----- PF11 label . . .----- PF12 label . . .-----
Command ==>

```

Use the panel to assign PF keys to ISPF commands. You can assign PF keys to system commands (such as HELP or END), function commands (such as edit FIND and CHANGE), and line commands (such as edit "I" and "D").

The PF Key Definitions and Labels panel also allows you to optionally assign labels to the function key definitions. A label is used for display in place of its corresponding PF key definition when you issue the PFSHOW command.

## Hiding unavailable options from the main panel

The **SET MENU** command controls whether unavailable options are shown or hidden on the SDSF main panel. The selected value is saved across SDSF sessions when running under ISPF.

Use the **SET MENU HIDE** command to hide unavailable options.

Use the **SET MENU ALL** command to show unavailable options.

Consider the following SDSF main panel shown with **SET MENU ALL**. Notice that the J0 option is shown even though it is currently unavailable running under JES2.

```

Display Filter View Print Options Search Help

SDSF MENU 3.2 RSPLEX0G RS86
NP NAME Description Group Status
DA Active users Jobs
I Input Queue Jobs
O Output Queue Output
H Held output Queue Output
ST Status of jobs Jobs
J0 Job zero JES JES3 environment only
JG Job groups JES
SYM System symbols System
LOG System log Log
SR System requests Log
MAS Members in the MAS JES
JC Job classes JES
SE Scheduling environments WLM
RES WLM resources WLM
ENC Enclaves WLM
PS Processes OMVS
SYS System information System
ENQ Enqueues System
DYNX Dynamic exits System
COMMAND INPUT ==> SCROLL ==> PAGE

```

The **SET MENU ?** command displays the current settings for SET MENU.

# Setting point-and-shoot behavior

The **SET PAS** command (and its alias **SET FFPS**) controls the point-and-shoot behavior for both fixed field and other point-and-shoot enabled fields (such as memory addresses). The selected value is saved across SDSF sessions when running under ISPF.

When point-and-shoot is enabled, placing the cursor anywhere within the fixed field or other point-and-shoot enabled field and pressing Enter results in the associated panel being displayed. This is equivalent to entering the corresponding action character or primary command.

By default, point-and-shoot is enabled for the fixed field on the panel. (The fixed field for each panel is described in the panels listed in [Chapter 2, “SDSF panels,” on page 53.](#)) For example, for the DA panel, the fixed field is JOBNAME. By default, point-and-shoot also is enabled on panel fields that support the function. For example, on the JES panel, the SSCT field is enabled for point-and-shoot.

By default, non-fixed field point-and-shoot fields do not use the ISPF **CUA PAS(ON)** attribute, but instead use SDSF internal methods to locate and process cursor actions. This enables you to apply a separate color and highlight to these fields. This behavior can be changed using the **SET SCREEN ISPF** dialog.

The panels in [Table 14 on page 19](#) support fixed field point-and-shoot.

| Table 14. Fixed Field Point-and-Shoot Targets |                                    |
|-----------------------------------------------|------------------------------------|
| Panel                                         | Fixed Field Point-and-Shoot Target |
| AS                                            | Job Memory                         |
| CK                                            | CKH                                |
| DA, I, ST, O, H, JO                           | JDS                                |
| JC                                            | ST                                 |
| JDS                                           | Output data set                    |
| JG                                            | Job Dependencies                   |
| RAC                                           | RACP                               |
| SE                                            | RES                                |
| SMSG                                          | SMSV                               |
| SRCH                                          | ISPF browse                        |

For example:

1. From the DA panel, select the job you are interested in.
2. Place the cursor in the JOBNAME for that job.
3. Press Enter.

The JDS panel for the job is displayed.

## Additional SET PAS (and SET FFPS) commands

The additional **SET PAS** commands are shown in [Table 15 on page 19.](#)

| Table 15. Additional SET PAS Commands |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Command                               | Description                                                                                  |
| <b>SET PAS ON</b>                     | Enables point-and-shoot for the fixed field and other supported fields. This is the default. |

| Table 15. Additional SET PAS Commands (continued) |                                                                                                                                     |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Command                                           | Description                                                                                                                         |
| <b>SET PAS HIDE</b>                               | Enables point-and-shoot for the fixed field and other supported fields, but does not change the color or highlighting of the field. |
| <b>SET PAS OFF</b>                                | Disables point-and-shoot.                                                                                                           |
| <b>SET PAS ?</b>                                  | Displays the current setting for <b>SET PAS</b> .                                                                                   |

## Filtering, sorting, and arranging panel information

SDSF lets you control which jobs are displayed on the SDSF panels by:

- Adding parameters to the commands that access panels, such as the **O** command.
- Issuing other SDSF commands, such as **FILTER**.

You can limit the data on your SDSF panels by using SDSF commands. Table 16 on page 20 provides a high-level introduction to filtering. For important details, including syntax, refer to the online help. For quick access to information about a command, use this **HELP** command from the SDSF command line:

```
HELP command-name
```

Table 16. Summary of Commands for Filtering

| Command       | Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Panels                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>DEST</b>   | Filter data by destination. You set a single value that filters all of the affected panels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H, I, JO, O, PR, PUN, ST    |
| <b>FILTER</b> | Filter data on any column or combination of columns. You can set a unique filter for each panel. For more information, refer to <a href="#">“Setting complex filters”</a> on page 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tabular, OPERLOG            |
| <b>OWNER</b>  | Filter data by owning user ID (primarily). You can use wild cards (% and *). <b>OWNER</b> with no operands is the same as <b>OWNER *</b> . You set a single value that filters all of the affected panels.<br><br><b>Tip:</b> <b>OWNER</b> generally requires a trailing generic character; otherwise, it looks for an exact match. You can modify the generic character with the <b>SET SCHARS</b> command.<br><br><b>Tip:</b> <b>OWNER ?</b> displays a pop-up panel. You will probably find this easiest to use.                                                                                                                    | DA, H, I, JO, JG, O, PS, ST |
| <b>PREFIX</b> | Filter data by job name (primarily). You can use wild cards (% and *). <b>PREFIX</b> with no operands is the same as <b>PREFIX *</b> . You set a single value that filters all of the affected panels.<br><br><b>Tip:</b> <b>PREFIX</b> generally requires a trailing generic character; otherwise, it looks for an exact match. You can modify the generic character with the <b>SET SCHARS</b> command.<br><br><b>Tip:</b> <b>PREFIX ?</b> displays a pop-up panel. You will probably find this easiest to use.<br><br><b>Tip:</b> Using <b>PREFIX **</b> eliminates the need to specify "H ALL" on the H panel to display all jobs. | DA, H, I, O, PS, ST         |

Table 16. Summary of Commands for Filtering (continued)

| Command        | Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Panels                      |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>SELECT</b>  | <p>Temporarily limits data displayed on a tabular panel, overriding any filters, until you exit the panel. For example:</p> <ul style="list-style-type: none"> <li>• <b>SELECT IEB</b> - Displays only jobs with the name IEB.</li> <li>• <b>S BILLJ JOB00011</b> - Displays only jobs with the job name BILLJ and the jobid JOB00011.</li> </ul> <p><b>Note:</b> The available parameters are panel specific. See the online help for a complete description.</p> | Tabular panels              |
| <b>SYSNAME</b> | Limit rows to include only selected systems in a sysplex. You set a single value that filters all of the affected panels.                                                                                                                                                                                                                                                                                                                                          | Sysplex-wide tabular panels |

Filtering the data can reduce storage and improve performance. For best results, use the PREFIX, OWNER, DEST or SYSNAME commands, or parameters on the panel commands. Use the FILTER command, which SDSF processes after the data is gathered, if you cannot accomplish the desired filtering using the other commands.

**Tip:** You can set other filters using the **FILTER** command but it's easier from the FILTER pulldown.

You can sort panels on up to two columns, in ascending or descending order, with the SORT command or up to 10 columns using the SORT pop-up.

## Querying filters

You can display the values of filters.

Enter the **QUERY FILTER** command to display the values of these filters: APPC, DEST, INPUT, OWNER, PREFIX and SYSNAME.

**Note:** The example is for demonstration purposes only; your filters may be different.

```

Display Filter View Print Options Search Help

SDSF MENU 3.2 RSPLEX0G RS86 LINE 1-18 (50)
PREFIX=*, OWNER=*, DEST=, SYSNAME=, APPC=ON, INPUT=ON

```

## Displaying the filter and sort criteria

You can display the filter and sort criteria.

You can use the command **SET DISPLAY** or **SET DISPLAY ON** to see the number of filters as well as the values for other commands that control the information displayed: PREFIX, DEST, OWNER, and SORT. ON is the default. **SET DISPLAY** puts the settings on the information line (the line above the column headings). If data is not being displayed, this can indicate why.

| Table 17. SET DISPLAY Usage |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                   | Description                                                                                                                                                                      |
| PREFIX                      | Displays the current value for PREFIX.                                                                                                                                           |
| SORT                        | Displays up to two criteria: column/order or column//order (for delayed access), plus a count of additional columns. Use <b>SET DISPLAY LONG</b> to show complete sort criteria. |
| DEST                        | Displays the current value for DEST.                                                                                                                                             |
| OWNER                       | Displays the current value for OWNER.                                                                                                                                            |

| Table 17. SET DISPLAY Usage (continued) |                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------|
| Parameter                               | Description                                                                                |
| FILTER                                  | Displays a count for FILTER. Use <b>SET DISPLAY LONG</b> to show complete filter criteria. |
| SYSNAME                                 | Displays the current value for SYSNAME.                                                    |

For example, if you enter **SET DISPLAY**, the values are displayed above the tabular data:

```

 Display Filter View Print Options Search Help

SDSF DA RS86 RS86 PAG 0 CPU 22 LINE 1-18 (73)
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=

```

## Additional SET DISPLAY commands

The additional **SET DISPLAY** commands are shown in [Table 18 on page 22](#).

| Table 18. Additional SET DISPLAY Commands |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| Command                                   | Description                                           |
| <b>SET DISPLAY LONG</b>                   | Shows complete sort and filter criteria.              |
| <b>SET DISPLAY OFF</b>                    | Disables the display of values.                       |
| <b>SET DISPLAY ?</b>                      | Displays the current setting for <b>SET DISPLAY</b> . |

## Setting complex filters

You can use the **FILTER** command to define up to 25 filters with boolean operators. The filter criteria are column, operator and value, and can include pattern matching. When entering multiple filters, you can specify AND or OR to define the relationship between filters.

The FILTER parameters are shown in [Table 19 on page 23](#).

The parameter usage is as follows:

```

FILTER ON | OFF | OR | AND
FIL (+|-) column (operator) value
 ?

```

Consider the following examples:

- **FILTER STATUS EQ A\*** - Displays only jobs with a status that begins with A.
- **FIL +SYSN SY1** - Adds filtering on the SYSNAME column and makes filters active.
- **FILTER JOBNAME EQ TS55\*** - Displays jobs with a job name that begins with TS55.
- **FIL +OWNER EQ TS5536** - Adds filter for OWNER equal to TS5536.
- **FIL -JOBNAME** - Removes filters for JOBNAME.



Table 19. FILTER Parameters

| Parameter                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ON   OFF   OR   AND            | Can be one of the following: <ul style="list-style-type: none"> <li>• ON - Turns filtering on.</li> <li>• OFF - Turns filtering off but retains filter criteria.</li> <li>• OR - Specifies the relationship between both within a column and between columns.</li> <li>• AND - Specifies the relationship between both within a column and between columns.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| + <i>column operator value</i> | Adds the specified <i>column</i> to previous filters and turns filtering on. <i>column</i> can be abbreviated to the shortest unique name. There is a limit of 25 filters under ISPF and TSO when running file system profiles, but no limit with ISFFILTER under REXX.<br><br><i>operator</i> is one of the following: <ul style="list-style-type: none"> <li>• EQ or = Equal (the default)</li> <li>• LT or &lt; Less than</li> <li>• NE or ≠ Not equal</li> <li>• GT or &gt; Greater than</li> <li>• GE or ≥ Greater than or equal</li> </ul> Operators with less than or greater than are valid only when the value does not contain pattern matching characters (* and % by default).<br><br><i>value</i> can contain pattern matching characters or system symbols. If it includes embedded blanks, enclose it in quotation marks. |
| - <i>column</i>                | Discards all filters for the column (ISPF and TSO when running file system profiles only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ?                              | Displays filters and their current state. Under ISPF, it displays the <b>FILTER</b> pop-up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### Additional FILTER commands

The additional **FILTER** commands are shown in [Table 20 on page 23](#).

Table 20. Additional FILTER Commands

| Command            | Description                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FILTER OFF</b>  | Turns off filtering.                                                                                                                                             |
| <b>FILTER ?</b>    | When using SDSF interactively under ISPF, use <b>FILTER ?</b> to display the FILTER pop-up, then type values on the pop-up or select from lists of valid values. |
| <b>SET DISPLAY</b> | Displays the number of filters in effect.                                                                                                                        |

## Sorting columns

The **SORT** command sorts data on the current tabular panel, including its alternate form (displayed with the ? command).

The **SORT** command sorts columns in ascending or descending order. The **SORT** command applies only to the current panel, and each panel can contain uniquely sorted columns. Under ISPF, the sort criteria for each panel are saved.

You can use the **SORT NAME** command to sort the main panel by panel name.

The SORT parameters are shown in [Table 21 on page 24](#).

The parameter usage is as follows:

```
SORT (column) (A | D) column (A | D)
 (+ | -) column (A | D)
 (OFF | ON)
 (?)
```

**SORT** with no parameters sorts a panel using the fixed (first) column.

Consider the following examples:

- **SORT** - Sorts using the fixed output field, ascending.
- **SORT FO A TOT-REC D** - Sorts using the FORMS column, ascending, and then the TOT-REC column, descending.

Column headers are point-and-shoot fields. To sort a column in ascending order using point-and-shoot fields, place the cursor on the column header and press Enter:

- 1st time will sort ascending.
- 2nd time will sort descending.
- 3rd time will remove sort criteria and turn off sorting.

| Table 21. SORT Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>column</i>             | <p>The title of the column to be sorted. Specify the title as it appears on the panel, or abbreviate it to a name that is unique on the panel. If the title contains blanks, either use an abbreviation that contain no blanks or enclose the title in quotation marks.</p> <p>The titles for the same column on the primary and alternate form of a panel may be different. SDSF recognizes the difference and sorts both the primary and alternate forms of the panel. SDSF does not distinguish between duplicate column names that vary only by case.</p> |
| A   D                     | Specifies that the sort order is to be ascending (A) or descending (D). A is the default, but you must specify either A or D when you enter two columns.                                                                                                                                                                                                                                                                                                                                                                                                      |
| +column   -column         | Adds (+) or removes (-) sort criteria for a column. You can sort on up to 10 columns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OFF                       | Turns sorting off for the current panel but retains the sort criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ON                        | Turns sorting on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Table 21. SORT Parameters (continued) |                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                             | Description                                                                                                                                       |
| ?                                     | Under ISPF, displays the sort criteria pop-up. Under TSO, if the criteria do not fit on the command line, they are displayed on the message line. |

## Additional SORT commands

The additional **SORT** commands are shown in [Table 22 on page 25](#).

| Table 22. Additional SORT Commands |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| Command                            | Description                                                            |
| <b>SORT OFF</b>                    | Turns sorting off for the current panel but retains the sort criteria. |
| <b>SORT ?</b>                      | Under ISPF, use <b>SORT ?</b> to display the sort pop-up.              |

## Arranging and hiding columns

The **ARRANGE** command reorders, hides, and changes the widths of columns on the current panel.

The **ARRANGE** command (**ARR**) applies only to the current panel. Each panel can contain uniquely arranged columns. Under ISPF, ARRANGE criteria are saved (one set for each JES type).

**Note:** Arranging some columns to the first screen of columns may impact SDSF performance. Where this is true, the help for the panel's fields indicates that the fields have delayed access.

SDSF scales numbers to make them fit the column width. To see the actual number, use **ARRANGE** to increase the column width.

| Display Filter View Print Options Search Help |          |          |          |          |          |     |     |                  |      |        |     |
|-----------------------------------------------|----------|----------|----------|----------|----------|-----|-----|------------------|------|--------|-----|
| SDSF                                          | DA       | RS86     | RS86     | PAG      | 0        | CPU | 26  | LINE 1-19 (73)   |      |        |     |
| NP                                            | JOBNAME  | StepName | ProcStep | JobID    | Owner    | C   | Pos | DP               | Real | Paging | SIO |
|                                               | *MASTER* |          |          | STC04928 | +MASTER+ | NS  | FF  | 3440             | 0.00 | 0.00   |     |
|                                               | PCAUTH   | PCAUTH   |          |          |          | NS  | FF  | 110              | 0.00 | 0.00   |     |
|                                               | RASP     | RASP     |          |          |          | NS  | FF  | 326              | 0.00 | 0.00   |     |
|                                               | TRACE    | TRACE    |          |          |          | NS  | FF  | 5850             | 0.00 | 0.00   |     |
|                                               | DUMPSRV  | DUMPSRV  | DUMPSRV  |          |          | NS  | FF  | 414              | 0.00 | 0.00   |     |
|                                               | XCFAS    | XCFAS    | IEFPROC  |          |          | NS  | FF  | 3799             | 0.00 | 0.00   |     |
|                                               | GRS      | GRS      |          |          |          | NS  | FF  | 21T <sup>1</sup> | 0.00 | 0.00   |     |

Callout Notes:

- <sup>1</sup> 21T means 21 thousand. T=thousands, M=millions, B=billions, plus KB, MB, GB, TB, PB (bytes).

The ARRANGE parameters are shown in [Table 23 on page 26](#).

The parameter usage is as follows:

```
ARRANGE parameters
ARRANGE from-column A|B to-column
ARR from-column FIRST|LAST|width
 DEFAULT
 ?
```

Consider the following examples:

- **ARRANGE SIO A DP** - Moves the SIO column after the DP column on the current panel.
- **ARR DEST 8** - Makes the DEST column 8 characters wide.

| Table 23. ARRANGE Parameters |                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                    | Description                                                                                                                                                    |
| <i>from-column to-column</i> | <i>from-column</i> and <i>to-column</i> each name a column on an SDSF panel. The column can be abbreviated to the shortest name that is unique for that panel. |
| A                            | Moves <b>from-column</b> after <b>to-column</b> .                                                                                                              |
| B                            | Moves <b>from-column</b> before <b>to-column</b> .                                                                                                             |
| FIRST   F                    | Makes <b>from-column</b> the first column after the fixed field (the first column). The fixed field cannot be moved.                                           |
| LAST   L                     | Makes <b>from-column</b> the last column (farthest to the right).                                                                                              |
| <i>width</i>                 | Sets the width of <i>from-column</i> ; it is 4-20 for NP, 1-127 for other columns. You may need to press F11 (RIGHT) several times to view the width.          |
| DEFAULT                      | Resets the column arrangement to the default.                                                                                                                  |
| ?                            | Under ISPF, displays the <b>ARRANGE</b> pop-up.                                                                                                                |

## Hiding columns with ARRANGE

You can use the **ARRANGE** command to hide columns to reduce left/right scrolling. Hidden columns are not visible on the tabular panels but you can still sort and filter them.

You define hidden columns by using a new special column name of **ISFEND** with a title of **.END** (the end-of-column list marker). By using the **ARRANGE** command to move the position of the **.END** column, columns following **.END** are hidden.

You can specify a *from-column* or *to-column* of **.END** to hide columns on the panel. All columns following **.END** do not appear on the panel.

**ISFEND** is ignored in the SDSF REXX and SDSF Java environments. If you specify **ISFEND** in the *isfcols* or *sdsfcols* variable, the message ISF768I is issued and the column is ignored. Any columns specified after **ISFEND** will be included in the field list. When the column list is not specified and the default field list for the panel is used, the **ISFEND** column is ignored and no message is issued

Consider the examples of hiding columns shown in [Table 24 on page 26](#)

| Table 24. Hiding Panel Columns |                        |                                                                                   |
|--------------------------------|------------------------|-----------------------------------------------------------------------------------|
| Panel                          | Command                | Description                                                                       |
| ST                             | <b>arr .end a saff</b> | All columns after SAff are hidden.                                                |
| ST                             | <b>arr .end last</b>   | All columns will be visible.                                                      |
| ST                             | <b>arr default</b>     | Resets the columns to the default arrangement.                                    |
| ST                             | <b>arr ?</b>           | Displays the arrange pop-up. The description for .END is <b>**End of List**</b> . |

The Show Columns pop-up displays all column values, even if the column is hidden. Separate arrange criteria is maintained for the primary and alternate field list. Arranging hidden columns applies to the field list currently being shown, whether it is the primary or alternate field list.

## Additional ARRANGE commands

The **ARRANGE DEFAULT** command resets the column arrangement to the default.

Under ISPF, **ARRANGE ?** displays the pop-up. You may find this to be the most convenient method of arranging and resizing columns.

This pop-up example moves **Real** to be after **StepName**.

```

 Arrange Row 1 to 9 of 55

To move a column, select with / (// for a block), then type A
(after) or B (before). Special function keys:
F5/17=Refresh list F11/23=Clear input F6/18=Default order

 NP width _ Current width: 4

 Column Width Description
 A StepName 8
 - ProcStep 8
 - JobID 8
 - Owner 8
 - C 1
 - Pos 3
 - DP 2
 - PGN 3 Not shown in goal mode
 / Real 4
```

## Viewing the number of columns

The **COLS** command has two purposes. The first is to change the title line message to indicate the number of the top line displayed and the columns displayed on any panel except the Log, Output Data Set, and the Primary Option Menu. The second is to display a scale (or columns) line on the Log and Output Data Set panels. This setting is not saved

**COLS** changes the small message in the upper right hand corner to display the number of columns. (The default is to display the number of lines.) Or, it displays a ruler below the command line when viewing a report. You must enter **COLS** for each panel.

To remove the columns or ruler, enter **RESET**

## Issuing MVS or JES commands

You can issue any MVS and JES command from the SDSF command line. Type a slash (/) followed by the command. For example, the **DISPLAY USER** command /F SDSF,D USER displays the active connected users of the SDSF server. As another example, /D A,L lists all active jobs in the system.

The messages issued in response to the commands are displayed on the information lines of the panel. The complete set of responses is in the user session log (ULOG).

You can set a delay interval, which is the maximum amount of time SDSF will wait for messages, with this command: SET DELAY *seconds*. The default is 1 second. A delay of 0 specifies that messages issued in response to / commands should not be displayed on the message lines.

## Using the System Command Extension pop-up

When using SDSF interactively, you can specify a longer command by typing slash (/) by itself to display the **System Command Extension** pop-up, and then typing the command on the pop-up and pressing Enter to issue it. Do not preface the command with a slash, unless you want the slash to be part of the command text.

```

Edit Options Help

 System Command Extension

====>-----
====>-----
Comment-----
Group----- Show_*----- (F4 for list)
 More: +

=> D M=CPU
=>
=>

F5=FullScr F6=Details F7=Up F8=Down F10=Save F11=Clear F12=Cancel

```

The command can wrap across lines. If you leave blanks at the end of a line and continue on the following line, the blanks are issued as part of the command.

Commands are converted to uppercase by consoles. To preserve the case of command parameters, use the pop-up under ISPF, and enclose the parameters in single quotation marks. Under ISPF, you can also select commands from a list, assign groups, and add comments. For details, refer to the help for the pop-up under ISPF.

## Adding comments and groups

From the **System Command Extension** pop-up you can supply a comment that describes the command, and assign the command to a group. You can assign user-defined groups as a means of organizing commands. After you group a command, you can delete it or added to another group.

Use **Show** to filter the list of commands based on group. For a list of existing groups, press the Prompt key (PF4) with the cursor in the **Group** or **Show** field. Groups and comments are optional.

To rename a group, use **Edit > Rename group**.

```

Rename Slash Command Group

Type the old and new group names.

Old group name
New group name

```

Consider the following usage when renaming a group:

- Each command in the source group is processed in order by the most recently added. Note that commands are considered unique based on group name and command text. Command comments are not used when determining uniqueness.
- If the command does not exist in the target group or the group does not exist, the command will be moved to the new group.
- If the command exists in the new group, the comment from the source command will be appended to the comment of the target command. This appended comment may exceed the maximum length and will be truncated to fit. The source command will be removed from the stack.

## Responses to / commands

If you have access to the ULOG panel and are authorized to an extended console, responses associated with the / command are displayed on the screen if they arrive within the delay interval.

SDSF uses as many lines as needed, up to the current screen depth. SDSF wraps single-line responses if the text is too wide for the screen, and truncates multi-line responses that are too wide. Truncation is indicated by a trailing +. To see all of a response, access the ULOG panel.

When issuing system commands, SDSF uses the extended console if ULOG is active, and console ID of 0 if ULOG is not active. If allowed by installation settings, you can request that SDSF use console ID 0 by

adding the I prefix to the / command. For example, type **i/start database**. When SDSF does not use the extended console, the response is not returned to the terminal.

#### Related reference

[“SET CONSOLE” on page 505](#)

SET CONSOLE sets the name of the extended console to be used by SDSF for the ULOG panel.

[“SET DELAY” on page 508](#)

SET DELAY sets the timeout value for awaiting responses to the / command and the D and L action characters.

[“SET SCREEN” on page 516](#)

SET SCREEN displays a panel for changing the appearance of SDSF panels.

## Setting characters for pattern matching

Sets the characters for pattern matching from any SDSF panel.

**SCHARS** sets characters to represent any string of characters and for any single character in SDSF commands and pop-ups. The values must not be alphabetic, numeric, @, \$, the query character, &, blank, or equal to each other. The values ( ), :, and . cause symbols to work incorrectly.

Format:

```
SET SCHARS generic (placeholder) | ?
```

For example, **SET SCHARS \* %** sets the generic character to \* and the placeholder character to %.

The command **SET SCHARS ?** displays the settings.

```

 Set Search Characters

Type the characters to be
used in pattern matching.

Generic character *
Placeholder character %
```

## Changing the screen appearance

The **SET SCREEN** command changes the appearance of SDSF panels.

The **SET SCREEN** command displays a panel that allows you to set the colors, highlighting, and intensities used on SDSF panels, and control display of the action bar. It is valid only if SDSF was accessed through ISPF. The values are saved across SDSF sessions.

```
SET SCREEN

 Set Screen Characteristics

Select the elements that you want to customize.

1 1. Basic settings and tabular panels
 2. OPERLOG panel

F1=Help F12=Cancel

```

You can use the **SET BCOLOR** command to control whether color or highlighting is used on SDSF browse panels CK, CKH, and ULOG. For more information, see [“SET BCOLOR” on page 501](#).

## Displaying the alternate form of a panel

The **?** command displays the alternate form of a tabular panel.

The **?** command displays the alternate form of a panel that displays data in a tabular format. You may need to scroll right to see the alternate fields. On the Output Data Set panel, **?** displays the attributes of the data set being displayed.

## Displaying the SDSF screen name

The **SET SCRNAME** command can be used to change the panel name shown by ISPF when SWAPBAR is on.

When SWAPBAR is enabled, ISPF displays the screen name for the session based on the SCRNAME that was defined when SDSF was invoked. By default, the screen name is "SDSF".

When SET SCRNAME ON is in effect, SDSF assigns the screen name used by SWAPBAR to "ISF*panel*", where *panel* is the current panel name. For example, when the DA panel is shown, the screen name will be "ISFDA". Note that some SDSF panels, such as output data sets, do not alter the screen name.

## Scaling data

SDSF scales numeric values that are too large for the panel column width.

When displaying numeric values that are too large for the column width, SDSF scales them using these abbreviations:

- T (thousands)
- M (millions)
- B (billions)
- KB (kilobytes)
- MB (megabytes)
- GB (gigabytes)
- TB (terabytes)
- PB (petabytes)

## Using SET CONMOD and SET CONSOLE

The **SET CONMOD** command determines whether a new extended console name is used if the default extended console name is in use. New extended console names allow for a unique ULOG for each session for split screen or multiple logons. You can change the extended console name with the **SET CONSOLE** command.

The ULOG display allocates an extended console for ULOG based on either the user ID or the value of the **SET CONSOLE** command. Prior to the implementation of **SET CONMOD**, if you had multiple instances of SDSF such as split screen or multiple logons, you would have had to explicitly set the console name for each instance or they would all send messages to the initial session's ULOG.

### SET CONMOD

The console name used by SDSF defaults to the user ID. The **SET CONMOD** command controls whether SDSF uses a modified name if the extended console cannot be activated because the default name is already in use:

- If console name modification is on and the default console name is already in use, SDSF attempts to use a different extended console name for each session.

The modified name consists of the default name plus a single-character suffix. SDSF can try up to 32 different characters until a unique console name is obtained. The original console name must be fewer than 8 characters.



- If console name modification is off and the default extended console name is in use, SDSF attempts to share the console.

For example, if you use ISPF split screen and access SDSF in multiple logical screens, SDSF shares the console activated in the first logical screen with subsequent logical screens. As a result, ULOG in the first logical screen contains system messages for all of the logical screens. SDSF shares the console only when the console is activated in the same address space. If the console cannot be shared, activation of the console fails.

Under ISPF, the value of **SET CONMOD** is saved across SDSF sessions.

The SET CONMOD parameters are shown in [Table 25 on page 31](#).

The parameter usage is as follows:

```
SET CONMOD (ON|OFF|?)
```

**SET CONMOD** with no parameters is the same as **SET CONMOD ON**.

Consider the following example:

- **SET CONMOD OFF** - Disables console name modification.

| Table 25. SET CONMOD Parameters |                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Parameter                       | Description                                                                                                        |
| ON                              | SDSF uses a modified name if the extended console cannot be activated because the name is already in use.          |
| OFF                             | Disables console name modification. SDSF attempts to share the console.                                            |
| ?                               | Under ISPF, displays the current setting in a pop-up. Under TSO, displays the current setting on the command line. |

## SET CONSOLE

You can change the extended console name with the **SET CONSOLE** command. **SET CONSOLE** sets the name of the extended console to be used by SDSF.

The SET CONSOLE parameters are shown in [Table 26 on page 31](#).

The parameter usage is as follows:

```
SET CONSOLE console-name
?
```

**SET CONSOLE** with no parameters resets the console name to your user ID.

Consider the following example:

- **SET CONSOLE TAPE** - Specifies that an extended console name of TAPE will be used.

| Table 26. SET CONSOLE Parameters |                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                        | Description                                                                                                                                                                                                                |
| console-name                     | Specifies the console name (2-8 characters) to be used when an extended console is activated for the ULOG panel. The console must have been activated by SDSF, and it cannot have been activated in another address space. |

| Table 26. SET CONSOLE Parameters (continued) |                                                                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Parameter                                    | Description                                                                                                        |
| ?                                            | Under ISPF, displays the current setting in a pop-up. Under TSO, displays the current setting on the command line. |

## Searching a data set list

The SRCH command searches for matching members in a data set list. The resulting table shows all data sets containing the member pattern.

**Note:** SRCH provides a different capability from the SEARCH command. SRCH implements a member search using a data set list, whereas SEARCH searches the SDSF help.

Access the SRCH panel with the **SRCH** command from the APF, JDDN, LNK, LPA, PARM, or PROC panels.

The parameter usage is as follows:

```
SRCH member-pattern [F | NF | ALL]
```

where:

- *member-pattern* is the string for which to search for matching members in the data set list. *member-pattern* can include \* (any string of characters) or % (any single character).
- **F** lists only those data sets where the member pattern was found.
- **NF** lists only those data sets where the member pattern was not found.
- **ALL** lists all data sets searched. This is the default. You can change the default with the **SET SRCH** command.

Consider the following use:

- **SRCH IEA\*** - Displays the SRCH results for member pattern IEA\*.

For example, assume that the PARM panel displays the following data sets:

| Display | Filter                  | View    | Print | Options    | Search  | Help   |
|---------|-------------------------|---------|-------|------------|---------|--------|
| SDSF    | PARMLIB                 | DISPLAY | RS86  | RS86       | EXT     | 29     |
| NP      | DSNAME                  |         |       | Seq VolSer | BlkSize | Extent |
|         | RSPLEX0G.PARMLIB.ZOS202 |         | 1     | MCPG00     | 27920   | 1 NO   |
|         | RSPLEX0G.PARMLIB        |         | 2     | MCPG00     | 27920   | 10 NO  |
|         | RSRTE.PARMLIB           |         | 3     | R3P104     | 27920   | 1 YES  |
|         | ROCKET.USER.PARMLIB     |         | 4     | S1PG00     | 27920   | 16 YES |
|         | SYS1.PARMLIB            |         | 5     | RZ203A     | 27920   | 1 NO   |

Of these data sets, you want to know which have members that match the *member-pattern* IEA\*. From the PARM panel, enter SRCH IEA\*. The resulting SRCH panel indicates which data sets have members that match the pattern. The **STATUS** column displays FOUND or NOT FOUND.

| Display | Filter                  | View    | Print | Options    | Search    | Help |
|---------|-------------------------|---------|-------|------------|-----------|------|
| SDSF    | SRCH                    | DISPLAY | IEA*  | ALL        |           |      |
| NP      | DSNAME                  |         |       | Seq VolSer | Status    |      |
|         | RSPLEX0G.PARMLIB.ZOS202 |         | 1     | MCPG00     | NOT FOUND |      |
|         | RSPLEX0G.PARMLIB        |         | 2     | MCPG00     | FOUND     |      |
|         | RSRTE.PARMLIB           |         | 3     | R3P104     | FOUND     |      |
|         | ROCKET.USER.PARMLIB     |         | 4     | S1PG00     | FOUND     |      |
|         | SYS1.PARMLIB            |         | 5     | RZ203A     | FOUND     |      |

If you were to limit *member-pattern* to IEASYMSG, the resulting SRCH panel indicates which data sets have members that match IEASYMSG.

|      | Display                 | Filter  | View     | Print | Options | Search    | Help |                        |
|------|-------------------------|---------|----------|-------|---------|-----------|------|------------------------|
| SDSF | SRCH                    | DISPLAY | IEASYMSG | ALL   |         |           |      | LINE 1-5 (5)           |
| NP   | DSNAME                  |         |          | Seq   | VolSer  | Status    |      | DSOrg BlkSize Extent S |
|      | RSPLEX0G.PARMLIB.ZOS202 |         |          | 1     | MCPG00  | NOT FOUND |      | P0 27920 1 N           |
|      | RSPLEX0G.PARMLIB        |         |          | 2     | MCPG00  | NOT FOUND |      | P0 27920 10 N          |
|      | RSRTE.PARMLIB           |         |          | 3     | R3P104  | NOT FOUND |      | P0 27920 1 Y           |
|      | ROCKET.USER.PARMLIB     |         |          | 4     | S1PG00  | FOUND     |      | P0 27920 16 Y          |
|      | SYS1.PARMLIB            |         |          | 5     | RZ203A  | NOT FOUND |      | P0 27920 1 N           |

See [“Search panel \(SRCH\)”](#) on page 272 for a description of **SRCH**.

## SET SRCH Command

You use the **SET SRCH** command to set the default action for the **SRCH** command. For example, **SET SRCH F** sets the default action to show only data sets where the member pattern was found. Then, entering **SRCH member-name** is equivalent to **SRCH member-name F**.

The parameter usage is as follows:

```
SET SRCH [F | NF | ALL | ?]
```

where:

- **F** sets the default to list only those data sets where *member pattern* was found.
- **NF** sets the default to list only those data sets where *member pattern* was not found.
- **ALL** sets the default to list all data sets that are searched.
- **?** When running under ISPF, **SET SRCH ?** displays the **SET SRCH** pop-up. When running under TSO, the command line is primed with the current value.

The value of **SET SRCH** is saved across SDSF sessions when running under ISPF.

You can also access **SET SRCH** from the panel pull-down **Options > Browse and Print > Set default SRCH option**.

## Searching the Log, ULOG, and Output Data Set panels

The **FIND** command finds and scrolls to specified characters on the Log, ULOG, and Output Data Set panels, and the fixed (first column) field on tabular panels.

The fixed field varies from panel to panel. For example, the following fixed fields are searched with the **FIND** command:

- The job name on the DA, I, ST, O, and H panels
- The printer name on the Printer Display panel
- The device name on the Lines and Spool Offload panels

The command and parameter usage is as follows:

```
FIND (string) (parameters)
```

where:

- *string* is the string of characters to be searched for.
  - **\*** uses the string entered with the previous **FIND** command.
  - **X'string'** specifies a string of hexadecimal characters.
- *parameters* are as follows:
  - **start-col** starts the search in the specified column. If used without **end-col**, the string must begin there.
  - **end-col** ends the search in the specified column.
  - **PREV** searches backward.

- **NEXT** searches forward.
- **PREFIX** (or **PRE**) indicates the string is preceded by a non-alphanumeric character and followed by an alphanumeric character.
- **SUFFIX** (or **SUF**) indicates the string is preceded by an alphanumeric character and followed by a non-alphanumeric character.
- **FIRST** starts at the beginning of the data.
- **LAST** starts at the end of the data.
- **ALL** starts at the beginning, scrolls to the first occurrence, and indicates the number of occurrences.
- **CHARS** (or **CHAR**) indicates a character string. It is the default.
- **WORD** indicates the string is preceded and followed by a non-alphanumeric character.

**Note:** X'*string*', WORD, PREFIX, and SUFFIX are valid only on the Log and Output Data Set panels.

**Note:** FIRST, LAST, and ALL are not limited by FINDLIM.

**FIND** with no parameters repeats the previous **FIND** command. When you repeat a previous **FIND** command, the ALL parameter is not remembered, and the start-col and end-col parameters are remembered only between the Log and Output Data Set panels.

SDSF also provides a repeat-find PF key, PF5, which is defined as IFIND.

Consider the following examples:

- **FIND abc** - Searches for a character string abc.
- **FIND 'COND' 15 50 WORD** - Searches for the next occurrence of COND in columns 15 to 50 surrounded by blanks

## Managing jobs

---

You can use several panels to manage jobs. This section describes using the DA and ST panels.

### DA panel

Display Active Users (DA) shows only active jobs (address spaces). This command describes the performance of the system while it processes the job. It includes MVS and performance info such as CPU use and address spaces not running under JES. The CPU use for each address space is useful for sorting purposes.

Assume that you want to examine TSO job TS5536 from the DA panel.

1. You can either scroll to find the job, or you can enter "FIND TS5536" to go directly to that job.
2. Decide what action you want to perform. If you are unsure of the available actions for this panel, enter **SET ACTION** (or the **SET ACTION SHORT** and **SET ACTION LONG** variants) to display the possible actions.
3. Assume that you want to see the data sets for this job. Place the cursor in the NP column for the TS5536 job, enter **S** and press Enter.  
  
Or, to display a list of data sets for a job (access the Job Data Set panel), place the cursor in the NP column for the TS5536 job, enter **?** and press Enter.
4. Other common actions you can perform include:
  - **/** - Show the column values for row (ISPF only).
  - **A** - Release a held job.
  - **D** - Display job information in the log.

### ST panel

ST is the basic panel for managing jobs and output. It shows jobs on any queue, including started tasks that are executing, as well as held and non-held output.

**Note:** The I panel shows jobs on the input queue or that are executing. The columns and actions are similar to that of the ST panel.

Assume that you want to examine TSO job TS5536 from the ST panel.

1. Optionally, enter **OWNER TS5536** to limit the display to jobs with the owner TS5536.
2. Decide what action you want to perform. If you are unsure of the available actions for this panel, enter **SET ACTION** (or the **SET ACTION SHORT** and **SET ACTION LONG** variants) to display the possible actions.
3. Assume that you want to display a list of data sets for a job (access the Job Data Set panel). Place the cursor in the NP column for the TS5536 job, enter ? and press Enter.
4. Other common actions you can perform include:
  - / - Show the column values for row (ISPF only).
  - C - Cancel a job. For JES3, also process output data sets. Note that there are 5 ways to cancel a job:
    - C - Cancel a job.
    - K - Cancel an address space using the MVS CANCEL command.
    - P - Cancel a job and purge its output.
    - Y - Stop a started task (system stop).
    - Z - Cancel an address space using the MVS FORCE command.
  - D - Display job information in the log.
  - H - Hold a job.
5. Enter **OWNER \*** to once again see all jobs from all owners.

## Monitoring jobs

---

SDSF lets you monitor a job as it passes from the JES input queue to the processor and generates data sets for the output queue.

You monitor a job using these panels:

- Input Queue (I). Describes the submission of the job and, if the job is being processed, some aspects of the processing.
- Status (ST). Identifies the queue containing the job and describes aspects of its submission, processing, and output.
- Output Queue (O). Describes the output generated by the job, as well as aspects of its submission and processing. (JES2 only)
- Held Output Queue (H). Describes the output, submission, and processing of a job on any held output queue. (JES2 only)
- Display Active Users (DA). Describes the performance of the system while it processes the job.

The ST panel is the basic panel for managing jobs and output. It provides:

- Jobs on any queue
- Started tasks that are executing
- Held and non-held output
- Overtypes for job columns such as service class and priority

The I panel shows jobs on the input queue or that are executing. The columns and actions are similar to that of the ST panel.

## Displaying output

You can browse the output for a job.

You can see the JES output data sets from the following panels:

- I - Input Queue
- DA - Display Active Users
- O - Output queue
- H - Held output queue
- ST - Status panel
- JG - Job groups panel
- JS - Job step panel

The O and H panels are described in this section.

### Output Queue

The Output Queue (O) panel displays information about output that is ready to be printed. It displays information about output for jobs, started tasks, and TSO users on any non-held queue.

You can filter output by output class by issuing Ox to see output class x. For example, **OABC** displays output for classes A, B, and C. You can list up to 7 output classes.

For example, assume that you enter the **?** action character in the NP column for a job named *IOS050*.

| Display | Filter  | View        | Print     | Options       | Search           | Help    |
|---------|---------|-------------|-----------|---------------|------------------|---------|
| SDSF    | OUTPUT  | ALL CLASSES | ALL FORMS | LINES 165,536 | LINE 54-71 (102) |         |
| NP      | JOBNAME | JobID       | Owner     | PrtY C Forms  | Dest             | Rec-Cnt |
|         | TS5485  | TSU05289    | TS5485    | 144 F STD     | LOCAL            | 8       |
|         | TS5536  | TSU05245    | TS5536    | 144 F STD     | LOCAL            | 3       |
|         | TS5536  | TSU05294    | TS5536    | 144 F STD     | LOCAL            | 3       |
| ?       | IOS050  | JOB05127    | SUBJCL    | 144 X STD     | LOCAL            | 166     |

| Display | Filter    | View        | Print    | Options           | Search       | Help         |
|---------|-----------|-------------|----------|-------------------|--------------|--------------|
| SDSF    | JOB DATA  | SET DISPLAY | - JOB    | IOS050 (JOB05127) | LINE 1-3 (3) |              |
| NP      | DDNAME    | StepName    | ProcStep | DsID Owner        | C Dest       | Rec-Cnt Page |
|         | JESMSG LG | JES2        |          | 2 SUBJCL          | X LOCAL      | 19           |
|         | JESJCL    | JES2        |          | 3 SUBJCL          | X LOCAL      | 26           |
|         | JESYSMSG  | JES2        |          | 4 SUBJCL          | X LOCAL      | 121          |

Three DDNAME names are displayed:

- The JES2 messages log file.
- The JES2 JCL file.
- The JES2 system messages file.

Enter the **?** action character in the NP column to select the DDNAME name you want. This option is useful when there are jobs with many files directed to SYSOUT and you want to display one associated with a specific step.

**Tip:** To see all files concatenated together, instead of a **?**, enter **S** in the NP column. The JES2 job log is displayed.

### Held Output Queue

The H panel shows held output. O and H have nearly identical columns and actions. However, H has a built-in filter that limits it to your own jobs. To display output for all jobs on the H panel, use **PREFIX \*\*** or **H ALL**.

**Tip:** The O and H panels have a CRDate column, which by default shows only a date. Use the ARRANGE command (ARR CRDATE 20) to expand the column to see the time.

When filtering on any date/time field, use < or >, and not =. This avoids the issue of time never matching precisely.

## Using the user log

The User Session Log (ULOG) panel allows users to display the MVS and JES commands and responses issued during the user's session, including commands generated by SDSF and SAF. The ULOG also contains messages issued by SDSF, such as security trace and special DDs that were processed.

SDSF deletes the user session log when an SDSF session is ended or when the ULOG **CLOSE** command is issued.

SDSF uses MVS console services to acquire an extended console that is used to issue commands and receive responses.

The ISPF setting **Command line at bottom** is ignored on this panel.

### Panel title information

The ULOG title line contains the following information:

|      |      |                       |         |                             |       |                         |     |     |
|------|------|-----------------------|---------|-----------------------------|-------|-------------------------|-----|-----|
| SDSF | ULOG | CONSOLE               | JSMITHE | LINE                        | 7,959 | COLUMNS                 | 001 | 080 |
|      |      | Extended console name |         | Line number being displayed |       |                         |     |     |
|      |      |                       |         |                             |       | Columns being displayed |     |     |

### ULOG command and parameters

**ULOG** or **U** with no parameters displays the ULOG panel. An extended console is activated if one is not already active.

**ULOG CLOSE** or **U CLOSE** deletes all entries in the user session log and deactivates the extended console.

### Finding a character string

You can find a character string in the user log by entering the FIND command and a string. For example:

```
FIND 11:15:52
```

### Setting the console name

You can set the name of the extended console to be used by SDSF for the ULOG panel by entering the **SET CONSOLE console-name** command. **console-name** specifies the console name (two to eight characters) to be used when an extended console is activated for the ULOG panel. The console must have been activated by SDSF, and it cannot have been activated in another address space.

Enter **SET CONSOLE ?** to display the current setting on the command line or pop-up.

**SET CONSOLE** with no parameters resets the console name to your user ID.

### Printing ULOG

You can use the mechanisms described in [“Printing from SDSF panels” on page 42](#) to print data from ULOG.

As an example, the following **PRINT** command prints messages from 01:00:00 to 02:00:00 to SYSOUT:

```
PT S; PT 01:00:00 02:00:00; PT CLOSE
```

## Responses returned to ULOG

Responses can be returned to ULOG only if:

- The command processor issues the message using the console ID of the extended console.
- The command processor supports use of the CART (command and response token). To get a command response on the same panel as the / command was entered, the command processor must specify both console ID and CART. To get the response in the ULOG, only the console ID is needed.
- The message response is not being suppressed through MPF (the message processing facility).
- The D R,L command filters the response based on the issuing console ID. To see all outstanding replies, issue D R,L,CN=(ALL).

## Using the system log

The LOG command provides access to both the OPERLOG and the SYSLOG. The OPERLOG panel is very similar to the SYSLOG panel, the chief difference being that the OPERLOG panel can show data for all systems in a sysplex, while the SYSLOG panel shows data for only one system.

The OPERLOG panel allows authorized users to display a merged, sysplex-wide system message log, which contains console messages, operator commands, and operator responses for the MVS systems. Access it with the **LOG O** command.

The SYSLOG panel allows authorized users to display the system log, which is a collection of JES data sets that contain console messages, operator commands, and operator responses for a z/OS system. Access it with the **LOG S** command.

The OPERLOG panel offers the function of the SYSLOG panel (FIND, PRINT, and so on) plus some enhancements, including filtering and scrolling by day, hour, minute, and second. One other difference between the function for OPERLOG and SYSLOG is that the OPERLOG panel does not use absolute line numbers. A line number is not displayed on the title line, and line numbers are not used in functions such as LOCATE and PRINT.

### Panel title information

The OPERLOG title line contains the following information:

|             |                                   |             |                                                       |                                   |                                   |                            |
|-------------|-----------------------------------|-------------|-------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| <b>SDSF</b> | <b>OPERLOG</b>                    | <b>SYS1</b> | <b>03/15/2023</b>                                     | <b>20 W</b>                       | <b>3 FILTERS</b>                  | <b>COLUMNS 1 80</b>        |
|             | System you<br>are logged<br>on to |             | Date of the<br>top line of<br>data being<br>displayed | Number of<br>outstanding<br>WTORs | Number of<br>filters<br>in effect | Columns being<br>displayed |

The SYSLOG title line contains the following information:





Table 28. Request Type Codes (continued)

| Request type | Description                     |
|--------------|---------------------------------|
| R            | Command response                |
| I            | Internally issued command       |
| U            | Command from unknown console ID |

## Displaying the SYSLOG for a particular system

From the SYSLOG panel, you can display the SYSLOG for another LPAR in the sysplex with the SYSID parameter:

```
SYSID lpar
```

## Expanding the number of lines searched

You can use the FINDLIM command to expand the maximum number of lines searched by the FIND command for OPERLOG and SYSLOG so that you do not have to search multiple times. For example:

```
FINDLIM 999999
```

## Locating a log entry based on a timestamp

You can locate an entry in the OPERLOG or SYSLOG by entering LOCATE hh:mm:ss or LOCATE hh.mm.ss. For example:

```
LOCATE 13:08:43
```

**Note:** For the OPERLOG, you may find it more convenient to instead filter based on date or time using less than (<) or greater than (>), and not equal to (=), if you do not know the exact time of the log entry.

## Filtering the OPERLOG

You can use the FILTER command described in [“Setting complex filters” on page 22](#) to filter the OPERLOG. You might want to filter on the following fields:

- SYSNAME
- DATE
- TIME
- DATETIME
- JOBNAME
- JOBID
- CONSOLE
- MSGID
- MSGTEXT

For example, the following example filters messages for the string "DEVICE".

```
FILTER MSGTEXT EQ *DEVICE*
```

## Using SET SCREEN to define highlighting in OPERLOG

The Set Screen Characteristics pop-up for OPERLOG lets you set values for message color and highlighting on the OPERLOG panel, based on descriptor code. The values you specify override the color

and highlighting that were used when the message was originally issued. Leaving a field blank means that the message will appear on the OPERLOG panel using the original color and highlighting.

To make informational (descriptor 12) messages more visible, SDSF provides a default value of Yellow for the color. The Use color and highlighting field lets you disable or enable the use of color for messages on the OPERLOG panel. The values you set are saved across ISPF SDSF sessions. The results depend on your terminal type.

1. Enter SET SCREEN without any parameters.
2. On the Set Screen Characteristics pop-up, select the OPERLOG.
3. The Set Screen Characteristics: OPERLOG Panel pop-up is displayed:

```
Set Screen Characteristics: OPERLOG Panel

Use color and highlighting 1 1. Yes 2. No More: +

Type values to override the original color and highlighting.
Press F5/17 to see changes.

Descriptor code Color Highlight Intensity
1 - System failure
2 - Immediate action required
3 - Eventual action required
4 - System status
5 - Immediate command response
6 - Job status
7 - Task-related
8 - Out of line
9 - Operator's request
10 - Not defined
11 - Critical eventual action
12 - Important information
```

4. Enter values to override the defaults. The valid values are as follows:

- Colors: Blue, Green, Pink, Red, Turq, White, Yellow
- Highlighting: Blink, Normal, Reverse, Uscore
- Intensity: High, Low

To see your changes reflected on the pop-up, press F5.

## Printing OPERLOG and SYSLOG

You can use the mechanisms described in [“Printing from SDSF panels” on page 42](#) to print data from OPERLOG and SYSLOG.

As an example, the following series of **PRINT** commands prints messages from 01:00:00 to 02:00:00 to SYSOUT.

```
PRINT S
```

Opens a panel where you can specify SYSOUT attributes and open the SYSOUT file for printing.

```
PRINT 01:00:00 02:00:00
```

Prints records from 1:00 AM to 2:00 AM for the current day to SYSOUT.

```
PRINT CLOSE
```

Closes the SYSOUT file.

## Purging output

You can purge output before it is printed.

After browsing your output, you may decide the output is not what you wanted and prefer to purge it before it is printed. You can use the purge (P) action character to purge output data sets. Additional panel-specific purge action characters are also available. See the online help for more information.

You may want to require confirmation (SET CONFIRM ON) of destructive actions such as purge. SET CONFIRM ON displays a confirmation pop-up when a destructive action character is entered.

```
Confirm Action
1. Process action character
2. Discard action character
3. Process action character and
 set confirmation off

Retain last selection

Line number : 67 TWUSRA
Description : Purge
System . . : SS01

Local system: SS01

F1=Help F12=Cancel
```

The **Retain last selection** option can be used to default the action character confirmation with the last used value for the duration that the panel is displayed. Use the / character to enable this option. Once enabled, you are prompted to specify a confirmation choice each time the pop-up is shown.

## Printing from SDSF panels

You can print output data, data from the Log or ULOG, or screen images. The print output can go to SYSOUT, a data set, or a print file (specified with a DDNAME).

After you submit a job, you can use SDSF to review the output and correct JCL errors. SDSF allows you to display printed output held in the JES spool area. You may find that you do not need to print much of the output sent to JES by batch jobs (and other jobs). Instead, you can inspect it using SDSF and delete or use it as needed.

### Using the PRINT command

Using the PRINT command consists of three steps:

1. Open a print data set. You open the print data set to specify the target of the output, either SYSOUT, a DASD data set, or a previously allocated ddname. This step is optional except when printing the screen. The default target is SYSOUT.
2. Print the data. You can print output data, log data and screens to the print data set.
3. Close the print data set. This step frees the SYSOUT data set and makes it available for printing (if printing to SYSOUT) or closes the data set or print file.

Under ISPF, the PRINT command is also available from the Print action bar pull-down.

### Examples

Consider the following examples of the **PRINT** command:

- Example #1: Print an entire output data set to SYSOUT with default attributes (issued from the Output Data Set panel).

PRINT without any parameters opens a default SYSOUT data set if the print data set is not already open. On the Output Data Set panel, it also prints the entire data set.

```
PRINT
```

The number of lines printed is displayed at the top right of the panel. This means the listing has now been placed in the data set that you created.

```
PRINT CLOSE
```

At the top right of the panel, you should now see PRINT CLOSED.

- Example #2: Save an output listing to a data set.

At the command input line, enter PRINT D to open a print data set panel and specify a data set name in which to save it.

```
PRINT D
```

- Example #3: Open a new print data set with the default attributes.

**ODSN** specifies that a DASD data set will receive the output.

```
PRINT ODSN 'RPT2.PRINT' * NEW
```

Verify the data set you created. You can now return to SDSF and purge your listing because you now have a permanent copy.

- Example #4: Print part of the SYSLOG to a previously allocated data set.

**MOD** specifies that you want to append the data to a sequential data set. If the data set does not already exist, one is created.

You can specify a time and date range to print only the part of the SYSLOG within that time frame. The time can be specified in the form *hh:mm:ss* or *hh.mm.ss*.

```
PT ODSN SDSF.PRINT * MOD
PT 06.00.00 04/15/2017 10.00.00 04/15/2017
PT CLOSE
```

## Using the X action character

You can print the output of jobs, and checks for IBM Health Checker for z/OS, with the X action character.

As with the **PRINT** command, printing with the **X** action character involves three steps: opening a print data set, printing the data, and closing the print data set. You will probably find that the **PRINT** command and pop-ups provide more control.

You can print to SYSOUT, a data set, or a print file (specified with a *ddname*), with different forms of the X action character.

Consider the following forms:

- X - Print the file.
- XC - Print and close the file.
- XD - Display the data set panel and print the file.
- XDC - Display the data set panel, print and close the file.
- XF - Display the ddname panel and print the file.
- XFC - Display the ddname panel, print and close the file.
- XS - Display the SYSOUT panel and print the file.
- XSC - Display the SYSOUT panel, print and close the file.

Under ISPF, use the commands or action characters shown in the following table:

| Table 29. Using Print Panels |         |                  |
|------------------------------|---------|------------------|
| To Open...                   | Command | Action Character |
| SYSOUT                       | PRINT S | XS or XSC        |
| Data set                     | PRINT D | XD or XDC        |
| DDNAME                       | PRINT F | XF or XFC        |

## ANSI carriage control

The SDSF print function inserts ANSI carriage control, or converts machine carriage control if present to ANSI, unless:

- You use the PRINT FILE command or the XF or XFC action character.
- The data is page-mode. SYSOUT files containing both page-mode data and machine character data are not defined as page-mode in JES2.

### Related concepts

[“Using the panels to open a print data set” on page 44](#)

SDSF provides panels to open a print data set. For SYSOUT, the panel lets you specify class, copies, form, and destination. For a data set, the panel lets you allocate a new data set in addition to opening it.

[“Using the panel to open a SYSOUT data set” on page 44](#)

When printing to SYSOUT, the panel lets you specify class, copies, form, and destination.

[“Using the panel to open or allocate and open a data set” on page 45](#)

SDSF provides panels to open a print data set. For a data set, the panel lets you allocate a new data set in addition to opening it.

[“Using the panel to open a DDNAME” on page 46](#)

SDSF provides a panel to print a pre-allocated ddname.

### Related reference

[“Overview of the PRINT command” on page 536](#)

The PRINT command prints output data or the screen image. It can be issued from the SDSF panel, but prints data only on the Log, ULOG, and Output Data Set panels. To print tabular panels, use the SNAP command.

[“PRINT: Printing the data” on page 538](#)

The PRINT command prints output data or the screen image.

[“SNAPSHOT” on page 533](#)

The SNAPSHOT command displays tabular data using browse or edit and can be printed.

## Using the panels to open a print data set

SDSF provides panels to open a print data set. For SYSOUT, the panel lets you specify class, copies, form, and destination. For a data set, the panel lets you allocate a new data set in addition to opening it.

## Using the panel to open a SYSOUT data set

When printing to SYSOUT, the panel lets you specify class, copies, form, and destination.

If you used the X action character, the title line on the **SDSF Open Print** panel shows the job name, job ID, and DSID for the selected job.

### Class

The SYSOUT class to be used.

### Copies

The number of copies you want to print.

**Forms**

The forms identifier for the printed output.

**Destination**

The routing for the file. Follow the JES rules for destination names. The basic format is node.remote, where node can be omitted if it is local. In most cases, a user ID may be used instead of remote.

**FCB**

The forms control buffer ID.

**UCS**

The universal character set name.

**Process mode**

The printer process mode.

**Pagedef**

The page definition of the page-mode data set.

**Formdef**

The form definition of the page-mode data set.

**Output Descriptor Name**

The name of an output descriptor that has already been created, possibly with the OUTDES command. It is mutually exclusive with the Forms, Process mode, Pagedef, and Formdef fields on the panel.

**Writer name**

The writer name.

**Record format**

The record format.

**Record length**

The record length.

**Use source attributes**

Indicates whether the SYSOUT should be created using attributes of the source. The values are retrieved and then displayed in the appropriate fields on the pop-up. If there are multiple source data sets, the longest record length is used, and no value is supplied for record format.

## Using the panel to open or allocate and open a data set

SDSF provides panels to open a print data set. For a data set, the panel lets you allocate a new data set in addition to opening it.

If you used the X action character, the title line on the **SDSF Open Print Data Set** panel shows the job name and job ID for the selected job.

**Data set name**

Use standard TSO format. Enclose it in quotation marks if it should not be prefixed with your user ID. Specify a member of a PDS either following the data set name, in parentheses, or after Member to use.

**SMS values (management class, storage class, data class)**

Leave blank for defaults.

**Data set attributes (space units and so on)**

Rules are the same as on ISPF's panel for allocating a data set. They are always required, though, with the exception of volume serial, they are used only when allocating a new data set. Volume serial is also used to locate existing data sets.

**Record format**

Any valid combination of the following:

- F - Fixed length records
- V - Variable length records
- U - Undefined format records
- B - Blocked records

- A - ASA printer control characters
- M - Machine code printer control characters
- S - Standard (for F) or spanned (for V) (sequential data set only)
- T - Track-overflow feature

#### **Data set name type**

The type of data set. Possible values are:

- LIBRARY or LIB - Allocates a partitioned data set extended (PDSE)
- PDS - Allocates a partitioned data set
- LARGE - Allocates a large format data set
- EXTREQ - Indicates an extended sequential data set is required
- EXTPREF - Indicates an extended sequential data set is preferred
- BASIC - Indicates that neither an extended nor a large format data set is to be allocated
- blank - Allocates a partitioned or sequential data set based on the data set characteristics that are provided

#### **Extended attributes**

Possible values are:

- NO - Data set cannot have extended attributes or reside in EAS. This is the default for non-VSAM data sets.
- OPT - Data set can have extended attributes and reside in EAS. This is the default for VSAM data sets.
- blank - Use default based on data type.

## **Using the panel to open a DDNAME**

SDSF provides a panel to print a pre-allocated ddname.

If you used the X action character, the title line on the **SDSF Open Print File** panel shows the job name and job ID for the selected job.

Type the DDNAME. The DDNAME must already be allocated. The data printed to this DDNAME will be printed as is; SDSF does not insert ANSI control characters. If the data already contains control characters, they will be copied to the print file.

## **Printing a tabular panel**

Use the SNAP and PRINT commands to print the contents of a tabular panel.

To print a panel, follow these steps:

1. Access the panel to be printed.
2. Issue the SNAP command to format all rows and columns of the table.
3. Issue the PRINT command to print the table to SYSOUT, a data set, or a file.

You can also save the contents of a table using ISPF. Enter the SNAP SE command to format the table into an ISPF edit session. Once the data is formatted, you can copy and paste the rows into a data set.

## **Browsing jobs, output, and checks**

You can use the **S** (SDSF browse) action character to browse. However, you may find the ISPF Edit and Browse mechanisms to be more convenient.

You can use the **S** (SDSF browse) action character to browse the following:

- Output as it is being created, consisting of data written to SPOOL and in-memory buffers (most recent data) if running on the local system or you have sysplex support.



- Input data sets for jobs being processed or waiting to be processed.
- Checks for IBM Health Checker for z/OS.

For example, assume that you want to browse the output for a job on the ST panel. Enter the **S** action character in the NP column to select the job you want.

**Tip:** When browsing jobs and output, instead of **S**, enter **?** in the NP column. This option is useful when there are jobs with many files directed to SYSOUT and you want to display one associated with a specific step.

| Display | Filter  | View     | Print  | Options | Search    | Help |     |      |      |           |
|---------|---------|----------|--------|---------|-----------|------|-----|------|------|-----------|
| -----   |         |          |        |         |           |      |     |      |      |           |
| SDSF    | STATUS  | DISPLAY  | ALL    | CLASSES |           |      |     | DATA | SET  | DISPLAYED |
| NP      | JOBNAME | JobID    | Owner  | Prty    | Queue     | C    | Pos | SAff | ASys | Status    |
|         | JOB     | JOB03289 | TS5485 | 9       | EXECUTION | A    |     | RS86 |      | HOLD      |
|         | TS5479  | TSU05884 | TS5479 | 15      | EXECUTION |      |     | RS87 | RS87 |           |
|         | PDSCOT  | TSU05970 | PDSCOT | 15      | EXECUTION |      |     | RS88 | RS88 |           |
| S       | TS5536  | TSU05972 | TS5536 | 15      | EXECUTION |      |     | RS88 | RS88 |           |

The resulting panel is job-dependent, and can include the JES job log, JCL for the job, job-related messages, and so forth. The data sets are concatenated, and you can use NEXT and PREV to move between them.

## ISPF Edit or Browse

Instead of SDSF browse, you can instead use ISPF mechanisms and take advantage of ISPF Edit and Browse commands or macros:

- SB - Use ISPF Browse.
- SE - Use ISPF Edit.
- SV - Use ISPF View. ISPF View is similar to ISPF Edit and does not save any editing changes to the data set being viewed.
- SJ - Use ISPF Edit to edit the JCL. You can make changes and resubmit the JCL.
- Sn - Start browsing with data set *n* (a number).

To commit edit changes, use PF3 or save. To exit the data set without saving your changes, enter cancel on the edit command line.

## Setting default browse action

The **SET BROWSE** command controls the default browse action character that is issued when you place the cursor in the NP column and press Enter. Under ISPF, the value is saved across sessions.

**Note:** When SDSF is not running under ISPF, SDSF converts an SB, SV, or SE action character to S. You can issue the **SET BROWSE** command from any SDSF panel, but it affects only job and output panels and the CK panel.

If you set a default browse action character, you may want to check the setting for **SET CURSOR** and set it to OFF.

The SET BROWSE parameters are shown in [Table 30 on page 47](#).

The parameter usage is as follows:

```
SET BROWSE (S|SB|SE|NONE|?)
```

| Table 30. SET BROWSE Parameters |                                   |
|---------------------------------|-----------------------------------|
| Parameter                       | Description                       |
| S                               | SDSF browse. This is the default. |
| SB                              | ISPF browse.                      |

| Table 30. SET BROWSE Parameters (continued) |                                                             |
|---------------------------------------------|-------------------------------------------------------------|
| Parameter                                   | Description                                                 |
| SE                                          | ISPF edit.                                                  |
| NONE                                        | Specifies that no action character is issued by default.    |
| ?                                           | Displays the current setting on the command line or pop-up. |

## Using the SNAPSHOT command

You can use the **SNAPSHOT** command to display tabular data using browse, edit, or view. The format is as follows:

```
SNAPSHOT|SNAP (S|SB|SE|SV)
```

The **SNAPSHOT** command parameters are shown in [Table 31 on page 48](#).

| Table 31. SNAP Parameters |                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                                      |
| S                         | SDSF browse. This is the default. From here you might use the PRINT command.                                     |
| SB                        | ISPF Browse.                                                                                                     |
| SE                        | ISPF Edit. From here, you might use the CREATE command to copy the data to a data set.                           |
| SV                        | ISPF View. ISPF View is similar to ISPF Edit and does not save any editing changes to the data set being viewed. |

You can change the default for the **SNAPSHOT** command with the **SET SNAP** command or from the **Options** pull-down menu.

```
SET SNAP (S|SB|SE|SV|?)
```

The SET SNAP command parameters are shown in [Table 32 on page 48](#).

| Table 32. SET SNAP Parameters |                                                          |
|-------------------------------|----------------------------------------------------------|
| Parameter                     | Description                                              |
| S                             | SDSF browse. This is the default.                        |
| SB                            | ISPF browse.                                             |
| SE                            | ISPF edit.                                               |
| SV                            | SPF View                                                 |
| ?                             | Displays a pop-up for selecting a default browse option. |

## Saving session settings

SDSF can save session settings, such as prefix and owner filters, across SDSF sessions by using either ISPF profiles or z/OS UNIX file system profiles.

When using the ISPF profile, saved settings are only available when SDSF is running as an ISPF dialog.

When using the z/OS UNIX file system profile, saved settings are available when SDSF is running as an ISPF dialog or under TSO.

Your system programmer can set the default for the type of profiles to be used. However, you can override the default by using SDSF special ddnames if that option is allowed by your installation. You can display the profile that is in use with the **WHO** command.

The special ddnames used to control profiling are as follows. If specified, they override any value specified in a PROFILE statement in ISFPARMS.

| Table 33. SDSF profile special ddnames |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| DDName                                 | Description                                                       |
| ISFMIGPI                               | Force use of ISPF profile for session settings.                   |
| ISFMIGPF                               | Force use of z/OS UNIX file system profiles for session settings. |

**Note:** If SDSF cannot access or create the file system directory, ISPF profiles will be used regardless of the option that is specified.

## Advantages of z/OS UNIX file system profiles

The ISPF profile is limited in size. Depending on the number of panels with saved criteria, such as arrange, filter, and sort, the size of the profile might be exceeded. File system profiles have no limitations other than requiring enough space to be available in your home directory.

## Profile documents

SDSF saves z/OS UNIX file system profiles as a set of documents. You should not edit SDSF profile documents, as the documents are intended only to be read and updated by SDSF.

In addition, you should not develop applications to read the profile documents, as their format and content might change at any time.

## z/OS UNIX file system profile default path

To use profiles in the z/OS UNIX file system, you must have a RACF OMVS segment and a z/OS UNIX home directory defined.

By default, the path used for the file system profile is:

`homedir/.isf/userid/screenname`

Where:

- *homedir* is your home directory
- *userid* is your user ID
- *screenname* is the ISPF screen name when non-blank and not "SDSF"

You can use the ISPF screen name to create different profile sets based on the command used to invoke SDSF. This is typically done by adding the screen name parameter to SDSF entries that are added to the ISPF command table.

**Note:** Your system programmer might have modified the default path name. A message is written to ULOG with the actual path name used for the session.

## Split screen implications

When ISPF profiles are used, SDSF reads the session settings during initialization and writes them during termination. When a split screen occurs while you are already using SDSF, the settings saved will depend on the last session to terminate.

When z/OS UNIX file system profiles are used, SDSF reads some profile documents during initialization and others on an as-needed basis. However, all documents that were accessed are written at termination. When a split screen occurs while you are using SDSF, the profile will reflect the last session to terminate, but vary based on when the document was read.

## Migrating from ISPF profiles to z/OS UNIX file system profiles

The first time that file system profiles are used, SDSF attempts to migrate your ISPF profile to a z/OS UNIX file system format. This occurs when the file system directory is created.

Once the file system profile is used, the ISPF profile will no longer be updated. As a result, you might want to defer using file system profiles until all of your systems support file system profiles.

You can re-run the migration by removing the file system directory. SDSF will recreate the directory and migrate the ISPF settings again. However, any changes that were made while using the file system profiles will be lost.

## Profile tracing

You can use the **SET PTRACE** command to diagnose problems related to z/OS UNIX file system profiles. For more information, see the topic [“SET PTRACE” on page 514](#).

Profile tracing can also be controlled through the special DD names isfprftr and isfprftw. For more information, see the topic [“Special ddnames” on page 50](#).

## Special ddnames

SDSF includes special ddnames to control various processing options. Special ddnames are convenient because they do not require changes to ISFPRMxx, SDSF/REXX execs, or Java classes.

Special ddnames are allocated to dummy files prior to SDSF initialization. SDSF recognizes the allocation and processes accordingly. You can allocate a special ddname as follows:

- When running in a TSO environment, issue a command similar to the following from ISPF option 6 or from the TSO READY prompt: **alloc fi(isfxxxxx) dummy reus**
- When running in a batch environment, add the following to the batch JCL: `//ISFxxxxx DD DUMMY`

Where xxxxx is a ddname from the special ddname table that follows.

[Table 34 on page 50](#) shows the SDSF special ddnames and their use.

| Table 34. SDSF special ddnames |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DDName                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ISFMIGNB                       | Disables color and highlighting support on browse panels such as health checks and ULOG. Use of color and highlighting shifts the data due to the addition of an attribute in the first column. Although the format of SDSF panels might vary from release to release, the attribute character might cause some installation-written processes to fail. When this special ddname is allocated, panels are formatted as was previously implemented. Installations are encouraged to update their processes to tolerate the attribute being present. |
| ISFMIGNP                       | Disables use of file system profiles when running under TSO. Note that when running under TSO and file system profiles are disabled, settings cannot be saved between SDSF sessions.                                                                                                                                                                                                                                                                                                                                                               |

Table 34. SDSF special ddnames (continued)

| DDName   | Description                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISFMIGRN | Enables use of the SDSF/REXX ISFBROWSE (NOCLOSE) option even though the user has destination operator authority. See the topic <a href="#">“Browsing output with ISFBROWSE”</a> on page 414 for more information on specifying NOCLOSE. See the <i>Destination operator authority</i> topic in <i>z/OS SDSF Operation and Customization</i> for more information on configuring destination authority. |
| ISFMIGXB | Enables use of color and highlighting on browse panels such as ULOG and health checks. Note that special ddname ISFMIGXB takes precedence over both the custom property Browse.Enhanced.DisableAttrs and special dd ISFMIGNB.                                                                                                                                                                          |
| ISFPRFTR | For diagnosing problems related to z/OS UNIX file system profiles. Enables profile tracing and adds messages to ULOG. Use this DD to capture early profile trace messages.                                                                                                                                                                                                                             |
| ISFPRFTW | For diagnosing problems related to z/OS UNIX file system profiles. Enables profile tracing and issues write-to-programmer messages. Use this DD to capture early profile trace messages and when ULOG cannot be accessed.                                                                                                                                                                              |
| ISFRXDBG | Enable SDSF/REXX debug mode, as described in <a href="#">“SDSF/REXX debug mode”</a> on page 395.                                                                                                                                                                                                                                                                                                       |
| ISFSECTR | Forces SET SECTRA(ON), as described in <i>z/OS SDSF Operation and Customization</i> .                                                                                                                                                                                                                                                                                                                  |
| ISFSECTW | Forces SET SECTRA(WTP), as described in <i>z/OS SDSF Operation and Customization</i> .                                                                                                                                                                                                                                                                                                                 |



# Chapter 2. SDSF panels

This section describes the SDSF panels in a tabular format.

In the tables, an X in the *Delay* column indicates that obtaining the data may require an I/O operation. These columns are typically in the alternate field list. I/O operations are performed only when the columns are visible on the screen or being sorted. SDSF performance is best when columns that require an I/O operation are at the end of the field list. If there are no columns requiring I/O, the Delay column is not included.

The panel topics are listed in the same order that they are listed on the main menu, if sorted by the NAME column.

## Action Character Help panel (ACTH)

The Action Character Help (ACTH) panel displays a table of the action commands that can be issued in SDSF tabular panels.

You can use the ACTH panel to identify the following:

- The SAF resource that controls access to an action command and the level of that access.
- The environments in which the action command is valid.
- The SAF CLASS to which a user should be assigned so they can invoke the action command.

The content that is displayed by the ACTH command depends on where you entered the command and which parameters you enter with the command:

- If you invoke the ACTH command without using parameters from the main menu, SDSF displays valid action commands for all panels in SDSF.
- If you invoke the ACTH command without using parameters from any other SDSF panel, SDSF displays all valid action commands for that panel.
- If you invoke the ACTH command with positional parameters, SDSF displays the action commands for the panel and environment that you specify in the parameters.

ACTH command parameters allow you to specify the panel and the environment to display the list of action characters without using a filter.

### Command

Access the ACTH panel with the **ACTH** command from any SDSF panel.

### Parameters

```
ACTH (panel-name | ALL) (environment | ALL)
```

### Examples

```
ACTH
```

When entered on the main panel, display all valid actions for all panels in SDSF.

When entered on any other SDSF panel, display all valid actions for that panel.

```
ACTH ST
```

Display all actions valid on the ST panel.





| Table 36. ACTH Command Action Characters (continued) |                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------|
| Action Character                                     | Description                                                                            |
| /                                                    | Show column values for row (ISPF only).                                                |
| //                                                   | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                              | Run a REXX exec.                                                                       |
| =                                                    | Repeat previous action character or overtype.                                          |

## Columns on the ACTH panel

The columns on the ACTH panel are shown in [Table 37 on page 55](#).

Table 37. Columns on the ACTH Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COMMAND</b>    | COMMAND           | 7     | Action command. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                  |
| <b>PANEL</b>      | Panel             | 5     | Panel name                                                                                                                                                                            |
| <b>DESC</b>       | Description       | 28    | Command description                                                                                                                                                                   |
| <b>AUTH</b>       | AuthLevel         | 9     | Auth level required for command                                                                                                                                                       |
| <b>JES</b>        | JES               | 4     | JES type                                                                                                                                                                              |
| <b>ENV</b>        | Environment       | 54    | Valid environments                                                                                                                                                                    |
| <b>NEW</b>        | New               | 3     | New action                                                                                                                                                                            |
| <b>CLASS</b>      | Class             | 8     | SAF class                                                                                                                                                                             |
| <b>RESOURCE</b>   | Resource          | 64    | SAF resource                                                                                                                                                                          |
| <b>SINCE</b>      | Since             | 20    | Release when action added                                                                                                                                                             |
| <b>DEPEND</b>     | Dependency        | 127   | Dependency description                                                                                                                                                                |
| <b>TOUCH</b>      | Touch             | 5     | Touch target address space                                                                                                                                                            |
| <b>JAVAMETHOD</b> | JavaMethod        | 127   | Corresponding Java classname.methodname                                                                                                                                               |
| <b>OPERCMD</b>    | Opercmd           | 126   | Operator command template                                                                                                                                                             |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Address Space Diagnostic panel (AD)

The Address Space Diagnostics (AD) panel allows you to review identification information about each address space and the memory addresses of important control blocks. You can then use the point-and-shoot action on the control blocks to invoke memory browse.

By default, address spaces that are considered to be initiators are excluded from the list. You can direct the AD command to include them by using the optional ALL keyword.

### Command

Access the Address Space Diagnostic panel with the **AD** command from any SDSF panel.

## Parameters

The parameter usage is as follows:

AD (ALL)

Consider the following examples:

- **AD ALL** - Displays all address spaces including initiators.
- **AD** - Displays all address spaces but excludes initiators.

## Panel title information

The title line contains the following information:

```
SDSF AD DISPLAY SYS1 SYS2 LINE 1-15 (65)
 | | |
 | | |
System ID | | |
of system | | |
you are | | |
logged | | |
on to | | |
 | | |
 | | |
Systems displayed | | |
(MVS value or | | |
SYSNAME value) | | |
 | | |
 | | |
Lines displayed | | |
or first line | | |
if 100,000 | | |
 | | |
 | | |
Total lines | | |
(**** if more | | |
than 99,999,999) | | |
```

## AD command action characters

The action characters for the AD command are shown in [Table 38 on page 56](#).

| Table 38. AD Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |
| =                                      | Repeat previous action character or overtype.                                                       |
| FJ                                     | Fetch by job name. Requires the SDSF MFM feature to be active.                                      |
| FP                                     | List fetch paths by job name. Requires the SDSF MFM feature to be active.                           |
| JC                                     | Display the loaded modules entries (CDE) for the address space.                                     |
| JCM                                    | Display common memory used by the address space.                                                    |
| JCS                                    | Display common storage used by the address space.                                                   |
| JDCC                                   | Display CF connections for the address space.                                                       |

Table 38. AD Command Action Characters (continued)

| Action Character | Description                                                          |
|------------------|----------------------------------------------------------------------|
| JDD              | Display allocated DD names for the address space.                    |
| JDNA             | Display network activity for the address space.                      |
| JM               | Display memory summary for the address space.                        |
| JMO              | Display 64-bit memory objects owned by the address space.            |
| JT               | Display the task structure (TCB) for the address space.              |
| LE               | List enclaves.                                                       |
| LU               | List user ID information. IBM Security Server (RACF) must be active. |
| N                | Display enqueues owned by the address space.                         |

### Columns on the AD panel

The columns on the AD panel are shown in [Table 38 on page 56](#).

Table 39. Columns on the AD Panel

| Column name    | Title (Displayed) | Width | Description                                                                    |
|----------------|-------------------|-------|--------------------------------------------------------------------------------|
| <b>JNAME</b>   | JOBNAME           | 7     | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>ASIDX</b>   | ASIDX             | 5     | Address space identifier in hexadecimal                                        |
| <b>STEPN</b>   | StepName          | 8     | Step name                                                                      |
| <b>PROCS</b>   | ProcStep          | 8     | Procedure step name                                                            |
| <b>JOBID</b>   | JobID             | 8     | JES job ID, or work ID                                                         |
| <b>OWNERID</b> | Owner             | 8     | User ID of job creator                                                         |
| <b>ASCB</b>    | ASCB              | 8     | ASCB address                                                                   |
| <b>ASSB</b>    | ASSB              | 8     | ASSB address                                                                   |
| <b>ASXB</b>    | ASXB              | 8     | ASXB address                                                                   |
| <b>TCB</b>     | TCB               | 8     | TCB address (ASCBXTCB)                                                         |
| <b>OUCB</b>    | OUCB              | 8     | OUCB address                                                                   |
| <b>JSAB</b>    | JSAB              | 8     | JSAB address                                                                   |
| <b>POS</b>     | Pos               | 3     | Address space position                                                         |
| <b>SWAPR</b>   | SR                | 2     | Swap out reason code                                                           |
| <b>JTYPE</b>   | Type              | 4     | Job type (STC, TSU, JOB)                                                       |
| <b>ASID</b>    | ASID              | 5     | Address space identifier                                                       |
| <b>SUBSYS</b>  | SSName            | 6     | Subsystem name                                                                 |
| <b>CVT</b>     | CVT               | 8     | CVT address                                                                    |
| <b>ECVT</b>    | ECVT              | 8     | ECVT address                                                                   |

Table 39. Columns on the AD Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>RAX</b>      | RAX               | 8     | RAX address                                                                                                                                                                           |
| <b>RAX64</b>    | RAX64             | 17    | RAX64 address                                                                                                                                                                         |
| <b>STDATE</b>   | StartDate         | 19    | Address space start date                                                                                                                                                              |
| <b>ELAPSED</b>  | ElapsedTime       | 12    | Address space elapsed time in ddd:hh:mm:ss format                                                                                                                                     |
| <b>STOKEN</b>   | SToken            | 16    | Address space token                                                                                                                                                                   |
| <b>ZCX</b>      | zCX               | 3     | zCX address space (YES or NO)                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Authorized Program Facility panel (APF)

The APF List (APF) panel allows you to display the data sets in the APF list for each system in the sysplex. The panel contains columns that show data set attributes. The attributes are obtained by SDSF by using catalog search and by reading the VTOC for the volume where the data set resides.

### Command

Access the APF panel with the **APF** command from any SDSF panel.

### Parameters

Parameter usage is as follows:

```
APF (S | SHORT)
```

You can use the **SHORT** parameter to suppress the gathering of the data set information. When in **SHORT** mode, the columns are visible but they show blanks or zeros based on the formatting type.

The columns that are not retrieved in **SHORT** mode and display as blank or zeros based on column type are as follows:

- VolSer
- BlkSize
- Extent
- SMS
- LRecL
- DSOrg
- RecFm
- CrDate
- RefDate

The panel totals the extents for all data sets being shown. In **SHORT** mode, the extent count may be zero or reflect only data sets gathered from down-level systems. To indicate that the extent count may

be different from what is expected, and that the panel is in **SHORT** mode, the EXT keyword in the title is shown as \*EXT in **SHORT** mode.

### Panel title information

The title line contains the following information:

| SDSF | APF | DISPLAY | SYS1                                                 | SYS1 | *EXT                                                                                             | 37 | LNKLST                                         | LINE 1-19 (41)                                   |
|------|-----|---------|------------------------------------------------------|------|--------------------------------------------------------------------------------------------------|----|------------------------------------------------|--------------------------------------------------|
|      |     |         | System you are<br>logged on to                       |      | Total number<br>of extents for<br>all datasets<br>being displayed<br>(asterisk in<br>short mode) |    | Lines displayed<br>or first line<br>if 100,000 |                                                  |
|      |     |         | Systems displayed<br>(MVS value or<br>SYSNAME value) |      |                                                                                                  |    | LNKAUTH setting<br>specified at<br>IPL time    | Total lines<br>(**** if more<br>than 99,999,999) |

## APF command action characters

The action characters for the APF command are shown in Table 40 on page 59.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display information.                                                                                |
| DA               | Display information, all data sets.                                                                 |
| FD               | Fetch by data set name. Requires the SDSF MFM feature to be active.                                 |
| FJ               | Fetch by job name. Requires the SDSF MFM feature to be active.                                      |
| LA               | List RACF access. IBM Security Server (RACF) must be active.                                        |
| LCK              | List health checks. IBM Health Checker must be active.                                              |
| LP               | List RACF profiles. IBM Security Server (RACF) must be active.                                      |
| LV               | List data sets for a DASD volume (ISPF only).                                                       |
| NEW              | Add a data set to the APF list.                                                                     |
| REM              | Remove a data set from the APF list.                                                                |

| Table 40. APF Command Action Characters (continued) |                       |
|-----------------------------------------------------|-----------------------|
| Action Character                                    | Description           |
| S                                                   | Browse (ISFAFD only). |
| SB                                                  | Browse (ISPF only).   |
| SE                                                  | Edit (ISPF only).     |
| SV                                                  | ISPF view.            |

## Columns on the APF panel

The columns on the APF panel are shown in [Table 41 on page 60](#).

Table 41. Columns on the APF Panel

| Column name    | Title (Displayed) | Width                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|-------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSNAME</b>  | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SEQ</b>     | Seq               | 3                                        | Sequence number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>VOLSER</b>  | VolSer            | 6                                        | Volume serial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>STATUS</b>  | Status            | 8                                        | Data set status. The possible values are as follows: <ul style="list-style-type: none"> <li>OK - The data set was found on the volume specified.</li> <li>OK WARN - The data set was found on the volume indicated by the catalog because the APF entry specified "**SMS*". However, SDSF has determined that the volume is not SMS managed.</li> <li>ERROR - Internal error locating the UCB control block for the DASD volume serial that should contain the dataset.</li> <li>MISSING - The data set was not found on the volume specified</li> <li>MIGRATED - The data set has been migrated by DFHSM or similar product.</li> </ul> |
| <b>BLKSIZE</b> | BlkSize           | 7                                        | Data set block size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>EXTENT</b>  | Extent            | 6                                        | Number of extents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>SMS</b>     | SMS               | 3                                        | SMS indicator. YES if the data set is SMS managed. Otherwise, NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>LRECL</b>   | LRecL             | 5                                        | Logical record length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>DSORG</b>   | DSOrg             | 5                                        | Data set organization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RECFM</b>   | RecFm             | 5                                        | Record format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>DEFVOL</b>  | DefVol            | 6                                        | Defined volume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>CRDATE</b>  | CrDate            | 8                                        | Data set creation date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REFDATE</b>  | RefDate           | 8     | Data set last referenced date                                                                                                                                                         |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Operating system level                                                                                                                                                                |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

It provides a convenient means for identifying address spaces that are consuming the most common storage area (CSA) and system queue area (SQA). It also shows memory object usage, such as the number of memory objects owned, the current size of the memory object, and the highest size used.

You can use the fast path select (S) command to filter results, as follows. Leading zeros are not required when specifying the job number.

- ## Command

## Parameters

**AS ALL** displays all address spaces.

The title line contains the following information:

Chapter 2. SDSF panels **61**

## AS command action characters

The action characters for the AS command are shown in [Table 42 on page 62](#).

| Table 42. AS Command Action Characters |                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                                                                             |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                     |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                    |
| /                                      | Show column values for row (ISPF only).                                                                                                                 |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.                                                                  |
| %(exec)                                | Run a REXX exec.                                                                                                                                        |
| ?                                      | Display job data sets (access the Job Data Set panel).                                                                                                  |
| =                                      | Repeat previous action character or overtype.                                                                                                           |
| JC                                     | Display the CDEs for the job (access the Job Modules panel).                                                                                            |
| JCM                                    | List job common memory objects for a job name, job ID, and ASID combination.                                                                            |
| JCS                                    | Display the job's common storage (access the Job Common Storage panel).                                                                                 |
| JD                                     | Display the job's use of devices (access the Job Device panel).                                                                                         |
| JDCC                                   | Display the job's CF connections (access the CF Connections panel).                                                                                     |
| JDD                                    | Display the job ddnames (access the Job DDName panel).                                                                                                  |
| JDNA                                   | Display the job's network activity (access the Network Activity panel).                                                                                 |
| JM                                     | Display the job's use of memory (access the Job Memory panel).                                                                                          |
| JMO                                    | Display the memory objects owned by the job (access the Job Memory Objects panel).                                                                      |
| JT                                     | Display the TCBs for the job (access the Job Tasks panel).                                                                                              |
| LE                                     | List enclaves.                                                                                                                                          |
| LU                                     | List user ID information. IBM Security Server (RACF) must be active.                                                                                    |
| N                                      | Invokes the ENQ panel to display data sets for the selected address space. Shows locally held enqueues even when the job is running on a remote system. |
| S                                      | Display the data sets for the job.                                                                                                                      |



| <i>Table 42. AS Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                          | Description                                                                                                                                                                                                                                                                                                                 |
| Sn                                                        | Browse data sets for the job starting with the relative data set number <i>n</i> from the top. If you enter - <i>n</i> , the display starts with the data set number <i>n</i> from the bottom.                                                                                                                              |
| SB                                                        | Browse data sets using ISPF browse.                                                                                                                                                                                                                                                                                         |
| SE                                                        | Edit data sets using ISPF edit.                                                                                                                                                                                                                                                                                             |
| SV                                                        | View data sets using ISPF view.                                                                                                                                                                                                                                                                                             |
| X                                                         | Print the check output. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul> |

## Columns on the AS panel

The columns on the AS panel are shown in [Table 43 on page 63](#).

*Table 43. Columns on the AS Panel*

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                                                                          |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JNAME</b>    | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                                                                       |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier in hexadecimal                                                                                                                                                                                              |
| <b>REAL</b>     | Real              | 5     | Current utilization of real storage in frames                                                                                                                                                                                        |
| <b>FIXED</b>    | Fixed             | 5     | Number of fixed real storage frames                                                                                                                                                                                                  |
| <b>CSA</b>      | CSA               | 8     | CSA storage below the 16MB line in bytes                                                                                                                                                                                             |
| <b>CSAPCT</b>   | CSA%              | 6     | Percentage of CSA storage below the line being used                                                                                                                                                                                  |
| <b>ECSA</b>     | ECSA              | 8     | CSA storage above the 16MB line in bytes                                                                                                                                                                                             |
| <b>ECSAPCT</b>  | ECSA%             | 6     | Percentage of CSA above the 16MB line being used                                                                                                                                                                                     |
| <b>SQA</b>      | SQA               | 8     | SQA storage below the 16MB line in bytes                                                                                                                                                                                             |
| <b>SQAPCT</b>   | SQA%              | 6     | Percentage of SQA below the line being used                                                                                                                                                                                          |
| <b>ESQA</b>     | ESQA              | 8     | SQA storage above the 16MB line in bytes                                                                                                                                                                                             |
| <b>ESQAPCT</b>  | ESQA%             | 6     | Percentage of SQA above the line being used                                                                                                                                                                                          |
| <b>AUX</b>      | Aux               | 6     | Non-VIO slots being used                                                                                                                                                                                                             |
| <b>MEMLIMIT</b> | MemLimit          | 8     | Memory limit for 64-bit storage objects. When an address space has no MEMLIMIT, this column displays the character string NOLIMIT. However, filtering and sorting on this column uses the underlying binary numerical value 16383PB. |
| <b>MOBJNUM</b>  | MemObjNum         | 9     | Number of memory objects for address space                                                                                                                                                                                           |

Table 43. Columns on the AS Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------|
| <b>MOBJ</b>     | MemObjUsed        | 10    | Total allocated memory object size in MB                                                   |
| <b>MOBJHWM</b>  | MemObjHWM         | 9     | High-water mark allocated to memory objects in MB                                          |
| <b>HVCOMNUM</b> | HVComNum          | 8     | Number of high virtual common memory objects                                               |
| <b>HVCOM</b>    | HVComUsed         | 9     | High virtual common memory size in MB                                                      |
| <b>HVCOMHWM</b> | HVComHWM          | 8     | High virtual common memory high-water mark in MB                                           |
| <b>SHRMONUM</b> | ShrMONum          | 8     | Number of shared memory objects for address space                                          |
| <b>SHRMO</b>    | ShrMOUsed         | 9     | Total size of shared memory objects in MB                                                  |
| <b>SHRMOHWM</b> | ShrMOHWM          | 8     | Shared memory objects high-water mark in MB                                                |
| <b>FIXEDB</b>   | FixedB            | 6     | Number of fixed frames below 16MB line                                                     |
| <b>STEPN</b>    | StepName          | 8     | Step name                                                                                  |
| <b>PROCS</b>    | ProcStep          | 8     | Procedure step name                                                                        |
| <b>JOBID</b>    | JobID             | 8     | JES job ID, or work ID                                                                     |
| <b>OWNERID</b>  | Owner             | 8     | User ID of job creator                                                                     |
| <b>POS</b>      | Pos               | 3     | Address space position. For example: swapped in, swapped out, non-swappable, in transition |
| <b>SWAPR</b>    | SR                | 2     | Swap-out reason code                                                                       |
| <b>JTYPE</b>    | Type              | 4     | Job type (STC, TSU, JOB)                                                                   |
| <b>ASID</b>     | ASID              | 5     | Address space identifier                                                                   |
| <b>SUBSYS</b>   | SSName            | 6     | Subsystem name                                                                             |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                              |
| <b>SCSAPCT</b>  | SCSA%             | 5     | System CSA usage percentage                                                                |
| <b>SECSAPCT</b> | SECSA%            | 6     | System ECSA usage percentage                                                               |
| <b>SSQAPCT</b>  | SSQA%             | 5     | System SQA usage percentage                                                                |
| <b>SESQAPCT</b> | ESQA%             | 6     | System ESQA usage percentage                                                               |
| <b>AUXPCT</b>   | Aux%              | 4     | Auxiliary storage utilization                                                              |
| <b>REALAFC</b>  | RealAFC           | 8     | Current real storage available frame count                                                 |
| <b>PRIV</b>     | Priv              | 4     | Private storage below 16MB line (bytes)                                                    |
| <b>PRIVUSE</b>  | PrivUsed          | 8     | Private storage below 16MB line used (bytes)                                               |
| <b>PRIVPCT</b>  | Priv%             | 6     | Percentage of private storage below 16MB line used                                         |
| <b>EPRIV</b>    | EPriv             | 5     | Private storage above 16MB line (bytes)                                                    |
| <b>EPRIVUSE</b> | EPrivUsed         | 9     | Private storage above 16MB line used (bytes)                                               |
| <b>EPRIVPCT</b> | EPriv%            | 6     | Percentage of private storage above 16MB line used                                         |
| <b>AUXSCM</b>   | AuxSCM            | 6     | SCM block count                                                                            |
| <b>MOBJREAL</b> | MemObjReal        | 10    | Real frames backing memory objects                                                         |

Table 43. Columns on the AS Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MOBJAUX</b>   | MemObjAux         | 9     | Auxiliary storage slots backing memory objects                                                                                                                                        |
| <b>STDATE</b>    | StartDate         | 19    | Start date                                                                                                                                                                            |
| <b>DMEM</b>      | DMem              | 8     | Amount of dedicated memory assigned (GB)                                                                                                                                              |
| <b>DMEPCT</b>    | DMem%             | 5     | Percentage of dedicated memory in use                                                                                                                                                 |
| <b>MEMLIMSRC</b> | MemLimSrc         | 9     | Source of MEMLIMIT                                                                                                                                                                    |
| <b>REAL2GB</b>   | Real2Gb           | 7     | Number of 2 GB pages backed in real storage                                                                                                                                           |
| <b>ELAPSED</b>   | ElapsedTime       | 12    | Address space elapsed time in ddd:hh:mm:ss format                                                                                                                                     |
| <b>REAL1MB</b>   | Real1Mb           | 7     | 1 MB pages backed in real storage                                                                                                                                                     |
| <b>ZCX</b>       | zCX               | 3     | zCX address space (YES or NO)                                                                                                                                                         |
| <b>MEMLIMCHG</b> | MemLimChg         | 9     | High virtual private high-water mark charged against MEMLIMIT for the current job step                                                                                                |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## WLM Class Activity panel (AW)

The WLM Class Activity (AW) panel displays address space activity summarized by WLM class name and type. Only WLM classes with at least one associated active address space are shown.

### Command

Access the AW panel with the **AW** command from any SDSF panel.

### Parameters

Parameter usage is as follows:

```
AW (ALL | (RC | REPORT) | (RG | RESOURCE) | (SC | SERVICE) | (WL | WORKLOAD))
```

Table 44. AW Parameters

| Parameter     | Description                             |
|---------------|-----------------------------------------|
| ALL           | Show all WLM classes. This the default. |
| RC   REPORT   | Show only WLM report classes.           |
| RG   RESOURCE | Show only WLM resource groups.          |
| SC   SERVICE  | Show only WLM service classes.          |
| WL   WORKLOAD | Show only WLM workloads.                |

### Panel title information

The title line contains the following information:

|             |                  |                         |             |             |            |                       |
|-------------|------------------|-------------------------|-------------|-------------|------------|-----------------------|
| <b>SDSF</b> | <b>WLM CLASS</b> | <b>ACTIVITY</b>         | <b>SYS1</b> | <b>SYS2</b> | <b>ALL</b> | <b>LINE 1-12 (12)</b> |
|             |                  |                         |             |             |            |                       |
|             |                  | System that             |             | Current     |            | Lines displayed       |
|             |                  | you are                 |             | WLM class   |            | or first line         |
|             |                  | logged on to            |             | type        |            | if 100,000            |
|             |                  |                         |             |             |            | or more               |
|             |                  |                         |             |             |            |                       |
|             |                  | Systems displayed (MVS  |             |             |            | Total lines           |
|             |                  | value or SYSNAME value) |             |             |            | (**** if more         |
|             |                  |                         |             |             |            | than 99,999,999)      |

## AW command action characters

The action characters for the AW command are shown in [Table 45 on page 66](#).

| Table 45. AW Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |
| =                                      | Repeat previous action character or overwrite.                                                      |
| L                                      | List active jobs in the WLM class.                                                                  |
| LE                                     | List enclaves for the selected WLM class.                                                           |

## Columns on the AW panel

The columns on the AW panel are shown in [Table 46 on page 66](#).

| Table 46. Columns on the AW Panel |                   |       |                                          |
|-----------------------------------|-------------------|-------|------------------------------------------|
| Column name                       | Title (Displayed) | Width | Description                              |
| <b>NAME</b>                       | NAME              | 8     | WLM class name. This is the fixed field. |
| <b>TYPE</b>                       | Type              | 8     | WLM class type                           |
| <b>ASID</b>                       | Active            | 6     | Number of address spaces                 |
| <b>CPUPR</b>                      | CPU%              | 6     | Percent of CPU time used                 |
| <b>REAL</b>                       | Real              | 8     | Number of real frames                    |
| <b>ECPUPR</b>                     | ECPU%             | 6     | Percent of enclave CPU time used         |
| <b>PAGING</b>                     | Paging            | 6     | Demand paging rate                       |
| <b>EXCPRT</b>                     | SIO               | 10    | EXCP rate in EXCPs per second            |
| <b>ZIIPUSE</b>                    | zIIP-Use%         | 9     | Percent of the total zIIP time used      |
| <b>STC</b>                        | STC               | 4     | Number of started tasks                  |
| <b>JOB</b>                        | Job               | 4     | Number of batch jobs                     |
| <b>TSU</b>                        | TSU               | 4     | Number of TSO users                      |
| <b>OMVS</b>                       | OMVS              | 4     | Number of z/OS UNIX address spaces       |

Table 46. Columns on the AW Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ASCH</b>     | ASCH              | 4     | Number of ASCH address spaces                                                                                                                         |
| <b>JES</b>      | JES               | 4     | Number of address spaces running under JES                                                                                                            |
| <b>REUS</b>     | REUS              | 4     | Number of reusable address spaces                                                                                                                     |
| <b>QUIESCE</b>  | Quiesce           | 7     | Number of quiesced address spaces                                                                                                                     |
| <b>ZCX</b>      | zCX               | 3     | Number of zCX address spaces                                                                                                                          |
| <b>SCPU</b>     | SCPU%             | 6     | CPU percentage for the system                                                                                                                         |
| <b>SLCPU</b>    | SLCPU%            | 6     | LPAR CPU percentage for the system                                                                                                                    |
| <b>SPAGING</b>  | SPag              | 6     | Demand paging rate for the system                                                                                                                     |
| <b>SZIIP</b>    | SzIIP%            | 6     | zIIP view of CPU use for the system                                                                                                                   |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## OMVS options panel (BPXO)

The OMVS options (BPXO) panel shows the z/OS UNIX system services options that are in effect.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the z/OS UNIX system services option.

### Command

Access the panel with the **BPXO** command. SDSF interprets an **OMVS** command as the output panel (O) with classes M, V, and S.

### Panel title information

The title line contains the following information:

```

SDSF OMVS OPTIONS SYS1 SYS* LINE 1-19 (56)
 | | |
 | | |
System you | | |
are logged | | |
on to | | |
 | | |
 | | |
Systems displayed | | |
(MVS value or | | |
SYSNAME value) | | |

```

Lines displayed

Total lines

### OMVS command action characters

The action characters for the OMVS command are shown in [Table 47 on page 68](#).

Table 47. OMVS Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                               |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                              |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                           |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                            |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                  |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                     |
| DO               | Display OMVS options information.                                                                                                                                                                                                                 |
| N                | Set value to NOLIMIT for applicable options.<br><br>The N action applies only to options that support the NOLIMIT value, which currently is MAXFILESIZE. Issuing the N action against any other option will result in a not valid for type error. |

### Columns on the OMVS options panel

The columns on the OMVS options panel are shown in Table 48 on page 68.

Table 48. Columns on the OMVS Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 16    | z/OS UNIX system services option name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                           |
| <b>NUMVALUE</b> | NumericValue      | 12    | Option value when format is numeric                                                                                                                                                   |
| <b>VALUE</b>    | Value             | 32    | Option value when format is character (up to a maximum of 127 characters). For the MAXFILESIZE option, any value greater than 522248 indicates there is NOLIMIT.                      |
| <b>STATUS</b>   | Status            | 8     | Additional status related to option                                                                                                                                                   |
| <b>SYSNAME</b>  | SysName           | 8     | System name where console is active                                                                                                                                                   |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Catalog Data Sets panel (CAT)

The Catalog Data Sets (CAT) panel displays information about the ICF catalogs that have been used since the system was IPLed. This includes active master and user catalogs, but can also include catalogs that have been deleted. Along with the data set name and volume serial, the CAT panel shows important attributes of each catalog and its current status.

## Command

Access the CAT panel with the **CAT** command from any SDSF panel.

## Panel title information

The title line contains the following information:

| SDSF | CATALOG | DISPLAY                                | SYS1                                              | SYS2 | LINE 1-4 (4)                                              |
|------|---------|----------------------------------------|---------------------------------------------------|------|-----------------------------------------------------------|
|      |         | System that<br>you are<br>logged on to |                                                   |      | Lines displayed<br>or first line<br>if 100,000<br>or more |
|      |         |                                        | Systems displayed (MVS<br>value or SYSNAME value) |      | Total lines<br>(**** if more<br>than 99,999,999)          |

## CAT command action characters

The action characters for the CAT command are shown in [Table 49 on page 69](#).

| Table 49. CAT Command Action Characters |                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                                           |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                   |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                                  |
| /                                       | Show column values for row (ISPF only).                                                                               |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.                                |
| %(exec)                                 | Run a REXX exec.                                                                                                      |
| =                                       | Repeat previous action character or overtype.                                                                         |
| D                                       | Display basic information about the catalog.                                                                          |
| DC                                      | Display cache status of the catalog.                                                                                  |
| DS                                      | Display I/O statistics, BUFNI, BUFND, and STRNO, and reclaim and reuse statistics.                                    |
| LA                                      | Display RACF access lists for the catalog (access the RACF Connections panel).                                        |
| LP                                      | Browse detailed information for all segments of RACF profiles defined for the catalog (access the RACF Browse panel). |
| LV                                      | Browse data sets for the catalog using ISPF browse.                                                                   |
| LVT                                     | Display the volume table of contents for the DASD volume on which the catalog resides (access the VTOC panel).        |
| VL                                      | Issue a serialized LOCK and CLOSE of the catalog.                                                                     |
| VR                                      | Resume a suspended catalog. This command also resets the SUSPEND attribute.                                           |

Table 49. CAT Command Action Characters (continued)

| Action Character | Description                                                |
|------------------|------------------------------------------------------------|
| VS               | Close the catalog and set the catalog's SUSPEND attribute. |
| VU               | Unlock a locked catalog.                                   |

## Columns on the CAT panel

The columns on the CAT panel are shown in [Table 50 on page 70](#).

Table 50. Columns on the CAT Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                           |
|------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSNAME</b>    | DSNAME            | 44    | Catalog data set name. This is the fixed field.                                                                                                       |
| <b>VOLSER</b>    | VolSer            | 6     | Volume serial                                                                                                                                         |
| <b>TYPE</b>      | Type              | 6     | Catalog type (MASTER or USER)                                                                                                                         |
| <b>OPEN</b>      | Open              | 4     | Catalog is open (YES or NO)                                                                                                                           |
| <b>ISC</b>       | ISC               | 3     | Catalog is active in-storage cache (YES or NO)                                                                                                        |
| <b>ECS</b>       | ECS               | 3     | Catalog is ECS active (YES or NO)                                                                                                                     |
| <b>VLF</b>       | VLF               | 3     | Catalog is active in VLF (YES or NO)                                                                                                                  |
| <b>RLS</b>       | RLS               | 3     | Catalog is open in RLS mode (YES or NO)                                                                                                               |
| <b>LOCKED</b>    | Locked            | 6     | Catalog is locked (YES or NO)                                                                                                                         |
| <b>DELETED</b>   | Deleted           | 7     | Catalog has been deleted (YES or NO)                                                                                                                  |
| <b>SUSPENDED</b> | Suspended         | 9     | Catalog is suspended (YES or NO)                                                                                                                      |
| <b>UNIT</b>      | Unit              | 4     | Unit address                                                                                                                                          |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Coupling Facilities panel (CF)

The Coupling Facilities (CF) panel shows information about all of the coupling facilities that are defined in the sysplex.

### Command

Access the Coupling Facilities panel with the **CF** command from any SDSF panel.

### Panel title information

The title line contains the following information:



|      |    |         |                                              |              |                                                  |
|------|----|---------|----------------------------------------------|--------------|--------------------------------------------------|
| SDSF | CF | DISPLAY | SYS1                                         | PLEX01       | LINE 1-12 (12)                                   |
|      |    |         | System<br>that<br>you are<br>logged<br>on to | Sysplex name | Lines displayed<br>or first line<br>if 100,000   |
|      |    |         |                                              |              | Total lines<br>(**** if more<br>than 99,999,999) |

## CF command action characters

The action characters for the CF command are shown in [Table 51 on page 71](#).

| Table 51. CF Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |
| =                                      | Repeat previous action character or overtype.                                                       |
| D                                      | Display information for the selected coupling facility.                                             |
| DA                                     | Display information for all coupling facilities.                                                    |
| LC                                     | List all connections for the coupling facility.                                                     |
| LCK                                    | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LS                                     | List all structures in the coupling facility.                                                       |

## Columns on the CF panel

The columns on the CF panel are shown in [Table 52 on page 71](#).

| Table 52. Columns on the CF Panel |                   |       |                                                      |
|-----------------------------------|-------------------|-------|------------------------------------------------------|
| Column name                       | Title (Displayed) | Width | Description                                          |
| CFNAME                            | CFNAME            | 8     | Coupling facility name. This is the fixed field.     |
| STATUS                            | Status            | 9     | Coupling facility status                             |
| CFLEVEL                           | CFLevel           | 7     | Coupling facility code level                         |
| PARTITION                         | Partition         | 9     | Partition number                                     |
| PROC                              | Proc              | 4     | Number of processors for the coupling facility       |
| SYSCOUNT                          | SysCount          | 8     | Number of systems connected to the coupling facility |
| STRCOUNT                          | StrCount          | 8     | Number of structures in the coupling facility        |
| SIZE                              | Size              | 8     | Size in Kb for coupling facility                     |

Table 52. Columns on the CF Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                           |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREE</b>       | Free              | 8     | Free space in Kb for coupling facility                                                                                                                |
| <b>STORINC</b>    | StorInc           | 8     | Storage increment in Kb for the coupling facility                                                                                                     |
| <b>VOLATILE</b>   | Volatile          | 8     | Coupling facility is using volatile storage                                                                                                           |
| <b>DUMPSIZE</b>   | DumpSize          | 8     | Dump space in Kb for the coupling facility                                                                                                            |
| <b>DUMPFREE</b>   | DumpFree          | 8     | Free dump space in Kb for the coupling facility                                                                                                       |
| <b>DUMPMAX</b>    | DumpMax           | 8     | Maximum amount of dump space in Kb that can be requested for the coupling facility                                                                    |
| <b>STRCLSMEM</b>  | StrClassMem       | 11    | Total coupling facility storage class memory in Kb                                                                                                    |
| <b>STRCLSFREE</b> | StrClassFree      | 12    | Free coupling facility storage class memory in Kb                                                                                                     |
| <b>STRCLSINC</b>  | StrClassInc       | 11    | Storage class memory increment                                                                                                                        |
| <b>NODE</b>       | Node              | 32    | Coupling facility node identifier                                                                                                                     |
| <b>CPCID</b>      | CpcID             | 5     | Central processor complex (CPC) identifier                                                                                                            |
| <b>CTRLUNIT</b>   | CtrlUnit          | 8     | Control unit ID for the coupling facility                                                                                                             |
| <b>POLNAME</b>    | PolName           | 8     | Policy name for the coupling facility                                                                                                                 |
| <b>POLSTATUS</b>  | PolStatus         | 9     | Policy status for the coupling facility                                                                                                               |
| <b>POLACTDATE</b> | PolActDate        | 19    | Policy activate time for the coupling facility                                                                                                        |
| <b>POLUPDDATE</b> | PolUpdDate        | 19    | Policy update time for the coupling facility                                                                                                          |
| <b>SITE</b>       | Site              | 8     | Name of the site specified in the CFRM policy                                                                                                         |
| <b>AUTHSYS</b>    | AuthSys           | 8     | Authority data for the coupling facility                                                                                                              |
| <b>AUTHTIME</b>   | AuthTime          | 19    | Authority data timestamp                                                                                                                              |
| <b>MONITOR</b>    | Monitor           | 8     | System that is responsible for monitoring this coupling facility                                                                                      |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## CF Connections panel (CFC)

The CF Connections (CFC) panel allows you to display CF connections defined to the sysplex.

### Command

Access the CF Connections panel with the **CFC** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|                            |             |                 |                       |
|----------------------------|-------------|-----------------|-----------------------|
| <b>SDSF CF CONNECTIONS</b> | <b>SYS1</b> | <b>PLEXNAME</b> | <b>LINE 1-16 (16)</b> |
|                            |             |                 |                       |
| System you are             | are logged  |                 | Total lines           |
| on to                      |             | Sysplex name    |                       |
|                            |             |                 |                       |
|                            |             | Lines displayed |                       |

## CFC command action characters

The action characters for the CFC command are shown in [Table 53 on page 73](#).

| Table 53. CFC Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display connection information.                                                                     |
| DA                                      | Display information about all connections.                                                          |
| DS                                      | Display structure information.                                                                      |
| LCK                                     | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LP                                      | List signaling path information (access the XCFP panel).                                            |
| LS                                      | List coupling facility structures (access the CFS panel).                                           |

## Columns on the CFC panel

The columns on the CFC panel are shown in [Table 54 on page 73](#).

| Table 54. Columns on the CFC Panel |                   |       |                                                                                       |
|------------------------------------|-------------------|-------|---------------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                           |
| <b>CONNAME</b>                     | CONNAME           | 16    | Connection name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>CONSTATE</b>                    | ConState          | 18    | Connection state (ACTIVE, FAILED-PERSISTENT, DISCONNECTING, FAILING)                  |
| <b>STRNAME</b>                     | StrName           | 16    | Structure name                                                                        |
| <b>STRTYPE</b>                     | StrType           | 8     | Structure type                                                                        |
| <b>STATUS</b>                      | Status            | 16    | Structure status                                                                      |
| <b>JNAME</b>                       | JobName           | 8     | Job name                                                                              |

Table 54. Columns on the CFC Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ASID</b>     | ASID              | 5     | Address space identifier                                                                                                                                                              |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier (hexadecimal)                                                                                                                                                |
| <b>CONDISP</b>  | ConDisp           | 6     | Connection disposition (KEEP or DELETE)                                                                                                                                               |
| <b>CONID</b>    | ID                | 2     | Structure connection ID                                                                                                                                                               |
| <b>VERSION</b>  | Version           | 8     | Structure connection version                                                                                                                                                          |
| <b>CFLEVEL</b>  | CFLevel           | 8     | Coupling facility code level                                                                                                                                                          |
| <b>CONNDATA</b> | ConData           | 16    | Connection data                                                                                                                                                                       |
| <b>DISCDATA</b> | DiscData          | 16    | Disconnect data                                                                                                                                                                       |
| <b>POLICY</b>   | Policy            | 8     | Policy name                                                                                                                                                                           |
| <b>CFNAME</b>   | CFName            | 8     | Coupling facility name                                                                                                                                                                |
| <b>CFNUM</b>    | NumCF             | 5     | Number of coupling facilities                                                                                                                                                         |
| <b>CTOKEN</b>   | ConTokenX         | 32    | Connection token (hexadecimal)                                                                                                                                                        |
| <b>LEVEL</b>    | ConLevel          | 16    | Connection level                                                                                                                                                                      |
| <b>STOKEN</b>   | SToken            | 16    | Address space SToken for connection requestor                                                                                                                                         |
| <b>CONFLAGS</b> | ConFlags          | 8     | Connection flags                                                                                                                                                                      |
| <b>SYSNUM</b>   | SysNum            | 6     | Connection system number                                                                                                                                                              |
| <b>SYSSEQ</b>   | SysSeq            | 6     | Connection system sequence number                                                                                                                                                     |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Couple Data Sets panel (CFD)

The Couple Data Sets (CFD) panel allows you to display coupling facility data sets defined to the sysplex.

### Command

Access the Couple Data Sets panel with the **CFD** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```

SDSF COUPLE DATA SETS SYS1 PLEX0008 LINE 1-12 (12)
 | | |
 System Sysplex name Lines displayed
 that or first line if 100,000
 you are
 logged
 on to
 Total lines
 (**** if more
 than 99,999,999)

```

## CFD command action characters

The action characters for the CFD command are shown in [Table 55 on page 75](#).

| Table 55. CFD Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display data set information for the function.                                                      |
| DA                                      | Display data set information for all functions.                                                     |
| LCK                                     | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LVT                                     | List VTOC for the coupling facility data set.                                                       |

## Columns on the CFD panel

The columns on the CFD panel are shown in [Table 56 on page 75](#).

Table 56. Columns on the CFD Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSNAME</b>    | DSNAME            | 6     | Couple data set name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                            |
| <b>FUNCTION</b>  | Function          | 8     | Function name                                                                                                                                                                         |
| <b>TYPE</b>      | Type              | 16    | Connection data set status                                                                                                                                                            |
| <b>ALLOCTIME</b> | AllocTime         | 19    | Timestamp when data set allocated                                                                                                                                                     |
| <b>MAXSYS</b>    | MaxSys            | 10    | Maximum number of systems supported                                                                                                                                                   |
| <b>MAXGRP</b>    | MaxGrp            | 10    | Maximum number of groups supported                                                                                                                                                    |
| <b>MAXMEM</b>    | MaxMem            | 10    | Maximum members per group                                                                                                                                                             |
| <b>PEAKGRP</b>   | PeakGrp           | 10    | Maximum number of groups ever used                                                                                                                                                    |
| <b>PEAKMEM</b>   | PeakMem           | 10    | Maximum number of members ever used                                                                                                                                                   |
| <b>VOLSER</b>    | VolSer            | 6     | Volume serial                                                                                                                                                                         |
| <b>DEVICENUM</b> | Unit              | 4     | Device number                                                                                                                                                                         |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# CF Structures panel (CFS)

The CF Structures (CFS) panel allows authorized users to display CF structures defined to the sysplex.

## Command

Access the CFS panel with the **CFS** command from any SDSF panel.

## Panel title information

The title line contains the following information:

SDSF CF STRUCTURES

SYS1  
System you are  
are logged  
on to

PLEXNAME  
Sysplex name

LINE 1-16 (16)  
Total lines  
Lines displayed

## CFS command action characters

The action characters for the CFS command are shown in [Table 57 on page 76](#).

| Table 57. CFS Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display connection information.                                                                     |
| DA                                      | Display information about all structures.                                                           |
| L                                       | List coupling facility structure activity (access the CFSA panel).                                  |
| LC                                      | List coupling facility connections (access the CFC panel).                                          |
| LCK                                     | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LP                                      | List coupling facility path information (access the XCFP panel).                                    |

## Columns on the XCFS panel

The columns on the XCFS panel are shown in [Table 58 on page 77](#).

Table 58. Columns on the CFS Panel

| Column name       | Title (Displayed) | Width | Description                                                                          |
|-------------------|-------------------|-------|--------------------------------------------------------------------------------------|
| <b>STRNAME</b>    | STRNAME           | 16    | Structure name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STRTYPE</b>    | Type              | 8     | Structure type                                                                       |
| <b>STATUS</b>     | Status            | 16    | Structure status                                                                     |
| <b>DISP</b>       | Disp              | 8     | Structure disposition                                                                |
| <b>SIZE</b>       | Size              | 8     | Size                                                                                 |
| <b>SIZE%</b>      | Size%             | 6     | Size percentage                                                                      |
| <b>USERNUM</b>    | Conn              | 5     | Number of connections for the structure                                              |
| <b>LISTNUM</b>    | Lists             | 5     | List count for the structure                                                         |
| <b>ENTPCT</b>     | Entry%            | 6     | Entry percentage                                                                     |
| <b>ELEMPCT</b>    | Elem%             | 6     | Element percentage                                                                   |
| <b>ENTUSED</b>    | EntryInUse        | 10    | Number of entries in use                                                             |
| <b>ENTTOT</b>     | EntryTotal        | 10    | Total entries                                                                        |
| <b>ENTCHG</b>     | EntryChange       | 11    | Entries changed                                                                      |
| <b>ENTCPCT</b>    | EntryChange%      | 12    | Entries changed percentage                                                           |
| <b>ELEMUSED</b>   | ElemInUse         | 9     | Elements in use                                                                      |
| <b>ELEMTOT</b>    | ElemTotal         | 9     | Total elements                                                                       |
| <b>ELEMCHG</b>    | ElemChange        | 10    | Elements changed                                                                     |
| <b>ELEMCPCT</b>   | ElemChange%       | 11    | Elements changed percentage                                                          |
| <b>LOCKNUM</b>    | Locks             | 8     | Number of locks                                                                      |
| <b>VERSION</b>    | Alloc-Date-Time   | 19    | Date and time of allocation                                                          |
| <b>DUPLEX</b>     | Duplex            | 16    | Duplex option (allowed, disabled, or enabled)                                        |
| <b>ALLOWAA</b>    | AutoAlt           | 7     | Allow auto alt (yes or no)                                                           |
| <b>ALLOWRA</b>    | Realloc           | 7     | Allow realloc (yes or no)                                                            |
| <b>FULLTHRESH</b> | Full%             | 8     | Full threshold percentage                                                            |
| <b>REBLDPCT</b>   | Rebuild%          | 8     | Rebuild percentage                                                                   |
| <b>POLSIZE</b>    | PolSize           | 8     | Policy size (kilobytes)                                                              |
| <b>INITSIZE</b>   | InitSize          | 8     | Initial size (kilobytes)                                                             |
| <b>MINSIZE</b>    | MinSize           | 8     | Minimum size (kilobytes)                                                             |
| <b>MAXSIZE</b>    | MaxSize           | 8     | Maximum size (kilobytes)                                                             |
| <b>POLNAME</b>    | Policy            | 8     | Policy name                                                                          |
| <b>CFNAME</b>     | CFName            | 8     | Coupling facility name                                                               |
| <b>ENCRYPT</b>    | Encrypt           | 7     | Structure encryption (yes or no)                                                     |
| <b>ENCRTYPE</b>   | EncrType          | 8     | Encryption key method                                                                |

Table 58. Columns on the CFS Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## CF Structure Activity panel (CFSA)

The CF Structure activity (CFSA) panel displays coupling facility structure activity using RMF as the data source.

**Note:** RMF Monitor III must be active in order to see rows on the SDSF CFSA panel.

### Command

Access the CFSA panel with the **CFSA** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```

SDSF CF STRUCTURE ACTIVITY SYS1 PLEXNAME LINE 1-4 (4)
 | | |
 | | |
System you are logged | | |
on to | | |
 | | |
 Sysplex name Total lines
 | | |
 | | |
 Lines displayed

```

### CFSA command action characters

The action characters for the CFSA command are shown in Table 59 on page 78.

| Table 59. CFSA Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overwrite.                                                      |
| D                                        | Display the status of the connection.                                                               |
| DA                                       | Display the status of all connections.                                                              |
| L                                        | List CF structures.                                                                                 |
| LCK                                      | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |



## Columns on the CFSA panel

The columns on the CFSA panel are shown in [Table 58 on page 77](#).

Table 60. Columns on the CFSA Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                           |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STRNAME</b>    | STRNAME           | 16    | Structure name. This is the fixed field.                                                                                                              |
| <b>STRTYPE</b>    | Type              | 8     | Structure type                                                                                                                                        |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                           |
| <b>SYNCRATE</b>   | SyncRate          | 10    | Number of hardware operations per second started and completed synchronously to coupling facility                                                     |
| <b>SYNCAVG</b>    | SyncAvgTime       | 15    | Average time in microseconds required to satisfy a synchronous coupling facility request                                                              |
| <b>ASYNCRATE</b>  | AsyncRate         | 10    | Number of hardware operations per second started and completed asynchronously to coupling facility                                                    |
| <b>ASYNCAVG</b>   | AsyncAvgTime      | 16    | Average time in microseconds required to satisfy an asynchronous coupling facility request                                                            |
| <b>CHANGEPC</b>   | SyncToAsync%      | 14    | Percentage of asynchronous requests changed from synchronous to asynchronous                                                                          |
| <b>DELAYPC</b>    | AsyncDelay%       | 11    | Percentage of asynchronous hardware operations being delayed for this structure                                                                       |
| <b>SYNCCOUNT</b>  | SyncCount         | 11    | Count of number of times for synchronous requests executed by CF                                                                                      |
| <b>ASYNCCOUNT</b> | AsyncCount        | 11    | Count of number of times for asynchronous requests executed by CF                                                                                     |
| <b>SYNCTOASYN</b> | SyncToAsync       | 11    | Number of requests changed from synchronous to asynchronous                                                                                           |
| <b>DUMPDELAY</b>  | DumpDelay         | 11    | Number of times a request was delayed due to dump serialization                                                                                       |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Columns Help panel (COLH)

The COLH panel displays a table of the columns that can be displayed on SDSF tabular panels.

The content that is displayed on the COLH panel depends on where you entered the command:

- If you invoke the **COLSHELP** command on the main menu, it displays the valid columns for all panels in SDSF.
- If you invoke the **COLSHELP** command from any other SDSF panel, it displays all valid columns for that panel.

### Command

Access the COLH panel with the **COLSHELP**, **COLSH**, or **COLH** command from any SDSF panel.

The title line contains the following information:



| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |

The columns on the COLH panel are shown in Table 62 on page 80.

| Column name     | Title (Displayed) | Width | Description                                                                       |
|-----------------|-------------------|-------|-----------------------------------------------------------------------------------|
| <b>COLUMN</b>   | COLUMN            | 6     | Column name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>PANEL</b>    | Panel             | 5     | Panel name                                                                        |
| <b>TITLE</b>    | Title             | 18    | Column title                                                                      |
| <b>DESC</b>     | Description       | 100   | Column description                                                                |
| <b>DELAYED</b>  | Delayed           | 7     | Delayed status                                                                    |
| <b>OVERTYPE</b> | Overtime          | 8     | Overtime applicability                                                            |
| <b>WIDTH</b>    | Width             | 5     | Width of the column                                                               |
| <b>PAS</b>      | PAS               | 4     | Point and shoot (yes, no, or cond)                                                |
| <b>SIGZERO</b>  | SigZero           | 8     | Zero significant (yes or no)                                                      |
| <b>JESTYPE</b>  | JES               | 3     | Column applicable to J2, J3, or all                                               |
| <b>NEW</b>      | New               | 8     | Column new in current release (yes or no)                                         |

Table 62. Columns on the COLH Panel (continued)

| Column name         | Title (Displayed) | Width | Description                                         |
|---------------------|-------------------|-------|-----------------------------------------------------|
| <b>SINCE</b>        | Since             | 8     | Column available since release                      |
| <b>CLASS</b>        | Class             | 8     | SAF class                                           |
| <b>RESOURCE</b>     | Resource          | 64    | SAF resource                                        |
| <b>FIXEDFLD</b>     | FixedField        | 10    | Fixed field (yes or no)                             |
| <b>AUTH</b>         | AuthLevel         | 9     | Overtyping authorization level                      |
| <b>SUBFIELDS</b>    | SubFields         | 10    | Number of subfields                                 |
| <b>OPERCLASS</b>    | OperClass         | 9     | Overtyping operator command SAF class               |
| <b>OPERRESOURCE</b> | OperResource      | 48    | Overtyping operator command SAF resource            |
| <b>OPERAUTH</b>     | OperAuth          | 8     | Overtyping operator command SAF authorization level |
| <b>OPERCMD</b>      | Opercmd           | 126   | Overtyping operator command text                    |

## Command Help panel (CMDH)

The Command Help panel lists all SDSF primary commands and the SAF resource profiles that are used to protect the command.

### Command

Access the CMDH panel with the **CMDH** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```

SDSF COMMAND HELP SYS1 LINE 1-18 (80)
 | |
 | Lines displayed |
 | or first line |
 | if 100,000 |
 | |
 | Total lines |
 | (**** if more |
 | than 99,999,999) |
System you are logged on to

```

### CMDH command action characters

The action characters for the CMDH command are shown in [Table 63 on page 81](#).

| Table 63. CMDH Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |

| Table 63. CMDH Command Action Characters (continued) |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Action Character                                     | Description                                   |
| %(exec)                                              | Run a REXX exec.                              |
| =                                                    | Repeat previous action character or overtype. |
| A                                                    | Display the action help for the command.      |
| C                                                    | Display the column help for the column.       |
| H                                                    | Display help for the panel.                   |

## Columns on the CMDH panel

The columns on the CMDH panel are shown in Table 64 on page 82.

Table 64. Columns on the CMDH Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 4     | Command name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                    |
| <b>DESC</b>     | Description       | 24    | Command description                                                                                                                                                                   |
| <b>JES</b>      | JES               | 3     | JES dependent (yes or no)                                                                                                                                                             |
| <b>RMF</b>      | RMF               | 3     | RMF dependent (yes or no)                                                                                                                                                             |
| <b>XSYSTEM</b>  | Sysplex           | 7     | Command can be issued cross-system (yes or no)                                                                                                                                        |
| <b>JESPLEX</b>  | JESplex           | 7     | Command supports JESplex scope (yes or no)                                                                                                                                            |
| <b>AUX</b>      | Aux               | 3     | SDSFAUX dependent (yes or no)                                                                                                                                                         |
| <b>RELEASE</b>  | Release           | 10    | Release added                                                                                                                                                                         |
| <b>CLASS</b>    | Class             | 8     | SAF class                                                                                                                                                                             |
| <b>RESOURCE</b> | Resource          | 64    | SAF resource                                                                                                                                                                          |
| <b>ENV</b>      | Environment       | 40    | Valid environments                                                                                                                                                                    |
| <b>PARM</b>     | ParmAllowed       | 11    | Command supports additional parameters (YES or NO)                                                                                                                                    |
| <b>DEPEND</b>   | Dependency        | 127   | Configuration dependency                                                                                                                                                              |
| <b>NEW</b>      | New               | 3     | New command (YES or blank)                                                                                                                                                            |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Common Memory Objects panel (CMO)

The Common Memory Objects panel displays the 64-bit common storage (HVCOMM) memory objects. The CMO panel shows information about both owned and unowned 64-bit memory objects.

The special value of \*SYSTEM\* is used by the CMO panel when the memory object creator is assigned system ownership on the IARV64 REQUEST=GETCOMMON service. When the memory object-owning ASID is unknown, the CMO panel shows blanks. This typically occurs for system-owned memory objects or for those created very early in the IPL process.

Memory objects whose owning ASID has terminated have the value YES in the Orphan column.

## Command

Access the CMO panel with the **CMO** command from any SDSF panel, or by using the following commands and action characters:

- Use the JCM action character on the CSR panel to show only the orphaned memory objects for a specific job name, job ID, and ASID combination.
- Use the JCM action character on panels that show active job names (for example, DA or AS), which filters for a specific job name, job ID, and ASID combination.

## Panel title information

The title line contains the following information:

|                            |                   |                  |                 |
|----------------------------|-------------------|------------------|-----------------|
| SDSF COMMON MEMORY OBJECTS | SYS1              | SYS1             | LINE 1-17 (171) |
|                            |                   |                  |                 |
| System you are             |                   |                  |                 |
| logged on to               |                   |                  |                 |
|                            | Systems displayed | Lines displayed  | or first line   |
|                            | (MVS value or     | if 100,000       | or more         |
|                            | SYSNAME value)    |                  |                 |
|                            |                   | Total lines      |                 |
|                            |                   | (**** if more    |                 |
|                            |                   | than 99,999,999) |                 |

## CMO command action characters

The action characters for the CMO command are shown in [Table 65 on page 83](#).

| Table 65. CMO Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtyping.                                                     |

## Columns on the CMO panel

The columns on the CMDH panel are shown in [Table 66 on page 83](#).

| Table 66. Columns on the CMO Panel |                   |       |                                        |
|------------------------------------|-------------------|-------|----------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                            |
| JNAME                              | JOBNAME           | 8     | Command name. This is the fixed field. |
| START                              | Start-Address     | 17    | Starting address of object             |
| JES                                | End-Address       | 17    | Ending address of object               |
| JOBID                              | JobID             | 8     | Job ID                                 |
| ASIDX                              | ASIDX             | 5     | Address space ID (hexadecimal)         |

Table 66. Columns on the CMO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIZE</b>     | Size              | 6     | Object size (bytes)                                                                                                                                                                   |
| <b>KEY</b>      | Key               | 3     | Storage key                                                                                                                                                                           |
| <b>GUARD</b>    | Guard             | 10    | Guard area definition (NONE, DEFAULT, NONDEFAULT)                                                                                                                                     |
| <b>FPROT</b>    | FProt             | 5     | Fetch protected (yes or no)                                                                                                                                                           |
| <b>LARGE</b>    | Large             | 5     | Object backed by large pages (YES or NO)                                                                                                                                              |
| <b>CRDATE</b>   | CrDate            | 19    | Object creation timestamp                                                                                                                                                             |
| <b>CRRETADR</b> | PgmRetAddr        | 17    | Return address of program creating object                                                                                                                                             |
| <b>ORPHAN</b>   | Orphan            | 6     | Memory object orphaned (owner gone)                                                                                                                                                   |
| <b>REAL</b>     | Real              | 6     | Real frames backing object                                                                                                                                                            |
| <b>AUX</b>      | Aux               | 6     | Auxiliary storage slots backing object                                                                                                                                                |
| <b>RASN</b>     | RASN              | 4     | Creation requester ASID (hexadecimal)                                                                                                                                                 |
| <b>HASN</b>     | HASN              | 4     | Home ASID at creation (hexadecimal)                                                                                                                                                   |
| <b>PASN</b>     | PASN              | 4     | Primary ASID at creation (hexadecimal)                                                                                                                                                |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Health Check panel (CK)

The Health Checker (CK) panel allows you to display information from IBM Health Checker for z/OS. The panel shows the active checks. Checks that are currently running are highlighted.

### Command

Access the CK panel with the **CK** command from any SDSF panel.

### Parameters

The **CK** command without parameters displays checks that are not deleted. The parameters shown in [Table 67 on page 85](#) allow you to customize the CK display.

The parameter usage is as follows:

```
CK (category|E|EH|EM|EL|EN|D|ALL)
```

**CK** with no parameters displays checks that are not deleted.

| Table 67. CK Parameters |                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter               | Description                                                                                                                                                                                                   |
| <i>category</i>         | Shows only checks for that category. The value can include * (any string of characters) or % (any single character).                                                                                          |
| E                       | Displays all exception checks. You can add: <ul style="list-style-type: none"> <li>• H - exception high</li> <li>• M - exception medium</li> <li>• L - exception low</li> <li>• N - exception none</li> </ul> |
| D                       | Displays deleted checks.                                                                                                                                                                                      |
| ALL                     | Displays deleted as well as non-deleted checks.                                                                                                                                                               |

## Panel title information

The title line contains the following information:

|                           |            |                        |
|---------------------------|------------|------------------------|
| <b>SDSF HEALTH CHECKS</b> | <b>SY1</b> | <b>LINE 1-19 (207)</b> |
|                           |            |                        |
| Systems displayed         |            | Lines displayed        |
| (MVS value or             |            | or first line          |
| SYSNAME value)            |            | if 100,000             |
|                           |            | or more                |
|                           |            |                        |
|                           |            | Total lines            |
|                           |            | (**** if more          |
|                           |            | than 99,999,999)       |

## CK command action characters

The action characters for the CK command are shown in [Table 68 on page 85](#).

| Table 68. CK Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |
| =                                      | Repeat previous action character or overwrite.                                                      |
| A                                      | Activate.                                                                                           |
| D                                      | Display information.                                                                                |
| DD                                     | Display information, diagnostic form.                                                               |
| DL                                     | Display information, long form.                                                                     |
| DP                                     | Display policies.                                                                                   |

Table 68. CK Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DPO              | Display policies that are outdated and not applied.                                                                                                                                                                                                                                                                         |
| DS               | Display status.                                                                                                                                                                                                                                                                                                             |
| E                | Refresh.                                                                                                                                                                                                                                                                                                                    |
| H                | Deactivate.                                                                                                                                                                                                                                                                                                                 |
| L                | List history (display the CKH panel). The check must have a history (see the Log-Date-Time column).                                                                                                                                                                                                                         |
| P                | Delete.                                                                                                                                                                                                                                                                                                                     |
| PF               | Delete force: delete even if it is running.                                                                                                                                                                                                                                                                                 |
| R                | Run.                                                                                                                                                                                                                                                                                                                        |
| S                | Browse (access SDSF's Output Dataset Panel.)                                                                                                                                                                                                                                                                                |
| SB               | Browse using ISPF Browse.                                                                                                                                                                                                                                                                                                   |
| SBI              | Browse REXX input data set using ISPF browse.                                                                                                                                                                                                                                                                               |
| SBO              | Browse REXX output data set using ISPF browse.                                                                                                                                                                                                                                                                              |
| SE               | Browse using ISPF Edit.                                                                                                                                                                                                                                                                                                     |
| SEI              | Browse REXX input data set using ISPF edit.                                                                                                                                                                                                                                                                                 |
| SEO              | Browse REXX output data set using ISPF edit.                                                                                                                                                                                                                                                                                |
| SV               | ISPF view.                                                                                                                                                                                                                                                                                                                  |
| SVI              | Browse REXX input data set using ISPF view.                                                                                                                                                                                                                                                                                 |
| SVO              | Browse REXX output data set using ISPF view.                                                                                                                                                                                                                                                                                |
| U                | Remove all categories for the check.                                                                                                                                                                                                                                                                                        |
| X                | Print the check output. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul> |

## Columns on the CK panel

The columns on the CK panel are shown in Table 69 on page 86.

Table 69. Columns on the CK Panel

| Column name   | Title (Displayed) | Width | Description                                                                      |
|---------------|-------------------|-------|----------------------------------------------------------------------------------|
| <b>NAME</b>   | NAME              | 32    | Check name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>OWNER</b>  | CheckOwner        | 16    | Check owner                                                                      |
| <b>STATE</b>  | State             | 18    | Check state                                                                      |
| <b>STATUS</b> | Status            | 18    | Check status                                                                     |



Table 69. Columns on the CK Panel (continued)

| Column name                      | Title (Displayed)         | Width | Description                                                                                          |
|----------------------------------|---------------------------|-------|------------------------------------------------------------------------------------------------------|
| <b>RESULT</b>                    | Result                    | 6     | Result code from the last invocation of the check                                                    |
| <b>DIAG1</b>                     | Diag1                     | 8     | Diagnostic data from check, word 1                                                                   |
| <b>DIAG2</b>                     | Diag2                     | 8     | Diagnostic data from check, word 2                                                                   |
| <b>DIAGFROM</b>                  | DiagFrom                  | 8     | Source of the diagnostic data, words 1 and 2: ABEND, HCHECKER or CHECKRTN                            |
| <b>GLOBAL</b>                    | Global                    | 6     | Indicator of whether the check is global                                                             |
| <b>GLOBALSYS</b>                 | GlobalSys                 | 9     | Name of the system on which the global check is running                                              |
| <b>EXCOUNT</b>                   | ExcCount                  | 8     | Number of exceptions detected by this check on the last iteration                                    |
| <b>COUNT</b>                     | RunCount                  | 8     | Number of times the check has been invoked                                                           |
| <b>FAIL</b>                      | Fail                      | 4     | Number of times the check failed                                                                     |
| <b>SEVERITY</b>                  | Severity                  | 8     | Severity level of the check (HIGH, MEDIUM, LOW, NONE)                                                |
| <b>SEVCODE</b>                   | SevCode                   | 7     | Numeric severity level of the check                                                                  |
| <b>WTOTYPE</b>                   | WTOType                   | 9     | WTO type issued when an exception is found (EVENTUAL, CRITICAL, INFO, HC, NONE or a descriptor code) |
| <b>MODIFIED</b>                  | ModifiedBy                | 26    | How the check was modified                                                                           |
| <b>POLSTAT</b>                   | PolicyStatus              | 18    | Policy error status                                                                                  |
| <b>WTONUM</b>                    | WTONum                    | 6     | Number of WTOS issued by the check                                                                   |
| <b>NUMCAT</b>                    | NumCat                    | 6     | Number of categories in which the check is defined                                                   |
| <b>CATEGORY</b>                  | Category                  | 16    | Category name. Users can view the complete set of categories by typing + alone in this column.       |
| <b>CATEGORY2<br/>-CATEGORY4</b>  | Category2 –<br>Category4  | 16    | Category names 2 to 4.                                                                               |
| <b>CATEGORY5<br/>-CATEGORY16</b> | Category5 –<br>Category16 | 16    | Category names 5 to 16. By default, these appear only in the alternate field list.                   |
| <b>EXITNAME</b>                  | ExitName                  | 8     | Exit modname that added the check                                                                    |
| <b>MODNAME</b>                   | ModName                   | 8     | Check module name                                                                                    |
| <b>MSGNAME</b>                   | MsgName                   | 8     | Message load module name                                                                             |
| <b>USERDATE</b>                  | UserDate                  | 8     | Current date of the check                                                                            |
| <b>DEFDATE</b>                   | DefDate                   | 8     | Default date of the check                                                                            |
| <b>DEBUG</b>                     | Debug                     | 5     | Debug mode indicator                                                                                 |
| <b>DATEE</b>                     | Start-Date-Time           | 19    | Date and time the check last started (YYYY.DDD HH:MM:SS)                                             |
| <b>INTERVAL</b>                  | Interval                  | 8     | Time interval at which the check runs (HHH:MM)                                                       |

Table 69. Columns on the CK Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                            |
|------------------|-------------------|-------|----------------------------------------------------------------------------------------|
| <b>SCHDATE</b>   | NextSch-Date-Time | 19    | Date and time the check is next scheduled to run (YYYY.DDD HH:MM:SS)                   |
| <b>SCHINT</b>    | NextSch-Int       | 11    | Time remaining to the date and time the check is next scheduled to run, in HHHHH:MM:SS |
| <b>LOGDATE</b>   | Log-Date-Time     | 19    | Date and time of the last successful write to System Logger                            |
| <b>DELDATE</b>   | Deleted-Date-Time | 19    | Date and time the check was deleted                                                    |
| <b>PROCNAME</b>  | ProcName          | 8     | Health Checker procedure name                                                          |
| <b>STCID</b>     | TaskID            | 8     | Health Checker started task ID                                                         |
| <b>REASON</b>    | Reason            | 126   | Description of the reason for check                                                    |
| <b>UPDREAS</b>   | UpdateReason      | 48    | Description of updates to the check. The width can be increased to 126.                |
| <b>PARMLEN</b>   | ParmLen           | 7     | Length of the check parameters                                                         |
| <b>PARM</b>      | Parameters        | 32    | Check parameters                                                                       |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                          |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                            |
| <b>EINTERVAL</b> | EInterval         | 9     | Interval at which the check will run when it has raised an exception                   |
| <b>EXECNAME</b>  | ExecName          | 8     | Name of the exec to run                                                                |
| <b>LOCALE</b>    | Locale            | 8     | Where the check is running                                                             |
| <b>ORIGIN</b>    | Origin            | 8     | Origin of the check                                                                    |
| <b>VERBOSE</b>   | Verbose           | 7     | Verbose mode for the check                                                             |
| <b>REXXIN</b>    | RexxIn            | 44    | REXX input data set name                                                               |
| <b>REXXOUT</b>   | RexxOut           | 44    | REXX output data set name                                                              |
| <b>LOGSTREAM</b> | LogStream         | 26    | Name of the logstream used to record this check                                        |
| <b>REXXHLQ</b>   | RexxHLQ           | 8     | High level qualifier for REXX data sets                                                |

## Health check status

The status of a specific check can be determined by entering the DL action against the row on the CK panel to issue the associated z/OS operator command, or by reviewing the Status column on the SDSF CK or CKH panel for one of the following values:

### INACTIVE

The check is not active.

### PARAMETER ERROR

A user-specified value for this check is in error.

### ENV N/A

This check does not apply in the current system configuration.

### DATA LOST

Some messages issued for this check have been lost due to a shortage of buffer storage.

The result of the check either produced no exceptions or an exception with a severity level of NONE. Note that for historical checks (shown using the SDSF L action on the CK display), a status of SUCCESSFUL can include checks that produced a result of ENV N/A.

The result of the check produced an exception with a low severity level.

The result of the check produced an exception with a medium severity level.

The result of the check produced an exception with a high severity level.

## Common Storage Subpool panel (CS)

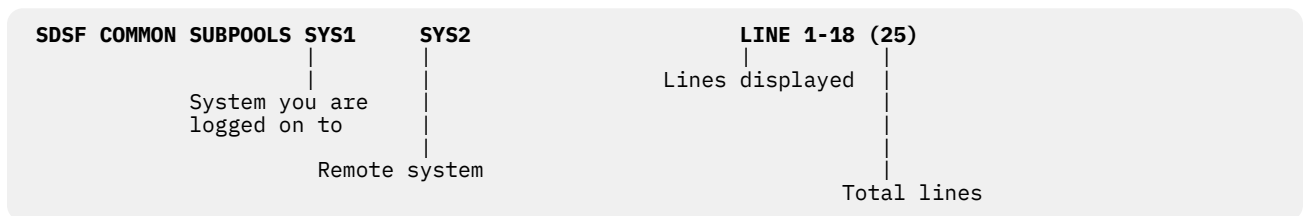
The Common Storage Subpool panel (CS) allows you to view common storage summary usage by subpool and key.

## Command

Access the CS panel with the **CS** command from any SDSF panel.

### Panel title information

The title line contains the following information:



## CS command action characters

The action characters for the CS command are shown in Table 70 on page 89.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| L                | Show details by subpool.                                                                            |

### Columns on the CS panel

The columns on the CS panel are shown in Table 71 on page 90.

Table 71. Columns on the CS Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBPOOL</b>   | SP                | 2     | Subpool number. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                  |
| <b>KEY</b>       | Key               | 3     | Subpool key                                                                                                                                                                           |
| <b>BBLKS</b>     | BelowBlks         | 13    | Blocks below 16MB                                                                                                                                                                     |
| <b>BALLOC</b>    | BelowAlloc        | 13    | Allocated bytes below 16MB                                                                                                                                                            |
| <b>BUSED</b>     | BelowUsed         | 13    | Used bytes below 16MB                                                                                                                                                                 |
| <b>BFREE</b>     | BelowFree         | 13    | Free bytes below 16MB                                                                                                                                                                 |
| <b>BORPHAN</b>   | BelowOrphan       | 13    | Orphaned below 16MB                                                                                                                                                                   |
| <b>ABLKS</b>     | AboveBlks         | 13    | Blocks above 16MB                                                                                                                                                                     |
| <b>AALLOC</b>    | AboveAlloc        | 13    | Allocated bytes above 16MB                                                                                                                                                            |
| <b>AUSED</b>     | AboveUsed         | 13    | Used bytes above 16MB                                                                                                                                                                 |
| <b>AFREE</b>     | AboveFree         | 13    | Free bytes above 16MB                                                                                                                                                                 |
| <b>AORPHAN</b>   | AboveOrphan       | 13    | Orphaned above 16MB                                                                                                                                                                   |
| <b>TYPE</b>      | Type              | 4     | Type SQA/CSA                                                                                                                                                                          |
| <b>FPROT</b>     | FProt             | 5     | Fetch protected (yes or no)                                                                                                                                                           |
| <b>FIXED</b>     | Fix               | 4     | Fixed (yes, no, or DREF)                                                                                                                                                              |
| <b>SELECTKEY</b> | SelectKey         | 9     | Select key                                                                                                                                                                            |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Common Storage Remaining panel (CSR)

The Common Storage Remaining (CSR) panel allows you to list all addresses with common storage that were not released at the end of the job.

### Command

Access the CSR panel with the **CSR** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|                                  |                                                      |                                                           |
|----------------------------------|------------------------------------------------------|-----------------------------------------------------------|
| <b>SDSF COMMON REMAINING SY1</b> | <b>SY1*</b>                                          | <b>LINE 1-12 (12)</b>                                     |
| System you are<br>logged on to   | Systems displayed<br>(MVS value or<br>SYNNAME value) | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                  |                                                      | Total lines<br>(**** if more<br>than 99,999,999)          |

## CSR command action characters

The action characters for the CSR command are shown in [Table 72 on page 91](#).

| Table 72. CSR Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overwrite.                                                      |
| JCM                                     | List job common memory objects.                                                                     |
| JCS                                     | Display information about all allocated blocks of common storage for a selected job name.           |

## Columns on the CSR panel

The columns on the CSR panel are shown in [Table 73 on page 91](#).

| Table 73. Columns on the CSR Panel |                   |       |                                                                                |
|------------------------------------|-------------------|-------|--------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                    |
| <b>JNAME</b>                       | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>JOBID</b>                       | JobID             | 8     | Job identifier                                                                 |
| <b>ASID</b>                        | ASID              | 5     | Address space identifier                                                       |
| <b>ASIDX</b>                       | ASIDX             | 5     | Address space identifier (hexadecimal)                                         |
| <b>CSA</b>                         | CSA               | 5     | CSA not released (bytes)                                                       |
| <b>CSAPCT</b>                      | CSA%              | 7     | CSA percentage not released                                                    |
| <b>SQA</b>                         | SQA               | 5     | SQA not released (bytes)                                                       |
| <b>SQAPCT</b>                      | SQA%              | 7     | SQA percentage not released                                                    |
| <b>ECSA</b>                        | ECSA              | 5     | ECSA not released (bytes)                                                      |
| <b>ECSAPCT</b>                     | ECSA%             | 7     | ECSA percentage not released                                                   |
| <b>ESQA</b>                        | ESQA              | 5     | ESQA not released (bytes)                                                      |

Table 73. Columns on the CSR Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ESQAPCT</b>  | ESQA%             | 7     | ESQA percentage not released                                                                                                                                                          |
| <b>DATE</b>     | Date              | 19    | Timestamp storage not released                                                                                                                                                        |
| <b>SCSAPCT</b>  | SCSA%             | 5     | Current system CSA utilization                                                                                                                                                        |
| <b>SECSAPCT</b> | SECSA%            | 7     | Current system ECSA utilization                                                                                                                                                       |
| <b>SSQAPCT</b>  | SSQA%             | 5     | Current system SQA utilization                                                                                                                                                        |
| <b>SESQAPCT</b> | SESQA%            | 6     | Current system ESQA utilization                                                                                                                                                       |
| <b>AUXPCT</b>   | Aux%              | 4     | Current auxiliary storage utilization                                                                                                                                                 |
| <b>REALAFC</b>  | RealAFC           | 8     | Current real storage available frame count                                                                                                                                            |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>HVCOM</b>    | HVComUsed         | 9     | 64-bit common not released (bytes)                                                                                                                                                    |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Display Active Users panel (DA)

The Display Active Users (DA) panel allows authorized users to display information about jobs, users, started tasks, and initiators that are active in the sysplex. It also shows system data, such as CPU usage and paging information.

**Note:** Some of the values on the DA panel, such as CPU% and SIO, are approximate. For detailed and precise performance monitoring, use RMF.

### Command

Access the DA panel with the **DA** command from any SDSF panel.

### Parameters

The parameters shown in [Table 74 on page 93](#) allow you to customize the DA display as follows:

- Types of address spaces: jobs (JOB), TSO users (TSU), started tasks (STC), or initiators (INIT).
- Positions of address spaces: swapped in (IN), swapped out (OUT), in transition (TRANS), or ready (READY).

The parameter usage is as follows:

- **Position** and **Type** parameters include those address spaces.
- **Only** parameters limit the display to those types or positions. Use only one parameter from this column.
- **No** parameters exclude those types or positions.
- **All** parameters show all address spaces, or all types (ALLT) or positions (ALLP). They cannot be used with other parameters.

For example, the following command displays only address spaces that are swapped in (OIN), not including TSO users (NOTSU):

**Note:** The maximum number of parameters is four. The information displayed may also be limited by your authorization, and by settings for filters such as FILTER, PREFIX, and SYSNAME. When parameters conflict, the last one is used.

*Table 74. DA Parameters*

| Position | Type | Only   | No      | All  |
|----------|------|--------|---------|------|
| IN       | JOB  | OJOB   | NOJOB   | ALL  |
| OUT      | TSU  | OTSU   | NOTSU   | ALLT |
| TRANS    | STC  | OSTC   | NOSTC   | ALLP |
| READY    | INIT | OINIT  | NOINIT  |      |
|          |      | OIN    | NOIN    |      |
|          |      | OOUT   | NOOUT   |      |
|          |      | OTRANS | NOTRANS |      |
|          |      | OREADY | NOREADY |      |

### Panel title information

The title line contains the following information:

| SDSF DA                                              | IP01                                                 | IP*                         | PAG 0 | CPU/L/I                                                               | 26/ 26/ 0 | LINE 1-20 (20)                                            |
|------------------------------------------------------|------------------------------------------------------|-----------------------------|-------|-----------------------------------------------------------------------|-----------|-----------------------------------------------------------|
| System ID<br>of system<br>you are<br>logged<br>on to |                                                      | Total demand<br>paging rate |       | Percentage of time<br>the CPU is busy,<br>MVS, LPAR and zIIP<br>views |           | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                                      | Systems displayed<br>(MVS value or<br>SYSNAME value) |                             |       |                                                                       |           | Total lines<br>(**** if more<br>than 99,999,999)          |

SIO, if shown, is the total system start I/Os per second.  
PAG, SIO, and CPU values are for the system you are logged on to.

Note that if the custom property `Panel.DA.ShowTitlezAAPUtil` is in effect, the title line shows zAAP utilization instead of zIIP utilization, as shown in the following figure. For more information, refer to [z/OS SDSF Operation and Customization](#).

| SDSF | DA | IP01 | IP* | PAG | 0 | CPU/L/Z | 26/        | 26/ | 0 | LINE | 1-20 | (20) |
|------|----|------|-----|-----|---|---------|------------|-----|---|------|------|------|
|      |    |      |     |     |   | zAAP    | views----- |     |   |      |      |      |

For both versions of the title line, the I or Z in the title line and its corresponding value are only displayed when at least one zIIP or zAAP is defined on the local system.

## DA command action characters

The action characters for the DA command are shown in Table 75 on page 94.

Table 75. DA Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                        |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                       |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                    |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                     |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ?                | Display job data sets (access the Job Data Set panel).                                                                                                                                                                                                                                                                                                                                                                                     |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                              |
| A                | Release a held job.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| C                | Cancel a job. For JES3, also process output data sets. You can add: <ul style="list-style-type: none"> <li>• A - Job that is defined to Automatic Restart Manager (ARM)</li> <li>• D - And take a dump</li> <li>• DA - Job that is defined to ARM, and take a dump</li> <li>• DP - And take a dump but do not purge the job's output (JES3 only).</li> <li>• P - And print data sets ready for printing (JES3 only).</li> </ul>            |
| D                | Display job information in the log. You can add: <ul style="list-style-type: none"> <li>• E - Line, page, record and card counts (JES3 only).</li> <li>• L - Long form</li> <li>• SD - DDNAMES of spool data sets that contain data (JES3 only).</li> <li>• SH - DDNAMES of spool data sets in spool hold that contain data (JES3 only).</li> <li>• SP - Spool partition name (JES3 only).</li> <li>• X - Extended (JES3 only).</li> </ul> |
| E                | Process a job again. You can add (JES2 only): <ul style="list-style-type: none"> <li>• C - Cancel and hold the job prior to execution.</li> <li>• S - After the current step completes.</li> <li>• SH - After the current step completes, restart and hold.</li> </ul>                                                                                                                                                                     |
| FJ               | Fetch by job name. Requires the SDSF MFM feature to be active.                                                                                                                                                                                                                                                                                                                                                                             |
| FP               | List fetch paths by job name. Requires the SDSF MFM feature to be active.                                                                                                                                                                                                                                                                                                                                                                  |



Table 75. DA Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H                | Hold a job.                                                                                                                                                                                                                                                                                                         |
| JC               | Display the loaded modules for an address space. (Access the Job Modules panel.)                                                                                                                                                                                                                                    |
| JCM              | Display common memory used by the address space.                                                                                                                                                                                                                                                                    |
| JCS              | Display information about all allocated blocks of common storage for a selected job name. (Access the Job Common Storage panel.)                                                                                                                                                                                    |
| JD               | Display the job's use of devices. (Access the Job Device panel.)                                                                                                                                                                                                                                                    |
| JDCC             | Display CF connections for a job. (Access the CF Connections panel.)                                                                                                                                                                                                                                                |
| JDD              | Display the data set allocations associated with a job. (Access the Job DDName panel.)                                                                                                                                                                                                                              |
| JDNA             | Display the job's TCP/IP activity. (Access the Network Activity panel.)                                                                                                                                                                                                                                             |
| JM               | Display the job's use of memory. (Access the Job Memory panel.)                                                                                                                                                                                                                                                     |
| JMO              | Display the memory objects owned by the job. (Access the Job Memory Objects Panel.)                                                                                                                                                                                                                                 |
| JS               | Display the job steps. (Access the Job Step panel.)                                                                                                                                                                                                                                                                 |
| JT               | List the TCBs for an address space. (Access the Job Tasks panel.)                                                                                                                                                                                                                                                   |
| JY               | Display reasons for delay. (Access the Job Delay panel.)                                                                                                                                                                                                                                                            |
| K                | Cancel an address space using the MVS CANCEL command.                                                                                                                                                                                                                                                               |
| KD               | Cancel an address space and take a dump using MVS CANCEL.                                                                                                                                                                                                                                                           |
| L                | List output status of a job in the log. For JES3, this is job output in the writer queue. You can add: <ul style="list-style-type: none"> <li>• B - SNA/NJE output (JES3 only)</li> <li>• H - Output on the hold queue (JES3 only)</li> <li>• L - Long form</li> <li>• T - TCP/IP job output (JES3 only)</li> </ul> |
| LE               | List enclaves.                                                                                                                                                                                                                                                                                                      |
| LU               | List user ID information. IBM Security Server (RACF) must be active.                                                                                                                                                                                                                                                |
| N                | Invokes the ENQ panel to display data sets for the selected address space. Shows locally-held enqueues even when the job is running on a remote system.                                                                                                                                                             |

| <i>Table 75. DA Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Action Character</b>                                   | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P                                                         | Cancel a job and purge its output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PP                                                        | Cancel a protected job and purge its output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| R                                                         | Reset and resume a job. (RMF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RQ                                                        | Reset and quiesce a job. (RMF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| S                                                         | Display the data sets for the job. You can add: <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the job starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| SA                                                        | Allocate data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SJA                                                       | Allocate job JCL data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| W                                                         | Cause job and message logs to spin. (RMF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| X                                                         | Print output data sets. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul>                                                                                                                                                                               |
| Y                                                         | Stop a started task (system stop). (RMF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Z                                                         | Cancel an address space using the MVS FORCE command.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ?                                                         | Display a list of data sets for a job. (Access the Job Data Set panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Columns on the DA panel

The columns on the DA panel are shown in [Table 76 on page 96](#).

*Table 76. Columns on the DA Panel*

| <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                                             |
|--------------------|--------------------------|--------------|--------------------------------------------------------------------------------|
| <b>JNAME</b>       | JOBNAME                  | 8            | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STEPN</b>       | StepName                 | 8            | Job step name (TSO logon procedure name for TSO users)                         |
| <b>PROCS</b>       | ProcStep                 | 8            | Procedure step name (terminal ID for TSO users)                                |
| <b>JOBID</b>       | JobID                    | 8            | JES job ID                                                                     |

Table 76. Columns on the DA Panel (continued)

| Column Name                    | Title (Displayed) | Width  | Description                                                                                                                                                                                         |
|--------------------------------|-------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OWNERID</b>                 | Owner             | 8      | User ID of job owner, or default values of +++++++<br>+ or ????????, if user ID not defined to RACF®                                                                                                |
| <b>JCLASS</b>                  | C                 | 1 or 8 | JES input class at the time the job was selected for execution. Default width expands to 8 if there are long class names in the MAS.                                                                |
| <b>POS</b>                     | Pos               | 3      | Address space position                                                                                                                                                                              |
| <b>DP</b>                      | DP                | 2      | Address space dispatching priority in hexadecimal                                                                                                                                                   |
| <b>REAL</b>                    | Real              | 4      | Current real storage usage in frames                                                                                                                                                                |
| <b>PAGING</b>                  | Paging            | 6      | Demand paging rate for address space                                                                                                                                                                |
| <b>EXCPRT</b>                  | SIO               | 6      | EXCP rate in EXCPs per second for address space. The value is approximate and is derived from this calculation: the job delta EXCP count (from RMF or the ASCB) divided by the total time interval. |
| <b>CPUPR</b>                   | CPU% <sup>2</sup> | 6      | Percent of CPU time consumed by and on behalf of the address space during the most recent interval measured                                                                                         |
| <b>ASID</b>                    | ASID              | 4      | Address space identifier                                                                                                                                                                            |
| <b>ASIDX</b>                   | ASIDX             | 5      | Address space identifier in hexadecimal                                                                                                                                                             |
| <b>EXCP</b>                    | EXCP-Cnt          | 9      | Accumulated EXCP count for the current job step for the address space. Uses hexadecimal scaling.                                                                                                    |
| <b>CPU</b>                     | CPU-Time          | 10     | Accumulated CPU time consumed by and on behalf of the address space, for the current job step, in seconds                                                                                           |
| <b>SWAPR</b>                   | SR                | 2      | Swap out reason code                                                                                                                                                                                |
| <b>STATUS</b>                  | Status            | 6      | JES job status                                                                                                                                                                                      |
| <b>SYSNAME</b> <sup>RMF</sup>  | SysName           | 8      | System name where job is executing                                                                                                                                                                  |
| <b>SPAGING</b> <sup>RMF</sup>  | SPag              | 4      | System demand paging rate for system that the job is executing on. The value is the same for all rows for a system.                                                                                 |
| <b>SCPU</b> <sup>RMF</sup>     | SCPU%             | 5      | System CPU percentage for system that is processing the job. The value is the same for all rows for a system.                                                                                       |
| <b>WORKLOAD</b> <sup>RMF</sup> | Workload          | 8      | Workload name                                                                                                                                                                                       |
| <b>SRVCLASS</b> <sup>RMF</sup> | SrvClass          | 8      | Service class name                                                                                                                                                                                  |
| <b>PERIOD</b> <sup>RMF</sup>   | SP                | 2      | Service class period                                                                                                                                                                                |
| <b>RESGROUP</b> <sup>RMF</sup> | ResGroup          | 8      | Resource group name                                                                                                                                                                                 |
| <b>SERVER</b> <sup>RMF</sup>   | Server            | 8      | Server indicator (resource goals are not being honored)                                                                                                                                             |
| <b>QUIESCE</b> <sup>RMF</sup>  | Quiesce           | 7      | Quiesce indicator (address space is quiesced)                                                                                                                                                       |

Table 76. Columns on the DA Panel (continued)

| Column Name                    | Title (Displayed) | Width | Description                                                                                                                                                                                                                          |
|--------------------------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ECPU</b> <sup>RMF</sup>     | ECPU-Time         | 10    | Total CPU time consumed by and within the address space, for the current job step, in seconds                                                                                                                                        |
| <b>ECPUPR</b> <sup>RMF</sup>   | ECPU%             | 6     | CPU usage by and within the address space                                                                                                                                                                                            |
| <b>CPUCRIT</b> <sup>RMF</sup>  | CPUCrit           | 7     | Current address space CPU-protection                                                                                                                                                                                                 |
| <b>STORCRIT</b> <sup>RMF</sup> | StorCrit          | 8     | Current address space storage protection                                                                                                                                                                                             |
| <b>RPTCLASS</b> <sup>RMF</sup> | RptClass          | 8     | Report class                                                                                                                                                                                                                         |
| <b>MEMLIMIT</b> <sup>RMF</sup> | MemLimit          | 8     | Memory limit for 64-bit storage objects. When an address space has no MEMLIMIT, this column displays the character string NOLIMIT. However, filtering and sorting on this column uses the underlying binary numerical value 16383PB. |
| <b>TRANACT</b> <sup>RMF</sup>  | Tran-Act          | 10    | Elapsed time the transaction has been active                                                                                                                                                                                         |
| <b>TRANRES</b> <sup>RMF</sup>  | Tran-Res          | 10    | Elapsed time the transaction was swapped in                                                                                                                                                                                          |
| <b>SPIN</b> <sup>RMF</sup>     | Spin              | 4     | Indicator of whether job can be spun                                                                                                                                                                                                 |
| <b>SECLABEL</b>                | SecLabel          | 8     | Security label of the address space                                                                                                                                                                                                  |
| <b>GCPTIME</b> <sup>RMF</sup>  | GCP-Time          | 8     | Accumulated general processor service time, in seconds                                                                                                                                                                               |
| <b>ZAAPTIME</b> <sup>RMF</sup> | zAAP-Time         | 9     | Accumulated IBM zEnterprise Application Assist Processor (zAAP) service time, in seconds                                                                                                                                             |
| <b>ZAAPCPTM</b> <sup>RMF</sup> | zACP-Time         | 9     | CPU time consumed on general processors by work that was eligible for a zAAP, in seconds                                                                                                                                             |
| <b>GCPUSE</b> <sup>RMF</sup>   | GCP-Use%          | 8     | Percent of the total general processor time used by the address space in the most recent interval                                                                                                                                    |
| <b>ZAAPUSE</b> <sup>RMF</sup>  | zAAP-Use%         | 9     | Percent of the total zAAP time used by the address space in the most recent interval                                                                                                                                                 |
| <b>SZAAP</b> <sup>RMF</sup>    | SzAAP%            | 6     | zAAP view of CPU use for the system, in the most recent interval. The value is the same for all rows for a system.                                                                                                                   |
| <b>SZIIP</b> <sup>RMF</sup>    | SzIIP%            | 6     | IBM z Integrated Information Processor (zIIP) utilization for the system that is processing the job. This is a system value and so is the same for all rows for a system.                                                            |
| <b>PROMOTED</b> <sup>RMF</sup> | Promoted          | 8     | Indicates whether the address space is currently promoted due to a chronic resource contention                                                                                                                                       |
| <b>JTYPE</b>                   | Type <sup>1</sup> | 4     | Type of address space                                                                                                                                                                                                                |
| <b>ZAAPNTIM</b> <sup>RMF</sup> | zAAP-NTime        | 10    | Normalized zAAP service time, in seconds                                                                                                                                                                                             |
| <b>ZIIPTIME</b> <sup>RMF</sup> | zIIP-Time         | 9     | CPU time consumed on zIIPs, in seconds                                                                                                                                                                                               |
| <b>ZIIPCPTM</b> <sup>RMF</sup> | zICP-Time         | 9     | CPU time consumed on general processors by work that was eligible for a zIIP, in seconds                                                                                                                                             |
| <b>ZIIPNTIM</b> <sup>RMF</sup> | zIIP-NTime        | 10    | Normalized zIIP service time, in seconds                                                                                                                                                                                             |

Table 76. Columns on the DA Panel (continued)

| Column Name                     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ZIIPUSE</b> <sup>RMF</sup>   | zIIP-Use%         | 9     | Percent of the total zIIP time used by the address space in the most recent interval                                                                                                  |
| <b>SLCPU</b> <sup>RMF</sup>     | SLCPU%            | 6     | Percentage of time the LPAR is busy for the system, in the most recent interval. The value for SLCPU% is the same for all rows for a system.                                          |
| <b>IOPRIOGRP</b> <sup>RMF</sup> | IOPrioGrp         | 9     | WLM I/O priority group                                                                                                                                                                |
| <b>JOB CORR</b>                 | JobCorrelator     | 32    | User portion of the job correlator (JES2 only)                                                                                                                                        |
| <b>TRESGROUP</b>                | TenantResGroup    | 14    | Tenant resource group indicator (YES or NO, RMF)                                                                                                                                      |
| <b>ESRB</b> <sup>HSF</sup>      | ESRB-Time         | 9     | Enclave SRB time                                                                                                                                                                      |
| <b>CPULIMIT</b> <sup>HSF</sup>  | CPU-Limit         | 9     | CPU time limit                                                                                                                                                                        |
| <b>REUS</b> <sup>HSF</sup>      | Reus              | 4     | Reusable address space (YES or NO)                                                                                                                                                    |
| <b>SYSLEVEL</b> <sup>HSF</sup>  | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>XCFGROUP</b>                 | XCFGroup          | 8     | JES MAS XCF group name                                                                                                                                                                |
| <b>SSNAME</b>                   | SSName            | 6     | Creating subsystem name                                                                                                                                                               |
| <b>PAG AUX</b> <sup>RMF</sup>   | PageAux           | 7     | Paging rate (auxiliary storage only)                                                                                                                                                  |
| <b>STDATE</b>                   | StartDate         | 19    | Address space start date                                                                                                                                                              |
| <b>ELAPSED</b>                  | ElapsedTime       | 12    | Address space elapsed time in ddd:hh:mm:ss format                                                                                                                                     |
| <b>OUTTIME</b>                  | OutTime           | 12    | The duration since the last time the address space was swapped in, in ddd:hh:mm:ss format                                                                                             |
| <b>BOOSTENABLED</b>             | BoostEnabled      | 12    | Address space has passed the WLM classification rules that make it eligible for recovery process (RP) boost (YES or NO)                                                               |
| <b>ZCX</b>                      | zCX               | 3     | zCX address space (YES or NO)                                                                                                                                                         |
| <b>JNUM</b>                     | JNum <sup>1</sup> | 6     | JES job number                                                                                                                                                                        |
| <b>ISFEND</b>                   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. Not included in the default field list.
2. SDSF calculates the value for the CPU% column. It is the ratio between the CPU time used by one job and the CPU time used by all jobs, in the interval between times that the user presses Enter.
3. Columns with information for zAAPs and zIIPs are shown only if at least one of the appropriate specialized processors (zAAP or zIIP) has been configured for a system that is within the scope of the systems being shown on the panel. Note that changing the systems being shown (with the SYSNAME or FILTER commands) once the DA panel is displayed does not affect whether SDSF includes or omits the column.
4. <sup>HSF</sup> indicates the column requires the data gatherer running in SDSFAUX.

## Address space positions

The address space positions are shown in [Table 77 on page 100](#).

| <i>Table 77. Address Space Positions</i> |                           |
|------------------------------------------|---------------------------|
| When RMF is installed                    | When RMF is not installed |
| IN In storage                            | IN Swapped in             |
| PR Privileged                            | OUT Swapped out           |
| NS Non-swappable                         | N/S Non-swappable         |
| WM Wait queue/MSO                        | < - > In transition       |
| WT Wait queue/terminal wait              |                           |
| WL Wait queue/long wait                  |                           |
| WO Wait queue/other                      |                           |
| DL Out queue/delayed                     |                           |
| LO Logically swapped out                 |                           |
| OT Swapped out and ready                 |                           |
| >> Transitioning out                     |                           |
| << Transitioning in                      |                           |

## Swap-out reason codes

The swap-out reason codes are shown in [Table 78 on page 100](#).

| <i>Table 78. Swap-Out Reason Codes</i> |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Code                                   | Description                                                |
| AW                                     | APPC WAIT (swapped out, because waiting for APPC services) |
| DW                                     | Detected wait                                              |
| EX                                     | CAP exchange                                               |
| IC                                     | Improve central storage usage                              |
| IP                                     | Improve system paging rate                                 |
| IW                                     | OMVS input wait                                            |
| LW                                     | Long wait                                                  |
| MR                                     | Make room for a user who has been swapped out too long     |
| NQ                                     | CAP enqueue                                                |
| RQ                                     | Request swap                                               |
| RS                                     | Central storage shortage                                   |
| SR                                     | In-real swap                                               |
| TI                                     | Terminal input                                             |
| TO                                     | Terminal output                                            |
| TS                                     | Transition swap                                            |

| Table 78. Swap-Out Reason Codes (continued) |                            |
|---------------------------------------------|----------------------------|
| Code                                        | Description                |
| US                                          | CAP uni-swap               |
| XS                                          | Auxiliary storage shortage |
| 00                                          | Unknown                    |

## Server values

The server values are shown in [Table 79 on page 101](#).

| Table 79. Server Values |                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------|
| Value                   | Description                                                                                                |
| Yes                     | Address space is a server                                                                                  |
| No                      | Address space is not a server                                                                              |
| TEMP-AFF                | Address space is a server with affinities                                                                  |
| N/A                     | Address space is not managed based on transaction response times (z/OS V1R12 and below)                    |
| EXEMPTED                | Address space is not managed based on response times (z/OS V1R13 and above)                                |
| REG-SERV                | Address space is managed towards its region goals and completed transactions are used to manage the server |

## CPU title line fields

You may see one, two or three values depending on your configuration. If three values are shown, the label preceding the values indicates the order. All three values are obtained from RMF.

### MVS view

The first value, or the only value if just one is present. It is the best indicator of a CPU bottleneck. It is calculated as:

```
CPU-time
----- * 100
online-time
```

### LPAR view

The second value, if present. It takes into account several states related to PR/SM. A value of \*\*\* indicates that RMF Monitor I CPU Report is not active.

### zAAP view

The third value, if present. It is calculated as:

```
SUM(zAAP partition dispatch time)
----- x 100
SUM(zAAP online time)
```

It requires that a zAAP is defined and RMF is being used.

The guidelines for CPU-busy vary. For example, in a batch environment, a value of 100 may not indicate a problem. For details, see the discussion of CPU Activity in [z/OS Resource Measurement Facility Report Analysis](#).

The values on the title line are for the system you are logged on to. CPU utilization for other systems is displayed in the SCPU% and SzAAP% columns.

## CPU% column

This value is calculated by SDSF. It is calculated as:

$$\frac{\text{CPU time used by the job}}{\text{CPU time used by all jobs}} \times \text{CPU-busy}$$

CPU times are for the interval. That is, between times the user presses Enter.

By default, CPU-busy is the MVS value, though it may have been changed to the LPAR value for your installation.

This value is approximate.

## GCPU-Use%, zAAP-Use and zIIP-Use% columns

GCPU-Use%, zAAP-Use and zIIP-Use% columns are calculated by SDSF as follows:

$$\frac{\text{general CPU, zAAP or zIIP time used by the job}}{\text{general CPU, zAAP or zIIP time used by all jobs}} \times 100$$

Unlike the value for the CPU% column, these values are not normalized (multiplied by CPU-busy).

The values are approximate.

The times are for the interval. That is, between times the user presses Enter.

## CPU-Time and ECPU-Time columns

SDSF obtains the values for these columns from RMF, as follows:

```
CPU-Time = ASCBEJST + ASCBSRBT + ASSBASST (source field R791TCPU)
ECPU-Time = ASCBEJST + ASCBSRBT + ASSBPHTM (source field R791TCPC)
```

where:

- ASCBEJST is elapsed job step time.
- ASCBSRBT is accumulated SRB time.
- ASSBASST is the CPU time consumed by preemptible class SRBs running on behalf of this address space, in milliseconds.
- ASSBPHTM is the CPU time consumed by preemptible class SRBs running in this address space, in milliseconds (threads plus enclaves)

## GCP-Time, zAAP-Time and zACP-Time columns

GCP-Time, zAAP-Time and zACP-Time are not normalized. SDSF obtains the values for these columns from RMF:

```
GCP-Time source field is R791TCPU
zAAP-Time source field is R791TIFA
zACP-Time source field is R791TIFC
```

zAAP-NTime is normalized to the slower CP, to facilitate comparing values. The normalization uses fields from RMF, as follows:

```
R791TIFA x R791NFFI
```



## zIIP-Time and zICP-Time columns

zIIP-Time and zICP-Time are not normalized. SDSF obtains the values for these columns from RMF:

```
zIIP-Time source field is R791TSUP
zICP-Time source field is R791TSUC
zIIP-NTime source field is R791PHTI
```

zIIP-NTime is normalized to the slower CP, to facilitate comparing values. The normalization uses fields from RMF, as follows:

```
R791TSUP x R791NFFS

256
```

## SIO fields

Title line (if present): The value for SIO is calculated as:

```
total SIOs

total time interval
```

Column: The value is calculated as:

```
job delta EXCP count (from RMF or the ASCB)

total time interval
```

This value is approximate.

## Scaling and abbreviations for values

When a value is too large to fit in the available space, SDSF scales the value using the following abbreviations:

- K Kilo (hexadecimal scaling)
- T Thousands (decimal scaling) or Tera (hexadecimal scaling)
- M Millions (decimal scaling) or Mega (hexadecimal scaling)
- B Billions (decimal scaling)
- G Giga (hexadecimal scaling)
- P Peta (hexadecimal scaling)
- KB Kilobytes
- MB Megabytes
- GB Gigabytes
- TB Terabytes
- PB Petabytes

Changing the width of the column, with the ARRANGE command, affects the scaling.

When filtering on columns that use binary abbreviations (KB, MB, and so on) you can enter either a number or a number with the abbreviation. For example, 4096 and 4KB are both valid with entering a filter, though SDSF always displays the value as 4KB.

## Overtypable fields

The following fields can be overtyped by authorized users:

- SrvClass - Service class name
- Quiesce - Quiesce indicator (QUIESCE or RESUME)

Overtyping these fields causes an **MVS RESET** command to be issued. SDSF appends an RO command if the MVS command is targeted for another system.

## Dashboard panel (DASH)

The Dashboard panel (DASH) displays system configuration information along with utilization and top consumers of various system resources. Resources monitored include spool usage, real storage usage, CSA/ECSA storage usage, and SQA/ESQA storage usage.

### Command

Access the Dashboard panel with the **DASH** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```
SDSF DASHBOARD SYS1 PLEXNAME LINE 1-15 (65)
 | | |
 | System | Sysplex | Lines displayed
 | that | name | or first line
 | you are | | if 100,000
 | logged | |
 | on to | |
 Total lines
 (**** if more
 than 99,999,999)
```

### DASH display format

The DASH panel contains a fixed section at the top that displays various system configuration attributes and metrics.

Following the fixed section, and separated by a line of dashes, are up to five consumers of system resources. For these lines, the usage of the columns are as follows:

#### Attribute

*name (position)* represents the name of the resource and the position in the list of top five consumers.

#### Value

The consumer identity, typically containing one or more of JOBNAME, ASID, JOBID, or OWNER.

#### Metric

*resource(position)* is the metric name and its position in the list of top five consumers.

#### Measure

Numerical value of resource consumption.

### Columns on the DASH panel

The columns on the DASH panel are shown in [Table 80 on page 104](#).

Table 80. Columns on the DASH panel

| Column name | Title (Displayed) | Width | Description               |
|-------------|-------------------|-------|---------------------------|
| ATTRIBUTE   | Attribute         | 12    | The name of the attribute |

| Column name    | Title (Displayed) | Width | Description                                                                                                                                           |
|----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VALUE</b>   | Value             | 40    | Value of the attribute                                                                                                                                |
| <b>METRIC</b>  | Metric            | 12    | Name of metric                                                                                                                                        |
| <b>MEASURE</b> | Measure           | 10    | Numerical value of metric                                                                                                                             |
| <b>ISFEND</b>  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Device Activity panel (DEV)

The Device Activity (DEV) panel allows you to show online DASD volume activity in the system.

**Note:** RMF and the RMF Monitor I tasks must be active in order to see rows on the SDSF DEV panel. In addition, DEVICE(DASD) must be specified in the RMF ERBRMFxx parmlib member.

### Command

Access the DEV panel with the **DEV** command from any SDSF panel.

## Parameters

The parameter shown in Table 81 on page 105 allows you to customize the DEV display.

The parameter usage is as follows:

DEV (ACT)

DEV with no parameters displays all devices.

Consider the following examples:

- **DEV ACT** - Displays devices with activity.
- **DEV** - Displays all devices.

| Parameter | Description                                |
|-----------|--------------------------------------------|
| ACT       | Limits the panel to devices with activity. |

| Parameter | Description                                |
|-----------|--------------------------------------------|
| ACT       | Limits the panel to devices with activity. |

### Panel title information

The title line contains the following information:

| <b>SDFS</b> | <b>DEVICE</b> | <b>ACTIVITY</b>                | <b>SYS1</b>                                          | <b>SYS1*</b> | <b>LINE 1-10 (10)</b>                                     |
|-------------|---------------|--------------------------------|------------------------------------------------------|--------------|-----------------------------------------------------------|
|             |               |                                |                                                      |              |                                                           |
|             |               | System you are<br>logged on to |                                                      |              | Lines displayed<br>or first line<br>if 100,000<br>or more |
|             |               |                                |                                                      |              |                                                           |
|             |               |                                | Systems displayed<br>(MVS value or<br>SYSNAME value) |              | Total lines<br>(**** if more<br>than 99,999,999)          |

## DEV command action characters

The action characters for the DEV command are shown in Table 82 on page 106.

Table 82. DEV Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display unit information.                                                                           |
| DA               | Display allocations for the unit.                                                                   |
| DI               | Display IPL volume.                                                                                 |
| DSP              | DevServ path.                                                                                       |
| DSQD             | DevServ QDASD.                                                                                      |
| DSQP             | DevServ QPATH.                                                                                      |
| DSS              | DevServ SMS.                                                                                        |
| LV               | List data sets for a DASD volume (ISPF only).                                                       |
| LVT              | List VTOC for the device.                                                                           |
| V                | Vary device online.                                                                                 |
| VF               | Vary device offline.                                                                                |

## Columns on the DEV panel

The columns on the DEV panel are shown in Table 83 on page 106.

Table 83. Columns on the DEV Panel

| Column name     | Title (Displayed) | Width | Description                                                                         |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------|
| <b>VOLSER</b>   | VOLSER            | 6     | Volume serial. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>UNIT</b>     | Unit              | 4     | Unit address                                                                        |
| <b>STORGRP</b>  | StorGrp           | 8     | Storage group                                                                       |
| <b>IOINTENS</b> | IOIntens          | 8     | I/O intensity (the higher the greater the impact)                                   |
| <b>QINTENS</b>  | QIntens           | 7     | Queuing intensity (the higher the greater the impact)                               |
| <b>SSCHRATE</b> | SSCH              | 8     | SSCH rate (SSCH per second)                                                         |
| <b>RESPONSE</b> | Response          | 8     | Average response time (milliseconds)                                                |
| <b>IOSQ</b>     | IOSQ              | 8     | Average IOSQ (milliseconds)                                                         |
| <b>CONNECT</b>  | Connect           | 8     | Average connect time (milliseconds)                                                 |
| <b>DISCONN</b>  | Disc              | 8     | Average disconnect time (milliseconds)                                              |

Table 83. Columns on the DEV Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PENDING</b>  | Pending           | 8     | Average pending time (milliseconds)                                                                                                                                                   |
| <b>UTILPCT</b>  | Util%             | 6     | Device utilization percentage                                                                                                                                                         |
| <b>RESVPCT</b>  | Resv%             | 6     | Device reserve percentage                                                                                                                                                             |
| <b>PAVNUM</b>   | PAVNum            | 6     | Number of parallel access volume (PAV) exposures                                                                                                                                      |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>SS</b>       | SS                | 2     | Subchannel set number                                                                                                                                                                 |
| <b>SSUNIT</b>   | SSUnit            | 6     | Hexadecimal unit address including subchannel set number                                                                                                                              |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Device Space panel (DEVS)

The Device Space (DEVS) panel displays the device space information for all or a subset of DASD volumes. The DEVS panel shows information from both SMS and non-SMS volumes and includes important attributes and status settings. The DEVS panel accepts two optional positional parameters that can be used to filter the panel by volume serial or SMS storage group name.

### Action character and command

Access the DEVS panel with the **DEVS** command from any SDSF panel, or by using the LS action character on other DASD-related panels, including DEV and SMSG.

### Parameters

The parameter shown in [Table 84 on page 108](#) allows you to customize the DEVS display.

The parameter usage is as follows:

```
DEVS (volser_mask) (storgrp_mask)
```

DEVS with no parameters displays all DASD devices.

Consider the following examples:

- **DEVS DMP\*** - Displays device space for all DASD volumes that begin with DMP.
- **DEVS \* PRD\*** - Displays device space for all DASD volumes that are in an SMS storage group that begin with PRD.

Table 84. DEVS Parameters

| Parameter           | Description                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>volser_mask</i>  | <p>A character string that limits the panel to devices whose volume serial matches the specified filter value. The string can be up to 6 characters, including:</p> <ul style="list-style-type: none"> <li>• * represents zero or more characters.</li> <li>• % represents a single character.</li> </ul>          |
| <i>storgrp_mask</i> | <p>A character string that limits the panel to devices whose SMS storage group name matches the specified filter value. The string can be up to 8 characters, including:</p> <ul style="list-style-type: none"> <li>• * represents zero or more characters.</li> <li>• % represents a single character.</li> </ul> |

### Panel title information

The title line contains the following information:

| SDSF | DEVICE | SPACE | SYS1                                                 | SYS1* | *                                    | *                                                     | LINE 1-14                                                       | (146) |
|------|--------|-------|------------------------------------------------------|-------|--------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-------|
|      |        |       | System you are<br>logged on to                       |       | Current<br>volser<br>filter<br>value | Current<br>SMS<br>storage<br>group<br>filter<br>value | Lines<br>displayed<br>or first<br>line if<br>100,000<br>or more |       |
|      |        |       | Systems displayed<br>(MVS value or<br>SYSNAME value) |       |                                      |                                                       | Total lines<br>(**** if more<br>than 99,999,999)                |       |

## DEVS command action characters

The action characters for the DEVS command are shown in Table 85 on page 108.

Table 85. DEVS Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| DA               | Display allocations for the device.                                                                 |
| DSP              | DevServ PATH.                                                                                       |
| DSQD             | DevServ QDASD.                                                                                      |
| DSQP             | DevServ QPATH.                                                                                      |

Table 85. DEVS Command Action Characters (continued)

| Action Character | Description                              |
|------------------|------------------------------------------|
| DSS              | DevServ SMS.                             |
| LV               | List data sets for a device (ISPF only). |
| LVT              | List the VTOC for a device.              |

## Columns on the DEVS panel

The columns on the DEVS panel are shown in [Table 86 on page 109](#).

Table 86. Columns on the DEVS Panel

| Column name      | Title (Displayed) | Width | Description                                                                         |
|------------------|-------------------|-------|-------------------------------------------------------------------------------------|
| <b>VOLSER</b>    | VOLSER            | 6     | Volume serial. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>UNIT</b>      | Unit              | 4     | Unit address                                                                        |
| <b>DEVTYPE</b>   | DevType           | 8     | Device type                                                                         |
| <b>TOTAL</b>     | TotalMB           | 7     | Total space in megabytes                                                            |
| <b>USEDPCT</b>   | Used%             | 5     | Space used percentage                                                               |
| <b>FREE</b>      | FreeMB            | 6     | Free space in megabytes                                                             |
| <b>LFREE</b>     | LargestFreeMB     | 13    | Largest free extent in megabytes                                                    |
| <b>USED</b>      | UsedMB            | 7     | Used space in megabytes                                                             |
| <b>EAV</b>       | EAV               | 3     | EAV indicator (YES or NO)                                                           |
| <b>SMS</b>       | SMS               | 3     | SMS indicator (YES or NO)                                                           |
| <b>STORGRP</b>   | StorGrp           | 8     | SMS storage group                                                                   |
| <b>SMSSTAT</b>   | SMSStatus         | 16    | SMS status                                                                          |
| <b>FRAGINDEX</b> | FragIndex         | 9     | Fragmentation index                                                                 |
| <b>FREEDSCB</b>  | FreeDSCB          | 8     | Free DSCB count                                                                     |
| <b>FREEEXT</b>   | FreeExt           | 7     | Free extent count                                                                   |
| <b>FREEVIR</b>   | FreeVIR           | 7     | Free VTOC index record count                                                        |
| <b>MOUNT</b>     | Mount             | 8     | Mount attribute                                                                     |
| <b>PAGE</b>      | Page              | 4     | Page device (YES or NO)                                                             |
| <b>SHR</b>       | SHR               | 3     | Shared device (YES or NO)                                                           |
| <b>VTOCIX</b>    | VTOCIX            | 6     | VTOC index active (YES or NO)                                                       |
| <b>DIRF</b>      | DIRF              | 4     | DADSM interrupt recording facility (YES or NO)                                      |
| <b>TOTALTRK</b>  | TotalTrk          | 8     | Total space in tracks                                                               |
| <b>FREETRK</b>   | FreeTrk           | 7     | Free space in tracks                                                                |
| <b>LFREETRK</b>  | LargestFreeTrk    | 14    | Largest free extent in tracks                                                       |
| <b>USEDTRK</b>   | UsedTrk           | 7     | Used space in tracks                                                                |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                         |

*Table 86. Columns on the DEVS Panel (continued)*

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>DIAG</b>     | Diag              | 8     | Diagnostic value                                                                                                                                                                      |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Dynamic Exits panel (DYNX)

The Dynamic Exits (DYNX) panel allows you to display the properties of dynamic exits defined to the system. The DYNX panel shows all of the dynamic exits in the sysplex, their status, and the modules that implement the exit.

You can use the fast path select (S) command with an EXITNAME to filter results.

## Command

Access the DYNX panel with the **DYNX** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|             |                |                   |             |              |                        |
|-------------|----------------|-------------------|-------------|--------------|------------------------|
| <b>SDFS</b> | <b>DYNAMIC</b> | <b>EXITS</b>      | <b>SYS1</b> | <b>SYS1*</b> | <b>LINE 1-15 (121)</b> |
|             |                |                   |             |              |                        |
|             |                |                   |             |              | Lines displayed        |
|             |                |                   |             |              | or first line          |
|             |                | System you are    |             |              | if 100,000             |
|             |                | logged on to      |             |              | or more                |
|             |                |                   |             |              |                        |
|             |                |                   |             |              | Total lines            |
|             |                | Systems displayed |             |              | (**** if more          |
|             |                | (MVS value or     |             |              | than 99,999,999)       |
|             |                | SYSNAME value)    |             |              |                        |

## DYNX command action characters

The action characters for the DYNX command are shown in Table 87 on page 110.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| A                | Activate the exit routine.                                                                          |



| <i>Table 87. DYNX Command Action Characters (continued)</i> |                                                   |
|-------------------------------------------------------------|---------------------------------------------------|
| <b>Action Character</b>                                     | <b>Description</b>                                |
| D                                                           | Display dynamic exit.                             |
| DA                                                          | Display all dynamic exits.                        |
| DAI                                                         | Display all implicitly defined dynamic exits.     |
| DD                                                          | Display dynamic exit with diagnostic information. |
| DI                                                          | Display exits defined with type installation.     |
| DNP                                                         | Display exits not defined with type program.      |
| DP                                                          | Display exits defined with type program.          |
| H                                                           | Modify state to inactive.                         |
| P                                                           | Delete exit routine from exit.                    |
| PF                                                          | Delete exit routine from exit (forced).           |
| U                                                           | Undefine an implicitly defined exit.              |

### Columns on the DYNX panel

The columns on the DYNX panel are shown in Table 88 on page 111.

*Table 88. Columns on the DYNX Panel*

| <b>Column name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                                                                                                                                |
|--------------------|--------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EXITNAME</b>    | EXITNAME                 | 16           | Dynamic exit name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                           |
| <b>SEQ</b>         | Seq                      | 3            | Sequence number for module in list                                                                                                                                |
| <b>MODNAME</b>     | ModName                  | 8            | Module name implementing exit                                                                                                                                     |
| <b>ACTIVE</b>      | Active                   | 6            | Exit active (YES or NO)                                                                                                                                           |
| <b>FASTPATH</b>    | FastPath                 | 8            | Exit FASTPATH option (YES or NO). FASTPATH processing means that the system does not provide as much function, and therefore the overall processing time is less. |
| <b>MODEPA</b>      | ModEPA                   | 8            | Module entry point address                                                                                                                                        |
| <b>MODLOADPT</b>   | LoadPt                   | 8            | Module load point address if available                                                                                                                            |
| <b>MODSIZE</b>     | ModLen                   | 8            | Module length if available                                                                                                                                        |
| <b>JNAME</b>       | FiltJob                  | 8            | Jobname for which exit is to get control                                                                                                                          |
| <b>STOKEN</b>      | FiltSTok                 | 16           | Address space token (STOKEN) for which exit is to get control                                                                                                     |
| <b>ABENDNUM</b>    | NumAbend                 | 8            | Number of abends before exit inactivates                                                                                                                          |
| <b>ABENDCON</b>    | ConAbend                 | 8            | Consecutive abend option (YES – consecutive abends before inactivation, NO – cumulative abends before inactivation)                                               |
| <b>SEQMAX</b>      | SeqMax                   | 6            | Maximum module sequence number                                                                                                                                    |
| <b>SYSNAME</b>     | SysName                  | 8            | System name                                                                                                                                                       |

Table 88. Columns on the DYNX Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>TYPE</b>       | Type              | 12    | Exit type                                                                                                                                                                             |
| <b>ABENDSLEFT</b> | AbendsLeft        | 10    | Number of abends remaining before inactivation                                                                                                                                        |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Eligible Device Table panel (EDT)

The Eligible Device Table (EDT) panel shows information about the installation-defined I/O devices that are eligible for allocation.

## Command

Access the EDT panel with the **EDT** command from any SDSF panel.

### Panel title information

The title line contains the following information:

[illegible]

## EDT command action characters

The action characters for the EDT command are shown in Table 89 on page 112.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| L                | Displays a list of devices that are online under the unit name.                                     |
| LA               | Displays a list of all devices under the unit name.                                                 |

## Columns on the EDT panel

The columns on the EDT panel are shown in [Table 90 on page 113](#).

Table 90. Columns on the EDT Panel

| Column name | Title (Displayed) | Width | Description                                                                                                                                           |
|-------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNITNAME    | UNITNAME          | 8     | Unit name for the device. This is the fixed field.                                                                                                    |
| TYPE        | Type              | 8     | Device type                                                                                                                                           |
| DEVCLASS    | DevClass          | 8     | Device class                                                                                                                                          |
| DEVCOUNT    | DevCount          | 8     | Number of devices                                                                                                                                     |
| VIO         | VIO               | 3     | Unit name eligible for VIO (yes or no)                                                                                                                |
| ETOKEN      | EToken            | 8     | Unit name look-up value                                                                                                                               |
| SYSNAME     | SysName           | 8     | System name                                                                                                                                           |
| SYSLEVEL    | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| ISFEND      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Event Log panel (ELOG)

The Event Log (ELOG) panel displays important system events and, if the data is available, allows you to drill down to the OPERLOG around the time that the event occurred. The events are assigned names and categories by the ELOG data collector and are documented in the ELOG feature topic in [z/OS SDSF Operation and Customization](#).

The ELOG panel requires that the SDSF server is active and that the Event Log feature is enabled either via a FEATURE statement in the current ISFPRMxx or by issuing a MODIFY command. For more information, refer to the topic [The Event Log \(ELOG\) feature in z/OS SDSF Operation and Customization](#).

### Command

Access the Event Log panel with the **ELOG** command from any SDSF panel.

### Parameters

The parameters shown in [Table 91 on page 113](#) allow you to customize the ELOG display.

The parameter usage is as follows:

```
ELOG (category | ALL)
```

| Table 91. ELOG Parameters |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Parameter                 | Description                                                          |
| category                  | Displays events whose assigned category matches the specified value. |
| ALL                       | Displays all events. This is the default.                            |

### Panel title information

The title line contains the following information:

| SDSF EVENT LOG | SYS1                                                 | SYS2 | status                                                                          | category | LINE 1-15 (165)                                           |
|----------------|------------------------------------------------------|------|---------------------------------------------------------------------------------|----------|-----------------------------------------------------------|
|                | System you are<br>logged on to                       |      | Status of the<br>ELOG feature<br>on the local<br>system (ACTIVE<br>or INACTIVE) |          | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                | Systems displayed<br>(MVS value or<br>SYSNAME value) |      | Type of<br>events<br>displayed                                                  |          | Total lines<br>(**** if more<br>than 99,999,999)          |

## ELOG command action characters

The action characters for the ELOG command are shown in [Table 92 on page 114](#).

| Table 92. ELOG Command Action Characters |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                  |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                 |
| /                                        | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                              |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                               |
| %(exec)                                  | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ?                                        | Display job data sets (access the Job Data Set panel).                                                                                                                                                                                                                                                                                                                                                                               |
| =                                        | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                        |
| L                                        | Drill down to the date and time of the event in the OPERLOG.                                                                                                                                                                                                                                                                                                                                                                         |
| LI                                       | List info about JES resources.                                                                                                                                                                                                                                                                                                                                                                                                       |
| S                                        | Display the data sets for the event. You can add: <ul style="list-style-type: none"> <li>• n - Browse data sets for the event starting with the relative data set number n from the top. If you enter -n, the display starts with the data set number n from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |

## Columns on the ELOG panel

The columns on the ELOG panel are shown in [Table 93 on page 114](#).

| Table 93. Columns on the ELOG Panel |                   |       |                                          |
|-------------------------------------|-------------------|-------|------------------------------------------|
| Column name                         | Title (Displayed) | Width | Description                              |
| NAME                                | NAME              | 16    | The event name. This is the fixed field. |
| SYSNAME                             | SysName           | 8     | System name where the event occurred     |
| DATEE                               | Date              | 22    | Date stamp of event                      |

Table 93. Columns on the ELOG Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                           |
|------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DESC</b>      | Description       | 127   | Event description                                                                                                                                     |
| <b>CATEGORY</b>  | Category          | 8     | Event category                                                                                                                                        |
| <b>SEVERITY</b>  | Severity          | 8     | Event severity (INFO, NOTE, WARN, HIGH, or CRITICAL)                                                                                                  |
| <b>SEVLEVEL</b>  | SevLevel          | 8     | Numerical severity level (0-4)                                                                                                                        |
| <b>TYPE</b>      | Type              | 8     | Event source type                                                                                                                                     |
| <b>RECNUM</b>    | Record            | 6     | Original record number                                                                                                                                |
| <b>SUBTYPE</b>   | Subtype           | 7     | Original record subtype                                                                                                                               |
| <b>SYSPLEX</b>   | Sysplex           | 7     | Sysplex-wide event (YES or NO)                                                                                                                        |
| <b>JNAME</b>     | JobName           | 8     | Job name associated with the event                                                                                                                    |
| <b>JOBID</b>     | JobID             | 8     | JES job ID associated with the event                                                                                                                  |
| <b>OWNER</b>     | Owner             | 8     | Job owner associated with the event                                                                                                                   |
| <b>EVENTDATA</b> | EventData         | 64    | Data associated with the event                                                                                                                        |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>SINCE</b>     | Since             | 10    | Release when event added                                                                                                                              |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Extended Console panel (EMCS)

The Extended Console (EMCS) panel shows all extended consoles defined in the sysplex. Rows for consoles with a status of ACTIVE are highlighted. This panel does not use the SYSNAME value to control which systems are shown on the panel.

You can use fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the console name pattern.

### Command

Access the EMCS panel with the **EMCS** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```

SDSF EMCS CONSOLES SYS1
 |
 System you are
 logged on to

LINE 1-17 (172)
|
Lines displayed |
or first line |
if 100,000 |
or more |
|
Total lines |
(**** if more |
than 99,999,999)

```

## EMCS command action characters

The action characters for the EMCS command are shown in [Table 94 on page 116](#).

| Table 94. EMCS Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| D                                        | Display console information.                                                                        |
| DL                                       | Display console information (long).                                                                 |
| E                                        | Reset console to force it offline.                                                                  |
| P                                        | Remove console from system.                                                                         |

## Columns on the EMCS panel

The columns on the EMCS panel are shown in [Table 95 on page 116](#).

Table 95. Columns on the EMCS Panel

| Column name      | Title (Displayed) | Width | Description                                                                        |
|------------------|-------------------|-------|------------------------------------------------------------------------------------|
| <b>NAME</b>      | NAME              | 8     | Console name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>    | Status            | 8     | Console status                                                                     |
| <b>KEY</b>       | Key               | 8     | Console key                                                                        |
| <b>JNAME</b>     | JobName           | 8     | Job name of address space creating console                                         |
| <b>JOBID</b>     | JobID             | 8     | Job ID of address space creating console                                           |
| <b>QDEPTH</b>    | QDepth            | 6     | Data space queue depth                                                             |
| <b>QLIMIT</b>    | QLimit            | 6     | Data space queue limit                                                             |
| <b>QALERTPCT</b> | QAlert%           | 7     | Dataspace queue alert percentage                                                   |
| <b>DSPSIZE</b>   | DSPSizeK          | 8     | Current data space size (kilobytes)                                                |
| <b>DSPMAX</b>    | DSPMaxK           | 8     | Maximum data space size (kilobytes)                                                |
| <b>ASID</b>      | ASID              | 5     | Address space identifier                                                           |
| <b>ASIDX</b>     | ASIDX             | 5     | Address space identifier (hexadecimal)                                             |
| <b>TERMID</b>    | TermID            | 8     | Terminal identifier                                                                |
| <b>AUTH</b>      | Auth              | 16    | Console authority                                                                  |
| <b>LEVEL</b>     | Level             | 12    | Message levels received by console                                                 |
| <b>CONSID</b>    | ConsID            | 8     | Console identifier                                                                 |

Table 95. Columns on the EMCS Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CMDSYS</b>   | CmdSys            | 8     | Command system                                                                                                                                                                        |
| <b>AUTOACT</b>  | AutoAct           | 8     | AutoAct group for system console                                                                                                                                                      |
| <b>MONITOR</b>  | Monitor           | 20    | Monitor status for console                                                                                                                                                            |
| <b>DOM</b>      | DOM               | 6     | Delete operator message attribute                                                                                                                                                     |
| <b>HC</b>       | HC                | 3     | Hardcopy message set receiver (YES or NO)                                                                                                                                             |
| <b>AUTO</b>     | Auto              | 4     | Message automation receiver (YES or NO)                                                                                                                                               |
| <b>INTIDS</b>   | IntIDs            | 6     | Console ID zero receiver (YES or NO)                                                                                                                                                  |
| <b>UNKNIDS</b>  | UnknIDs           | 7     | Unknown console ID receiver (YES or NO)                                                                                                                                               |
| <b>PD</b>       | PD                | 3     | Problem determination mode (YES or NO)                                                                                                                                                |
| <b>SYSCONS</b>  | SysCons           | 7     | System console (YES or NO)                                                                                                                                                            |
| <b>MSCOPE</b>   | MScope            | 8     | Systems from which unsolicited messages are being received                                                                                                                            |
| <b>ROUTCDE</b>  | RoutCde           | 32    | Routing codes                                                                                                                                                                         |
| <b>ROUTCDEX</b> | RoutCdeX          | 32    | Routing codes (hexadecimal)                                                                                                                                                           |
| <b>SYSNAME</b>  | SysName           | 8     | System name where console is active                                                                                                                                                   |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Enclaves panel (ENC)

The Enclaves (ENC) panel allows you to display information about Workload Manager (WLM) enclaves.

A WLM enclave is an anchor for a transaction that can be spread across multiple dispatchable units in multiple address spaces. The enclave is a group of one or more logically related z/OS task control blocks (TCB) and service request blocks (SRB) that manage the work in entities.

### Command

Access the ENC panel with the **ENC** command from any SDSF panel.

### Parameters

The parameters shown in [Table 96 on page 118](#) allow you to customize the ENC display.

The parameter usage is as follows:

```
ENC (ACTIVE | ALL)
```

Consider the following examples:

- **ENC ACTIVE** - Displays all active enclaves.
- **ENC ALL** - Displays all enclaves.

*Table 96. ENC Parameters*

| Parameter | Description                                 |
|-----------|---------------------------------------------|
| ACTIVE    | Displays only active enclaves.              |
| ALL       | Displays all enclaves. This is the default. |

### Panel title information

The title line contains the following information:

| SDSF ENCLAVES | SYS1                                           | ALL                                        | MULTISYS                                                                                               | LINE 1-12 (12)  |
|---------------|------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------|
|               |                                                |                                            | An M action character has been entered and the panel is showing the instances of a multisystem enclave | Lines displayed |
|               | Systems displayed (MVS value or SYSNAME value) |                                            |                                                                                                        | Total lines     |
|               |                                                | Enclaves displayed:<br>ALL, or ACTIVE only |                                                                                                        |                 |

## ENC command action characters

The action characters for the ENC command are shown in Table 97 on page 118.

*Table 97. ENC Command Action Characters*

| Action Character | Description                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                               |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                              |
| /                | Show column values for row (ISPF only).                                                                                                                                                                           |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                            |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                  |
| =                | Repeat previous action character or overwrite.                                                                                                                                                                    |
| I                | Display additional information about the enclave.                                                                                                                                                                 |
| M                | Match the enclave by export token, to display only the instances of a multisystem enclave. Valid only for multisystem enclaves, as indicated in the Scope column. To see all enclaves again, re-access the panel. |
| R                | Reset and resume an enclave.                                                                                                                                                                                      |
| RQ               | Reset and quiesce an enclave.                                                                                                                                                                                     |

**Note:** If you reset a dependent enclave, the owner address space is reset.

## Columns on the ENC panel

The columns on the ENC panel are shown in Table 98 on page 119.



Table 98. Columns on the ENC Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                                                      |
|-----------------|-------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 16    | Token that identifies the enclave. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                          |
| <b>SSTYPE</b>   | SSType            | 6     | Subsystem type (for example, DB2).                                                                                                                                                                               |
| <b>STATUS</b>   | Status            | 8     | Active or inactive                                                                                                                                                                                               |
| <b>ESRVCLS</b>  | SrvClass          | 8     | Service class                                                                                                                                                                                                    |
| <b>PERIOD</b>   | Per               | 3     | Period number                                                                                                                                                                                                    |
| <b>PGN</b>      | PGN               | 3     | Performance group                                                                                                                                                                                                |
| <b>RPTCLS</b>   | RptClass          | 8     | Report class                                                                                                                                                                                                     |
| <b>RESGROUP</b> | ResGroup          | 8     | Resource group                                                                                                                                                                                                   |
| <b>CPU</b>      | CPU-Time          | 10    | Total CPU time                                                                                                                                                                                                   |
| <b>OWNSYS</b>   | OwnerSys          | 8     | Enclave owner system                                                                                                                                                                                             |
| <b>JNAME</b>    | OwnerJob          | 8     | Enclave owner job name                                                                                                                                                                                           |
| <b>ASID</b>     | OwnerAS           | 7     | Enclave owner ASID (displayed only if this enclave is the original)                                                                                                                                              |
| <b>ASIDX</b>    | OwnerASX          | 8     | Enclave owner ASID in hexadecimal (displayed only if this enclave is the original)                                                                                                                               |
| <b>ORIGINAL</b> | Original          | 8     | Indicates, for an enclave that has been exported, if this is the original. Value is YES or NO.                                                                                                                   |
| <b>ESCOPE</b>   | Scope             | 8     | Scope of the enclave; LOCAL (single-system) or MULTISYS (multisystem capable; there is an export token for the enclave)                                                                                          |
| <b>TYPE</b>     | Type              | 4     | IND (Independent) or DEP (dependent)                                                                                                                                                                             |
| <b>WORKLOAD</b> | Workload          | 8     | Workload name                                                                                                                                                                                                    |
| <b>QUIESCE</b>  | Quiesce           | 12    | Indicates if the enclave is in a quiesce delay, which occurs if the address space has been reset with the MVS RESET,QUIESCE command. Value is YES, YES-IMPLICIT (quiesced through enclave server quiesce) or NO. |
| <b>SYSNAME</b>  | SysName           | 8     | Name of the system that provided the data                                                                                                                                                                        |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                                                    |
| <b>SUBSYS</b>   | Subsys            | 8     | Subsystem name                                                                                                                                                                                                   |
| <b>ZAAPTIME</b> | zAAP-Time         | 9     | Cumulative zAAP time consumed by dispatchable units running in the enclave on the local system. See the note that follows this table.                                                                            |
| <b>ZAAPCTM</b>  | zACP-Time         | 9     | Cumulative zAAP on CP time consumed by dispatchable units running in the enclave on the local system. See the note that follows this table.                                                                      |
| <b>ZIIPTIME</b> | zIIP-Time         | 9     | Cumulative zIIP time consumed by dispatchable units running in the enclave on the local system. See the note that follows this table.                                                                            |

Table 98. Columns on the ENC Panel (continued)

| Column name                    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|--------------------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ZIIPCPTM</b>                | zICP-Time         | 9     | Cumulative zIIP on CP time consumed by dispatchable units running in the enclave on the local system. See the note that follows this table.                                           |
| <b>PROMOTED</b>                | Promoted          | 8     | Indicates whether the address space is currently promoted due to a chronic resource contention                                                                                        |
| <b>ZAAPNTIM</b> <sup>RMF</sup> | zAAP-NTime        | 10    | zAAP service time, in seconds, normalized for the slower CP                                                                                                                           |
| <b>ZIIPNTIM</b> <sup>RMF</sup> | zIIP-NTime        | 10    | zIIP service time, in seconds, normalized for the slower CP                                                                                                                           |
| <b>ARRTIME</b>                 | Arrival-Time      | 19    | Date and time the enclave was created                                                                                                                                                 |
| <b>ARRINTV</b>                 | Arrival-Int       | 11    | Interval since the enclave was created ( <i>hh:mm:ss</i> )                                                                                                                            |
| <b>CPUCRIT</b>                 | CPUCrit           | 7     | CPU protection                                                                                                                                                                        |
| <b>IOPRIOGRP</b>               | IOprioGrp         | 9     | WLM I/O priority group                                                                                                                                                                |
| <b>USERID</b>                  | UserID            | 8     | User ID associated with the request                                                                                                                                                   |
| <b>TRESGROUP</b>               | TenantResGroup    | 14    | Tenant resource group indicator (YES or NO, RMF).                                                                                                                                     |
| <b>ISFEND</b>                  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Enqueue panel (ENQ)

The Enqueue (ENQ) panel allows authorized users to display active system enqueues. Enqueueing is the mechanism by which a program requests control of a serial reusable resource. The panel shows the major and minor names for the enqueueer, as well as the job name waiting for or holding the enqueue. Parameters on the ENQ command control which major and system names are shown. By default, only major SYSDSN enqueues on the local system are shown.

### Command

The **ENQC** command provides a convenient means of showing all enqueues with contention. That is, **ENQC** shows currently held enqueues that are required by another job.

The **ENQD** command provides a convenient means of showing all enqueues with major name SYSDSN and any minor name for all systems. You can specify an optional pattern on the **ENQD** command for the data set name (minor name for SYSDSN) to be processed. The default is **userid**, where **userid** is the user ID of the current user.

By default, accessing the ENQ panel shows all enqueues with major name SYSDSN for the local system. As of V2R4, locally-held enqueues are shown even when the job is running on a remote system.

You can also access the ENQ panel from the DA and AS panels using the N action character. When ENQ is accessed in this way, all enqueues used by the selected address space are shown.

### Parameters

The parameters shown in [Table 99 on page 121](#) allow you to customize the ENQ display. **ENQC** displays all enqueues with contention. **ENQC** does not accept any parameters.

The parameter usage is as follows:

ENQ major-name system-name

The syntax of the ENQD command is as follows:

ENQD (*data set name pattern*)

where *data set name pattern* is optional and specifies the data set name to be processed. If omitted, the default is `userid.*` where **userid** is the userid of the current user.

| Table 99. ENQ Parameters |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                       |
| <i>major-name</i>        | The enqueue major name to process including * (any string of characters) or % (any single character). The default is SYSDSN.                      |
| <i>system-name</i>       | The MVS system name, up to 8 characters including * (any string of characters) or % (any single character). The default is the local system name. |

## Panel title information

The title line contains the following information:

|                                |                                                      |       |                               |                                                           |
|--------------------------------|------------------------------------------------------|-------|-------------------------------|-----------------------------------------------------------|
| SDSF ENQUEUES                  | SYS1                                                 | SYS1* | MAJ SYSDSN                    | LINE 1-18 (208)                                           |
|                                |                                                      |       |                               |                                                           |
| System you are<br>logged on to |                                                      |       | Major name<br>being displayed | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                |                                                      |       |                               |                                                           |
|                                | Systems displayed<br>(MVS value or<br>SYSNAME value) |       |                               | Total lines<br>(**** if more<br>than 99,999,999)          |

## ENQ command action characters

The action characters for the ENQ command are shown in [Table 100 on page 121](#).

| Table 100. ENQ Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| D                                        | Display enqueues.                                                                                   |

**Note:** If you reset a dependent enclave, the owner address space is reset.

## Columns on the ENQ panel

The columns on the ENQ panel are shown in [Table 101 on page 122](#).

Table 101. Columns on the ENQ Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MINOR</b>    | MINOR             | 52    | Minor name (RNAME). This is the fixed field. It is ignored if coded on an FLD statement. Control characters are translated to periods.                                                |
| <b>MAJOR</b>    | Major             | 8     | Major name (QNAME). Control characters are translated to periods.                                                                                                                     |
| <b>REQTYPE</b>  | Req               | 3     | Request type (SHR or EXC)                                                                                                                                                             |
| <b>JOBNAME</b>  | JobName           | 8     | Job name holding or requesting enqueue                                                                                                                                                |
| <b>ASID</b>     | ASID              | 4     | Job name ASID (decimal)                                                                                                                                                               |
| <b>ASIDX</b>    | ASIDX             | 6     | Job name ASID (hexadecimal)                                                                                                                                                           |
| <b>LEVEL</b>    | Level             | 10    | Request level: ENQ-normal enqueue, Reserve-hardware reserve, Global enq-hardware reserve converted to global enqueue                                                                  |
| <b>SMC</b>      | SMC               | 3     | Step must complete indicator                                                                                                                                                          |
| <b>SCOPE</b>    | Scope             | 8     | Enqueue scope (step, system, systems, global)                                                                                                                                         |
| <b>STATUS</b>   | Status            | 6     | Resource status (own, wait)                                                                                                                                                           |
| <b>OWNERS</b>   | Owners            | 6     | Number of resource owners for enqueue                                                                                                                                                 |
| <b>WAITERS</b>  | Waiters           | 7     | Number of tasks waiting for enqueue                                                                                                                                                   |
| <b>WAITEXC</b>  | WaitExc           | 7     | Number of tasks waiting for exclusive use                                                                                                                                             |
| <b>WAITSHR</b>  | WaitShr           | 7     | Number of tasks waiting for shared use                                                                                                                                                |
| <b>UNIT</b>     | Unit              | 4     | Device address for reserves                                                                                                                                                           |
| <b>USERDATA</b> | UserData          | 32    | User data passed on ISGENQ                                                                                                                                                            |
| <b>REQTIME</b>  | ReqTime           | 19    | Date and time of request                                                                                                                                                              |
| <b>ENQTOKEN</b> | EnqToken          | 64    | Enqueue token                                                                                                                                                                         |
| <b>RNAMEL</b>   | RNameLong         | 127   | Longer version of minor name, up to 127 characters. Control characters are translated to periods.                                                                                     |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## File System panel (FS)

The File System (FS) panel allows you to list the file systems being used by the system.

### Command

Access the FS panel with the **FS** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDSF FILE SYSTEMS              | SYS1                                                 | SYS1* | LINE 1-17 (65)                                            |
|--------------------------------|------------------------------------------------------|-------|-----------------------------------------------------------|
|                                |                                                      |       |                                                           |
| System you are<br>logged on to |                                                      |       | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                |                                                      |       |                                                           |
|                                | Systems displayed<br>(MVS value or<br>SYSNAME value) |       | Total lines<br>(**** if more<br>than 99,999,999)          |

## FS command action characters

The action characters for the FS command are shown in Table 102 on page 123.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display file system.                                                                                |
| DA               | Display all file systems.                                                                           |
| DE               | Display file system exceptions.                                                                     |
| LCK              | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |

## Columns on the FS panel

The columns on the FS panel are shown in Table 103 on page 123.

| Column name | Title (Displayed) | Width | Description                                                                                                  |
|-------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------|
| DEVICE      | DEVICE            | 6     | Unique device value (character format). This is the fixed field. It is ignored if coded on an FLD statement. |
| PATH        | Path              | 36    | Directory name where file system is mounted (truncated to 63 characters)                                     |
| TYPE        | Type              | 8     | File system type                                                                                             |
| MODE        | Mode              | 4     | File system mode (READ or RDWR)                                                                              |
| OWNER       | Owner             | 8     | System that owns this file system                                                                            |
| DSNAME      | Name              | 44    | Name of file system                                                                                          |

Table 103. Columns on the FS Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STATUS</b>    | Status            | 16    | File system status                                                                                                                                                                    |
| <b>STATUSNUM</b> | StatNum           | 7     | Status code corresponding to status value                                                                                                                                             |
| <b>AUTOMOVE</b>  | AutoMove          | 8     | Automove indicator                                                                                                                                                                    |
| <b>CLIENT</b>    | Client            | 6     | Client indicator (YES or NO)                                                                                                                                                          |
| <b>LATCHNUM</b>  | Latch             | 5     | Latch number for the file system                                                                                                                                                      |
| <b>MOUNTTIME</b> | Mount-Time-Date   | 19    | Timestamp file system was mounted                                                                                                                                                     |
| <b>MOUNTPARM</b> | MountParm         | 57    | Parameter specified on mount truncated to 57 characters                                                                                                                               |
| <b>QSYSNAME</b>  | QSysName          | 9     | System that quiesced this file system                                                                                                                                                 |
| <b>QJOBNAME</b>  | QJobName          | 9     | Jobname that quiesced this file system                                                                                                                                                |
| <b>QPID</b>      | QPID              | 8     | PID that quiesced this file system                                                                                                                                                    |
| <b>DEVICENUM</b> | DevNum            | 6     | Unique device value (decimal)                                                                                                                                                         |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>TSPACE</b>    | Total space       | 10    | Total space                                                                                                                                                                           |
| <b>USPACE</b>    | UsedSpace         | 9     | Used space                                                                                                                                                                            |
| <b>USEDPCT</b>   | Used%             | 8     | Used space percent                                                                                                                                                                    |
| <b>SETUID</b>    | SetUID            | 6     | SetUID can be issued for the file system (YES or NO)                                                                                                                                  |
| <b>PDEVICE</b>   | PDevice           | 7     | Parent device number                                                                                                                                                                  |
| <b>AUTOMNT</b>   | AutoMnt           | 7     | Whether the file system was auto-mounted (YES or NO)                                                                                                                                  |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Function Registry panel (FXE)

The Function Registry (FXE) panel displays the entries from the z/OS function registry. The FXE panel shows information from both IBM and independent software vendors. From the displayed table, you can browse the function entry and show any attributes and their values.

Entries in the z/OS functional registry must have a declared function to be shown on this panel. Entries for vendors and products with null or missing functions are not shown.

### Command

Access the FXE panel with the **FXE** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|                                        |                                                   |      |                                                           |
|----------------------------------------|---------------------------------------------------|------|-----------------------------------------------------------|
| SDSF FUNCTION REGISTRY                 | SYS1                                              | SYS1 | LINE 1-14 (14)                                            |
| System that<br>you are<br>logged on to |                                                   |      | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                        | Systems displayed (MVS<br>value or SYSNAME value) |      | Total lines<br>(**** if more<br>than 99,999,999)          |

## FXE command action characters

The action characters for the FXE command are shown in [Table 104 on page 125](#).

| Table 104. FXE Command Action Characters |                                                                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                                                             |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                     |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                    |
| /                                        | Show column values for row (ISPF only).                                                                                                                 |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.                                                                  |
| %(exec)                                  | Run a REXX exec.                                                                                                                                        |
| =                                        | Repeat previous action character or overtype.                                                                                                           |
| D                                        | Display enablement state of the selected function.                                                                                                      |
| DI                                       | Display information about statements from FXEPRMxx parmlib members identified by system parameter FXE to be processed and applied at system start time. |
| S                                        | Browse detailed information about the selected function.                                                                                                |

## Columns on the FXE panel

The columns on the FXE panel are shown in [Table 105 on page 125](#).

| Table 105. Columns on the FXE Panel |                   |       |                                        |
|-------------------------------------|-------------------|-------|----------------------------------------|
| Column name                         | Title (Displayed) | Width | Description                            |
| NAME                                | NAME              | 48    | Product name. This is the fixed field. |
| FUNCTION                            | Function          | 48    | Function name                          |
| PRODUCTID                           | ProdID            | 8     | Product ID                             |
| PRODUCTREL                          | ProdRel           | 8     | Product release                        |
| INSTANCEID                          | InstanceID        | 16    | Instance ID                            |
| ENABLED                             | Enabled           | 7     | Function enabled (YES or NO)           |
| USED                                | Used              | 4     | Function used (YES or NO)              |
| USEDcount                           | UsedCount         | 9     | Function usage count                   |
| ATTRIBUTES                          | Attributes        | 10    | Function attributes count              |

Table 105. Columns on the FXE Panel (continued)

| Column name         | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AUTH</b>         | Auth              | 4     | Function updated by authorized code only (YES or NO)                                                                                                  |
| <b>TELEMETRY</b>    | Telemetry         | 9     | Remote collection of function data (YES or NO)                                                                                                        |
| <b>VENDOR</b>       | Vendor            | 32    | Vendor name                                                                                                                                           |
| <b>VENDORSLOT</b>   | VendSlot          | 8     | Vendor slot number                                                                                                                                    |
| <b>PRODUCTSLOT</b>  | ProdSlot          | 8     | Product slot number                                                                                                                                   |
| <b>INSTANCESEQ</b>  | InstSeq           | 8     | Product instance sequence number                                                                                                                      |
| <b>FUNCTIONSLOT</b> | FuncSlot          | 8     | Function slot number                                                                                                                                  |
| <b>FUNCTIONDESC</b> | FuncDesc          | 127   | Function description                                                                                                                                  |
| <b>PRODUCTDESC</b>  | ProdDesc          | 127   | Product description                                                                                                                                   |
| <b>VENDORDESC</b>   | VendDesc          | 127   | Vendor description                                                                                                                                    |
| <b>SLOTPATH</b>     | SlotPath          | 32    | Function slot path                                                                                                                                    |
| <b>FRVA</b>         | FRVA              | 17    | FRVA address                                                                                                                                          |
| <b>FRPA</b>         | FRPA              | 17    | FRVA address                                                                                                                                          |
| <b>FRFE</b>         | FRFE              | 17    | FRFE address                                                                                                                                          |
| <b>SYSNAME</b>      | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>     | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>       | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Generic Tracker panel (GT)

The Generic Tracker (GT) panel allows you to list all generic tracking events that have been recorded by the system.

## Command

Access the GT panel with the **GT** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDSF GENERIC TRACKER | SY1 | SY1* | LINE 1-17 (82)   |
|----------------------|-----|------|------------------|
|                      |     |      |                  |
| System you are       |     |      | Lines displayed  |
| logged on to         |     |      | or first line    |
|                      |     |      | if 100,000       |
|                      |     |      | or more          |
|                      |     |      |                  |
| Systems displayed    |     |      | Total lines      |
| (MVS value or        |     |      | (**** if more    |
| SYSNAME value)       |     |      | than 99,999,999) |



## GT command action characters

The action characters for the GT command are shown in [Table 106 on page 127](#).

| Table 106. GT Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display tracking events by owner.                                                                   |
| DA                                      | Display all tracking events.                                                                        |
| DD                                      | Display active debug statements.                                                                    |
| DE                                      | Display exclude statements.                                                                         |
| DH                                      | Display tracking events by home job.                                                                |
| DS                                      | Display generic tracker status.                                                                     |

## Columns on the GT panel

The columns on the GT panel are shown in [Table 107 on page 127](#).

| Table 107. Columns on the GT Panel |                   |       |                                                                                                 |
|------------------------------------|-------------------|-------|-------------------------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                                     |
| OWNER                              | OWNER             | 8     | Owner of tracked instance. This is the fixed field. It is ignored if coded on an FLD statement. |
| SOURCE                             | Source            | 8     | Source of tracked instance                                                                      |
| PROGRAM                            | Program           | 8     | Program name                                                                                    |
| PROGOFs                            | ProgramOffset     | 16    | Offset into program issuing track request                                                       |
| EVENTDESC                          | EventDesc         | 64    | Event description                                                                               |
| EVENTDATA                          | EventData         | 32    | Data associated with the event                                                                  |
| EVENTJOB                           | EJobName          | 9     | Event job name                                                                                  |
| HOMEJOB                            | HJobName          | 9     | Home job name                                                                                   |
| EVENTASID                          | EASIDX            | 6     | Event address space identifier (hexadecimal)                                                    |
| HOMEASID                           | HASIDX            | 6     | Home address space identifier (hexadecimal)                                                     |
| AUTH                               | Auth              | 4     | Authorized indicator (YES or NO)                                                                |
| COUNT                              | Count             | 5     | Number of events                                                                                |
| FIRST                              | First-Date-Time   | 19    | Timestamp of first event                                                                        |
| SPATHLEN                           | SPathLen          | 8     | Actual length of source path                                                                    |

Table 107. Columns on the GT Panel (continued)

| Column name        | Title (Displayed) | Width | Description                                                                                                                                                                           |
|--------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SOURCEPATH</b>  | SourcePath        | 127   | Source path for event (may be truncated)                                                                                                                                              |
| <b>PPATHLEN</b>    | PPathLen          | 8     | Actual length of program path                                                                                                                                                         |
| <b>PROGRAMPATH</b> | ProgramPath       | 127   | Program path for event (may be truncated)                                                                                                                                             |
| <b>SYSNAME</b>     | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>    | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>ISFEND</b>      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Held Output panel (H)

The Held Output panel shows the user information about SYSOUT data sets for jobs, started tasks, and TSO users on any *held* JES output queue. There is one row for each output group for each job.

### Command

Access the H panel with the **H** command from any SDSF panel.

### Parameters

The parameters shown in [Table 108 on page 129](#) allow you to customize the H display.

The parameter usage is as follows:

```
H(classes) (string|ALL)
```

Consider the following examples:

**HDE ALL** - Displays information for all jobs in output classes D and E.

**H ABC** - Displays information for jobs with the name abc.

**H ABC\*** - Displays information for jobs with names that begin with abc.

To display only jobs with names that match your user ID, enter the following commands:

1. Enter the command **PREFIX \***.
2. Enter the **H** command without parameters.

**Note:** For all other SDSF tabular panels, setting the job name prefix to \* specifies that filtering on job name is not done and that all jobs are to be displayed.

To display all jobs, use any of the following commands:

Option 1:

1. Enter the command **PREFIX \*\***.
2. Enter the **H** command without parameters.

Option 2:

1. Enter the **PREFIX** command with a character string, for example, **PREFIX ABC\***.
2. Enter the **H** command without parameters.
3. Enter the **PREFIX** command without parameters.

Option 3:

1. Enter the **PREFIX** command without parameters.
2. Enter the **H ALL** command.

### Columns used to filter on job name

If you use the **FILTER** command or pop-up to filter on job name, only the JOBNAME column is used to determine which jobs are displayed. With the **PREFIX** command, for jobs that entered the system through the TSO/E Interactive Data Transmission Facility (netmail), SDSF compares the value for the **PREFIX** command with a value that is displayed as part of the value in the **Dest** column.

| Table 108. H Parameters |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter               | Description                                                                                                                                                                                                |
| <i>classes</i>          | A list of up to 7 output classes.<br><b>Note:</b> Do not use blanks between H and the classes or between classes.                                                                                          |
| <i>string</i>           | A character string that limits the panel to jobs with names that match the character string. <i>string</i> may be up to 8 characters, including * (any string of characters) and % (any single character). |
| ALL                     | Displays all jobs.                                                                                                                                                                                         |

### Panel title information

The title line contains the following information:

```
SDSF HELD OUTPUT DISPLAY ALL CLASSES LINES 58149 LINE 1-20 (57)
 |
 | JES output classes
 | being displayed
 |
 | Total number of print lines for
 | the output classes displayed.
 | Scaled if needed, for example,
 | 1G rather than 1,000,000,000.
 |
 | Total lines
 | (**** if
 | more than
 | 99,999,999)
 |
 | Lines displayed
 | or first line
 | if 100,000 or more
```

### H command action characters

The action characters for the H command are shown in [Table 109 on page 129](#).

| Table 109. H Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |

| <i>Table 109. H Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Action Character</b>                                   | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ?                                                         | Display a list of the data sets for an output group. (Access the Job Data Set panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| =                                                         | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| A                                                         | Release a job's output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C                                                         | Purge a job's output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| H                                                         | Hold a job's output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| JS                                                        | Display job steps. (Access the Job Step panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| L                                                         | List a job's output in the log (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LL                                                        | List a job's output in the log, long form (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| O                                                         | Release output to be printed, then purged (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OK                                                        | Release output to be printed and kept (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P                                                         | Purge output data sets (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| S                                                         | Display the data sets for the output group. You can add: <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the output group starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| SA                                                        | Allocate data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SJA                                                       | Allocate job JCL data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| X                                                         | Print the check output. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul>                                                                                                                                                                                                 |

### Columns on the H panel

The columns on the H panel are shown in [Table 110 on page 130](#).

*Table 110. Columns on the H Panel*

| <b>Column name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                                             | <b>Delay</b> |
|--------------------|--------------------------|--------------|--------------------------------------------------------------------------------|--------------|
| <b>JNAME</b>       | JOBNAME                  | 8            | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |              |
| <b>JNUM</b>        | JNum <sup>1</sup>        | 6            | JES job number                                                                 |              |

Table 110. Columns on the H Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                     | Delay |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>JOBID</b>    | JobID             | 8     | JES job ID                                                                                                                      |       |
| <b>OWNERID</b>  | Owner             | 8     | User ID of SYSIN/SYSOUT owner, or default values of ++++++++ or ???????, if user ID not defined to RACF                         |       |
| <b>DPRIO</b>    | Prty              | 4     | JES output group priority                                                                                                       |       |
| <b>OCLASS</b>   | C                 | 1     | JES output class                                                                                                                |       |
| <b>OUTDISP</b>  | ODisp             | 5     | JES output disposition                                                                                                          |       |
| <b>DESTN</b>    | Dest              | 18    | JES print destination name                                                                                                      |       |
| <b>RECCNT</b>   | Tot-Rec           | 9     | Output total record count (lines). Blank for page-mode data.                                                                    |       |
| <b>PAGECNT</b>  | Tot-Page          | 9     | Output page count (lines). Blank if not for page-mode data.                                                                     |       |
| <b>FORMS</b>    | Forms             | 8     | Output form number                                                                                                              |       |
| <b>FCBID</b>    | FCB               | 4     | Output FCB ID                                                                                                                   |       |
| <b>STATUS</b>   | Status            | 16    | JES job status                                                                                                                  |       |
| <b>UCSID</b>    | UCS               | 4     | Output UCS ID (print train required)                                                                                            |       |
| <b>WTRID</b>    | Wtr               | 8     | Output external writer name                                                                                                     |       |
| <b>FLASHID</b>  | Flash             | 5     | Output flash ID                                                                                                                 |       |
| <b>BURST</b>    | Burst             | 5     | 3800 burst indicator                                                                                                            |       |
| <b>PRMODE</b>   | PrMode            | 8     | Printer process mode                                                                                                            |       |
| <b>DEST</b>     | Rmt               | 5     | JES print routing. Remote number if routing is not local. (JES2 only)                                                           |       |
| <b>NODE</b>     | Node              | 5     | JES print node (JES2 only)                                                                                                      |       |
| <b>SECLABEL</b> | SecLabel          | 8     | Security label of data sets                                                                                                     |       |
| <b>OGNAME</b>   | O-Grp-N           | 8     | Output group name (JES2 only)                                                                                                   |       |
| <b>OGID</b>     | OGID1             | 5     | Output group ID 1 (JES2 only)                                                                                                   |       |
| <b>OGID2</b>    | OGID2             | 5     | Output group ID 2 (JES2 only)                                                                                                   |       |
| <b>JPRIO</b>    | JP                | 2     | Job priority                                                                                                                    |       |
| <b>DSDATE</b>   | CrDate            | 10    | Data set creation date. The installation can change the CRDATE column to 19, so that the date and time is included. (JES2 only) |       |
| <b>OHREASON</b> | OHR               | 3     | Output hold reason code                                                                                                         |       |
| <b>OHRSTXT</b>  | Output-Hold-Text  | 37    | Output hold reason text                                                                                                         |       |
| <b>DEVID</b>    | Device            | 18    | Output device name                                                                                                              |       |
| <b>DSYSID</b>   | SysID             | 5     | Printing system (JES2 only)                                                                                                     |       |
| <b>OFFDEVS</b>  | Offs              | 4     | List of offload devices for a job or output that has been offloaded (JES2 only)                                                 |       |

Table 110. Columns on the H Panel (continued)

| Column name     | Title (Displayed)     | Width                | Description                                                                                            | Delay          |
|-----------------|-----------------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------|
| <b>RETCODE</b>  | Max-RC                | 10                   | Return code information for the job                                                                    |                |
| <b>JTYPE</b>    | Type                  | 4                    | Type of address space                                                                                  |                |
| <b>ROOMN</b>    | RNum                  | 8                    | JES job room number                                                                                    | X              |
| <b>PNAME</b>    | Programmer-Name       | 20                   | JES programmer name                                                                                    | X <sup>2</sup> |
| <b>ACCTN</b>    | Acct                  | 4 (JES2)<br>8 (JES3) | JES account number                                                                                     | X              |
| <b>NOTIFY</b>   | Notify                | 8                    | TSO user ID from NOTIFY parameter on job card                                                          | X              |
| <b>ISYSID</b>   | ISys                  | 4 (JES2)<br>8 (JES3) | JES input system ID                                                                                    | X              |
| <b>TIMER</b>    | Rd-Time               | 8                    | Time that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>DATER</b>    | Rd-Date               | 8                    | Date that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>ESYSID</b>   | ESys                  | 4 (JES2)<br>8 (JES3) | JES execution system ID                                                                                | X              |
| <b>TIMEE</b>    | St-Time               | 8                    | Time that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>DATEE</b>    | St-Date               | 8                    | Date that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>TIMEN</b>    | End-Time              | 8                    | Time that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.    | X              |
| <b>DATEN</b>    | End-Date              | 8                    | Date that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.    | X              |
| <b>ICARDS</b>   | Cards                 | 5                    | Number of cards read for job                                                                           | X              |
| <b>JCLASS</b>   | JC                    | 1 or 8               | JES input job class. Default width expands to 8 if there are long class names in the MAS.              |                |
| <b>MCLASS</b>   | MC                    | 2                    | Message class of job                                                                                   | X              |
| <b>SUBGROUP</b> | SubGroup              | 8                    | Submittor group                                                                                        | X              |
| <b>JOBACCT1</b> | JobAcct1 <sup>1</sup> | 20                   | Job accounting field 1                                                                                 | X              |
| <b>JOBACCT2</b> | JobAcct2 <sup>1</sup> | 20                   | Job accounting field 2                                                                                 | X              |
| <b>JOBACCT3</b> | JobAcct3 <sup>1</sup> | 20                   | Job accounting field 3                                                                                 | X              |
| <b>JOBACCT4</b> | JobAcct4 <sup>1</sup> | 20                   | Job accounting field 4                                                                                 | X              |

Table 110. Columns on the H Panel (continued)

| Column name      | Title (Displayed)     | Width | Description                                                                                                                                                                           | Delay |
|------------------|-----------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>JOBACCT5</b>  | JobAcct5 <sup>1</sup> | 20    | Job accounting field 5                                                                                                                                                                | X     |
| <b>JOBCORR</b>   | JobCorrelator         | 32    | User portion of the job correlator (JES2 only)                                                                                                                                        |       |
| <b>DATETIMER</b> | Rd-DateTime           | 19    | Date and time that the job was read in. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the Rd-Date and Rd-Time columns.                   | X     |
| <b>DATETIMEE</b> | St-DateTime           | 19    | Date and time that execution began. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the St-Date and St-Time columns.                       | X     |
| <b>DATETIMEN</b> | End-DateTime          | 19    | Date and time that execution ended. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the End-Date and End-Time columns.                     | X     |
| <b>BERTNUM</b>   | BERTNum               | 7     | Number of BERTs used by this JOE (JES2 only)                                                                                                                                          |       |
| <b>JOBCRDATE</b> | JobCrDate             | 19    | Job creation date (JES2 only).                                                                                                                                                        |       |
| <b>RESGROUP</b>  | ResGroup              | 8     | Resource group name                                                                                                                                                                   |       |
| <b>MAXCC</b>     | Max-CC                | 6     | Maximum condition code                                                                                                                                                                |       |
| <b>XEQSTIME</b>  | XeqSt-DateTime        | 19    | Execution start time (requires JES2 checkpoint activation level z32)                                                                                                                  |       |
| <b>XEQETIME</b>  | XeqEnd-DateTime       | 19    | Execution end time (requires JES2 checkpoint activation level z32)                                                                                                                    |       |
| <b>ISFEND</b>    | .END                  | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |       |

Notes on the table:

1. This column is not included in the default field list.
2. Delayed except when JES is running the z32 activation level.

## Overtypable fields

The fields shown in [Table 111 on page 133](#) can be overtyped by authorized users. (JES2 only, except ODisp)

| Table 111. Overtypable fields on the H panel |                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| Field                                        | Description                                                                           |
| Burst                                        | 3800 burst indicator: YES or NO                                                       |
| C                                            | JES2 output class: A-Z, 0-9                                                           |
| Dest                                         | JES2 print destination name. Modify IP values, shown as node . <IP>, on the OD panel. |
| FCB                                          | Output FCB name                                                                       |

Table 111. Overtypable fields on the H panel (continued)

| Field  | Description                                               |
|--------|-----------------------------------------------------------|
| Flash  | Output flash name                                         |
| Forms  | Output form number                                        |
| ODisp  | JES output disposition: HOLD, LEAVE,KEEP, WRITE, or PURGE |
| PrMode | Printer process mode                                      |
| Prty   | JES2 output group priority: 0-255                         |
| UCS    | Output UCS name                                           |
| Wtr    | Output writer name                                        |

## Input Queue panel (I)

The Input Queue panel allows you to display information about jobs that are on the JES input queue, or that are executing.

### Command

Access the I panel with the **I** command from any SDSF panel.

### Parameters

The parameters shown in [Table 112 on page 135](#) allow you to customize the I display.

The parameter usage is as follows:

```
I(class) (H|NH)
```

**I** with no parameters displays all jobs in all classes and the converter queue (but not TSO users or started tasks). The jobs displayed may be limited by your authorization and by settings for filters such as PREFIX or FILTER.

Consider the following examples:

- **IAC H** - Displays jobs in classes A and C that are held.
- **IA NH** - Displays jobs in class A that are not held.
- **I\$** - Displays the input queue for all TSO users.



| Table 112. I Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| class                   | <p>Limits the job classes. For JES2, type up to 7 one-character classes, with no blanks. Classes are A-Z and 0-9, plus special characters. For JES3, type one class, up to 7 characters. For more complex filters, use the FILTER command.</p> <p><b>Note:</b> Do not use blanks between I and the classes or between classes.</p> <p>You can also use special characters for class (JES2 and JES3):</p> <ul style="list-style-type: none"> <li>• @ - jobs waiting to be transmitted to another node.</li> <li>• * - converter queue</li> <li>• # - started tasks</li> <li>• \$ - TSO users</li> <li>• ! - hardcopy queue</li> </ul> <p><b>Note:</b> The hardcopy queue contains all jobs that have any type of output in the system. Accessing the hardcopy queue by using the I command allows you to find output for a job, whether it is on a held or nonheld JES output queue. You can also use the hardcopy queue to display output that has been printed but that remains in the JES spool.</p> |
| H                       | Displays only held jobs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NH                      | Displays only jobs that are not held.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Panel title information

The title line contains the following information:

```

SDSF INPUT QUEUE DISPLAY ALL CLASSES LINE 1-19 (30)
 | |
 | JES input class or | Total lines
 | classes being | (**** if
 | displayed | more than
 | | 99,999,999)
 | |
 | Lines displayed |
 | or first line if |
 | 100,000 or more |

```

## I command action characters

The action characters for the I command are shown in [Table 113 on page 135](#).

| Table 113. I Command Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |

Table 113. I Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ?                | Display a list of the data sets for a job. (Access the Job Data Set panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A                | Release a held job.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| C                | <p>Cancel a job. You can add:</p> <ul style="list-style-type: none"> <li>• A - Job that is defined to Automatic Restart Manager (ARM)</li> <li>• D - And take a dump</li> <li>• DA - Job that is defined to ARM, and take a dump</li> <li>• DP - And take a dump but do not purge the job's output (JES3 only).</li> <li>• P - And print data sets ready for printing (JES3 only).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| D                | <p>Display job information in the log. You can add:</p> <ul style="list-style-type: none"> <li>• E - Line, page, record, and card counts (JES3 only).</li> <li>• L - Long form (JES2 only).</li> <li>• M - Mains on which the job is eligible to run (JES3 only).</li> <li>• MA - MDS allocate queue information (JES3 only).</li> <li>• ME - MDS error queue information (JES3 only).</li> <li>• MR - MDS restart queue information (JES3 only).</li> <li>• MSS - MDS system select queue information (JES3 only).</li> <li>• MSV - MDS system verify queue information (JES3 only).</li> <li>• MU - MDS unavailable volumes information (JES3 only).</li> <li>• P - Dependencies.</li> <li>• SD - DDNAMEs of all spool data sets that contain data (JES3 only).</li> <li>• SH - DDNAMEs of data sets in spool hold status that contain data (JES3 only).</li> <li>• SP - Spool partition name (JES3 only).</li> <li>• X - Extended (JES3 only).</li> </ul> |

Table 113. I Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E                | Process a job again. You can add (JES2 only): <ul style="list-style-type: none"> <li>• C - Cancel and hold the job prior to execution</li> <li>• S - After the current step completes</li> <li>• SH - After the current step completes, restart and hold</li> </ul>                                                                                                                                                                                                                                       |
| H                | Hold a job.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| I                | Display job delay information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| J                | Start a job immediately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| JD               | Display the job's use of devices. (Access the Job Device panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| JDD              | Display the job ddnames (access the Job DDName panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| JM               | Display the job's use of memory. (Access the Job Memory panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| JP               | Display job dependencies. (Access the Job Dependency panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| JS               | Display the job steps. (Access the Job Step panel.)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| L                | List output status of a job in the log. For JES3, this is job output in the writer queue. You can add: <ul style="list-style-type: none"> <li>• B - SNA/NJE output (JES3 only).</li> <li>• H - Output on the hold queue (JES3 only).</li> <li>• T - TCP/IP job output (JES3 only).</li> </ul>                                                                                                                                                                                                             |
| P                | Cancel a job and purge its output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PP               | Cancel a protected job and purge its output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| S                | Display the data sets for the job. You can add: <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the job starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| W                | Cause job and message logs to spin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Table 113. I Command Action Characters (continued) |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                   | Description                                                                                                                                                                                                                                                                                                                 |
| X                                                  | Print the check output. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul> |

## Columns on the I panel

The columns on the I panel are shown in [Table 114 on page 138](#).

Table 114. Columns on the I Panel

| Column name     | Title (Displayed) | Width                | Description                                                                                                   | Delay |
|-----------------|-------------------|----------------------|---------------------------------------------------------------------------------------------------------------|-------|
| <b>JNAME</b>    | JOBNAME           | 8                    | Job name. This is the fixed field. It is ignored if coded on an FLD statement.                                |       |
| <b>JOBID</b>    | JobID             | 8                    | JES job ID                                                                                                    |       |
| <b>JTYPE</b>    | Type              | 4                    | Type of address space                                                                                         |       |
| <b>JNUM</b>     | JNum <sup>1</sup> | 6                    | JES job number                                                                                                |       |
| <b>OWNERID</b>  | Owner             | 8                    | User ID of job owner, or default values of ++ ++++++ or ????????, if user ID not defined to RACF 1.9 or later |       |
| <b>JPRIO</b>    | PrtY              | 4                    | JES2 input queue priority                                                                                     |       |
| <b>JCLASS</b>   | C                 | 1 or 8               | JES input class. Default width expands to 8 if there are long class names in the MAS.                         |       |
| <b>POS</b>      | Pos               | 5                    | Position within JES input queue class                                                                         |       |
| <b>PRTDEST</b>  | PrtDest           | 18                   | JES print destination name                                                                                    |       |
| <b>ROUTE</b>    | Rmt               | 5                    | JES print routing. Remote number if routing is not local. (JES2 only)                                         |       |
| <b>NODE</b>     | Node              | 5                    | JES print node (JES2 only)                                                                                    |       |
| <b>SYSAFF</b>   | SAff              | 5 (JES2)<br>8 (JES3) | JES execution system affinity (if any)                                                                        |       |
| <b>ACTSYS</b>   | ASys              | 4 (JES2)<br>8 (JES3) | JES execution system ID (for logged-on users only)                                                            |       |
| <b>STATUS</b>   | Status            | 17                   | Status of job                                                                                                 |       |
| <b>SECLABEL</b> | SecLabel          | 8                    | Security label of job                                                                                         |       |
| <b>TGNUM</b>    | TGNum             | 5                    | Track groups used by job                                                                                      |       |
| <b>TGPCT</b>    | TGPct             | 6                    | Percentage of total track group usage                                                                         |       |
| <b>ORIGNODE</b> | OrigNode          | 8                    | Origin node name                                                                                              |       |
| <b>EXECNODE</b> | ExecNode          | 8                    | Execution node name                                                                                           |       |

Table 114. Columns on the I Panel (continued)

| Column name      | Title (Displayed) | Width                | Description                                                                                            | Delay          |
|------------------|-------------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------|
| <b>DEVID</b>     | Device            | 18                   | JES device name                                                                                        |                |
| <b>SRVCLS</b>    | SrvClass          | 8                    | Service class                                                                                          |                |
| <b>WLMPOS</b>    | WPos              | 5                    | Position on the WLM queue                                                                              |                |
| <b>SCHENV</b>    | Scheduling-Env    | 16                   | Scheduling environment for the job                                                                     |                |
| <b>DELAY</b>     | Dly               | 3                    | Indicator that job processing is delayed                                                               |                |
| <b>SSMODE</b>    | Mode              | 4                    | Subsystem managing the job (JES or WLM)                                                                |                |
| <b>ROOMN</b>     | RNum              | 8                    | JES job room number                                                                                    | X              |
| <b>PNAME</b>     | Programmer-Name   | 20                   | JES programmer name field                                                                              | X <sup>2</sup> |
| <b>ACCTN</b>     | Acct              | 4 (JES2)<br>8 (JES3) | JES account number field                                                                               | X              |
| <b>NOTIFY</b>    | Notify            | 8                    | TSO user ID from NOTIFY parameter on job card                                                          | X              |
| <b>ISYSID</b>    | ISys              | 4 (JES2)<br>8 (JES3) | JES input system ID                                                                                    | X              |
| <b>TIMER</b>     | Rd-Time           | 8                    | Time that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>DATER</b>     | Rd-Date           | 8                    | Date that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>ESYSID</b>    | ESys              | 4 (JES2)<br>8 (JES3) | JES execution system ID                                                                                | X              |
| <b>TIMEE</b>     | St-Time           | 8                    | Time that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>DATEE</b>     | St-Date           | 8                    | Date that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>DATE</b>      | St-Date           | 8                    | Date that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | X              |
| <b>ICARDS</b>    | Cards             | 5                    | Number of cards read for job                                                                           | X              |
| <b>MCLASS</b>    | MC                | 2                    | MSGCLASS of job                                                                                        | X              |
| <b>TSREC</b>     | Tot-Lines         | 10                   | Total number of spool records for job                                                                  | X              |
| <b>SPIN</b>      | Spin              | 4                    | Indicator of whether the job is eligible to be spun                                                    |                |
| <b>SUBGROUP</b>  | SubGroup          | 8                    | Submitter group                                                                                        | X <sup>2</sup> |
| <b>PHASENAME</b> | PhaseName         | 20                   | Name of the phase the job is in                                                                        |                |

Table 114. Columns on the I Panel (continued)

| Column name      | Title (Displayed)     | Width | Description                                                                                                                                                         | Delay          |
|------------------|-----------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>PHASE</b>     | Phase                 | 8     | Number of the phase the job is in                                                                                                                                   |                |
| <b>JOBACCT1</b>  | JobAcct1 <sup>1</sup> | 20    | Job accounting field 1                                                                                                                                              | X              |
| <b>JOBACCT2</b>  | JobAcct2 <sup>1</sup> | 20    | Job accounting field 2                                                                                                                                              | X              |
| <b>JOBACCT3</b>  | JobAcct3 <sup>1</sup> | 20    | Job accounting field 3                                                                                                                                              | X              |
| <b>JOBACCT4</b>  | JobAcct4 <sup>1</sup> | 20    | Job accounting field 4                                                                                                                                              | X              |
| <b>JOBACCT5</b>  | JobAcct5 <sup>1</sup> | 20    | Job accounting field 5                                                                                                                                              | X              |
| <b>SUBUSER</b>   | SubUser               | 8     | Submitting user ID                                                                                                                                                  | X <sup>2</sup> |
| <b>DELAYRSN</b>  | DelayRsn              | 32    | Reason for the job delay (JES2 only). The width can be expanded to 127.                                                                                             |                |
| <b>JOBCORR</b>   | JobCorrelator         | 32    | User portion of the job correlator (JES2 only)                                                                                                                      |                |
| <b>ASID</b>      | ASID                  | 5     | ASID of the active job                                                                                                                                              |                |
| <b>ASIDX</b>     | ASIDX                 | 5     | ASID of the active job, in hexadecimal                                                                                                                              |                |
| <b>SYSNAME</b>   | SysName               | 8     | MVS system name where the job is executing                                                                                                                          |                |
| <b>JOBGROUP</b>  | JobGroup              | 8     | Name of the job group associated with job (JES2 only)                                                                                                               |                |
| <b>JOBGRPID</b>  | JobGrpId              | 8     | JES2 job group job ID                                                                                                                                               |                |
| <b>JOBSET</b>    | JobSet                | 8     | Job set within the job group to which this job belongs (JES2 only)                                                                                                  |                |
| <b>JGSTATUS</b>  | JGStatus              | 8     | Status of the job within the dependency network (JES2 only)                                                                                                         |                |
| <b>FLUSHACT</b>  | FlushAct              | 8     | Flush action indicator (JES2 only)                                                                                                                                  |                |
| <b>HOLDUNTIL</b> | HoldUntil             | 19    | HOLDUNTIL date and time (JES2 only)                                                                                                                                 |                |
| <b>STARTBY</b>   | StartBy               | 19    | STARTBY date and time (JES2 only)                                                                                                                                   |                |
| <b>WITH</b>      | With                  | 19    | Name of the job or started task that the job must run with (on the same system) (JES2 only)                                                                         |                |
| <b>DATETIMER</b> | Rd-DateTime           | 19    | Date and time that the job was read in. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the Rd-Date and Rd-Time columns. | X              |
| <b>DATETIMEE</b> | St-DateTime           | 19    | Date and time that execution began. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the St-Date and St-Time columns.     | X              |
| <b>EMAIL</b>     | Email                 | 48    | Email address (JES2 only)                                                                                                                                           | X              |
| <b>BEFOREJOB</b> | BeforeJob             | 9     | Name of job that must run before this one (JES2 only)                                                                                                               |                |
| <b>BEFOREJID</b> | BeforeJID             | 4     | JobID of job that must run before this one (JES2 only)                                                                                                              |                |

Table 114. Columns on the I Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           | Delay |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>AFTERJOB</b>   | AfterJob          | 8     | Name of job that must run after this one (JES2 only)                                                                                                                                  |       |
| <b>AFTERJID</b>   | AfterJID          | 8     | JobID of job that must run after this one (JES2 only)                                                                                                                                 |       |
| <b>SCHDELAY</b>   | SchDelay          | 8     | Job delayed due to schedule hold or after (JES2 only)                                                                                                                                 |       |
| <b>BERTNUM</b>    | BERTNum           | 7     | Number of BERTs used by this job (JES2 only)                                                                                                                                          |       |
| <b>JOENUM</b>     | JOENum            | 6     | Number of JOEs used by this job (JES2 only)                                                                                                                                           |       |
| <b>JOEBERTNUM</b> | JOEBERTs          | 7     | Number of BERTs used for this job's JOEs (JES2 only)                                                                                                                                  |       |
| <b>DUBIOUS</b>    | Dubious           | 7     | NJE job flagged as dubious (YES or NO)                                                                                                                                                |       |
| <b>NETONHOLD</b>  | OrigNHold         | 9     | Original number of job completions before this job can be released (JES2 only)                                                                                                        |       |
| <b>NETCNHOLD</b>  | CurrNHold         | 9     | Current number of job completions before this job can be released (JES2 only)                                                                                                         |       |
| <b>NETNORM</b>    | Normal            | 6     | Action to be taken when any predecessor job completes normally (D, F, or R) (JES2 only)                                                                                               |       |
| <b>NETABNORM</b>  | Abnormal          | 6     | Action to be taken when any predecessor job completes abnormally (D, F, or R) (JES2 only)                                                                                             |       |
| <b>NETNRCMP</b>   | NrCmp             | 5     | Network job normal completion (HOLD, NOHO, or FLSH) (JES2 only)                                                                                                                       |       |
| <b>NETABCMP</b>   | AbCmp             | 5     | Network job abnormal completion (NOKP or KEEP) (JES2 only)                                                                                                                            |       |
| <b>NETOPHOLD</b>  | OpHold            | 6     | Operator hold (YES or NO) (JES2 only)                                                                                                                                                 |       |
| <b>JOBCRDATE</b>  | JobCrDate         | 19    | Job creation date (JES2 only).                                                                                                                                                        |       |
| <b>RESGROUP</b>   | ResGroup          | 8     | Resource group name                                                                                                                                                                   |       |
| <b>JESCANCEL</b>  | JESCancel         | 10    | JES cancel option (allowed or restricted)                                                                                                                                             |       |
| <b>ARRTIME</b>    | Arrival-DateTime  | 19    | Arrival time when job first placed on current queue and not held                                                                                                                      |       |
| <b>CQTIME</b>     | CurrQ-DateTime    | 19    | Time job arrived on current queue                                                                                                                                                     |       |
| <b>XEQSTIME</b>   | XeqSt-DateTime    | 19    | Execution start time (requires JES2 checkpoint activation level z32)                                                                                                                  |       |
| <b>XEQETIME</b>   | XeqEnd-DateTime   | 19    | Execution end time (requires JES2 checkpoint activation level z32)                                                                                                                    |       |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |       |

Notes on the table:

1. This column is not included in the default field list.

2. Delayed except when JES is running the z32 activation level.

# Initiator panel (INIT)

The INIT panel allows you to display information about JES-managed and WLM-managed initiators.

## Command

Access the INIT panel with the **INIT** command from any SDSF panel.

## Parameters

The parameters shown in [Table 115 on page 142](#) allow you to customize the INIT display.

The parameter usage is as follows:

INIT (JES | WLM | ALL)

| Table 115. INIT Parameters |                                               |
|----------------------------|-----------------------------------------------|
| Parameter                  | Description                                   |
| JES                        | Displays JES-managed initiators.              |
| WLM                        | Displays WLM-managed initiators.              |
| ALL                        | Displays all initiators. This is the default. |

## Panel title information

The title line contains the following information:

|                        |                   |                    |
|------------------------|-------------------|--------------------|
| SDSF INITIATOR DISPLAY | SYS1              | LINE 1-17 (30)     |
|                        |                   |                    |
|                        | SYSNAME value or  | Total lines        |
|                        | name of the local | (**** if           |
|                        | system            | more than          |
|                        |                   | 99,999,999)        |
|                        |                   |                    |
|                        |                   | Lines displayed    |
|                        |                   | or first line      |
|                        |                   | if 100,000 or more |

## INIT command action characters

The action characters for the INIT command are shown in [Table 116 on page 142](#).

| Table 116. INIT Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |



| <i>Table 116. INIT Command Action Characters (continued)</i> |                                                                                                                |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Action Character                                             | Description                                                                                                    |
| =                                                            | Repeat previous action character or overtype.                                                                  |
| D                                                            | Display information about an initiator.                                                                        |
| DL                                                           | Display the long form of information about an initiator.                                                       |
| JD                                                           | Display the job's use of devices. (Access the Job Detail Device panel.)                                        |
| JDD                                                          | Display the job ddnames (access the Job DDName panel).                                                         |
| JM                                                           | Display the job's use of memory. (Access the Job Detail Memory panel.)                                         |
| P                                                            | Stop an initiator when the current job completes. (JES-managed initiators only.)                               |
| S                                                            | Start an initiator.                                                                                            |
| Z                                                            | Halt an initiator when the current job completes. This suspends, rather than stops, the initiator (JES2 only). |

### Columns on the INIT panel

The columns on the INIT panel are shown in [Table 117 on page 143](#).

*Table 117. Columns on the INIT Panel*

| Column name    | Title (Displayed) | Width                | Description                                                                                                             |
|----------------|-------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>INTNAME</b> | ID                | 4 (JES2)<br>8 (JES3) | Initiator ID (JES2) or group or class name (JES3). This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>  | Status            | 10                   | Initiator status                                                                                                        |
| <b>ICLASS</b>  | Classes           | 8                    | JES2 initiator classes (JES2 only). Multi-character classes and groups shows as periods (.).                            |
| <b>JNAME</b>   | JobName           | 8                    | Job name                                                                                                                |
| <b>STEPN</b>   | StepName          | 8                    | Job step name                                                                                                           |
| <b>PROCS</b>   | ProcStep          | 8                    | Procedure step name (JES2 only)                                                                                         |
| <b>JOBID</b>   | JobID             | 8                    | JES job ID or work ID                                                                                                   |
| <b>JCLASS</b>  | C                 | 8                    | JES input class at time job was selected for execution                                                                  |
| <b>ASID</b>    | ASID              | 4                    | Address space identifier                                                                                                |
| <b>ASIDX</b>   | ASIDX             | 5                    | Address space identifier in hexadecimal                                                                                 |
| <b>OWNERID</b> | Owner             | 8                    | User ID of the owner of the active job                                                                                  |
| <b>SYSNAME</b> | SysName           | 8                    | System name                                                                                                             |

Table 117. Columns on the INIT Panel (continued)

| Column name      | Title (Displayed) | Width                | Description                                                                                                                                                                           |
|------------------|-------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSYSID</b>    | SysID             | 5 (JES2)<br>8 (JES3) | JES member name (JES2) or the system on which the job is active under the class (JES3, resource type of INIT)                                                                         |
| <b>JESNAME</b>   | JESN              | 4                    | JES subsystem name                                                                                                                                                                    |
| <b>JESLEVEL</b>  | JESLevel          | 8                    | JES level                                                                                                                                                                             |
| <b>SECLABEL</b>  | SecLabel          | 8                    | Security label of the job                                                                                                                                                             |
| <b>SRVCLASS</b>  | SrvClass          | 8                    | For JES-managed initiators, shows the service class of the active job. For WLM-managed initiators, shows the service class the initiator is running.                                  |
| <b>IMODE</b>     | Mode              | 4                    | Initiator mode (group rows only)                                                                                                                                                      |
| <b>BARRIER</b>   | Barrier           | 7                    | Group scheduling barrier (JES3 only, group rows only)                                                                                                                                 |
| <b>DEFAULT</b>   | Default           | 7                    | Default group indicator (JES3 only)                                                                                                                                                   |
| <b>DEFCNT</b>    | DefCount          | 8                    | Defined initiator count (JES3 only, group rows only)                                                                                                                                  |
| <b>ALLOCCNT</b>  | AllocCount        | 10                   | Allocated initiator count (JES3 only)                                                                                                                                                 |
| <b>USECOUNT</b>  | UseCount          | 8                    | In-use initiator count (JES3 only)                                                                                                                                                    |
| <b>ALLOC</b>     | Alloc             | 5                    | Allocation option (JES3 only, group rows only), which determines when the execution resources are to be allocated to the JES-managed group                                            |
| <b>UNALLOC</b>   | Unalloc           | 7                    | Unallocation indicator (JES3 only, group rows only)                                                                                                                                   |
| <b>GROUP</b>     | Group             | 8                    | Group name                                                                                                                                                                            |
| <b>RESTYPE</b>   | ResType           | 7                    | Resource type (group or class)                                                                                                                                                        |
| <b>ICLASS1-8</b> | Class1-8          | 8                    | JES2 initiator classes 1-8, including multi-character classes and groups (JES2 only)                                                                                                  |
| <b>INTNUM</b>    | IntNum            | 6                    | Initiator number (JES2 only)                                                                                                                                                          |
| <b>JTYPE</b>     | Type              | 4                    | Type of address space                                                                                                                                                                 |
| <b>JNUM</b>      | JNum <sup>1</sup> | 6                    | JES job number                                                                                                                                                                        |
| <b>ISFEND</b>    | .END              | 4                    | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. JNUM is not included in the default field list.

## Job Class panel (JC)

The Job Class (JC) panel allows you to display and control the job classes in the JES2 MAS or JES3 JESPLEX. It shows both JES and WLM managed classes.

# Command

Access the JC panel with the **JC** command from any SDSF panel.

# Panel title information

The title line contains the following information:

SDSF JOB CLASS DISPLAY ALL CLASSES

JES job classes  
being displayed

LINE 1-17 (38)

Lines displayed  
or first line  
if 100,000

Total lines  
(\*\*\*\* if more  
than 99,999,999)

# Parameters

**JC** with no parameters displays all job classes. The parameter shown in [Table 118 on page 145](#) allows you to customize the JC display.

The parameter usage is as follows:

```
JC(classes)
```

Consider the following example:

- **JCah** - Displays job classes A and H.

| Table 118. JC Parameters |                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                                                                                                                                                                |
| classes                  | A list of up to 6 classes (JES2), or one class (JES3), to include. For JES2, classes are one character, A-Z, 0-9, \$ (TSO users) or # (started tasks). Use the FILTER command for longer class names.<br><br><b>Note:</b> Do not use blanks between JC and the classes or between classes. |

# JC command action characters

The action characters for the JC command are shown in [Table 119 on page 145](#).

| Table 119. JC Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |

| <i>Table 119. JC Command Action Characters (continued)</i> |                                                                                                         |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Action Character</b>                                    | <b>Description</b>                                                                                      |
| =                                                          | Repeat previous action character or overtype.                                                           |
| D                                                          | Display information about a job class in the logs and ULOG.                                             |
| DC                                                         | Display status for the class in the logs and ULOG (JES3 only).                                          |
| DG                                                         | Display status for the group in the logs and ULOG (JES3 only).                                          |
| DL                                                         | Display job class information in long format (JES2 only).                                               |
| I                                                          | Display member information (access the Job Class Members panel).                                        |
| JRL                                                        | Display the resource limits for the selected job class (access the Class Resource Limit panel).         |
| ST                                                         | Display the ST panel for all jobs in the class. For JES2, valid only when the job class is 1 character. |

### Columns on the JC panel

The columns on the JC panel are shown in [Table 120 on page 146](#).

| <i>Table 120. Columns on the JC Panel</i> |                          |              |                                                                                                             |
|-------------------------------------------|--------------------------|--------------|-------------------------------------------------------------------------------------------------------------|
| <b>Column name</b>                        | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                                                                          |
| <b>JOBCL</b>                              | CLASS                    | 8            | Job class. This is the fixed field. It is ignored if coded on an FLD statement.                             |
| <b>JSTATUS</b>                            | Status                   | 8            | Class status                                                                                                |
| <b>MEMBER</b>                             | Member                   | 8            | Member name (JES3 only)                                                                                     |
| <b>GROUP</b>                              | Group                    | 8            | Group name                                                                                                  |
| <b>JMODE</b>                              | Mode                     | 4            | Manager of the class                                                                                        |
| <b>WAITCNT</b>                            | Wait-Cnt                 | 8            | Number of jobs waiting for execution (non-WLM jobs only) (JES2 only)                                        |
| <b>XEQCNT</b>                             | Xeq-Cnt                  | 8            | Number of active jobs                                                                                       |
| <b>HOLDCNT</b>                            | Hold-Cnt                 | 8            | Number of held jobs (JES2 only)                                                                             |
| <b>JCODISP</b>                            | ODisp                    | 13           | Output disposition for normal and abnormal end of the job (JES2 only)                                       |
| <b>QHELD</b>                              | QHld                     | 4            | Job class hold indicator (JES2 only)                                                                        |
| <b>JHOLD</b>                              | Hold                     | 4            | Job hold indicator (JES2 only)                                                                              |
| <b>XBM</b>                                | XBM                      | 8            | Name of the execution batch monitor (XBM) procedure to be executed by jobs running in the class (JES2 only) |
| <b>JCLIM</b>                              | JCLim                    | 5            | Job class limit for the system (JES2 only)                                                                  |

Table 120. Columns on the JC Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                      |
|-----------------|-------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>TDEPTH</b>   | TDepth            | 6     | Maximum job count for the class (JES3 only). This is analogous to the JCLim column for JES2.                                     |
| <b>JPGN</b>     | PGN               | 3     | Default performance-group number (JES2 only)                                                                                     |
| <b>JAUTH</b>    | Auth              | 4     | MVS operator command groups that are to be executed (JES2 only)                                                                  |
| <b>BLP</b>      | BLP               | 3     | Perform bypass label processing (JES2 only)                                                                                      |
| <b>COMMAND</b>  | Command           | 7     | Disposition of commands read from the input stream (JES2 only)                                                                   |
| <b>JLOG</b>     | Log               | 3     | Job log indicator                                                                                                                |
| <b>MSGLEVEL</b> | MsgLV             | 5     | Message level value (JES2 only)                                                                                                  |
| <b>OUTPUT</b>   | Out               | 3     | SYSOUT write indicator (JES2 only)                                                                                               |
| <b>PROCLIB</b>  | PL                | 2     | Default procedure library number (JES2 only)                                                                                     |
| <b>PROMORT</b>  | PromoRt           | 7     | STARTBY promotion rate (JES2 only)                                                                                               |
| <b>REGION</b>   | Region            | 6     | Default region size assigned to each job step (JES2 only)                                                                        |
| <b>SWA</b>      | SWA               | 5     | Placement of SWA control blocks created for jobs, in relation to 16 megabytes in virtual storage (JES2 only)                     |
| <b>TIME</b>     | Max-Time          | 11    | Default for the maximum time that each job step may run (JES2 only)                                                              |
| <b>ACCT</b>     | Acct              | 4     | Requirement for the account number on a JCL JOB statement (JES2 only)                                                            |
| <b>COPY</b>     | Cpy               | 3     | Queue jobs for output processing as though TYPRUN=COPY were specified on the JOB statement (JES2 only)                           |
| <b>JOURNAL</b>  | Jrnl              | 4     | Save job-related information in a job journal                                                                                    |
| <b>PGMRNAME</b> | PgNm              | 4     | Programmer name required on a JCL JOB statement (JES2 only)                                                                      |
| <b>RESTART</b>  | Rst               | 3     | Requeue for execution jobs that had been executing before the IPL of the system was repeated and a JES2 warm start was performed |
| <b>SCAN</b>     | Scn               | 3     | Queue jobs for output processing immediately after JCL conversion (JES2 only)                                                    |
| <b>IEFUJP</b>   | UJP               | 3     | Take the IEFUJP exit when a job is purged (JES2 only)                                                                            |
| <b>IEFUSO</b>   | USO               | 3     | Take the IEFUSO installation exit when the SYSOUT limit is reached for a job (JES2 only)                                         |
| <b>TYPE6</b>    | Tp6               | 3     | Produce type 6 SMF records (JES2 only)                                                                                           |
| <b>TYPE26</b>   | Tp26              | 4     | Produce type 26 SMF records (JES2 only)                                                                                          |

Table 120. Columns on the JC Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDPURG</b>  | CPr               | 3     | Conditionally purge system data sets in this time-sharing user class (JES2 only)                                                                                                      |
| <b>JMCLASS</b>   | MC                | 2     | Message class for all time-sharing sessions (default logon message class for all TSO/E logons) (JES2 only)                                                                            |
| <b>SCHENJC</b>   | Scheduling-Env    | 16    | Scheduling environment for the job (JES2 only)                                                                                                                                        |
| <b>JESLOG</b>    | JESLog            | 13    | Spin options for the jobs' JES2 job log and message log                                                                                                                               |
| <b>XBMPROC</b>   | XBMProc           | 8     | Procedure name for XBM/2 job (JES2 only)                                                                                                                                              |
| <b>DUPJOB</b>    | DupJob            | 6     | Duplicate job names acceptable for this class (JES2 only)                                                                                                                             |
| <b>SDEPTH</b>    | SDepth            | 6     | Setup depth (JES3 only)                                                                                                                                                               |
| <b>PARTNAM</b>   | PartName          | 8     | Spool partition name (JES3 only)                                                                                                                                                      |
| <b>PRITRK</b>    | PriTrk            | 6     | Primary track group allocation (JES3 only)                                                                                                                                            |
| <b>SECTRK</b>    | SecTrk            | 6     | Secondary track group allocation (JES3 only)                                                                                                                                          |
| <b>PRIO</b>      | Prio              | 4     | Priority (JES3 only)                                                                                                                                                                  |
| <b>JOBRC</b>     | JobRC             | 6     | Indicates whether the last (LASTRC) or max (MAXRC) step completion code is reported as the job completion code (JES2 only)                                                            |
| <b>CLACTIVE</b>  | Active            | 6     | Indicates if the class is currently active (JES2 only)                                                                                                                                |
| <b>DSENQSHR</b>  | DSEnqShr          | 8     | Indicates if JES should change data set enqueues to shared access when exclusive access is not required (JES2 only)                                                                   |
| <b>SYSSYM</b>    | SysSym            | 8     | Indicates if system symbols are allowed in batch jobs                                                                                                                                 |
| <b>GDGBIAS</b>   | GDGBias           | 7     | GDG bias default (STEP or JOB)                                                                                                                                                        |
| <b>SYSNAME</b>   | SysName           | 8     | System name for member (JES3 only)                                                                                                                                                    |
| <b>SELMODE</b>   | SelMode           | 8     | Selection mode name (JES3 only)                                                                                                                                                       |
| <b>DESC</b>      | Description       | 60    | Job class description                                                                                                                                                                 |
| <b>JESCANCEL</b> | JESCancel         | 10    | JES cancel option (allowed or restricted)                                                                                                                                             |
| <b>PROCNAME</b>  | ProcName          | 8     | Default procedure library name (JES2 only)                                                                                                                                            |
| <b>QAFF</b>      | QAff              | 4     | JES queue member affinity (if any)                                                                                                                                                    |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## JES Subsystem panel (JES)

The JES subsystem (JES) panel shows all known JES subsystems in the system.

Rows for JES2 primary subsystems or JES3 global subsystems are highlighted.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the subsystem name pattern.

## Command

Access the panel with the **JES** command.

### Panel title information

The title line contains the following information:

| SDSF | JES | SUBSYSTEMS | SY1                            | SY1*                                                 | LINE 1-1 (1)    |
|------|-----|------------|--------------------------------|------------------------------------------------------|-----------------|
|      |     |            | System you are<br>logged on to |                                                      | Total lines     |
|      |     |            |                                | Systems displayed<br>(MVS value or<br>SYSNAME value) | Lines displayed |

## JES command action characters

The action characters for the JES command are shown in Table 121 on page 149.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display JES subsystem information (z/OS operator command).                                          |
| DI               | Display JES initialization information.                                                             |
| DP               | Display information for dynamic POLICYLIB concatenation.                                            |
| DS               | Display SUBMITLIB information.                                                                      |
| J                | Display the JES PROCLIB concatenation (access the PROC panel).                                      |
| JC               | Display JES checkpoint definition (access the CKPT panel).                                          |
| JP               | Display JES POLICYLIB information (access the PROC panel).                                          |
| JS               | Display JES SUBMITLIB information (access the PROC panel).                                          |

Table 121. JES Command Action Characters (continued)

| Action Character | Description                                                                               |
|------------------|-------------------------------------------------------------------------------------------|
| LCK              | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active. |

## Columns on the JES panel

The columns on the JES panel are shown in [Table 122 on page 150](#).

Table 122. Columns on the JES Subsystem Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JESNAME</b>   | NAME              | 4     | Subsystem name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                  |
| <b>JESTYPE</b>   | Type              | 4     | JES subsystem type (JES2/JES3).                                                                                                                                                       |
| <b>PRIMARY</b>   | Primary           | 7     | Is JES2 Primary subsystem (YES/NO).                                                                                                                                                   |
| <b>EMERGENCY</b> | Emergency         | 9     | Is JES2 emergency subsystem (YES/NO).                                                                                                                                                 |
| <b>GLOBAL</b>    | Global            | 6     | Is JES3 global subsystem (YES/NO).                                                                                                                                                    |
| <b>MEMBER</b>    | Member            | 8     | JES MAS member name.                                                                                                                                                                  |
| <b>NODE</b>      | OwnNode           | 8     | JES Node name.                                                                                                                                                                        |
| <b>COMCAHR</b>   | ComChar           | 8     | JES command prefix.                                                                                                                                                                   |
| <b>XCFGROUP</b>  | XCFGGroup         | 8     | JES MAS XCF group name.                                                                                                                                                               |
| <b>STATUS</b>    | Status            | 32    | Status of JES subsystem.                                                                                                                                                              |
| <b>VERSION</b>   | Version           | 8     | Version of JES.                                                                                                                                                                       |
| <b>SERVICE</b>   | Service           | 7     | Service level of JES.                                                                                                                                                                 |
| <b>SSCT</b>      | SSCT              | 8     | SSCT address of the subsystem.                                                                                                                                                        |
| <b>SYSNAME</b>   | SysName           | 8     | System name where console is active.                                                                                                                                                  |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system.                                                                                                                                                        |
| <b>CKPTLEV</b>   | CkptLevel         | 9     | JES2 checkpoint level                                                                                                                                                                 |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Group panel (JG)

The Job Group panel allows you to view information about JES2 job groups, or execution zones. Execution zones are created when JCL is submitted that describes a relationship between a set of jobs.

### Command

Access the Job Group panel with the **JG** command from any SDSF panel. (JES2 only)

### Parameters

The parameter shown in [Table 123 on page 151](#) allows you to customize the JG display.



The parameter usage is as follows:

```
JG (string)
```

**JG** with no parameters displays all job groups.

Consider the following example:

- **JG PAYROLL\*** - Displays all job groups with names that begin with PAYROLL.

| Table 123. JG Parameters |                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                                                                                                                                                |
| string                   | A character string that limits the panel to job groups with names that match the string. The string can be up to 8 characters, including: <ul style="list-style-type: none"><li>• * - any character or string of characters.</li><li>• % - any single character.</li></ul> |

Panel title information

The title line contains the following information:

SDSF JOB GROUPS    SYS1

System you are logged on to

LINE 1-2 (2)

Lines shown      Total lines

JG command action characters

The action characters for the JG command are shown in [Table 124 on page 151](#).

| Table 124. JG Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtyping.                                                     |
| A                                       | Release the job group.                                                                              |
| C                                       | Cancel the job group.                                                                               |
| CP                                      | Cancel and purge the job group.                                                                     |

| <i>Table 124. JG Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                           | Description                                                                                                                                                                                                                                                                                                                     |
| D                                                          | Display information in the log. You can add: <ul style="list-style-type: none"> <li>• E - Jobs in the group that encountered an error.</li> <li>• J - Jobs associated with the group.</li> <li>• L - Information about the group, long form.</li> <li>• N - Network.</li> <li>• P - Dependencies for the group.</li> </ul>      |
| H                                                          | Hold the job group.                                                                                                                                                                                                                                                                                                             |
| JP                                                         | Dependencies for the group (access the Job Dependency panel).                                                                                                                                                                                                                                                                   |
| P                                                          | Purge the job group.                                                                                                                                                                                                                                                                                                            |
| S                                                          | Browse data sets associated with the step. You can add: <ul style="list-style-type: none"> <li>• B - Browse using ISPF Browse.</li> <li>• E - Browse using ISPF Edit.</li> <li>• V - Use ISPF view.</li> <li>• J - Edit JCL for the entire job.</li> </ul>                                                                      |
| ST                                                         | Display details for the job group (access the ST panel).                                                                                                                                                                                                                                                                        |
| X                                                          | Print output data sets. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC).</li> <li>• D - Display the Open Print Data Set panel (XD or XDC).</li> <li>• F - Display the Open Print File panel (XF or XFC).</li> <li>• S - Display the Open Print panel (XS or XSC).</li> </ul> |
| ?                                                          | Display a list of data sets for a job. (Access the Job Data Set panel.)                                                                                                                                                                                                                                                         |

## Columns on the JG panel

The columns on the JG panel are shown in [Table 125 on page 152](#).

*Table 125. Columns on the JG Panel*

| Column name     | Title (Displayed) | Width | Description                                                                          |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------|
| <b>JOBGROUP</b> | JOBGROUP          | 8     | Job group name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>JOBGRPID</b> | JobGrpID          | 8     | Group ID – JobId (job number) of associated logging job for the group                |
| <b>OWNER</b>    | Owner             | 8     | User ID of the owner of the job group                                                |
| <b>STATUS</b>   | Status            | 10    | Status of the job group                                                              |
| <b>CRETCODE</b> | Current-CC        | 10    | Completion code of the job group.                                                    |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSAFF</b>   | SAff              | 5     | List of JES members (affinity mask) where jobs in the zone (group) can run                                                                                                            |
| <b>SCHENV</b>   | Scheduling-Env    | 16    | Scheduling environment where jobs in the group can run                                                                                                                                |
| <b>ONERR</b>    | OnError           | 7     | Action to take when a job group is determined to be in error.                                                                                                                         |
| <b>ERRSTAT</b>  | ErrStat           | 7     | Current error status                                                                                                                                                                  |
| <b>ERRCOND</b>  | ErrorCond         | 18    | Error condition                                                                                                                                                                       |
| <b>SECLABEL</b> | SecLabel          | 8     | Security label associated with the job group                                                                                                                                          |
| <b>MAXCC</b>    | Max-CC            | 6     | Maximum condition code                                                                                                                                                                |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## JESPLEX panel (JP)

The JESPLEX (JP) panel allows you to display and control the members of a JES3 JESPLEX.

The JESPLEX (JP) panel simplifies the display and control of members in a JES3 JESPLEX. It is analogous to the JES2 MAS panel, and they share a common field list.

### Command

Access the JP panel with the **JP** command from any SDSF panel (JES3 only).

### Panel title information

The title line contains the following information:

[illegible]

## JP command action characters

The action characters for the JP command are shown in Table 126 on page 153.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |

| Table 126. JP Command Action Characters (continued) |                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------|
| Action Character                                    | Description                                                                            |
| /                                                   | Show column values for row (ISPF only).                                                |
| //                                                  | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                             | Run a REXX exec.                                                                       |
| =                                                   | Repeat previous action character or overtype.                                          |
| C                                                   | Connect a member.                                                                      |
| D                                                   | Display a member of the JESPLEX in the log.                                            |
| DL                                                  | Display a member of the JESPLEX in the log, long form.                                 |
| F                                                   | Flush jobs currently running on the main.                                              |
| JS                                                  | Display the current status of JES3.                                                    |
| P                                                   | Stop a member of the JESPLEX.                                                          |
| S                                                   | Start a member of the JESPLEX.                                                         |
| SM                                                  | Start the JES3 monitor.                                                                |
| V                                                   | Start scheduling jobs for the member.                                                  |
| VF                                                  | Stop scheduling jobs for the member.                                                   |
| ZM                                                  | Stop the JES3 monitor.                                                                 |

### Columns on the JP panel

The columns on the JP panel are shown in [Table 127 on page 154](#).

| Table 127. Columns on the MAS and JP Panel |                   |                      |            |                                                                                   |
|--------------------------------------------|-------------------|----------------------|------------|-----------------------------------------------------------------------------------|
| Column name                                | Title (Displayed) | Width                | Panel      | Description                                                                       |
| <b>NAME</b>                                | NAME              | 4 (JES2)<br>8 (JES3) | MAS,<br>JP | Member name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>                              | Status            | 12                   | MAS,<br>JP | Member status                                                                     |
| <b>SYSID</b>                               | SID               | 3                    | MAS        | The system ID number                                                              |
| <b>PREVCKPT</b>                            | PrevCkpt          | 8                    | MAS        | Number of seconds elapsed since the previous checkpoint (ss.hh format)            |
| <b>CKPTHOLD</b>                            | Hold              | 8                    | MAS        | Checkpoint hold in hundredths of seconds                                          |
| <b>ACTHOLD</b>                             | ActHold           | 8                    | MAS        | Actual checkpoint hold in hundredths of seconds                                   |
| <b>DORMANCY</b>                            | Dormancy          | 11                   | MAS        | Checkpoint dormancy (minimum,maximum). Format in hundredths of seconds.           |
| <b>ACTDORM</b>                             | ActDorm           | 7                    | MAS        | Actual checkpoint dormancy in hundredths of seconds                               |

Table 127. Columns on the MAS and JP Panel (continued)

| Column name     | Title (Displayed)  | Width                | Panel   | Description                                                                 |
|-----------------|--------------------|----------------------|---------|-----------------------------------------------------------------------------|
| <b>SYNCTOL</b>  | SyncTol            | 7                    | MAS     | Checkpoint synchronization tolerance in seconds                             |
| <b>SYSMODE</b>  | Ind                | 3                    | MAS     | Independent mode                                                            |
| <b>RSYSID</b>   | RSID               | 4                    | MAS     | Name of member performing a \$ESYS                                          |
| <b>SYSNAME</b>  | SysName            | 8                    | MAS, JP | System name of the MVS image on which this JES system is active             |
| <b>VERSION</b>  | Version            | 8                    | MAS, JP | JES version the system is running                                           |
| <b>LASTCKPT</b> | Last-Checkpoint    | 22                   | MAS     | Last date and time checkpoint was taken                                     |
| <b>COMCHAR</b>  | C                  | 1 (JES2)<br>8 (JES3) | MAS, JP | Command character                                                           |
| <b>JESNAME</b>  | JESN               | 4                    | MAS, JP | JES subsystem name                                                          |
| <b>SLEVEL</b>   | SLevel             | 6                    | MAS, JP | JES service level                                                           |
| <b>BOSS</b>     | Boss               | 4                    | MAS     | Indicates if this member is a manager or "boss" of WLM service class queues |
| <b>GLOBAL</b>   | Global             | 6                    | JP      | JES3 Global member indicator                                                |
| <b>COMMAND</b>  | Command            | 8                    | MAS     | Command in progress                                                         |
| <b>TYPE</b>     | Start-Type         | 18                   | MAS, JP | Last start type for the member                                              |
| <b>DATEE</b>    | Start-Date-Time    | 19                   | MAS, JP | Date and time the member was started                                        |
| <b>LASTGCON</b> | LastGCon-Date-Time | 18                   | JP      | Last time the global was contacted                                          |
| <b>PTRACK</b>   | PrimTG             | 6                    | JP      | Primary track group allocation                                              |
| <b>STRACK</b>   | SecTG              | 6                    | JP      | Secondary track group allocation                                            |
| <b>WTOLIM</b>   | WTOLim             | 6                    | JP      | WTO message limit                                                           |
| <b>WTOINT</b>   | WTOInt             | 6                    | JP      | WTO message interval                                                        |
| <b>PCSALIM</b>  | PBufCSA            | 7                    | JP      | Protected buffer CSA limit                                                  |
| <b>PAUXLIM</b>  | PBufAux            | 7                    | JP      | Protected buffer JES3 auxiliary limit                                       |
| <b>PFIXED</b>   | PBufFixed          | 9                    | JP      | Fixed protected buffers                                                     |
| <b>USRPAGE</b>  | UserPages          | 9                    | JP      | User pages per open SYSOUT dataset                                          |
| <b>SELMNAME</b> | SelectModeName     | 14                   | JP      | Selection mode name                                                         |
| <b>SPARTN</b>   | PartName           | 8                    | JP      | Spool partition name                                                        |
| <b>MSGPRF</b>   | MsgPrefix          | 11                   | JP      | Message prefix                                                              |
| <b>MSGDEST</b>  | MsgDest            | 7                    | JP      | Message destination                                                         |

| Column name    | Title (Displayed) | Width | Panel      | Description                                                                                                                                                                           |
|----------------|-------------------|-------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONSTAT</b> | ConnStat          | 13    | JP         | Connect status                                                                                                                                                                        |
| <b>ATTSTAT</b> | AttStat           | 11    | JP         | Attach status                                                                                                                                                                         |
| <b>CKPTLEV</b> | CkptLevel         | 9     | MAS,<br>JP | JES2 checkpoint level (\$ACTIVATE level).                                                                                                                                             |
| <b>ISFEND</b>  | .END              | 4     | MAS,<br>JP | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

---

The JRG panel shows resource groups defined in JES. Use this panel to see defined resource groups and associated information.

### Command

Access the JRG panel with the **JRG** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDSF | JES | RESOURCE | GROUP | SYS1           | TYPE          | LINE 1-8 (8)     |
|------|-----|----------|-------|----------------|---------------|------------------|
|      |     |          |       |                |               |                  |
|      |     |          |       | System you are |               | Lines            |
|      |     |          |       | logged on to   |               | displayed or     |
|      |     |          |       |                | Resource type | first line       |
|      |     |          |       |                |               | if 100,000       |
|      |     |          |       |                |               | or more          |
|      |     |          |       |                |               |                  |
|      |     |          |       |                |               | Total lines      |
|      |     |          |       |                |               | (**** if more    |
|      |     |          |       |                |               | than 99,999,999) |

## JRG command action characters

The action characters for the JRG command are shown in Table 128 on page 156.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display resource group information.                                                                 |

| Table 128. JRG Command Action Characters (continued) |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| Action Character                                     | Description                                       |
| P                                                    | Delete resource group.                            |
| ST                                                   | Display the status of jobs in the resource group. |

## Columns on the JRG panel

The columns on the JRG panel are shown in [Table 129 on page 157](#).

Table 129. Columns on the JRG Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GROUP</b>    | GROUP             | 8     | Resource group name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                             |
| <b>TYPE</b>     | Type              | 8     | Resource type                                                                                                                                                                         |
| <b>STATUS</b>   | Status            | 20    | Status of the resource                                                                                                                                                                |
| <b>ACTION</b>   | Action            | 9     | Resource action                                                                                                                                                                       |
| <b>USEPCT</b>   | Use%              | 9     | Percentage of use                                                                                                                                                                     |
| <b>USAGE</b>    | Usage             | 8     | Current usage of the resource                                                                                                                                                         |
| <b>LIMIT</b>    | Limit             | 8     | Maximum usage of the resource                                                                                                                                                         |
| <b>DESCRIPT</b> | Description       | 20    | Resource description                                                                                                                                                                  |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## JESInfo panel (JRI)

The JES Resource Information (JESINFO) panel allows authorized users to display JES2 resource usage.

Rows representing resource shortages are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the resource name.

### Command

Access the panel with the **JRI** command.

### Panel title information

The title line contains the following information:

```

SDSF JES RESOURCE INFO SYS1 LINE 1-4 (4)
 | |
 System you Lines shown Total lines
 are logged
 on to

```

### JRI command action characters

The action characters for the JRI command are shown in [Table 130 on page 158](#).

Table 130. JRI Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display resource information.                                                                       |
| DL               | Display resource information (long format).                                                         |
| L                | List group information for the resource.                                                            |

## Columns on the JRI panel

The columns on the JRI panel are shown in [Table 134 on page 160](#).

Table 131. Columns on the JESInfo Panel

| Column name       | Title (Displayed) | Width | Description                                                                         |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------|
| <b>NAME</b>       | NAME              | 8     | Resource name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>RESSHORT</b>   | Shortage          | 8     | Resource shortage (YES or NO)                                                       |
| <b>NPRIVSHORT</b> | NPrivShortage     | 13    | Non-privileged shortage (YES or NO)                                                 |
| <b>NPRIVMAX</b>   | NPrivMax          | 8     | Non-privileged maximum                                                              |
| <b>NPRIVUSE</b>   | NPrivUse          | 8     | Non-privileged in use                                                               |
| <b>NPRIVPCT</b>   | NPrivUse%         | 9     | Non-privileged percentage used                                                      |
| <b>NPRIVEXH</b>   | NPrivExhaust      | 12    | Non-privileged exhausted (YES or NO)                                                |
| <b>WARNPCT</b>    | NPrivWarn%        | 10    | Non-privileged warning percentage                                                   |
| <b>PRIVSUP</b>    | PrivSup           | 7     | Privileged support (ON or OFF)                                                      |
| <b>RPRIVSUP</b>   | ResPrivSup        | 10    | Resource privileged support (ON or OFF)                                             |
| <b>PRIVMAX</b>    | PrivMax           | 7     | Privileged maximum                                                                  |
| <b>PRIVUSE</b>    | PrivUse           | 7     | Privileged usage                                                                    |
| <b>PRIVPCT</b>    | PrivUse%          | 8     | Privileged usage percentage                                                         |
| <b>EXHAUST</b>    | PrivExhaustTime   | 19    | Timestamp of predicted privilege exhaustion                                         |
| <b>SMALLENV</b>   | SmallEnv          | 8     | Small environment (YES or NO)                                                       |
| <b>RESDISC</b>    | Description       | 20    | Resource description                                                                |
| <b>SAMPTIME</b>   | SampleTime        | 19    | Timestamp when sample obtained                                                      |
| <b>JESNAME</b>    | JESName           | 7     | JES subsystem name                                                                  |



Table 131. Columns on the JESInfo Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## JESInfo by Job panel (JRJ)

The JES Resource Information by job (JRJ) panel allows authorized users to to display JES2 resource usage and rates by job.

Rows representing resource shortages are highlighted.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts up to two parameters, as follows:

- Jobname [jobid]. The jobid is JOB, TSU, STC, J, T, or S followed by the job number.
- Jobname [job number].
- Job number.

### Command

Access the panel with the **JRJ** command.

### Parameters

The parameter usage is as follows:

```
JRJ (COUNT|C|RATE|R)
```

COUNT or C displays job usage based on resource count, with the highest count listed first. This the default.

Consider the following examples:

- **JRJ** - Displays the JESINFO job panel by resource and resource count.
- **JRJ R** - Displays the JESINFO job panel by resource and resource rate.

| Table 132. JRJ Parameters |                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                        |
| COUNT   C                 | Displays job usage based on resource count, with the highest count listed first. This the default. |
| RATE   R                  | Displays job usage based on resource rate, with the highest rate listed first.                     |

### Panel title information

The title line contains the following information:

|                                |                             |       |                                                           |
|--------------------------------|-----------------------------|-------|-----------------------------------------------------------|
| SDSF JES JOB RESOURCES         | SY1                         | COUNT | LINE 1-19 (300)                                           |
|                                |                             |       |                                                           |
| System you are<br>logged on to |                             |       | Lines displayed<br>or first line<br>if 100,000<br>or more |
|                                |                             |       |                                                           |
|                                | Type of data<br>being shown |       | Total lines<br>(**** if more<br>than 99,999,999)          |

## JRJ command action characters

The action characters for the JRJ command are shown in [Table 133 on page 160](#).

| Table 133. JRJ Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overwrite.                                                      |
| DLI                                      | Display resource information.                                                                       |
| ST                                       | Access the Status Panel for the job name.                                                           |

## Columns on the JRJ panel

The columns on the JRJ panel are shown in [Table 134 on page 160](#).

| Table 134. Columns on the JESInfo by Job Panel |                   |       |                                                                                |
|------------------------------------------------|-------------------|-------|--------------------------------------------------------------------------------|
| Column name                                    | Title (Displayed) | Width | Description                                                                    |
| JOBNAME                                        | NAME              | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |
| JOBID                                          | JobID             | 8     | Job ID                                                                         |
| NAME                                           | Resource          | 8     | Resource name                                                                  |
| USE                                            | Usage             | 5     | Resource usage                                                                 |
| USEPCT                                         | Usage%            | 6     | Resource usage percentage                                                      |
| USERATE                                        | UsageRate         | 9     | Resource usage per minute                                                      |
| NPRIVMAX                                       | NPrivMax          | 8     | Non-privileged maximum                                                         |
| SAMPTIME                                       | SampleTime        | 19    | Timestamp when sample obtained                                                 |
| MEMBER                                         | Member            | 8     | Member name for active job                                                     |
| JESNAME                                        | JESName           | 7     | JES subsystem name                                                             |
| SYSNAME                                        | SysName           | 8     | System name                                                                    |
| SYSLEVEL                                       | SysLevel          | 25    | Level of the operating system                                                  |

Table 134. Columns on the JESInfo by Job Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LIMIT</b>  | Limit             | 11    | Limit                                                                                                                                                                                 |
| <b>ACTION</b> | Action            | 8     | Action                                                                                                                                                                                |
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Class Resource Limit panel (JRJC)

The Class Resource Limit (JRJC) panel provides details of resource usage by JES class. Use this panel to see limits and action that JES will take when resource limits are reached.

### Action character and command

Access the Class Resource Limit panel with the **JRJC** command from any SDSF panel, or by using the **JRL** action character on the Job Class (JC) panel. When the **JRL** action character is used, the data displayed on the JRJC panel is limited to the selected class.

### Panel title information

The title line contains the following information:

|                                       |                     |
|---------------------------------------|---------------------|
| <b>SDSF CLASS RESOURCE LIMIT SYS1</b> | <b>LINE 1-2 (2)</b> |
|                                       |                     |
| System you                            | Lines               |
| are logged on to                      | displayed           |
|                                       |                     |
|                                       | Total lines         |

### JRJC action characters

The action characters for JRJC are shown in [Table 135 on page 161](#).

| Table 135. JRJC Action Characters |                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                  | Description                                                                                         |
| ./                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                 | Show column values for row (ISPF only).                                                             |
| //                                | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                           | Run a REXX exec.                                                                                    |
| =                                 | Repeat previous action character or overtype.                                                       |
| D                                 | Display information about the job class.                                                            |
| DL                                | Display information about the job class, long form.                                                 |
| ST                                | Display the ST panel for the class.                                                                 |

## Columns on the JRJC panel

The columns on the JRJC panel are shown in [Table 136 on page 162](#).

Table 136. Columns on the JRJC Panel

| Column name | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE        | TYPE              | 8     | Resource name. This is the fixed field.                                                                                                                                               |
| JOBCL       | Class             | 8     | Job class                                                                                                                                                                             |
| ACTION      | Action            | 9     | Action taken when limit occurs                                                                                                                                                        |
| LIMITPCT    | Limit%            | 7     | Percent of total resource pool that can be used by jobs in this class                                                                                                                 |
| DESCRIPT    | Description       | 20    | Resource description                                                                                                                                                                  |
| ACTIONVAL   | ActionVal         | 9     | Current action value                                                                                                                                                                  |
| LIMITPCTVAL | LimitVal          | 8     | Current limit percent value                                                                                                                                                           |
| ISFEND      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## JES Resource by User ID panel (JRU)

The JES Resource by User ID (JRU) panel displays critical JES2 resources summarized by the user ID of the job owner. From the displayed table, you can issue the ST action against a row to invoke the SDSF ST panel, which is filtered by the owner. This allows you to take any desired actions against the jobs owned by that user ID.

**Note:** The JRU panel requires the user ID to have PREFIX and OWNER authority, so that JES2 job information can be gathered for all jobs in the MAS.

### Command

Access the JRU panel with the **JRU** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```
SDSF JES USER RESOURCE SYS1 LINE 1-16 (35)
 |
 | System that
 | you are
 | logged on to
 |
 | Lines displayed
 | or first line
 | if 100,000
 | or more
 |
 | Total lines
 | (**** if more
 | than 99,999,999)
```

### JRU command action characters

The action characters for the JRU command are shown in [Table 137 on page 162](#).

| Table 137. JRU Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |

Table 137. JRU Command Action Characters (continued)

| Action Character | Description                                                                            |
|------------------|----------------------------------------------------------------------------------------|
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                   |
| /                | Show column values for row (ISPF only).                                                |
| //               | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)          | Run a REXX exec.                                                                       |
| =                | Repeat previous action character or overtype.                                          |
| LU               | List RACF information for the user ID.                                                 |
| ST               | List job status for the job owner.                                                     |

## Columns on the JRU panel

The columns on the JRU panel are shown in [Table 138 on page 163](#).

Table 138. Columns on the JRU Panel

| Column name         | Title (Displayed) | Width | Description                                  |
|---------------------|-------------------|-------|----------------------------------------------|
| <b>OWNER</b>        | OWNER             | 8     | Job owning user ID. This is the fixed field. |
| <b>TGUSED</b>       | TGUsed            | 8     | Track group total count                      |
| <b>TGPCT</b>        | TG%               | 9     | Track group usage percentage                 |
| <b>JNUMUSED</b>     | JNumUsed          | 8     | Job number total count                       |
| <b>JNUMPCT</b>      | JNum%             | 6     | Job number usage percentage                  |
| <b>JOEUSED</b>      | JOEUsed           | 8     | Job output element total count               |
| <b>JOEPCT</b>       | JOE%              | 6     | Job output element usage percentage          |
| <b>BERTUSED</b>     | BERTUsed          | 8     | Block extension reuse table total count      |
| <b>BERTPCT</b>      | BERT%             | 6     | Block extension reuse table usage percentage |
| <b>ACTIVE</b>       | Active            | 6     | Active status total count                    |
| <b>STC</b>          | STC               | 6     | Started task total count                     |
| <b>TSU</b>          | TSU               | 6     | TSO user total count                         |
| <b>JOB</b>          | Job               | 6     | Batch job total count                        |
| <b>JOBGROUP</b>     | Jobgroup          | 8     | Jobgroup total count                         |
| <b>APPC</b>         | APPC              | 6     | APPC total count                             |
| <b>TOTALTG</b>      | TotalTG           | 8     | MAS track group total count                  |
| <b>TOTALTG PCT</b>  | TotalTG%          | 8     | MAS track group usage percentage             |
| <b>TOTALJNUM</b>    | TotalJNum         | 10    | MAS job number total count                   |
| <b>TOTALJNUMPCT</b> | TotalJNum%        | 11    | MAS job number usage percentage              |
| <b>TOTALJOE</b>     | TotalJOE          | 8     | MAS job output element total count           |
| <b>TOTALJOE PCT</b> | TotalJOE%         | 9     | MAS job output element usage percentage      |

Table 138. Columns on the JRU Panel (continued)

| Column name         | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TOTALBERT</b>    | TotalBERT         | 9     | MAS block extension reuse table total count                                                                                                           |
| <b>TOTALBERTPCT</b> | TotalBERT%        | 10    | MAS block extension reuse table usage percentage                                                                                                      |
| <b>LIMITTG</b>      | LimitTG           | 8     | Track group limit                                                                                                                                     |
| <b>LIMITJNUM</b>    | LimitJnum         | 9     | Job number limit                                                                                                                                      |
| <b>LIMITJOE</b>     | LimitJOE          | 8     | Job output element limit                                                                                                                              |
| <b>LIMITBERT</b>    | LimitBert         | 9     | Block extension reuse table limit                                                                                                                     |
| <b>JESNAME</b>      | JESName           | 7     | JES subsystem name                                                                                                                                    |
| <b>SYSNAME</b>      | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>     | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>       | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Job 0 (J0)

The Job 0 panel allows you to display information about JES3 job JOB0. It is available only in a JES3 environment. With this panel, you can work with data sets that were created by JES3.

### Command

Access the Job 0 panel with the **J0** command from any SDSF panel. (JES3 only)

### Panel title information

The title line contains the following information:

SDSF JOB 0 DISPLAY

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| <b>LINES 8</b>                                | <b>LINE 1-12 (12)</b>                               |
| Total number of<br>lines for all<br>data sets | Total lines<br>(**** if<br>more than<br>99,999,999) |
|                                               | Lines displayed                                     |

### J0 command action characters

The action characters for the J0 command are shown in [Table 139 on page 164](#).

| Table 139. J0 Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |

| <i>Table 139. J0 Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                           | Description                                                                                                                                                                                                                                                                                                           |
| //                                                         | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                |
| %(exec)                                                    | Run a REXX exec.                                                                                                                                                                                                                                                                                                      |
| ?                                                          | Display a list of the data sets.                                                                                                                                                                                                                                                                                      |
| =                                                          | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                         |
| C                                                          | Purge a data set.                                                                                                                                                                                                                                                                                                     |
| D                                                          | Display information in the SYSLOG.                                                                                                                                                                                                                                                                                    |
| H                                                          | Hold a data set.                                                                                                                                                                                                                                                                                                      |
| O                                                          | Release a data set.                                                                                                                                                                                                                                                                                                   |
| P                                                          | Purge a data set.                                                                                                                                                                                                                                                                                                     |
| P                                                          | Purge the job group.                                                                                                                                                                                                                                                                                                  |
| X                                                          | Print a data set. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC)</li> <li>• D - Display the Open Print Data Set panel (XD or XDC)</li> <li>• F - Display the Open Print File panel (XF or XFC)</li> <li>• S - Display the Open Print panel (XS or XSC)</li> </ul> |

## Columns on the J0 panel

The columns on the J0 panel are shown in [Table 140 on page 165](#).

*Table 140. Columns on the J0 Panel*

| Column name    | Title (Displayed) | Width | Description                                                                                                        |
|----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>    | DSPNAME           | 8     | DSP that created the data. This is the fixed field. It is ignored if coded on an FLD statement.                    |
| <b>DSID</b>    | DSID              | 4     | Data set ID number                                                                                                 |
| <b>OWNERID</b> | Owner             | 8     | User ID of SYSIN/SYSOUT owner, or default values of ++++++ or ???????, if user ID not defined to RACF 1.9 or later |
| <b>OCLASS</b>  | C                 | 1     | JES3 output class                                                                                                  |
| <b>COPYCNT</b> | CC                | 2     | Data set copy count                                                                                                |
| <b>PRMODE</b>  | PrMode            | 8     | Data set process mode                                                                                              |
| <b>BURST</b>   | Burst             | 5     | Data set burst indicator                                                                                           |
| <b>FORMS</b>   | Forms             | 8     | Output form number                                                                                                 |
| <b>FCBID</b>   | FCB               | 4     | Output FCB ID                                                                                                      |
| <b>UCSID</b>   | UCS               | 4     | Output UCS ID                                                                                                      |
| <b>WTRID</b>   | Wtr               | 8     | External writer name                                                                                               |
| <b>FLASHID</b> | Flash             | 5     | Output flash ID                                                                                                    |

Table 140. Columns on the JO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FLASHC</b>   | FlashC            | 6     | Flash copies                                                                                                                                                                          |
| <b>SEGID</b>    | SegID             | 5     | Data set segment number                                                                                                                                                               |
| <b>CHARS</b>    | Chars             | 21    | Character arrangement table names                                                                                                                                                     |
| <b>CPYMOD</b>   | CpyMod            | 8     | Copy modification module name                                                                                                                                                         |
| <b>QUEUE</b>    | Queue             | 5     | Queue the data set is on (TCP, BDT, HOLD, WTR)                                                                                                                                        |
| <b>DESTN</b>    | Dest              | 18    | SYSOUT destination                                                                                                                                                                    |
| <b>SECLABEL</b> | SecLabel          | 8     | Security label                                                                                                                                                                        |
| <b>DSDATE</b>   | CrDate-CrTime     | 19    | Data set creation date and time, or, if ***** N/A *****, the creation date and time were not available.                                                                               |
| <b>SPIN</b>     | Spin              | 4     | Indicates whether this is a spin data set                                                                                                                                             |
| <b>SELECT</b>   | Sel               | 3     | Indicates whether the data set is selectable                                                                                                                                          |
| <b>RECCNT</b>   | Rec-Cnt           | 7     | Data set record count                                                                                                                                                                 |
| <b>PAGECNT</b>  | Page-Cnt          | 8     | Data set page count. Blank if not page-mode data.                                                                                                                                     |
| <b>BYTECNT</b>  | Byte-Cnt          | 8     | Data set byte count                                                                                                                                                                   |
| <b>RECFM</b>    | RecFm             | 5     | Record format                                                                                                                                                                         |
| <b>DDNAME</b>   | DDName            | 8     | The ddname                                                                                                                                                                            |
| <b>DSNAME</b>   | DSName            | 44    | Data set name                                                                                                                                                                         |
| <b>STEPN</b>    | StepName          | 8     | Job step that created the SYSOUT                                                                                                                                                      |
| <b>PROCS</b>    | ProcStep          | 8     | Procedure step that created the SYSOUT                                                                                                                                                |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Lines panel (LINE)

The Lines (LI) panel allows you to display information about JES lines and their associated transmitters and receivers.

### Command

Access the Lines panel with the **LI** command from any SDSF panel.

### Parameters

The parameters shown in [Table 141 on page 167](#) allow you to customize the LI display.

The parameter usage is as follows:

```

LINES (line-list)
LINE
LI

```

**LI** with no parameters displays all lines and their associated transmitters and receivers.



- **LI 1-3 6** - Displays lines 1, 2, 3, and 6.
- **LINES SHORT** - Displays information about all lines, but no transmitters or receivers.

Line numbers are valid only for JES2.

The title line contains the following information:

## LI command action characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| C                | Cancel a transmitter or receiver (JES2) or line (JES3)                                              |

| <i>Table 142. LI Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                           | Description                                                                                                                                                                                                                                                                             |
| D                                                          | Display the line, transmitter or receiver in the log. You can add: <ul style="list-style-type: none"> <li>• L - long form, for the line</li> <li>• S - status of the names of the BSC line (JES3 only).</li> <li>• E - cumulative error statistics for the line (JES3 only).</li> </ul> |
| E                                                          | Restart the transmitter or receiver (JES2 only) or line.                                                                                                                                                                                                                                |
| I                                                          | Interrupt the line.                                                                                                                                                                                                                                                                     |
| L                                                          | Fail the line DSP (JES3 only).                                                                                                                                                                                                                                                          |
| LD                                                         | Fail the line DSP with a dump (JES3 only).                                                                                                                                                                                                                                              |
| P                                                          | Drain the line, transmitter, or receiver (JES2 only).                                                                                                                                                                                                                                   |
| Q                                                          | Quiesce line after it completes current activity.                                                                                                                                                                                                                                       |
| S                                                          | Start the transmitter or receiver (JES2 only) or line.                                                                                                                                                                                                                                  |
| SL                                                         | Start the line with tracing (JES3 only).                                                                                                                                                                                                                                                |
| SNL                                                        | Start the line without tracing (JES3 only).                                                                                                                                                                                                                                             |
| SN                                                         | Start network communication (JES2 only).                                                                                                                                                                                                                                                |
| SNR                                                        | Start but prevent network jobs from being received (JES3 only).                                                                                                                                                                                                                         |
| SR                                                         | Start and allow network jobs to be received (JES3 only).                                                                                                                                                                                                                                |
| SRJP                                                       | Start RJP on the line (JES3 only).                                                                                                                                                                                                                                                      |
| V                                                          | Vary online (JES3 only).                                                                                                                                                                                                                                                                |
| VF                                                         | Vary offline (JES3 only).                                                                                                                                                                                                                                                               |

### Columns on the LI panel

The columns on the LI panel are shown in [Table 143 on page 168](#).

*Table 143. Columns on the LI Panel*

| Column name    | Title (Displayed) | Width | Description                                                                       |
|----------------|-------------------|-------|-----------------------------------------------------------------------------------|
| <b>DEVNAME</b> | DEVICE            | 12    | Device name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>  | Status            | 8     | Line status                                                                       |
| <b>UNIT</b>    | Unit              | 5     | Line address or type                                                              |
| <b>NNODE</b>   | Node              | 8     | Node that the line is connected to                                                |
| <b>JNAME</b>   | JobName           | 8     | Job name                                                                          |
| <b>JOBID</b>   | JobID             | 8     | JES job ID                                                                        |

Table 143. Columns on the LI Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------|
| <b>JTYPE</b>    | JType             | 5     | Type of address space                                                                      |
| <b>JNUM</b>     | JNum              | 6     | JES job number                                                                             |
| <b>OWNERID</b>  | Owner             | 8     | User ID of owner                                                                           |
| <b>RECPRT</b>   | Proc-Lines        | 10    | Number of lines processed for the job.                                                     |
| <b>RECCNT</b>   | Tot-Lines         | 10    | Number of lines in the job.                                                                |
| <b>TYPE</b>     | Type              | 4     | Type of line                                                                               |
| <b>LINELIM</b>  | Line-Limit        | 13    | Line limit for the line (JES2 only)                                                        |
| <b>PAGELIM</b>  | Page-Limit        | 13    | Page limit for the line (JES2 only)                                                        |
| <b>PRTWS</b>    | Work-Selection    | 14    | Line work selection criteria (JES2 only)                                                   |
| <b>SESSION</b>  | Session           | 8     | Session name (JES2 only)                                                                   |
| <b>TOTERRS</b>  | Tot-Errs          | 8     | Error count (JES2 only)                                                                    |
| <b>AUTODISC</b> | ADisc             | 5     | Line disconnect option                                                                     |
| <b>CODE</b>     | Code              | 4     | BSC adaptor code                                                                           |
| <b>COMPRESS</b> | Comp              | 4     | BSC data compression option                                                                |
| <b>APPLID</b>   | ApplID            | 8     | Application name for NJE line (JES2 only)                                                  |
| <b>DUPLEX</b>   | Duplex            | 6     | BSC line mode                                                                              |
| <b>INTERFAC</b> | Intf              | 4     | BSC adapter interface                                                                      |
| <b>LINECCHR</b> | LineCChr          | 8     | BSC line control characters configuration (JES2 only)                                      |
| <b>LOG</b>      | Log               | 3     | Message logging option (JES2 only)                                                         |
| <b>REST</b>     | Rest              | 4     | Resistance rating of line (JES2 only)                                                      |
| <b>SPEED</b>    | Speed             | 5     | Speed of the line                                                                          |
| <b>PTRACE</b>   | Tr                | 3     | Trace I/O option                                                                           |
| <b>TRANSPAR</b> | Transp            | 6     | BSC transparency feature                                                                   |
| <b>PSWD</b>     | Password          | 8     | Password                                                                                   |
| <b>DISC</b>     | Discon            | 9     | Disconnect status: NO, INTERRUPT, or QUIESCE (only for active lines).                      |
| <b>RMTSHR</b>   | RmtShr            | 6     | Indicates whether the line is allowed to be dedicated (JES2 only)                          |
| <b>JRNUM</b>    | JRNum             | 7     | Job receivers associated with the line, either a count or D, for default (JES2 only)       |
| <b>JTNUM</b>    | JTNum             | 7     | Job transmitters associated with the line, either a count or D, for default (JES2 only)    |
| <b>SRNUM</b>    | SRNum             | 7     | SYSOUT receivers associated with the line, either a count or D, for default (JES2 only)    |
| <b>STNUM</b>    | STNum             | 7     | SYSOUT transmitters associated with the line, either a count or D, for default (JES2 only) |

Table 143. Columns on the LI Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSNAME</b>  | SysName           | 8     | System Name                                                                                                                                                                           |
| <b>DSYSID</b>   | SysID             | 5     | JES2 member name (JES2 only)                                                                                                                                                          |
| <b>JESNAME</b>  | JESN              | 4     | JES subsystem name                                                                                                                                                                    |
| <b>JESLEVEL</b> | JESLevel          | 8     | z/OS JES2 level                                                                                                                                                                       |
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device (JES2 only)                                                                                                                                              |
| <b>SOCKETN</b>  | SocketN           | 8     | Socket name (JES2 only)                                                                                                                                                               |
| <b>IPADDR</b>   | IPAddr            | 24    | IP address (JES2 only)                                                                                                                                                                |
| <b>IPNAME</b>   | IPName            | 32    | IP name (JES2 only)                                                                                                                                                                   |
| <b>PORT</b>     | Port              | 5     | TCP/IP port number (JES2 only)                                                                                                                                                        |
| <b>PORTNAME</b> | PortName          | 8     | TCP/IP port name. Blank if a port number has been set explicitly. (JES2 only)                                                                                                         |
| <b>SECURE</b>   | Secure            | 6     | Secure socket (JES2 only)                                                                                                                                                             |
| <b>NSNAME</b>   | NSName            | 8     | Network server name (JES2 only)                                                                                                                                                       |
| <b>ANODE</b>    | ANode             | 8     | Adjacent node (JES2 only)                                                                                                                                                             |
| <b>LINELIML</b> | Line-Lim-Lo       | 11    | Line limit, minimum (JES2 only)                                                                                                                                                       |
| <b>LINELIMH</b> | Line-Lim-Hi       | 11    | Line limit, maximum (JES2 only)                                                                                                                                                       |
| <b>PAGELIML</b> | Page-Lim-Lo       | 11    | Page limit, minimum (JES2 only)                                                                                                                                                       |
| <b>PAGELIMH</b> | Page-Lim-Hi       | 11    | Page limit, maximum (JES2 only)                                                                                                                                                       |
| <b>CTRACE</b>   | CTr               | 3     | Common tracing (JES2 only)                                                                                                                                                            |
| <b>VTRACE</b>   | VTr               | 3     | Verbose tracing (JES2 only)                                                                                                                                                           |
| <b>JTRACE</b>   | JTr               | 3     | JES tracing (JES2 only)                                                                                                                                                               |
| <b>CONNECT</b>  | Connect           | 7     | Connect line automatically (JES2 only)                                                                                                                                                |
| <b>CTIME</b>    | Conn-Int          | 10    | Connection interval in minutes (JES2 only)                                                                                                                                            |
| <b>RESTART</b>  | Restart           | 8     | Restart line automatically (JES2 only)                                                                                                                                                |
| <b>RTIME</b>    | Rest-Int          | 10    | Restart interval, in minutes (JES2 only)                                                                                                                                              |
| <b>SODISP</b>   | SODsp             | 5     | Selection output disposition 1 (JES2 only)                                                                                                                                            |
| <b>SODISP2</b>  | SODsp2            | 5     | Selection output disposition 2 (JES2 only)                                                                                                                                            |
| <b>SODISP3</b>  | SODsp3            | 5     | Selection output disposition 3 (JES2 only)                                                                                                                                            |
| <b>SODISP4</b>  | SODsp4            | 5     | Selection output disposition 4 (JES2 only)                                                                                                                                            |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. JNUM is not included in the default field list.

# Link List Sets panel (LLS)

The Link List Sets (LLS) panel allows you to view link list sets that are defined in the sysplex. The row that represents the currently active link list set is highlighted.

## Command

Access the Link List Sets panel with the **LLS** command from any SDSF panel.

## Panel title information

The title line contains the following information:

SDSF LINK LIST SETS

SYS1

System  
you are  
logged  
on to

SYS2

Remote system

LINE 1-2 (2)

Lines displayed  
or first line  
if 100,000

Total lines  
(\*\*\*\* if more  
than 99,999,999)

## LLS command action characters

The action characters for the LLS command are shown in [Table 144 on page 171](#).

| Table 144. LLS Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| ACT                                      | Activate a link list set.                                                                           |
| D                                        | Display information.                                                                                |
| DU                                       | Display users.                                                                                      |
| L                                        | Display link list data sets.                                                                        |
| LCK                                      | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| NEW                                      | Add a new link list set.                                                                            |
| REM                                      | Remove a link list set.                                                                             |
| UPD                                      | Update one or more active jobs to use a new link list set.                                          |

## Columns on the LLS panel

The columns on the LLS panel are shown in [Table 145 on page 172](#).

Table 145. Columns on the LLS Panel

| Column name        | Title (Displayed) | Width | Description                                                                                                                                                                           |
|--------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SETNAME</b>     | NAME              | 4     | Link list set name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                              |
| <b>STATUS</b>      | Status            | 16    | Link list status                                                                                                                                                                      |
| <b>NUMASID</b>     | NumASID           | 7     | ASIDs using the link list set                                                                                                                                                         |
| <b>NUMDATASETS</b> | NumDataSets       | 11    | Number of data sets in the link list set                                                                                                                                              |
| <b>LLA</b>         | LLA               | 3     | LLA indicator. YES if LLA-managed. Otherwise, NO.                                                                                                                                     |
| <b>SEQ</b>         | Seq               | 3     | Sequence number                                                                                                                                                                       |
| <b>SYSNAME</b>     | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>    | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>EXTENT</b>      | NumExtents        | 10    | Number of physical data set extents                                                                                                                                                   |
| <b>EFFEXTENT</b>   | EffExtents        | 10    | Number of effective data set extents                                                                                                                                                  |
| <b>ISFEND</b>      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Link List panel (LNK)

The LnkLst (LNK) panel allows you to display the data sets in the active link list. The panel shows the data sets in the link list.

### Command

Access the Link List panel with the **LNK** command from any SDSF panel.

### Parameters

The panel contains columns that show data set attributes. The attributes are obtained by SDSF by using catalog search and by reading the VTOC for the volume where the data set resides.

You can use the **SHORT** parameter to suppress the gathering of the data set information. When in **SHORT** mode, the columns are visible but they show blanks or zeros based on the formatting type.

The columns that are not retrieved in **SHORT** mode and display as blank or zeros based on column type are as follows:

- VolSer
- BlkSize
- Extent
- SMS
- LRecL
- DSOrg
- RecFm
- CrDate
- RefDate

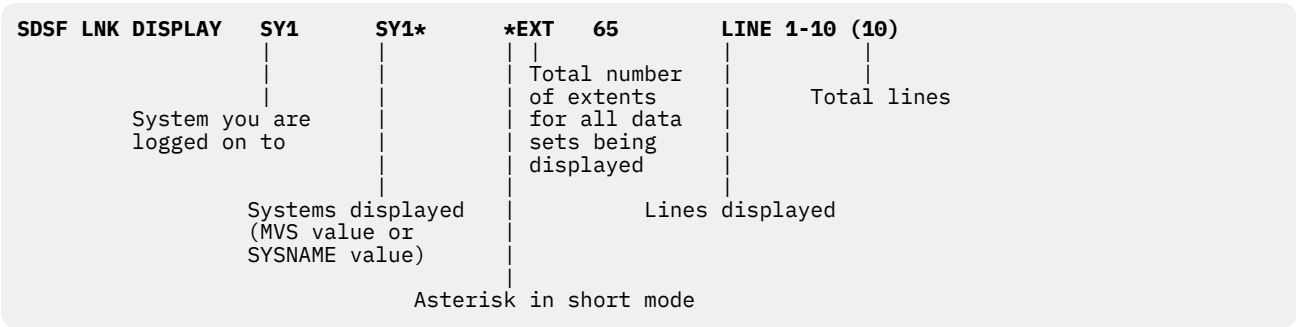
The panel totals the extents for all data sets being shown. In **SHORT** mode, the extent count may be zero or reflect only data sets gathered from down-level systems. To indicate that the extent count may be different from what is expected, and that the panel is in **SHORT** mode, the EXT keyword in the title is shown as \*EXT in **SHORT** mode.

The parameter usage is as follows:

LNK (S | SHORT)

Panel title information

The title line contains the following information:



LNK command action characters

The action characters for the LNK command are shown in [Table 146 on page 173](#).

| Table 146. LNK Command Action Characters |                                                                                                              |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                  |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).          |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                         |
| /                                        | Show column values for row (ISPF only).                                                                      |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.                       |
| %(exec)                                  | Run a REXX exec.                                                                                             |
| =                                        | Repeat previous action character or overtype.                                                                |
| D                                        | Display information. You can add: <ul style="list-style-type: none"><li>N - display data set names</li></ul> |
| FD                                       | Fetch by data set name. Requires the SDSF MFM feature to be active.                                          |
| FJ                                       | Fetch by job name. Requires the SDSF MFM feature to be active.                                               |
| LA                                       | List RACF access. IBM Security Server (RACF) must be active.                                                 |
| LCK                                      | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.                    |
| LV                                       | List data sets for a DASD volume (ISPF only).                                                                |

Table 146. LNK Command Action Characters (continued)

| Action Character | Description                                                    |
|------------------|----------------------------------------------------------------|
| LP               | List RACF profiles. IBM Security Server (RACF) must be active. |
| NEW              | Add existing data sets to a link list.                         |
| REM              | Remove data sets from a link list.                             |
| S                | Browse (ISFAFD only).                                          |
| SB               | Browse (ISPF only).                                            |
| SE               | Edit (ISPF only).                                              |
| SV               | ISPF view.                                                     |

## Columns on the LNK panel

The columns on the LNK panel are shown in [Table 147 on page 174](#).

Table 147. Columns on the LNK Panel

| Column name     | Title (Displayed) | Width                                    | Description                                                                                                                                                                                                                                                                 |
|-----------------|-------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSNAME</b>   | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                                                                                                         |
| <b>SEQ</b>      | Seq               | 3                                        | Sequence number                                                                                                                                                                                                                                                             |
| <b>VOLSER</b>   | VolSer            | 6                                        | Volume serial                                                                                                                                                                                                                                                               |
| <b>BLKSIZE</b>  | BlkSize           | 7                                        | Data set block size                                                                                                                                                                                                                                                         |
| <b>EXTENT</b>   | Extent            | 6                                        | Number of extents                                                                                                                                                                                                                                                           |
| <b>SMS</b>      | SMS               | 3                                        | SMS indicator. YES if the data set is SMS managed. Otherwise, NO.                                                                                                                                                                                                           |
| <b>APF</b>      | APF               | 3                                        | APF indicator. YES means the data set is APF authorized. NO means the data set is not APF authorized. LNK means the data set is APF authorized via the LNKAUTH=LNKLST statement in IEASYSxx, which means that all data sets in the link list are considered APF authorized. |
| <b>LRECL</b>    | LRecl             | 5                                        | Logical record length                                                                                                                                                                                                                                                       |
| <b>DSORG</b>    | DSOrg             | 5                                        | Data set organization                                                                                                                                                                                                                                                       |
| <b>RECFM</b>    | RecFm             | 5                                        | Record format                                                                                                                                                                                                                                                               |
| <b>CRDATE</b>   | CrDate            | 8                                        | Data set creation date                                                                                                                                                                                                                                                      |
| <b>REFDATE</b>  | RefDate           | 8                                        | Data set last referenced date                                                                                                                                                                                                                                               |
| <b>SETNAME</b>  | SetName           | 16                                       | Link list set name                                                                                                                                                                                                                                                          |
| <b>SYSNAME</b>  | SysName           | 8                                        | System name                                                                                                                                                                                                                                                                 |
| <b>SYSLEVEL</b> | SysLevel          | 25                                       | Operating system level                                                                                                                                                                                                                                                      |



Table 147. Columns on the LNK Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Link Pack Area panel (LPA)

The LPA List (LPA) panel allows you to display the data sets in the LPA list.

### Command

Access the Link Pack Area panel with the **LPA** command from any SDSF panel.

### Parameters

The panel contains columns that show data set attributes. The attributes are obtained by SDSF by using catalog search and by reading the VTOC for the volume where the data set resides.

You can use the **SHORT** parameter to suppress the gathering of the data set information. When in **SHORT** mode, the columns are visible but they show blanks or zeros based on the formatting type.

The columns that are not retrieved in **SHORT** mode and display as blank or zeros based on column type are as follows:

- VolSer
- BlkSize
- Extent
- SMS
- LRecL
- DSOrg
- RecFm
- CrDate
- RefDate

The panel totals the extents for all data sets being shown. In **SHORT** mode, the extent count may be zero or reflect only data sets gathered from down-level systems. To indicate that the extent count may be different from what is expected, and that the panel is in **SHORT** mode, the EXT keyword in the title is shown as \*EXT in **SHORT** mode.

The parameter usage is as follows:

```
LPA (S | SHORT)
```

### Panel title information

The title line contains the following information:



Table 149. Columns on the LPA Panel

| Column name     | Title (Displayed) | Width                                    | Description                                                                         |
|-----------------|-------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| <b>DSNAME</b>   | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SEQ</b>      | Seq               | 3                                        | Sequence number                                                                     |
| <b>VOLSER</b>   | VolSer            | 6                                        | Volume serial                                                                       |
| <b>BLKSIZE</b>  | BlkSize           | 7                                        | Data set block size                                                                 |
| <b>EXTENT</b>   | Extent            | 6                                        | Number of extents                                                                   |
| <b>SMS</b>      | SMS               | 3                                        | SMS indicator. YES if the data set is SMS managed. Otherwise, NO.                   |
| <b>APF</b>      | APF               | 3                                        | APF indicator: YES if the data set is APF authorized. Otherwise, NO.                |
| <b>LRECL</b>    | LReCL             | 5                                        | Logical record length                                                               |
| <b>DSORG</b>    | DSOrg             | 5                                        | Data set organization                                                               |
| <b>RECFM</b>    | RecFm             | 5                                        | Record format                                                                       |
| <b>CRDATE</b>   | CrDate            | 8                                        | Data set creation date                                                              |
| <b>REFDATE</b>  | RefDate           | 8                                        | Data set last referenced date                                                       |
| <b>SYSNAME</b>  | SysName           | 8                                        | System name                                                                         |
| <b>SYSLEVEL</b> | SysLevel          | 25                                       | Operating system level                                                              |

## Logical Partition panel (LPAR)

The Logical Partitions (LPAR) panel displays information about the system logical partitions.

**Note:** RMF Monitor III must be active in order to see rows on the SDSF LPAR panel.

### Command

Access the Logical partitions panel with the **LPAR** command from any SDSF panel when running natively and not as a VM guest.

### Panel title information

The title line contains the following information:

```

SDSF LPARS SYS1 009999/000000000000 LINE 1-12 (12)
 | | |
 | System | CPC node | Lines displayed
 | that | (model number/ | or first line
 | you are | serial number) | if 100,000
 | logged | |
 | on to | |
 Total lines
 (**** if more
 than 99,999,999)

```

## LPAR command action characters

The action characters for the LPAR command are shown in [Table 150 on page 178](#).

| Table 150. LPAR Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |

## Columns on the LPAR panel

The columns on the LPAR panel are shown in [Table 151 on page 178](#).

| Table 151. Columns on the LPAR Panel |                   |       |                                                       |
|--------------------------------------|-------------------|-------|-------------------------------------------------------|
| Column name                          | Title (Displayed) | Width | Description                                           |
| <b>NAME</b>                          | NAME              | 8     | Name of the LPAR. This is the fixed field.            |
| <b>LOGCPU</b>                        | LogCPU            | 7     | Number of logical CPUs for the LPAR                   |
| <b>DEDCPU</b>                        | DedCPU            | 7     | Number of dedicated CPUs for the LPAR                 |
| <b>LOGZIIP</b>                       | LogzIIP           | 7     | Number of logical zIIP CPUs for the LPAR              |
| <b>SHARED</b>                        | Shared            | 10    | Relative share for the LPAR for general CP processors |
| <b>SHAREICF</b>                      | ShareICF          | 8     | Relative share for the LPAR for ICF processors        |
| <b>SHAREIFL</b>                      | ShareIFL          | 8     | Relative share for the LPAR for IFL processors        |
| <b>SHAREIIP</b>                      | ShareIIP          | 8     | Relative share for the LPAR for IIP processors        |
| <b>REAL</b>                          | Real              | 11    | Real storage online in megabytes for the LPAR         |
| <b>CPUPCT</b>                        | CPUUse%           | 11    | The CPU usage percentage for the LPAR                 |
| <b>ZIIP</b>                          | zIIP%             | 11    | The zIIP CPU usage percentage for the LPAR            |
| <b>CLUSTER</b>                       | Cluster           | 8     | Name of the cluster to which the LPAR belongs         |
| <b>CAP</b>                           | Capping           | 7     | LPAR is capped (YES or NO)                            |
| <b>WLM</b>                           | WLM               | 3     | LPAR is a WLM-managed LPAR (YES or NO)                |
| <b>WAIT</b>                          | WaitToComplete    | 14    | LPAR is set to wait to complete (YES or NO)           |
| <b>SYSTEM</b>                        | System            | 8     | OS configuration of the LPAR                          |
| <b>GROUP</b>                         | GroupName         | 9     | Name of the capacity group to which the LPAR belongs  |
| <b>MSU</b>                           | DefMSULim         | 11    | Defined MSU limit                                     |
| <b>MLU</b>                           | MaxLicUnits       | 11    | Group maximum license units                           |
| <b>LPARNUM</b>                       | Num               | 3     | LPAR number                                           |

Table 151. Columns on the LPAR Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LPARID</b> | LPARID            | 6     | LPAR identifier                                                                                                                                       |
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Link Pack Directory panel (LPD)

The Link Pack Directory (LPD) panel shows details of the modules in the link pack area.

Rows representing major names (non-alias names) are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the module name.

### Command

Access the panel with the **LPD** command.

### Panel title information

The title line contains the following information:

```

SDSF LPD DISPLAY SYS1 *
 |
 | System you are
 | logged on to
 |
 | Systems displayed
 | (MVS value or
 | SYSNAME value)
 |
LINE 1-10 (10)
|
| Lines displayed
|
Total
lines

```

### LPD command action characters

The action characters for the LPD command are shown in [Table 152 on page 179](#).

| Table 152. LPD Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| LCK                                      | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |

## Columns on the LPD panel

The columns on the LPD panel are shown in [Table 153 on page 180](#).

Table 153. Columns on the Link Pack Directory Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODNAME</b>   | MODNAME           | 8     | Module name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                     |
| <b>MAJOR</b>     | Major             | 8     | Major name when name is an alias                                                                                                                                                      |
| <b>MODEPA</b>    | EPA               | 17    | Entry point address                                                                                                                                                                   |
| <b>MODLOADPT</b> | LoadPt            | 17    | Load point address                                                                                                                                                                    |
| <b>LOCATION</b>  | Location          | 16    | Module location                                                                                                                                                                       |
| <b>MODSIZE</b>   | ModLen            | 8     | Module length if available                                                                                                                                                            |
| <b>TYPE</b>      | Type              | 7     | Link pack directory type                                                                                                                                                              |
| <b>AUTHCOD</b>   | AC                | 2     | Authorization code                                                                                                                                                                    |
| <b>AMODE</b>     | AM                | 2     | Address mode (amode)                                                                                                                                                                  |
| <b>APF</b>       | APF               | 3     | APF authorization (YES or NO)                                                                                                                                                         |
| <b>SEQ</b>       | Seq               | 5     | Search sequence number                                                                                                                                                                |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Multi-Access Spool panel (MAS)

The Multi-Access Spool (MAS) panel allows you to display and control the members of a JES2 MAS. The analogous JES3 JESPLEX panel simplifies the display and control of members in a JES3 JESPLEX.

### Command

Access the Multi-Access Spool panel with the **MAS** command from any SDSF panel. Under JES3 it is treated as a JESPLEX **JP** command.

### Parameters

The parameters shown in [Table 154 on page 181](#) allow you to customize the MAS display.

The parameter usage is as follows:

```
MAS (ALL)
```

**MAS** with no parameters displays only those members that are currently defined.

Consider the following example:

- **MAS** - Display only the defined members of the MAS.

*Table 154. MAS Parameters*

| Parameter | Description                                                                 |
|-----------|-----------------------------------------------------------------------------|
| ALL       | Displays all members in the MAS, even those that are not currently defined. |

### Panel title information

The title line contains the following information:

| SDSF | MAS | MEMBERS                               | AQFT              | SYSA1N | 32%                                                                | AUTO                 | CRIT                         | LINE | 1-9                | (9)            |
|------|-----|---------------------------------------|-------------------|--------|--------------------------------------------------------------------|----------------------|------------------------------|------|--------------------|----------------|
|      |     | Member the<br>user is<br>logged on to |                   |        |                                                                    | Auto<br>ckpt<br>mgmt | Critical<br>notice<br>issued |      |                    | Total<br>lines |
|      |     |                                       | XCF group<br>name |        | Spool<br>utilization,<br>as a percentage<br>of the spool<br>in use |                      |                              |      | Lines<br>displayed |                |

## MAS command action characters

The action characters for the MAS command are shown in [Table 155](#) on [page 181](#).

Table 155. MAS Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                               |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                              |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                           |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                            |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                  |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                                                                     |
| D                | Display a member of the MAS in the log.                                                                                                                                                                                                                                                           |
| E                | Restart a member of the MAS.                                                                                                                                                                                                                                                                      |
| ER               | Reset a member of the MAS.                                                                                                                                                                                                                                                                        |
| J                | <p>Display the current state of monitor subtasks. You can add:</p> <ul style="list-style-type: none"> <li>• D - Display monitor details.</li> <li>• H - Display resource history.</li> <li>• J - Display the current state of JES2.</li> <li>• S - Display the current status of JES2.</li> </ul> |

| <i>Table 155. MAS Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                            | Description                                                                                                                                                                                                                                                                                                                                    |
| P                                                           | Stop a member of the MAS. You can add: <ul style="list-style-type: none"> <li>• A - Stop a member of the MAS (abend).</li> <li>• Q - Stop a member of the MAS, ignoring cross-system activity.</li> <li>• T - Stop a member of the MAS, ignoring active programs.</li> <li>• X - Stop scheduling of jobs for the member of the MAS.</li> </ul> |
| PC                                                          | Stop conversion on a member of the MAS. JES2 only                                                                                                                                                                                                                                                                                              |
| S                                                           | Start a member of the MAS.                                                                                                                                                                                                                                                                                                                     |
| SC                                                          | Start conversion on a member of the MAS. JES2 only                                                                                                                                                                                                                                                                                             |
| SX                                                          | Start scheduling of jobs for a member of the MAS.                                                                                                                                                                                                                                                                                              |
| ZM                                                          | Stop the JES2 monitor.                                                                                                                                                                                                                                                                                                                         |

### Columns on the MAS panel

The columns on the MAS panel are shown in [Table 156 on page 182](#).

*Table 156. Columns on the MAS and JP Panel*

| Column name     | Title (Displayed) | Width                | Panel      | Description                                                                       |
|-----------------|-------------------|----------------------|------------|-----------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 4 (JES2)<br>8 (JES3) | MAS,<br>JP | Member name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>   | Status            | 12                   | MAS,<br>JP | Member status                                                                     |
| <b>SYSID</b>    | SID               | 3                    | MAS        | The system ID number                                                              |
| <b>PREVCKPT</b> | PrevCkpt          | 8                    | MAS        | Number of seconds elapsed since the previous checkpoint (ss.hh format)            |
| <b>CKPTHOLD</b> | Hold              | 8                    | MAS        | Checkpoint hold in hundredths of seconds                                          |
| <b>ACTHOLD</b>  | ActHold           | 8                    | MAS        | Actual checkpoint hold in hundredths of seconds                                   |
| <b>DORMANCY</b> | Dormancy          | 11                   | MAS        | Checkpoint dormancy (minimum,maximum). Format in hundredths of seconds.           |
| <b>ACTDORM</b>  | ActDorm           | 7                    | MAS        | Actual checkpoint dormancy in hundredths of seconds                               |
| <b>SYNCTOL</b>  | SyncTol           | 7                    | MAS        | Checkpoint synchronization tolerance in seconds                                   |
| <b>SYSMODE</b>  | Ind               | 3                    | MAS        | Independent mode                                                                  |
| <b>RSYSID</b>   | RSID              | 4                    | MAS        | Name of member performing a \$ESYS                                                |



Table 156. Columns on the MAS and JP Panel (continued)

| Column name     | Title (Displayed)  | Width                | Panel      | Description                                                                 |
|-----------------|--------------------|----------------------|------------|-----------------------------------------------------------------------------|
| <b>SYSNAME</b>  | SysName            | 8                    | MAS,<br>JP | System name of the MVS image on which this JES system is active             |
| <b>VERSION</b>  | Version            | 8                    | MAS,<br>JP | JES version the system is running                                           |
| <b>LASTCKPT</b> | Last-Checkpoint    | 22                   | MAS        | Last date and time checkpoint was taken                                     |
| <b>COMCHAR</b>  | C                  | 1 (JES2)<br>8 (JES3) | MAS,<br>JP | Command character                                                           |
| <b>JESNAME</b>  | JESN               | 4                    | MAS,<br>JP | JES subsystem name                                                          |
| <b>SLEVEL</b>   | SLevel             | 6                    | MAS,<br>JP | JES service level                                                           |
| <b>BOSS</b>     | Boss               | 4                    | MAS        | Indicates if this member is a manager or "boss" of WLM service class queues |
| <b>GLOBAL</b>   | Global             | 6                    | JP         | JES3 Global member indicator                                                |
| <b>COMMAND</b>  | Command            | 8                    | MAS        | Command in progress                                                         |
| <b>TYPE</b>     | Start-Type         | 18                   | MAS,<br>JP | Last start type for the member                                              |
| <b>DATEE</b>    | Start-Date-Time    | 19                   | MAS,<br>JP | Date and time the member was started                                        |
| <b>LASTGCON</b> | LastGCon-Date-Time | 18                   | JP         | Last time the global was contacted                                          |
| <b>PTRACK</b>   | PrimTG             | 6                    | JP         | Primary track group allocation                                              |
| <b>STRACK</b>   | SecTG              | 6                    | JP         | Secondary track group allocation                                            |
| <b>WTOLIM</b>   | WTOLim             | 6                    | JP         | WTO message limit                                                           |
| <b>WTOINT</b>   | WTOInt             | 6                    | JP         | WTO message interval                                                        |
| <b>PCSALIM</b>  | PBufCSA            | 7                    | JP         | Protected buffer CSA limit                                                  |
| <b>PAUXLIM</b>  | PBufAux            | 7                    | JP         | Protected buffer JES3 auxiliary limit                                       |
| <b>PFIXED</b>   | PBufFixed          | 9                    | JP         | Fixed protected buffers                                                     |
| <b>USRPAGE</b>  | UserPages          | 9                    | JP         | User pages per open SYSOUT dataset                                          |
| <b>SELMNAME</b> | SelectModeName     | 14                   | JP         | Selection mode name                                                         |
| <b>SPARTN</b>   | PartName           | 8                    | JP         | Spool partition name                                                        |
| <b>MSGPRF</b>   | MsgPrefix          | 11                   | JP         | Message prefix                                                              |
| <b>MSGDEST</b>  | MsgDest            | 7                    | JP         | Message destination                                                         |
| <b>CONSTAT</b>  | ConnStat           | 13                   | JP         | Connect status                                                              |
| <b>ATTSTAT</b>  | AttStat            | 11                   | JP         | Attach status                                                               |
| <b>CKPTLEV</b>  | CkptLevel          | 9                    | MAS,<br>JP | JES2 checkpoint level (\$ACTIVATE level).                                   |

Table 156. Columns on the MAS and JP Panel (continued)

| Column name   | Title (Displayed) | Width | Panel      | Description                                                                                                                                                                           |
|---------------|-------------------|-------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | MAS,<br>JP | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Memory Contents panel (MEM)

The Memory Contents (MEM) panel allows you to browse the memory contents for any address space within the sysplex, including common storage and 64-bit memory objects.

### Command

Access the Memory Contents panel with the **MEM** command from any SDSF panel.

### Parameters

The parameter usage is as follows:

```
MEM (address) (asid) (sysname)
```

The keywords are positional.

**MEM** with no parameters displays memory in your own address space on the local system beginning with address 0.

| Table 157. MEM Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>address</i>            | Specifies the starting hexadecimal address of the memory to be displayed. Leading zeroes can be omitted and the underscore character can be used to separate the high half and low half of a 64-bit address. The default address is 0. When the storage at the specified address is not available, the MEM command advances until memory that can be displayed is located, and adjusts the starting address accordingly. |
| <i>asid</i>               | Specifies the hexadecimal address space ID whose memory is to be displayed. Leading zeroes can be omitted. The default ASID is your own address space.                                                                                                                                                                                                                                                                   |
| <i>sysname</i>            | Specifies the specific system name within the sysplex where the ASID is active. The default sysname is the local system. The sysname cannot be a pattern.                                                                                                                                                                                                                                                                |

### Examples

```
MEM 07FCE8
```

Display the memory contents at address x'07FCE8' in your own address space on the local system.

```
MEM 50_0048CA000 CD
```

Display the contents of storage within a 64-bit memory object owned by ASID x'00CD' starting at address x'00000050\_0048CA000'.

MEM 01E00EAC 00AB SYSA

Display memory contents at address x'01E00EAC' in ASID x'00AB' on remote system SYSA.

## Panel title information

The title line contains the following information:

|             |                                      |                  |                        |          |                                                  |
|-------------|--------------------------------------|------------------|------------------------|----------|--------------------------------------------------|
| SDSF MEMORY | SYS1                                 | SYS2             | 00C1                   | IBMUSER  | LINE 1-17 (256)                                  |
|             | System<br>you are<br>logged<br>on to |                  | Address<br>space<br>ID | Job name | Lines displayed<br>or first line<br>if 100,000   |
|             |                                      | Remote<br>system |                        |          | Total lines<br>(**** if more<br>than 99,999,999) |

## MEM command action characters

The action characters for the MEM command are shown in [Table 158 on page 185](#).

| Table 158. MEM Command Action Characters |                                                                                                              |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                  |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).          |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                         |
| /                                        | Show column values for row (ISPF only).                                                                      |
| %(exec)                                  | Run a REXX exec.                                                                                             |
| D(n)                                     | Select the nth word in the <b>Contents</b> column as the 31-bit start address for a new memory browse.       |
| G(n)                                     | Select the nth word in the <b>Contents</b> column as the 64-bit start address for a new memory browse.       |
| M                                        | Display a map of the memory structure in a report using SDSF browse.                                         |
| RC                                       | Run a chain of control blocks. Displays a pop-up in which you can enter the parameters of the control block. |
| S                                        | Select the current row as the start address for a new memory browse.                                         |

## Securing the MEM command

In order for you to browse memory in another address space, you must have READ authority to the SDSF class profile:

ISFJOB.STORAGE.owner.jobname.sysname

When the page of storage at the target address has never been referenced, it is possible that the MEM command will issue a STORAGE SKIPPED message. To ensure that the target page is paged in, the MEM command will "touch" the storage if the user has CONTROL authority to the above profile.

## Displaying mapped structures

When the M action is used against a row on the MEM display, an SDSF memory map panel displays to show the memory contents mapped to a known structure. If you enter M on its own, SDSF shows a pop-up panel where you can choose from a list of known structures. You can also directly enter the structure name in the NP field after the action character. For example, enter MCVT for the CVT structure.

For more information about the memory map panel, see the topic [“MAP panel” on page 367](#).

## Columns on the MEM panel

The columns on the MEM panel are shown in [Table 159 on page 186](#).

Table 159. Columns on the MEM Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADDRESS</b>  | ADDRESS           | 17    | The memory address. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                              |
| <b>OFFSET</b>   | Off               | 4     | Offset from the starting address in hexadecimal                                                                                                                                       |
| <b>CONTENTS</b> | Contents          | 35    | Memory contents in hexadecimal                                                                                                                                                        |
| <b>EBCDIC</b>   | EBCDIC            | 16    | The EBCDIC character translation of storage for the row                                                                                                                               |
| <b>KEY</b>      | Key               | 3     | The storage protection key                                                                                                                                                            |
| <b>FPROT</b>    | FProt             | 5     | Whether the storage is fetch protected                                                                                                                                                |
| <b>ASCII</b>    | ASCII             | 16    | The ASCII character translation of storage for the row                                                                                                                                |
| <b>JNAME</b>    | JobName           | 8     | The job name of the current ASID whose memory is shown                                                                                                                                |
| <b>ASID</b>     | ASID              | 5     | Address space identifier in decimal                                                                                                                                                   |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier in hexadecimal                                                                                                                                               |
| <b>SYSNAME</b>  | SysName           | 8     | The system name where the memory contents were gathered                                                                                                                               |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Module Fetch Data Sets panel (MFD)

The Module Fetch Data Sets (MFD) panel shows information about load module fetch activity summarized by data set name.

Module fetch statistics are gathered when the SDSF server is active and when the Module Fetch Monitor (MFM) feature is enabled either via a FEATURE statement in the current ISFPRMxx or by issuing a MODIFY command. For more information, refer to the topic about the MFM feature in [z/OS SDSF Operation and Customization](#).

## Command

Access the Module Fetch Data Set panel with the **MFD** command from any SDSF panel.

The title line contains the following information:

## MFD command action characters

| Action Character | Description                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).            |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                           |
| /                | Show column values for row (ISPF only).                                                                        |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                         |
| %(exec)          | Run a REXX exec.                                                                                               |
| =                | Repeat previous action character or overwrite.                                                                 |
| FJ               | Module fetch information by job name using the data set. Requires the SDSF MFM feature to be active.           |
| FM               | Module fetch information for all modules in the specific data set. Requires the SDSF MFM feature to be active. |
| SB               | ISPF browse of the load module members in the data set.                                                        |
| SV               | ISPF view of the load module members in the data set.                                                          |

The columns on the MFD panel are shown in Table 161 on page 187.

| Column name    | Title (Displayed) | Width | Description                                     |
|----------------|-------------------|-------|-------------------------------------------------|
| <b>DSNAME</b>  | DSNAME            | 44    | Data set name. This is the fixed field.         |
| <b>FETCH</b>   | Fetch             | 6     | Total fetch count                               |
| <b>AVGDASD</b> | AvgDASD           | 8     | Average fetch duration from DASD (milliseconds) |
| <b>MAXDASD</b> | MaxDASD           | 8     | Maximum fetch duration from DASD (milliseconds) |

Table 161. Columns on the MFD Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                           |
|------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AVGVLF</b>    | AvgVLF            | 8     | Average fetch duration from VLF (milliseconds)                                                                                                        |
| <b>MAXVLF</b>    | MaxVLF            | 8     | Maximum fetch duration from VLF (milliseconds)                                                                                                        |
| <b>FETCHDASD</b> | FetchDASD         | 9     | Total fetches from DASD                                                                                                                               |
| <b>LASTDASD</b>  | LastDASD          | 19    | Date stamp of last fetch from DASD                                                                                                                    |
| <b>FIRSTDASD</b> | FirstDASD         | 19    | Date stamp of first fetch from DASD                                                                                                                   |
| <b>FETCHVLF</b>  | FetchVLF          | 9     | Total fetches from VLF                                                                                                                                |
| <b>LASTVLF</b>   | LastVLF           | 19    | Date stamp of last fetch from VLF                                                                                                                     |
| <b>FIRSTVLF</b>  | FirstVLF          | 19    | Date stamp of first fetch from VLF                                                                                                                    |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Module Fetch Job Names panel (MFJ)

The Module Fetch Job Names (MFJ) panel shows information about load module fetch activity, summarized by the job name that caused the fetch.

Module fetch statistics are gathered when the SDSF server is active and when the Module Fetch Monitor (MFM) feature is enabled either via a **FEATURE** statement in the current ISFPRMxx or by issuing a **MODIFY** command. For more information, refer to the topic about the MFM feature in [z/OS SDSF Operation and Customization](#).

### Command

Access the Module Fetch Job Names panel with the **MFJ** command from any SDSF panel, or by using the **FJ** action character on the MFM or MFD panels.

### Panel title information

The title line contains the following information:

```

SDSF FETCH JOBNAMES SYS1 SYS2 LINE 1-15 (65)
 | | |
 System Systems displayed
 that (MVS value or
 you are SYSNAME value)
 logged
 on to
 Lines displayed
 or first line
 if 100,000
 |
 Total lines
 (**** if more
 than 99,999,999)

```

### MFJ command action characters

The action characters for the MFJ command are shown in [Table 162 on page 189](#).

Table 162. MFJ Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| FJ               | Module fetch information by job name. Requires the SDSF MFM feature to be active.                   |
| FM               | Module fetch information by module name. Requires the SDSF MFM feature to be active.                |
| FP               | List fetch path by job name. Requires the SDSF MFM feature to be active.                            |
| SB               | ISPF browse of the load module member in the data set.                                              |
| SV               | ISPF view of the load module member in the data set.                                                |

## Columns on the MFJ panel

The columns on the MFJ panel are shown in [Table 163 on page 189](#).

Table 163. Columns on the MFJ Panel

| Column name      | Title (Displayed) | Width | Description                                     |
|------------------|-------------------|-------|-------------------------------------------------|
| <b>JNAME</b>     | JOBNAME           | 8     | Job name. This is the fixed field.              |
| <b>MODULE</b>    | Module            | 8     | Module name                                     |
| <b>FETCH</b>     | Fetch             | 6     | Total fetch count                               |
| <b>AVGDASD</b>   | AvgDASD           | 8     | Average fetch duration from DASD (milliseconds) |
| <b>MAXDASD</b>   | MaxDASD           | 8     | Maximum fetch duration from DASD (milliseconds) |
| <b>AVGVLF</b>    | AvgVLF            | 8     | Average fetch duration from VLF (milliseconds)  |
| <b>MAXVLF</b>    | MaxVLF            | 8     | Maximum fetch duration from VLF (milliseconds)  |
| <b>ASIDX</b>     | ASIDX             | 5     | Address space ID (hex)                          |
| <b>DSNAME</b>    | Dataset           | 44    | Data set name                                   |
| <b>FETCHDASD</b> | FetchDASD         | 9     | Total fetches from DASD                         |
| <b>LASTDASD</b>  | LastDASD          | 19    | Date stamp of last fetch from DASD              |
| <b>FIRSTDASD</b> | FirstDASD         | 19    | Date stamp of first fetch from DASD             |
| <b>FETCHVLF</b>  | FetchVLF          | 9     | Total fetches from VLF                          |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LASTVLF</b>  | LastVLF           | 19    | Date stamp of last fetch from VLF                                                                                                                     |
| <b>FIRSTVLF</b> | FirstVLF          | 19    | Date stamp of first fetch from VLF                                                                                                                    |
| <b>BYDCB</b>    | ByDCB             | 5     | Total LOAD with DCB                                                                                                                                   |
| <b>GLOBAL</b>   | Global            | 6     | Total LOAD with GLOBAL=YES                                                                                                                            |
| <b>DIRLOAD</b>  | DirLoad           | 7     | Total directed LOAD with ADDR/ADDR64                                                                                                                  |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>STOKEN</b>   | SToken            | 16    | Address space token                                                                                                                                   |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

Module fetch statistics are gathered when the SDSF server is active and when the Module Fetch Monitor (MFM) feature is enabled either via a FEATURE statement in the current ISFPRMxx or by issuing a MODIFY command. For more information, refer to the topic about the MFM feature in [z/OS SDSF Operation and Customization](#).

Access the Module Fetch Statistics panel with the **MFM** command from any SDSF panel.

The title line contains the following information:

## MFM command action characters

| Table 164. MFM Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |



| <i>Table 164. MFM Command Action Characters (continued)</i> |                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Action Character</b>                                     | <b>Description</b>                                                                     |
| +(n)                                                        | Expand the NP column; n is 4-20. Use RESET to reset.                                   |
| /                                                           | Show column values for row (ISPF only).                                                |
| //                                                          | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                                     | Run a REXX exec.                                                                       |
| =                                                           | Repeat previous action character or overtype.                                          |
| FJ                                                          | Module fetch information by job name. Requires the SDSF MFM feature to be active.      |
| SB                                                          | ISPF browse of the load module member in the data set.                                 |
| SV                                                          | ISPF view of the load module member in the data set.                                   |

## Columns on the MFM panel

The columns on the MFM panel are shown in [Table 165 on page 191](#).

*Table 165. Columns on the MFM Panel*

| <b>Column name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                              |
|--------------------|--------------------------|--------------|-------------------------------------------------|
| <b>MODULE</b>      | MODULE                   | 8            | Module name. This is the fixed field.           |
| <b>FETCH</b>       | Fetch                    | 6            | Total fetch count                               |
| <b>TYPE</b>        | Type                     | 4            | Last fetch type                                 |
| <b>SIZE</b>        | Size                     | 8            | Module size (hex)                               |
| <b>AVGDASD</b>     | AvgDASD                  | 8            | Average fetch duration from DASD (milliseconds) |
| <b>MAXDASD</b>     | MaxDASD                  | 8            | Maximum fetch duration from DASD (milliseconds) |
| <b>AVGVLF</b>      | AvgVLF                   | 8            | Average fetch duration from VLF (milliseconds)  |
| <b>MAXVLF</b>      | MaxVLF                   | 8            | Maximum fetch duration from VLF (milliseconds)  |
| <b>DSNAME</b>      | Dataset                  | 44           | Data set name                                   |
| <b>APF</b>         | APF                      | 3            | APF indicator (YES or NO)                       |
| <b>AUTHCOD</b>     | AC                       | 2            | Authorization code for module                   |
| <b>AMODE</b>       | AM                       | 3            | Addressing mode                                 |
| <b>RMODE</b>       | RM                       | 3            | Residency mode                                  |
| <b>RENT</b>        | Rent                     | 4            | Reenterable indicator (YES or NO)               |
| <b>REUS</b>        | Reus                     | 4            | Reusable indicator (YES or NO)                  |
| <b>FETCHDASD</b>   | FetchDASD                | 9            | Total fetches from DASD                         |
| <b>LASTDASD</b>    | LastDASD                 | 19           | Date stamp of last fetch from DASD              |
| <b>FIRSTDASD</b>   | FirstDASD                | 19           | Date stamp of first fetch from DASD             |

Table 165. Columns on the MFM Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FETCHVLF</b> | FetchVLF          | 9     | Total fetches from VLF                                                                                                                                |
| <b>LASTVLF</b>  | LastVLF           | 19    | Date stamp of last fetch from VLF                                                                                                                     |
| <b>FIRSTVLF</b> | FirstVLF          | 19    | Date stamp of first fetch from VLF                                                                                                                    |
| <b>BYDCB</b>    | ByDCB             | 5     | Total LOAD with DCB                                                                                                                                   |
| <b>GLOBAL</b>   | Global            | 6     | Total LOAD with GLOBAL=YES                                                                                                                            |
| <b>DIRLOAD</b>  | DirLoad           | 7     | Total directed LOAD with ADDR/ADDR64                                                                                                                  |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Module Fetch Paths panel (MFP)

The Module Fetch Paths (MFP) panel displays module fetch statistics from z/OS UNIX file system paths. Note that z/OS UNIX modules fetch events from the job pack area queue are not included in the display.

This command extracts up to 32 bytes of the file name in the last directory and displays it in a separate column on the MFP panel.

Module fetch statistics are gathered when the SDSF server is active and when the Module Fetch Monitor (MFM) feature is enabled either via a FEATURE statement in the current ISFPRMxx or by issuing a MODIFY command. For more information, refer to the topic about the MFM feature in [z/OS SDSF Operation and Customization](#).

### Command

Access the Module Fetch Paths panel with the **MFP** command from any SDSF panel, or by using the **FP** action character against a row on the AD, DA, and MFJ panels.

### Panel title information

The title line contains the following information:

|             |              |              |                                              |                 |                                         |                                                  |
|-------------|--------------|--------------|----------------------------------------------|-----------------|-----------------------------------------|--------------------------------------------------|
| <b>SDSF</b> | <b>FETCH</b> | <b>PATHS</b> | <b>SYS1</b>                                  | <b>SYS2</b>     | <b>ACTIVE</b>                           | <b>LINE 1-16 (59)</b>                            |
|             |              |              | System<br>that<br>you are<br>logged<br>on to | Sysplex<br>name | Current status<br>of the MFM<br>feature | Lines displayed<br>or first line<br>if 100,000   |
|             |              |              |                                              |                 |                                         | Total lines<br>(**** if more<br>than 99,999,999) |

### MFP command action characters

The action characters for the MFP command are shown in [Table 166 on page 193](#).

Table 166. MFP Command Action Characters

| Action Character | Description                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                              |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                             |
| /                | Show column values for row (ISPF only).                                                                                          |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                           |
| %(exec)          | Run a REXX exec.                                                                                                                 |
| =                | Repeat previous action character or overtype.                                                                                    |
| FJ               | Fetch by job name. Requires the SDSF MFM feature to be active.                                                                   |
| JC               | Display the loaded modules for an address space. (Access the Job Modules panel.)                                                 |
| JCS              | Display information about all allocated blocks of common storage for a selected job name. (Access the Job Common Storage panel.) |
| JDCC             | Display CF connections for a job. (Access the CF Connections panel.)                                                             |
| JDD              | Display the data set allocations associated with a job. (Access the Job DDName panel.)                                           |
| JDNA             | Display the job's TCP/IP activity. (Access the Network Activity panel.)                                                          |
| JM               | Display the job's use of memory. (Access the Job Memory panel.)                                                                  |
| JMO              | Display the memory objects owned by the job. (Access the Job Memory Objects Panel.)                                              |
| JT               | List the TCBs for an address space. (Access the Job Tasks panel.)                                                                |

## Columns on the MFP panel

The columns on the MFP panel are shown in [Table 167 on page 193](#).

Table 167. Columns on the MFP Panel

| Column name     | Title (Displayed) | Width | Description                                     |
|-----------------|-------------------|-------|-------------------------------------------------|
| <b>JNAME</b>    | JOBNAME           | 8     | Job name. This is the fixed field.              |
| <b>FILENAME</b> | Filename          | 32    | Module name                                     |
| <b>FETCH</b>    | Fetch             | 6     | Total fetch count                               |
| <b>SIZE</b>     | Size              | 8     | Module size (hex)                               |
| <b>AVGDASD</b>  | AvgDASD           | 8     | Average fetch duration from DASD (milliseconds) |
| <b>MAXDASD</b>  | MaxDASD           | 8     | Maximum fetch duration from DASD (milliseconds) |

Table 167. Columns on the MFP Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                           |
|------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LASTDASD</b>  | LastDASD          | 19    | Date stamp of last fetch from DASD                                                                                                                    |
| <b>FIRSTDASD</b> | FirstDASD         | 19    | Date stamp of first fetch from DASD                                                                                                                   |
| <b>ASIDX</b>     | ASIDX             | 5     | Address space ID (hex)                                                                                                                                |
| <b>PATH</b>      | Path              | 127   | Path name for z/OS UNIX module                                                                                                                        |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>STOKEN</b>    | SToken            | 16    | Address space token                                                                                                                                   |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Main Group panel (MGRP)

The Main group panel (MGRP) displays the main panel as a list of command groups. Groups can be expanded to show only the panels in that group or collapsed to show only the group name. The MGRP panel also shows some commands that are not visible using the tabular SDSF main panel.

### Command

Access the MGRP panel with the **MGRP** command from any SDSF panel.

### Parameters

The parameters shown in [Table 168 on page 194](#) allows you to customize the MGRP display.

The parameter usage is as follows:

```
MGRP (ALL | ON) | OFF
```

MGRP with no parameters displays all groups in a collapsed format.

Consider the following examples:

- **MGRP OFF** - Displays all groups in a collapsed format.
- **MGRP ALL** - Displays all groups in an expanded format.

| Table 168. MGRP Parameters |                                            |
|----------------------------|--------------------------------------------|
| Parameter                  | Description                                |
| ALL   ON                   | Displays all groups in an expanded format. |
| OFF                        | Displays all groups in a collapsed format. |

### Panel title information

The title line contains the following information:



|                              |             |                   |                 |             |
|------------------------------|-------------|-------------------|-----------------|-------------|
| <b>SDSF NETWORK ACTIVITY</b> | <b>SYS1</b> | <b>SYS1*</b>      | <b>LINE 1-9</b> | <b>(9)</b>  |
|                              |             |                   |                 |             |
| System you are               |             |                   |                 | Total lines |
| logged on to                 |             |                   |                 |             |
|                              |             |                   |                 |             |
|                              |             | Systems displayed | Lines displayed |             |
|                              |             | (MVS value or     |                 |             |
|                              |             | SYSNAME value)    |                 |             |

## NA command action characters

The action characters for the NA command are shown in [Table 171 on page 196](#).

| Table 171. NA Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display connection information.                                                                     |
| DA                                      | Display all connection information.                                                                 |
| DAL                                     | Display all connection information, long form.                                                      |
| DB                                      | Display byte count information.                                                                     |
| DBL                                     | Display byte count information, long form.                                                          |
| DN                                      | Display connection.                                                                                 |
| DNL                                     | Display connection, long form.                                                                      |
| DR                                      | Display routing information.                                                                        |
| DRD                                     | Display routing information, detailed.                                                              |
| DRL                                     | Display routing information, long form.                                                             |
| DRDL                                    | Display routing information, detailed, long form.                                                   |

## Columns on the NA panel

The columns on the NA panel are shown in [Table 172 on page 196](#).

| Table 172. Columns on the NA Panel |                   |       |                                                                                |
|------------------------------------|-------------------|-------|--------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                    |
| <b>JNAME</b>                       | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>                      | Status            | 8     | Status                                                                         |
| <b>IPADDR</b>                      | IPAddr            | 24    | IP address                                                                     |
| <b>PORT</b>                        | Port              | 5     | Port number                                                                    |

Table 172. Columns on the NA Panel (continued)

| Column name         | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INBUFSZ</b>      | InBufSz           | 7     | Receive buffer size                                                                                                                                                                   |
| <b>OUTBUFSZ</b>     | OutBufSz          | 8     | Send buffer size                                                                                                                                                                      |
| <b>EXCPCT</b>       | EXCP-Cnt          | 8     | Number of requests                                                                                                                                                                    |
| <b>BYTESIN</b>      | BytesIn           | 8     | Number of bytes received                                                                                                                                                              |
| <b>BYTESOUT</b>     | BytesOut          | 8     | Number of bytes sent                                                                                                                                                                  |
| <b>APPL</b>         | Appl              | 8     | Application name                                                                                                                                                                      |
| <b>LUNAME</b>       | LUName            | 8     | Logical unit name                                                                                                                                                                     |
| <b>CLIENT</b>       | Client            | 8     | Client user ID                                                                                                                                                                        |
| <b>APPLDATA</b>     | ApplData          | 40    | Application data                                                                                                                                                                      |
| <b>STACK</b>        | Stack             | 8     | Stack name                                                                                                                                                                            |
| <b>ASID</b>         | ASID              | 5     | Address space identifier                                                                                                                                                              |
| <b>ASIDX</b>        | ASIDX             | 5     | Address space identifier (hexadecimal)                                                                                                                                                |
| <b>RESID</b>        | ResourceID        | 10    | Resource ID                                                                                                                                                                           |
| <b>STIME</b>        | Start-Time        | 19    | Connection start time                                                                                                                                                                 |
| <b>LASTTIME</b>     | Last-Time         | 19    | Connection last activity time                                                                                                                                                         |
| <b>SYSNAME</b>      | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>     | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>IPADDRLOCAL</b>  | IPAddrLocal       | 24    | Local IP address                                                                                                                                                                      |
| <b>PORTLOCAL</b>    | PortLocal         | 9     | Local port number                                                                                                                                                                     |
| <b>BYTESINRATE</b>  | BytesInRate       | 11    | Bytes in per second                                                                                                                                                                   |
| <b>BYTESOUTRATE</b> | BytesOutRate      | 12    | Bytes out per second                                                                                                                                                                  |
| <b>ISFEND</b>       | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Network Port Activity panel (NAP)

The Network Port Activity (NAP) panel displays TCP/IP network activity summarized by the port number used by the connection. This includes both TCP and UDP ports. From the NAP panel, you can access the Network Activity (NA) panel to see data filtered by a selected port number.

### Command

Access the NAP panel with the **NAP** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|                           |                   |             |                       |
|---------------------------|-------------------|-------------|-----------------------|
| <b>SDSF NETWORK PORTS</b> | <b>SYS1</b>       | <b>SYS1</b> | <b>LINE 1-17 (19)</b> |
|                           |                   |             |                       |
| System you are            | logged on to      |             | Total lines           |
|                           |                   |             |                       |
|                           | Systems displayed |             | Lines displayed       |
|                           | (MVS value or     |             |                       |
|                           | SYSNAME value)    |             |                       |

## NAP action characters

The action characters for the NAP command are shown in [Table 173 on page 198](#).

| Table 173. NAP Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| L                                        | List network connections for the port.                                                              |

## Columns on the NAP panel

The columns on the NAP panel are shown in [Table 174 on page 198](#).

| Table 174. Columns on the NAP Panel |                   |       |                                       |
|-------------------------------------|-------------------|-------|---------------------------------------|
| Column name                         | Title (Displayed) | Width | Description                           |
| <b>PORT</b>                         | PORT              | 5     | Port number. This is the fixed field. |
| <b>TYPE</b>                         | Type              | 4     | Port type (TCP or UDP)                |
| <b>JNAME</b>                        | JobName           | 8     | Owning job name                       |
| <b>CONNECT</b>                      | Connect           | 7     | Total connections                     |
| <b>IPV4</b>                         | IPv4              | 6     | IPv4 connections                      |
| <b>IPV6</b>                         | IPv6              | 6     | IPv6 connections                      |
| <b>BYTESINRATE</b>                  | BytesInRate       | 11    | Bytes in per second                   |
| <b>BYTESOUTRATE</b>                 | BytesOutRate      | 12    | Bytes out per second                  |
| <b>CLOSED</b>                       | Closed            | 6     | Total connections in Closed status    |
| <b>LISTEN</b>                       | Listen            | 6     | Total connections in Listen status    |
| <b>SYNSENT</b>                      | SynSent           | 7     | Total connections in SynSent status   |
| <b>SYNRCVD</b>                      | SynRcvd           | 7     | Total connections in SynRcvd status   |
| <b>ESTABLISH</b>                    | Establish         | 9     | Total connections in Establish status |
| <b>FINWAIT1</b>                     | FinWait1          | 8     | Total connections in FinWait1 status  |



Table 174. Columns on the NAP Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FINWAIT2</b>  | FinWait2          | 8     | Total connections in FinWait2 status                                                                                                                                                  |
| <b>CLOSWAIT</b>  | ClosWait          | 8     | Total connections in ClosWait status                                                                                                                                                  |
| <b>LASTACK</b>   | LastAck           | 7     | Total connections in LastAck status                                                                                                                                                   |
| <b>CLOSING</b>   | Closing           | 7     | Total connections in Closing status                                                                                                                                                   |
| <b>TIMEWAIT</b>  | TimeWait          | 8     | Total connections in TimeWait status                                                                                                                                                  |
| <b>DELETETCB</b> | DeleteTCB         | 9     | Total connections in DeleteTCB status                                                                                                                                                 |
| <b>STACK</b>     | Stack             | 8     | Stack name                                                                                                                                                                            |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Network Connections panel (NC)

The Network Connection (NC) panel allows you to display information about networking connections to an adjacent node:

- SOCKET devices that represent a TCP/IP networking connection
- APPL devices that represent a SNA connection (JES2 only)
- Active BSC NJE lines
- Associated NJE transmitters and receivers

### Command

Access the Network Connections panel with the **NC** command from any SDSF panel.

### Parameters

The parameters shown in [Table 175 on page 199](#) allow you to customize the NC display.

The parameter usage is as follows:

NC (SHORT)

**NC** with no parameters displays network connections, transmitters and receivers.

| Table 175. NC Parameters |                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                        |
| SHORT   S                | Displays information about network connections only. Transmitters and receivers are not displayed. |

### Panel title information

The title line contains the following information:

SDSF NETWORK CONNECTIONS    SYS1

SYSNAME value or  
name of the local system

LINE 1-3 (3)

Total rows  
(\*\*\*\* if  
more than  
99,999,999)

Rows displayed

## NC command action characters

The action characters for the NC command are shown in [Table 176 on page 200](#).

| Table 176. NC Command Action Characters |                                                                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                                                                 |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                         |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                        |
| /                                       | Show column values for row (ISPF only).                                                                                                     |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.                                                      |
| %(exec)                                 | Run a REXX exec..                                                                                                                           |
| =                                       | Repeat previous action character or overtype.                                                                                               |
| C                                       | Cancel the connection (JES3 only).                                                                                                          |
| D                                       | Display the network connection in the log. You can add: <ul style="list-style-type: none"><li>• L - Display the line (JES2 only).</li></ul> |
| E                                       | Restart the network connection, transmitter or receiver (JES2 only).                                                                        |
| P                                       | Stop the transmitter or receiver (JES2 only).                                                                                               |
| S                                       | Start a transmitter or receiver (JES2 only).                                                                                                |
| SN                                      | Start network communication.                                                                                                                |

## Columns on the NC panel

The columns on the NC panel are shown in [Table 177 on page 200](#).

Table 177. Columns on the NC Panel

| Column name | Title (Displayed) | Width | Description                                                                                                           |
|-------------|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------|
| DEVNAME     | DEVICE            | 10    | Name of the connection, transmitter or receiver. This is the fixed field. It is ignored if coded on an FLD statement. |
| STATUS      | Status            | 8     | Device status                                                                                                         |
| TYPE        | Type              | 4     | Connection type (SNA, BSC, TCP)                                                                                       |
| ANODE       | ANode             | 8     | Adjacent node                                                                                                         |
| JNAME       | Jobname           | 8     | Job name of job being processed                                                                                       |

Table 177. Columns on the NC Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                        |
|------------------|-------------------|-------|----------------------------------------------------|
| <b>JOBID</b>     | JobID             | 8     | JES job ID of job being processed                  |
| <b>JTYPE</b>     | JType             | 8     | Type of address space being processed              |
| <b>OWNERID</b>   | Owner             | 8     | User ID of job creator                             |
| <b>RECPRT</b>    | Proc-Lines        | 10    | Number of lines processed for the job              |
| <b>RECCNT</b>    | Tot-Lines         | 10    | Number of lines in the job                         |
| <b>LINE</b>      | Line              | 5     | Number of line to use (JES2 only)                  |
| <b>UNIT</b>      | Unit              | 5     | Unit associated with line                          |
| <b>JRNUM</b>     | JRNum             | 5     | Job receiver count                                 |
| <b>JTNUM</b>     | JTNum             | 5     | Job transmitter count                              |
| <b>SRNUM</b>     | SRNum             | 5     | SYSOUT receiver count                              |
| <b>STNUM</b>     | STNum             | 5     | SYSOUT transmitter count                           |
| <b>CONNECT</b>   | Connect           | 7     | Connect automatically (JES2 only)                  |
| <b>CTIME</b>     | Conn-Int          | 8     | Connection interval (JES2 only)                    |
| <b>PTRACE</b>    | Tr                | 3     | Tracing (JES2 only)                                |
| <b>CTRACE</b>    | CTr               | 3     | Common tracing                                     |
| <b>JTRACE</b>    | JTr               | 3     | JES tracing                                        |
| <b>VTRACE</b>    | VTr               | 3     | Verbose tracing                                    |
| <b>LOGMODE</b>   | LogMode           | 8     | Logon mode table entry (JES2 only)                 |
| <b>REST</b>      | Rest              | 5     | Resistance of the connection (JES2 only)           |
| <b>COMPACT</b>   | Compact           | 8     | Compaction table name (JES2 only)                  |
| <b>IPADDR</b>    | IPAddr            | 24    | IP address (JES2 only)                             |
| <b>IPNAME</b>    | IPName            | 32    | IP host name                                       |
| <b>PORT</b>      | Port              | 5     | TCP/IP port number                                 |
| <b>PORTNAME</b>  | PortName          | 16    | TCP/IP port name (JES2 only)                       |
| <b>SECURE</b>    | Secure            | 6     | Secure (TLS) connection                            |
| <b>LOGON</b>     | Logon             | 5     | Number of the associated LOGON device (JES2 only)  |
| <b>NETSRV</b>    | Netsrv            | 5     | Number of the associated NETSRV device (JES2 only) |
| <b>RELCONN</b>   | RelConn           | 8     | Related connection name                            |
| <b>SRVNAME</b>   | SrvName           | 10    | Name of the associated server device               |
| <b>DSECLABEL</b> | DSecLabel         | 9     | Security label of the adjacent node (JES2 only)    |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                        |
| <b>DSYSID</b>    | SysID             | 5     | JES2 member name (JES2 only)                       |
| <b>JESNAME</b>   | JESN              | 4     | JES subsystem name                                 |
| <b>JESLEVEL</b>  | JESLevel          | 8     | z/OS JES version and release                       |

Table 177. Columns on the NC Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRTWS</b>     | Work-Selection    | 14    | Work selection criteria (JES2, transmitters and receivers)                                                                                                                            |
| <b>LINELIM</b>   | Line-Limit        | 13    | Line limit for selection (JES2, transmitters and receivers)                                                                                                                           |
| <b>PAGELIM</b>   | Page-Limit        | 13    | Page limit for selection (JES2, transmitters and receivers)                                                                                                                           |
| <b>LINELIML</b>  | Line-Lim-Lo       | 11    | Line limit, minimum (JES2 only)                                                                                                                                                       |
| <b>LINELIMH</b>  | Line-Lim-Hi       | 11    | Line limit, maximum (JES2 only)                                                                                                                                                       |
| <b>PAGELIML</b>  | Page-Lim-Lo       | 11    | Page limit, minimum (JES2 only)                                                                                                                                                       |
| <b>PAGELIMH</b>  | Page-Lim-Hi       | 11    | Page limit, maximum (JES2 only)                                                                                                                                                       |
| <b>SODISP</b>    | SODsp             | 5     | Selection output disposition (JES2 only)                                                                                                                                              |
| <b>SODISP2-4</b> | SODsp2-4          | 6     | Selection output disposition 2-4 (JES2 only)                                                                                                                                          |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Nodes panel (NODE)

The Nodes (NODE) panel allows you to display information about JES nodes.

### Command

Access the Nodes panel with the **NO** command from any SDSF panel.

### Parameters

The parameters shown in [Table 178 on page 203](#) allow you to customize the NODE display.

The parameter usage is as follows:

```

NODES (node-list)
NODE
NO

```

**NO** with no parameters displays all nodes.

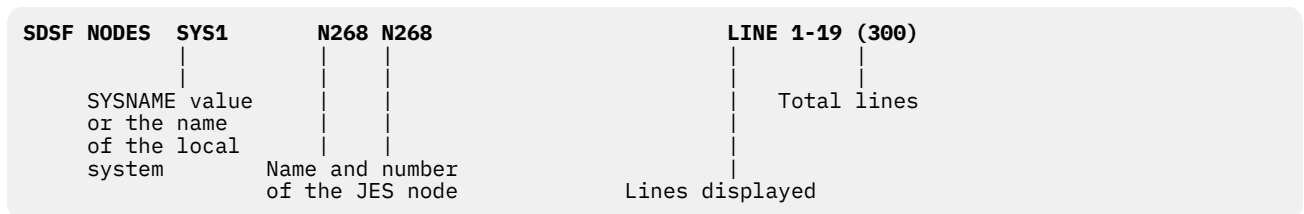
Consider the following example:

- **NO 2-4 6** - Displays Nodes 2, 3, 4, and 6.

| Table 178. NODE Parameters |                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                  | Description                                                                                                                                                                                                                                                                                                             |
| <i>node-list</i>           | <i>node-list</i> is JES2 only and is made up of 1 to 4 of the following: <ul style="list-style-type: none"> <li>node-number - A node number (1-32767).</li> <li>node-number-range - A range of node numbers, specified by the first and last numbers in the range separated by a hyphen (for example, 1-10).</li> </ul> |

## Panel title information

The title line contains the following information:



## NODE command action characters

The action characters for the NODE command are shown in [Table 179 on page 203](#).

| Table 179. NODE Command Action Characters |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                                                                                                                                                                                                                                                                                                    |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                            |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                           |
| /                                         | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                        |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                         |
| %(exec)                                   | Run a REXX exec..                                                                                                                                                                                                                                                                                                                                                              |
| =                                         | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                  |
| A                                         | Release jobs destined for this directly-attached node (JES3).                                                                                                                                                                                                                                                                                                                  |
| D                                         | Display information about a node in the log. You can add: <ul style="list-style-type: none"> <li>C - Display information about network connections for a node in the log (JES2 only).</li> <li>L - Display lines defined to this node (JES3) or information about this node (JES2) in the log.</li> <li>P - Display information about paths in the log (JES2 only).</li> </ul> |
| EL                                        | Reset lines to the node (JES3 only).                                                                                                                                                                                                                                                                                                                                           |

| <i>Table 179. NODE Command Action Characters (continued)</i> |                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------|
| Action Character                                             | Description                                                     |
| H                                                            | Hold jobs destined for this directly-attached node (JES3 only). |
| SN                                                           | Start node communication on a line.                             |

## Columns on the NODE panel

The columns on the NODE panel are shown in [Table 180 on page 204](#).

*Table 180. Columns on the NO Panel*

| Column name     | Title (Displayed) | Width | Description                                                                                                                          |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>NUMBER</b>   | NUMBER            | 5     | Node number (JES2 only). For JES2, this is the fixed field. It is ignored if coded on an FLD statement.                              |
| <b>NODENAME</b> | NodeName          | 8     | Node name. For JES3, this is the fixed field, and is ignored if coded on an FLD statement or ISFFLD macro.                           |
| <b>STATUS</b>   | Status            | 21    | Node status. By default, this shows status for the first path. Increase the width (up to 43) to show the status for the second path. |
| <b>AUTH</b>     | Authority         | 17    | Authority of the node (JES2 only)                                                                                                    |
| <b>TRANS</b>    | Trans             | 6     | What the local node transmits to the specified node (JES2 only)                                                                      |
| <b>RECV</b>     | Recv              | 6     | What the local node receives from the specified node (JES2 only)                                                                     |
| <b>HOLD</b>     | Hold              | 4     | Job hold indicator for the local node                                                                                                |
| <b>NETHOLD</b>  | NHold             | 5     | Process inbound SYSOUT in NETDATA format (JES3 only)                                                                                 |
| <b>PENCRYPT</b> | PEn               | 3     | Password encryption indicator (JES2 only)                                                                                            |
| <b>ENDNODE</b>  | End               | 3     | Eligibility for store-and-forward operations (JES2 only)                                                                             |
| <b>RESIST</b>   | Rest              | 4     | Resistance rating of the connection (JES2 only)                                                                                      |
| <b>SENTREST</b> | SentRs            | 6     | Whether the resistance from an adjacent node is used in calculating the resistance of an adjacent connection (JES2 only)             |
| <b>COMPACT</b>  | Cp                | 2     | Compaction table number for outbound compaction when communicating with this node (JES2 only)                                        |
| <b>LINE</b>     | Line              | 4     | Line dedicated to the NJE session for with this application (JES2 only)                                                              |
| <b>LNAME</b>    | LineName          | 8     | Line dedicated to NJE for this node (JES3 only)                                                                                      |
| <b>LOGMODE</b>  | LogMode           | 8     | Logon mode table entry for this application (JES2 only)                                                                              |
| <b>PATHMGR</b>  | PMg               | 3     | Indicator of whether NCC records relevant to the path manager should be sent to this node (JES2 only)                                |

Table 180. Columns on the NO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                                                        |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRIVATE</b>  | Prv               | 3     | Private indicator for the connection between this node and an adjacent node (JES2 only)                                                                                                                            |
| <b>SUBNET</b>   | Subnet            | 8     | Name of the subnet that should include this node (JES2 only)                                                                                                                                                       |
| <b>NTRACE</b>   | Tr                | 3     | Trace option (JES2 only)                                                                                                                                                                                           |
| <b>VERIFYP</b>  | VerifyP           | 8     | Password received from the node                                                                                                                                                                                    |
| <b>SENDP</b>    | SendP             | 8     | Password sent to the node                                                                                                                                                                                          |
| <b>LOGON</b>    | Logon             | 5     | Number of the local logon DCT (1-999) which should be use when specifying connections to the application. The default value of 0 indicates that the logon DCT defined with the lowest number is to be. (JES2 only) |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                                                        |
| <b>DSYSID</b>   | SysID             | 5     | JES2 member name (JES2 only)                                                                                                                                                                                       |
| <b>JESNAME</b>  | JESN              | 4     | JES subsystem name                                                                                                                                                                                                 |
| <b>JESLEVEL</b> | JESLevel          | 8     | JES version and release                                                                                                                                                                                            |
| <b>NETSRV</b>   | NetSrv            | 6     | Network server number (JES2 only)                                                                                                                                                                                  |
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device (JES2 only)                                                                                                                                                                           |
| <b>MAXRETR</b>  | MaxRetries        | 6     | Number of retries to attempt before ending the BSC NJE line (JES3 only)                                                                                                                                            |
| <b>PATH</b>     | Path              | 8     | Name of the adjacent node in the path (JES3 only)                                                                                                                                                                  |
| <b>PTYPE</b>    | PType             | 5     | Protocol type (JES3 only)                                                                                                                                                                                          |
| <b>BDTNAME</b>  | BDTName           | 8     | Bulk Data Transfer (BDT) ID (JES3 only)                                                                                                                                                                            |
| <b>PARTNAM</b>  | PartName          | 8     | Name of the spool partition to which JES3 writes spool data for all jobs from that node (JES3 Only)                                                                                                                |
| <b>MAXLINES</b> | MaxLines          | 3     | Maximum number of lines for the node. (JES3 Only)                                                                                                                                                                  |
| <b>DIRECT</b>   | Direct            | 6     | Specifies whether the node can be directly attached only                                                                                                                                                           |
| <b>SSIGNON</b>  | SSignon           | 7     | Specifies whether secure signon protocol is to be used                                                                                                                                                             |
| <b>JTNUM</b>    | JTNum             | 5     | Number of job transmitters associated with the TCP/IP node (JES3 only)                                                                                                                                             |
| <b>JRNUM</b>    | JRNum             | 5     | Number of job receivers associated with the TCP/IP node (JES3 only)                                                                                                                                                |
| <b>STNUM</b>    | STNum             | 5     | Number of SYSOUT transmitters associated with the TCP/IP node (JES3 only)                                                                                                                                          |
| <b>SRNUM</b>    | SRNum             | 5     | Number of SYSOUT receivers associated with the TCP/IP node (JES3 only)                                                                                                                                             |
| <b>SECURE</b>   | Secure            | 6     | Use secure (TLS) socket (JES3 only)                                                                                                                                                                                |

Table 180. Columns on the NO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PWCNTL</b>   | PwCntl            | 8     | Password encryption control (JES3 only)                                                                                                                                               |
| <b>XNAMEREQ</b> | XNameReq          | 8     | Specifies whether inbound SYSOUT can be held for processing by an external writer if no external writer name was supplied (JES3 only)                                                 |
| <b>CONNECT</b>  | Connect           | 7     | Automatically connect (JES2) or reconnect (JES3)                                                                                                                                      |
| <b>CTIME</b>    | Conn-int          | 8     | Connection interval (minutes)                                                                                                                                                         |
| <b>BUFSIZE</b>  | BufSz             | 5     | Buffer size (JES3 only)                                                                                                                                                               |
| <b>STREAM</b>   | Strm              | 4     | Number of concurrent streams (JES3 only)                                                                                                                                              |
| <b>PRTDEF</b>   | PrtDef            | 8     | Print class default for networking output received at the home node (JES3 only)                                                                                                       |
| <b>PRTTSO</b>   | PrtTSO            | 8     | TSO data set default class for networking output received at the home node (JES3 only)                                                                                                |
| <b>PRTXWTR</b>  | PrtXwtr           | 8     | External writer data set default class for networking output received at the home node (JES3 only)                                                                                    |
| <b>PUNDEF</b>   | PunDef            | 8     | Punch class default for networking output received at the home node (JES3 only)                                                                                                       |
| <b>NETPR</b>    | NetPr             | 5     | Number of logical network printers on the home node (JES3 only)                                                                                                                       |
| <b>NETPU</b>    | NetPu             | 5     | Number of logical network punches on the home node (JES3 only)                                                                                                                        |
| <b>CTCNODE</b>  | CTC               | 5     | Channel to channel node (JES3 only)                                                                                                                                                   |
| <b>VFYPATH</b>  | VfyPath           | 7     | Verify path (JES2 only)                                                                                                                                                               |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Network Server panel (NS)

The Network Server (NS) panel allows you to display information about server-type networking devices on the node:

- NETSERV devices used to communicate between JES and TCP/IP
- LOGON devices used to communicate between JES2 and VTAM

### Command

Access the Network Server panel with the **NS** command from any SDSF panel.

### Panel title information

The title line contains the following information:



SDSF NETWORK SERVERS SYS1

SYSNAME value or  
name of the local system

LINE 1-4 (4)

Total lines  
(\*\*\*\* if  
more than  
99,999,999)

Rows displayed

## NS command action characters

The action characters for the NS command are shown in [Table 181 on page 207](#).

Table 181. NS Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                  |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                 |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                              |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                               |
| %(exec)          | Run a REXX exec..                                                                                                                                                                                                                                                                    |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                                                        |
| C                | Cancel a network server (JES3 only).                                                                                                                                                                                                                                                 |
| D                | Display the network server in the log. You can add: <ul style="list-style-type: none"> <li>• A - For the application (JES2 only). Not valid for NETSRVs.</li> <li>• L - Long form. Not valid for LOGONs.</li> <li>• S - For the socket (JES2 only). Not valid for LOGONs.</li> </ul> |
| E                | Restart the network server.                                                                                                                                                                                                                                                          |
| JD               | Display the job's use of devices (access the Job Device panel).                                                                                                                                                                                                                      |
| JDD              | Display the job ddnames (access the Job DDName panel).                                                                                                                                                                                                                               |
| JM               | Display the job's use of memory (access the Job Memory panel).                                                                                                                                                                                                                       |
| K                | Cancel the network server address space. You can add: <ul style="list-style-type: none"> <li>• D - Cancel the network server address space with a dump.</li> </ul>                                                                                                                   |
| L                | Fail the device DSP (JES3 only). You can add: <ul style="list-style-type: none"> <li>• D - Fail the device DSP with a dump (JES3 only).</li> </ul>                                                                                                                                   |
| P                | Stop the device (JES2 only).                                                                                                                                                                                                                                                         |
| S                | Start the device.                                                                                                                                                                                                                                                                    |

| <i>Table 181. NS Command Action Characters (continued)</i> |                                            |
|------------------------------------------------------------|--------------------------------------------|
| Action Character                                           | Description                                |
| X                                                          | Invoke the network server DSP (JES3 only). |
| Z                                                          | Force the network server address space.    |

## Columns on the NS panel

The columns on the NS panel are shown in [Table 182 on page 208](#).

*Table 182. Columns on the NS Panel*

| Column name     | Title (Displayed) | Width | Description                                                                                      |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------------|
| <b>DEVNAME</b>  | DEVICE            | 10    | Name of the network server. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>   | Status            | 8     | Device status                                                                                    |
| <b>DSPNAME</b>  | DSPName           | 8     | Dynamic support program name (JES3 only)                                                         |
| <b>APPL</b>     | Appl              | 8     | Application name (JES2 only)                                                                     |
| <b>SOCKET</b>   | Socket            | 8     | Socket name (JES2 only)                                                                          |
| <b>STACK</b>    | Stack             | 8     | Name of the TCP/IP stack                                                                         |
| <b>RESTART</b>  | Restart           | 8     | Restart the device automatically (JES2 only)                                                     |
| <b>RTIME</b>    | Rest-Int          | 10    | Restart interval (minutes) (JES2 only)                                                           |
| <b>PTRACE</b>   | Tr                | 3     | Tracing (JES2 only)                                                                              |
| <b>CTRACE</b>   | CTr               | 3     | Common tracing                                                                                   |
| <b>VTRACE</b>   | VTr               | 3     | Verbose tracing                                                                                  |
| <b>JTRACE</b>   | JTr               | 3     | JES tracing                                                                                      |
| <b>LOG</b>      | Log               | 3     | Log activity (JES2 only)                                                                         |
| <b>ASID</b>     | ASID              | 5     | ASID of the network server                                                                       |
| <b>SRVJOBNM</b> | SrvJobNm          | 8     | Job name of the network server address space                                                     |
| <b>PASSWORD</b> | Password          | 8     | Password (SET or NOTSET) (JES2 only)                                                             |
| <b>IPNAME</b>   | IPName            | 32    | Local TCP/IP host name                                                                           |
| <b>PORT</b>     | Port              | 5     | Local TCP/IP port number                                                                         |
| <b>PORTNAME</b> | PortName          | 16    | Local TCP/IP port name (JES2 only)                                                               |
| <b>SECURE</b>   | Secure            | 6     | Secure (TLS) socket                                                                              |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                      |
| <b>DSYSID</b>   | SysID             | 5     | JES2 member name (JES2 only)                                                                     |
| <b>JESNAME</b>  | JESN              | 4     | JES subsystem name                                                                               |
| <b>JESLEVEL</b> | JESLevel          | 8     | z/OS JES level                                                                                   |
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device (JES2 only)                                                         |
| <b>NSECURE</b>  | NSecure           | 10    | Netserv secure option (required, optional, use_socket)                                           |

Table 182. Columns on the NS Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Output Queue panel (O)

The Output Queue panel allows you to display information about output for jobs, started tasks, and TSO users on any *nonheld* queue.

### Command

Access the Output Queue panel with the **O** command from any SDSF panel.

### Parameters

The parameters shown in [Table 183 on page 209](#) allow you to customize the O display.

The parameter usage is as follows:

```
O(classes) (form-number)
```

**O** with no parameters displays information for all output data sets. The information displayed may be limited by your authorization and by settings for filters such as FILTER, PREFIX, and so on.

Consider the following examples:

- **OJAB** - Displays output in classes J, A, and B.
- **OBK STD** - Displays output in classes B and K, with a form number of STD.

| Table 183. O Parameters |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter               | Description                                                                                                                                                                                                                                                                                                                          |
| <i>classes</i>          | <i>classes</i> displays information about job output in specific output classes. Enter up to 7 classes, without blanks, including: <ul style="list-style-type: none"> <li>• @ - Output waiting to be transmitted to another node. If other classes are specified, the output must be in one of those classes (JES2 only).</li> </ul> |
| <i>form-number</i>      | <i>form-number</i> displays only data sets with this form number. The form number can be up to 8 characters long, including * (any string of characters) or % (any single character).                                                                                                                                                |

### Panel title information

The title line contains the following information:

|                                                                                                                               |                                 |           |       |                                                           |      |                                                     |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|-------|-----------------------------------------------------------|------|-----------------------------------------------------|
| SDSF OUTPUT                                                                                                                   | ALL CLASSES                     | ALL FORMS | LINES | 94372                                                     | LINE | 1-20 (20)                                           |
| JES output classes<br>being displayed                                                                                         | SYSOUT forms<br>being displayed |           |       |                                                           |      | Total lines<br>(**** if<br>more than<br>99,999,999) |
| Total number of print lines for<br>output being displayed. Scaled<br>if needed, for example, 1G<br>rather than 1,000,000,000. |                                 |           |       | Lines displayed<br>or first line<br>if 100,000 or<br>more |      |                                                     |

## O command action characters

The action characters for the O command are shown in [Table 184 on page 210](#).

| Table 184. O Command Action Characters |                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                                                                                                   |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                           |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                          |
| /                                      | Show column values for row (ISPF only).                                                                                                                                       |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                        |
| %(exec)                                | Run a REXX exec.                                                                                                                                                              |
| ?                                      | Display job data sets (access the Job Data Set panel).                                                                                                                        |
| =                                      | Repeat previous action character or overtype.                                                                                                                                 |
| ?                                      | Display a list of the data sets for an output group.                                                                                                                          |
| A                                      | Release held output data sets. If the job has been held, it must be released from the Status panel (JES2 only).                                                               |
| C                                      | Purge a job's output (do not cancel the job) (JES2 only).                                                                                                                     |
| H                                      | Hold output (JES2 only).                                                                                                                                                      |
| JS                                     | Display the job steps. (Access the Job Step panel.)                                                                                                                           |
| L                                      | List a job's output status in the log (JES2 only). You can add: <ul style="list-style-type: none"> <li>• L - List output status in the log, long form (JES2 only).</li> </ul> |
| P                                      | Purge output data sets (JES2 only).                                                                                                                                           |

| <i>Table 184. O Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| S                                                         | Display the data sets associated with the output. You can add: <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the output starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| SA                                                        | Allocate data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SJA                                                       | Allocate job JCL data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| X                                                         | Print output data sets. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC).</li> <li>• D - Display the Open Print Data Set panel (XD or XDC).</li> <li>• F - Display the Open Print File panel (XF or XFC).</li> <li>• S - Display the Open Print panel (XS or XSC).</li> </ul>                                                                                                                                                                                             |

## Columns on the O panel

The columns on the O panel are shown in [Table 185 on page 211](#).

*Table 185. Columns on the O Panel*

| Column name    | Title (Displayed) | Width | Description                                                                                              | Delay |
|----------------|-------------------|-------|----------------------------------------------------------------------------------------------------------|-------|
| <b>JNAME</b>   | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement.                           |       |
| <b>JNUM</b>    | JNum <sup>1</sup> | 6     | JES job number                                                                                           |       |
| <b>JOBID</b>   | JobID             | 8     | JES job ID or work ID                                                                                    |       |
| <b>OWNERID</b> | Owner             | 8     | User ID of SYSIN/SYSOUT owner, or default values of ++++++++ or ????????, if user ID not defined to RACF |       |
| <b>DPRIO</b>   | Prty              | 4     | JES output group priority                                                                                |       |
| <b>OCLASS</b>  | C                 | 1     | JES output class                                                                                         |       |
| <b>FORMS</b>   | Forms             | 8     | Output form number                                                                                       |       |
| <b>DESTN</b>   | Dest              | 18    | JES print destination name                                                                               |       |
| <b>RECCNT</b>  | Tot-Rec           | 9     | Output total record count (lines). Blank for page-mode data.                                             |       |
| <b>RECPRT</b>  | Prt-Rec           | 9     | The number of lines printed. Blank for page-mode data. (JES2 only)                                       |       |
| <b>PAGECNT</b> | Tot-Page          | 9     | Output page count. Blank if not for page-mode data.                                                      |       |

Table 185. Columns on the O Panel (continued)

| Column name     | Title (Displayed) | Width                | Description                                                                                 | Delay          |
|-----------------|-------------------|----------------------|---------------------------------------------------------------------------------------------|----------------|
| <b>PAGEPRT</b>  | Prt-Page          | 9                    | Output pages printed. Blank if not for page-mode data. (JES2 only)                          |                |
| <b>DEVID</b>    | Device            | 18                   | Output device name (only if it is printing)                                                 |                |
| <b>STATUS</b>   | Status            | 11                   | JES job status                                                                              |                |
| <b>SECLABEL</b> | SecLabel          | 8                    | Security label of output group                                                              |                |
| <b>DSYSID</b>   | SysID             | 5                    | System on which the output is printing (only if it is printing) (JES2 only)                 |                |
| <b>DEST</b>     | Rmt               | 5                    | JES2 print routing. Remote number if routing is not local. (JES2 only)                      |                |
| <b>NODE</b>     | Node              | 5                    | JES2 print node (JES2 only)                                                                 |                |
| <b>OGNAME</b>   | O-Grp-N           | 8                    | Output group name (JES2 only)                                                               |                |
| <b>OGID</b>     | OGID1             | 5                    | Output group ID 1 (JES2 only)                                                               |                |
| <b>OGID2</b>    | OGID2             | 5                    | Output group ID 2 (JES2 only)                                                               |                |
| <b>JPRIO</b>    | JP                | 2                    | JES job priority                                                                            |                |
| <b>FCBID</b>    | FCB               | 4                    | Output FCB ID                                                                               |                |
| <b>UCSID</b>    | UCS               | 4                    | Output UCS ID (print train required)                                                        |                |
| <b>WTRID</b>    | Wtr               | 8                    | Output external writer name                                                                 |                |
| <b>FLASHID</b>  | Flash             | 5                    | Output flash ID                                                                             |                |
| <b>BURST</b>    | Burst             | 5                    | 3800 burst indicator                                                                        |                |
| <b>PRMODE</b>   | PrMode            | 8                    | Printer process mode                                                                        |                |
| <b>OUTDISP</b>  | ODisp             | 5                    | JES2 output disposition                                                                     |                |
| <b>DSDATE</b>   | CrDate            | 10                   | Output creation date. Length can be changed to 19 to produce the date and time. (JES2 only) |                |
| <b>OHREASON</b> | OHR               | 3                    | Output hold reason code                                                                     |                |
| <b>OHRSTXT</b>  | Output-Hold-Text  | 37                   | Output hold reason text                                                                     |                |
| <b>OFFDEVS</b>  | Offs              | 4                    | List of offload devices for a job or output that has been offloaded (JES2 only)             |                |
| <b>RETCODE</b>  | Max-RC            | 10                   | Return code information for the job                                                         |                |
| <b>JTYPE</b>    | Type              | 4                    | Type of address space                                                                       |                |
| <b>ROOMN</b>    | RNum              | 8                    | JES2 job room number                                                                        | X              |
| <b>PNAME</b>    | Programmer-Name   | 20                   | JES programmer name field                                                                   | X <sup>2</sup> |
| <b>ACCTN</b>    | Acct              | 4 (JES2)<br>8 (JES3) | JES account number                                                                          | X              |
| <b>NOTIFY</b>   | Notify            | 8                    | TSO user ID from NOTIFY parameter on job card                                               | X              |

Table 185. Columns on the O Panel (continued)

| Column name      | Title (Displayed)     | Width                | Description                                                                                                                                                         | Delay     |
|------------------|-----------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>ISYSID</b>    | ISys                  | 4 (JES2)<br>8 (JES3) | JES input system ID                                                                                                                                                 | X         |
| <b>TIMER</b>     | Rd-Time               | 8                    | Time that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column.                                                              | X         |
| <b>DATER</b>     | Rd-Date               | 8                    | Date that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column.                                                              | X         |
| <b>ESYSID</b>    | ESys                  | 4 (JES2)<br>8 (JES3) | JES execution system ID                                                                                                                                             | X         |
| <b>TIMEE</b>     | St-Time               | 8                    | Time that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.                                                                  | JES3 only |
| <b>DATEE</b>     | St-Date               | 8                    | Date that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.                                                                  | JES3 only |
| <b>TIMEN</b>     | End-Time              | 8                    | Time that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.                                                                 | X         |
| <b>DATEN</b>     | End-Date              | 8                    | Date that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.                                                                 | X         |
| <b>ICARDS</b>    | Cards                 | 5                    | Number of cards read for job                                                                                                                                        | X         |
| <b>JCLASS</b>    | JC                    | 1 or 8               | JES input job class. Default width expands to 8 if there are long class names in the MAS.                                                                           |           |
| <b>MCLASS</b>    | MC                    | 2                    | Message class of job                                                                                                                                                | X         |
| <b>SUBGROUP</b>  | SubGroup              | 8                    | Submitter group                                                                                                                                                     | X         |
| <b>JOBACCT1</b>  | JobAcct1 <sup>1</sup> | 20                   | Job accounting field 1                                                                                                                                              | X         |
| <b>JOBACCT2</b>  | JobAcct2 <sup>1</sup> | 20                   | Job accounting field 2                                                                                                                                              | X         |
| <b>JOBACCT3</b>  | JobAcct3 <sup>1</sup> | 20                   | Job accounting field 3                                                                                                                                              | X         |
| <b>JOBACCT4</b>  | JobAcct4 <sup>1</sup> | 20                   | Job accounting field 4                                                                                                                                              | X         |
| <b>JOBACCT5</b>  | JobAcct5 <sup>1</sup> | 20                   | Job accounting field 5                                                                                                                                              | X         |
| <b>JOBCORR</b>   | JobCorrelator         | 32                   | User portion of the job correlator (JES2 only)                                                                                                                      |           |
| <b>DATETIMER</b> | Rd-DateTime           | 19                   | Date and time that the job was read in. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the Rd-Date and Rd-Time columns. | X         |
| <b>DATETIMEE</b> | St-DateTime           | 19                   | Date and time that execution began. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the St-Date and St-Time columns.     | X         |

*Table 185. Columns on the O Panel (continued)*



Table 186. PAG Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                 |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                              |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                    |
| =                | Repeat previous action character or overwrite.                                                                                                                                                                                                                                                      |
| D                | Display information. You can add: <ul style="list-style-type: none"> <li>• C - Display common page data sets.</li> <li>• D - Display page deletes.</li> <li>• L - Display local page data sets.</li> <li>• P - Display PLPA page data sets.</li> <li>• S - Display storage class memory.</li> </ul> |
| LCK              | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.                                                                                                                                                                                                           |

## Columns on the PAG panel

The columns on the PAG panel are shown in [Table 187 on page 215](#).

Table 187. Columns on the PAG Panel

| Column name     | Title (Displayed) | Width                                    | Description                                                                         |
|-----------------|-------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| <b>DSNAME</b>   | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>TYPE</b>     | Type              | 6                                        | Type of data set                                                                    |
| <b>SLOTS</b>    | Slots             | 8                                        | Number of slots defined                                                             |
| <b>USENUM</b>   | Used              | 8                                        | Number of slots used                                                                |
| <b>USEPCT</b>   | Use%              | 4                                        | Percentage of total slots in use                                                    |
| <b>VOLSER</b>   | VolSer            | 6                                        | Volume serial                                                                       |
| <b>STATUS</b>   | Status            | 8                                        | Data set status                                                                     |
| <b>VIO</b>      | VIO               | 3                                        | VIO indicator. YES if data set eligible for VIO.                                    |
| <b>TOTERRS</b>  | IOError           | 7                                        | Number of I/O errors                                                                |
| <b>SYSNAME</b>  | SysName           | 8                                        | System name                                                                         |
| <b>SYSLEVEL</b> | SysLevel          | 25                                       | Operating system level                                                              |
| <b>UNIT</b>     | Unit              | 4                                        | Data set unit address                                                               |

Table 187. Columns on the PAG Panel (continued)

| Column name    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEVNAME</b> | DevName           | 8     | Data set device name                                                                                                                                                                  |
| <b>CUNAME</b>  | CUName            | 8     | Data set control unit name                                                                                                                                                            |
| <b>SUBCHAN</b> | SubChanSet        | 10    | Data set subchannel set                                                                                                                                                               |
| <b>SUSEPCT</b> | SUse%             | 5     | System average usage percent for type                                                                                                                                                 |
| <b>ISFEND</b>  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## PARMLIB panel (PARM)

The Parmlib (PARM) panel allows you to display the data sets in the parmlib. The panel shows the data sets in the parmlib concatenation.

### Command

Access the PARMLIB panel with the **PARM** command from any SDSF panel.

### Parameters

The panel contains columns that show data set attributes. The attributes are obtained by SDSF by using catalog search and by reading the VTOC for the volume where the data set resides.

You can use the **SHORT** parameter to suppress the gathering of the data set information. When in **SHORT** mode, the columns are visible but they show blanks or zeros based on the formatting type.

The columns that are not retrieved in **SHORT** mode and display as blank or zeros based on column type are as follows:

- VolSer
- BlkSize
- Extent
- SMS
- LRecL
- DSOrg
- RecFm
- CrDate
- RefDate

The panel totals the extents for all data sets being shown. In **SHORT** mode, the extent count may be zero or reflect only data sets gathered from down-level systems. To indicate that the extent count may be different from what is expected, and that the panel is in **SHORT** mode, the EXT keyword in the title is shown as \*EXT in **SHORT** mode.

The parameter usage is as follows:

```
PARM (S | SHORT)
```

### Panel title information

The title line contains the following information:

|      |         |                                                      |      |                           |      |                                                                       |                 |                |
|------|---------|------------------------------------------------------|------|---------------------------|------|-----------------------------------------------------------------------|-----------------|----------------|
| SDSF | PARMLIB | DISPLAY                                              | SYS1 | (ALL)                     | *EXT | 65                                                                    | LINE 1-10       | (10)           |
|      |         | System you are<br>logged on to                       |      |                           |      | Total number<br>of extents<br>for all data<br>sets being<br>displayed |                 | Total<br>lines |
|      |         | Systems displayed<br>(MVS value or<br>SYSNAME value) |      | Asterisk in<br>short mode |      |                                                                       | Lines displayed |                |

## PARM command action characters

The action characters for the PARM command are shown in [Table 188 on page 217](#).

| Table 188. PARM Command Action Characters |                                                                                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                                          |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                  |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                                 |
| /                                         | Show column values for row (ISPF only).                                                                              |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.                               |
| %(exec)                                   | Run a REXX exec.                                                                                                     |
| =                                         | Repeat previous action character or overwrite.                                                                       |
| D                                         | Display information. You can add: <ul style="list-style-type: none"> <li>E - Display information, errors.</li> </ul> |
| LA                                        | List RACF access. IBM Security Server (RACF) must be active.                                                         |
| LP                                        | List RACF profiles. IBM Security Server (RACF) must be active.                                                       |
| LV                                        | List data sets for a DASD volume (ISPF only).                                                                        |
| S                                         | Browse (ISFAFD only).                                                                                                |
| SB                                        | Browse (ISPF only)                                                                                                   |
| SE                                        | Edit (ISPF only)                                                                                                     |
| SV                                        | ISPF view.                                                                                                           |

## Columns on the PARM panel

The columns on the PARM panel are shown in [Table 189 on page 217](#).

Table 189. Columns on the PARM Panel

| Column name | Title (Displayed) | Width                                    | Description                                                                         |
|-------------|-------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| DSNAME      | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement. |

*Table 189. Columns on the PARM Panel (continued)*

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SEQ</b>      | Seq               | 3     | Sequence number                                                                                                                                                                       |
| <b>VOLSER</b>   | VolSer            | 6     | Volume serial                                                                                                                                                                         |
| <b>BLKSIZE</b>  | BlkSize           | 7     | Data set block size                                                                                                                                                                   |
| <b>EXTENT</b>   | Extent            | 6     | Number of extents                                                                                                                                                                     |
| <b>SMS</b>      | SMS               | 3     | SMS indicator. YES if the data set is SMS managed. Otherwise, NO.                                                                                                                     |
| <b>LRECL</b>    | LRecl             | 5     | Logical record length                                                                                                                                                                 |
| <b>DSORG</b>    | DSOrg             | 5     | Data set organization                                                                                                                                                                 |
| <b>RECFM</b>    | RecFm             | 5     | Record format                                                                                                                                                                         |
| <b>CRDATE</b>   | CrDate            | 8     | Data set creation date                                                                                                                                                                |
| <b>REFDATE</b>  | RefDate           | 8     | Data set last referenced date                                                                                                                                                         |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Operating system level                                                                                                                                                                |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## PC Routines panel (PC)

The PC Routines (PC) panel displays the currently defined system linkage indexes (LX) PC routines.

## Command

Access the PC Routines panel with the **PC** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```
SDSF PC ROUTINES SYS1 SYS2 LINE 1-18 (984)
 | |
 System Lines displayed
 you are or first line
 logged if 100,000
 on to
 | |
 Systems displayed Total lines
 (MVS value or (**** if more
 SYSNAME value) than 99,999,999)
```

Table 190. PC Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |

## Columns on the PC panel

The columns on the PC panel are shown in [Table 191 on page 219](#).

Table 191. Columns on the PC Panel

| Column name       | Title (Displayed) | Width | Description                                                                     |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------|
| <b>PCNUM</b>      | PCNUM             | 5     | PC number. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>MODULE</b>     | Module            | 8     | Module name                                                                     |
| <b>EPA</b>        | EPA               | 17    | Entry point address                                                             |
| <b>DESC</b>       | Description       | 30    | Description                                                                     |
| <b>EXECKEY</b>    | Key               | 6     | Execution key                                                                   |
| <b>SSWITCH</b>    | SSwitch           | 7     | Address space switch                                                            |
| <b>AMODE</b>      | AMode             | 5     | Addressing mode                                                                 |
| <b>ASC</b>        | ASC               | 5     | ASC mode                                                                        |
| <b>TYPE</b>       | Type              | 8     | PC type                                                                         |
| <b>MODE</b>       | Mode              | 4     | Execution mode                                                                  |
| <b>SEQNUM</b>     | SeqNumX           | 8     | PC sequence number                                                              |
| <b>LATENTPARM</b> | LatentParm        | 17    | Latent parameter address                                                        |
| <b>AKM</b>        | AKM               | 8     | Access key mask                                                                 |
| <b>EKM</b>        | EKM               | 8     | Execution key mask                                                              |
| <b>PKM</b>        | PKM               | 7     | PSW key mask method                                                             |
| <b>EAX</b>        | EAX               | 4     | Extended authorization index                                                    |
| <b>SASN</b>       | SASN              | 4     | Secondary ASID setting                                                          |
| <b>JNAME</b>      | JobName           | 8     | Target job name for PC-ss                                                       |
| <b>ASID</b>       | ASIDX             | 5     | Target ASID for PC-ss                                                           |
| <b>LOCATION</b>   | Location          | 16    | Module location                                                                 |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                     |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSLEVEL</b> | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Sysplex panel (PLEX)

The Sysplex (PLEX) panel displays information about the sysplex.

### Command

Access the Sysplex panel with the **PLEX** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|             |                |                |             |                 |                  |                  |
|-------------|----------------|----------------|-------------|-----------------|------------------|------------------|
| <b>SDFS</b> | <b>SYSPLEX</b> | <b>DISPLAY</b> | <b>SYS1</b> | <b>PLEX0008</b> | <b>LINE</b>      | <b>1-12 (12)</b> |
|             |                |                |             |                 |                  |                  |
|             |                | System         |             |                 |                  | Total lines      |
|             |                |                |             |                 |                  | (**** if more    |
|             |                | are logged     |             | Sysplex name    |                  | than 99,999,999) |
|             |                | on to          |             |                 |                  |                  |
|             |                |                |             |                 | Lines displayed  |                  |
|             |                |                |             |                 | or first line if |                  |
|             |                |                |             |                 | 100,000 or more  |                  |

## PLEX command action characters

The action characters for the PLEX command are shown in Table 192 on page 220.

| Action Character | Description                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                    |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                   |
| /                | Show column values for row (ISPF only).                                                                                                |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                 |
| %(exec)          | Run a REXX exec.                                                                                                                       |
| =                | Repeat previous action character or overtype.                                                                                          |
| D                | Display system information.                                                                                                            |
| LA               | List details about cross-system coupling facility (XCF) application servers for the system (access the XCF Application Servers panel). |
| LC               | List coupling facility (CF) connections defined to the system (access the CF Connections panel).                                       |

Table 192. PLEX Command Action Characters (continued)

| Action Character | Description                                                                                    |
|------------------|------------------------------------------------------------------------------------------------|
| LCK              | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.      |
| LS               | List information for the system (access the SYS panel).                                        |
| LM               | List members of the XCF group defined to the system (access the XCF Members and Groups panel). |
| VF               | Issue the <b>VARY XCF</b> command to remove the system from the sysplex.                       |

## Columns on the PLEX panel

The columns on the PLEX panel are shown in Table 193 on page 221.

Table 193. Columns on the PLEX Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                           |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSTEM</b>     | SYSTEM            | 8     | System name. This is a fixed field.                                                                                                                   |
| <b>STATUS</b>     | Status            | 16    | System status                                                                                                                                         |
| <b>STATUSTIME</b> | Status-Time       | 19    | Timestamp of status update                                                                                                                            |
| <b>MONINT</b>     | MonitorTime       | 11    | Monitoring interval in hundredths of seconds                                                                                                          |
| <b>OPERINT</b>    | OperatorTime      | 12    | Operator interval in hundredths of seconds                                                                                                            |
| <b>LPAR</b>       | LPAR              | 4     | LPAR number of the system within the CPC                                                                                                              |
| <b>CLONE</b>      | CloneID           | 7     | System clone ID                                                                                                                                       |
| <b>VERSION</b>    | Version           | 7     | System version number                                                                                                                                 |
| <b>TYPE</b>       | Type              | 4     | Model number of the CPC                                                                                                                               |
| <b>SERIAL</b>     | Serial            | 6     | Serial number of the CPC                                                                                                                              |
| <b>MONITOR</b>    | Monitor           | 8     | System name of the system that is monitoring the partitioning of this system                                                                          |
| <b>SYSID</b>      | SysID             | 8     | System token                                                                                                                                          |
| <b>TIMEMODE</b>   | TimingMode        | 10    | Timing mode                                                                                                                                           |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Program Properties panel (PPT)

The Program Properties (PPT) panel shows the entries in the system program properties table. The Program Properties table is used to assign runtime attributes to programs.

### Command

Access the Program Properties panel with the **PPT** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDSF PROGRAM PROPERTIES | SYS1                                                 | SYS2                                                 | LINE 1-15 (65)                                   |
|-------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|
|                         | System ID<br>of system<br>you are<br>logged<br>on to |                                                      | Lines displayed<br>or first line<br>if 100,000   |
|                         |                                                      | Systems displayed<br>(MVS value or<br>SYSNAME value) | Total lines<br>(**** if more<br>than 99,999,999) |

## PPT command action characters

The action characters for the PPT command are shown in Table 194 on page 222.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display program property information.                                                               |

### Columns on the PPT panel

The columns on the PPT panel are shown in Table 195 on page 222.

| Column name       | Title (Displayed) | Width | Description                                                     |
|-------------------|-------------------|-------|-----------------------------------------------------------------|
| <b>MODULE</b>     | MODULE            | 8     | Name of the program. This is the fixed field.                   |
| <b>NOCANCEL</b>   | NoCancel          | 8     | Program cannot be canceled (YES or NO)                          |
| <b>NONSWAP</b>    | NonSwap           | 7     | Program is non-swappable (YES or NO)                            |
| <b>PRIVILEGED</b> | Privileged        | 10    | Program is privileged (YES or NO)                               |
| <b>SYSTASK</b>    | SysTask           | 7     | Program is a system task and is not timed (YES or NO)           |
| <b>NODSI</b>      | NoDSI             | 5     | Program does not require data set integrity (YES or NO)         |
| <b>NOPASS</b>     | NoPass            | 6     | Program can bypass security protection (YES or NO)              |
| <b>KEY</b>        | Key               | 3     | Storage protection key assigned to program                      |
| <b>SPREF</b>      | SPref             | 5     | Short-term fixed pages must be in preferred storage (YES or NO) |



Table 195. Columns on the PPT Panel (continued)

| Column name        | Title (Displayed) | Width | Description                                                                                                                                           |
|--------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LPREF</b>       | LPref             | 5     | Long-term fixed pages must be in preferred storage (YES or NO)                                                                                        |
| <b>NOPREF</b>      | NoPref            | 6     | The module uses non-preferred storage (YES or NO)                                                                                                     |
| <b>NOIEFUSI</b>    | NoIEFUSI          | 8     | Do not honor IEFUSI region (YES or NO)                                                                                                                |
| <b>CRITPAGING</b>  | CritPaging        | 10    | Critical paging is in effect (YES or NO)                                                                                                              |
| <b>NODSIBATCH</b>  | NoDSIBatch        | 10    | Program does not require data set integrity when running as a batch job step (YES or NO)                                                              |
| <b>NOPASSBATCH</b> | NoPassBatch       | 11    | Program can bypass security protection when running as a batch job step (YES or NO)                                                                   |
| <b>ORIGIN</b>      | Origin            | 7     | Definition origin of the PPT entry                                                                                                                    |
| <b>SYSNAME</b>     | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>    | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Printer panel (PR)

The Printer panel allows you to display information about JES printers and jobs being printed. For JES2, it shows local and remote printers. For JES3, it shows local printers.

### Command

Access the Printer panel with the **PR** command from any SDSF panel.

### Parameters

The parameters shown in [Table 196 on page 224](#) allow you to customize the PR display.

The parameter usage is as follows:

```
PR (printer-list)
```

**PR** with no parameters displays information about all printers.

Consider the following examples:

- **PR 1 2 RMT** - Displays information about local printers 1 and 2, and all remote printers for all remote locations.
- **PR R20-30** - Displays information about printers at remote locations 20 through 30.

| Table 196. PR Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>printer-list</i>      | <p><i>printer-list</i> is up to four of the following, in any combination:</p> <ul style="list-style-type: none"> <li>• number - A local printer ID (1 to 32767).</li> <li>• number-range - A range of local printer IDs (1 to 32767).</li> <li>• Rnumber - R followed by a remote location (1 to 32767).</li> <li>• Rnumber-range - R followed by a range of remote locations (1 to 32767).</li> <li>• LCL - All local printers.</li> <li>• RMT - All remote printers.</li> </ul> |

## Panel title information

The title line contains the following information:

|                                              |                                                        |                                                     |
|----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| SDSF PRINTER DISPLAY                         | SYS1                                                   | LINE 1-19 (122)                                     |
|                                              |                                                        |                                                     |
| SYSNAME value or name<br>of the local system |                                                        | Total lines<br>(**** if<br>more than<br>99,999,999) |
|                                              |                                                        |                                                     |
|                                              | Lines displayed<br>or first line<br>if 100,000 or more |                                                     |

## PR command action characters

The action characters for the PR command are shown in [Table 197 on page 224](#).

| Table 197. PR Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overwrite.                                                      |

Table 197. PR Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B                | <p>Backspace a printer. Optional (JES2) or required (JES3) parameters:</p> <ul style="list-style-type: none"> <li>• number - Number of pages (JES2 only).</li> <li>• C - Most recent checkpoint.</li> <li>• Cnumber - Before the most recent checkpoint (pages for JES2, lines for JES3)</li> <li>• CnumberP - Pages before the most recent checkpoint (JES3 only).</li> <li>• D - Top of the current data set.</li> <li>• N - Last internally-noted checkpoint (JES3 only).</li> <li>• Nnumber - Lines before the last internally-noted checkpoint (JES3 only).</li> <li>• NnumberP - Pages before the last internally-noted checkpoint (JES3 only).</li> </ul>                                                      |
| C                | Purge output printing on a printer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CG               | Cancel only the output destined for this device for the current job (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CJ               | Cancel all of the output of the appropriate type (PRT or PUN) for the current job. (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CP               | Stop printer activity and determine the page or record position of a data set being processed (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CT               | Stop the printer automatically once the current activity is canceled (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| D                | <p>Display information. You can add:</p> <ul style="list-style-type: none"> <li>• L - Display the long form of the information.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| E                | <p>Restart a printer. You can use one or more of these parameters (JES3 only):</p> <ul style="list-style-type: none"> <li>• A - Automatic mode. Mutually exclusive with M.</li> <li>• D - Turn on diagnostic mode. Mutually exclusive with X.</li> <li>• H - Suspend activity on the current data set and place it in hold status.</li> <li>• J - Requeue all data sets for the current job.</li> <li>• L - Reload FCB and UCS/CHARS buffer.</li> <li>• M - Manual mode. Mutually exclusive with A.</li> <li>• R - Request that it perform a scheduling pass.</li> <li>• T - End it automatically once the current job is rescheduled.</li> <li>• X - Turn off diagnostic mode. Mutually exclusive with D.</li> </ul> |

Table 197. PR Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F                | Forward space a printer. Optional (JES2) or required (JES3) parameters: <ul style="list-style-type: none"> <li>• number - Number of pages (JES2) or lines (JES3).</li> <li>• C - Most recent checkpoint.</li> <li>• Cnumber - From the most recent checkpoint (pages for JES2, lines for JES3)</li> <li>• CnumberP - Pages from the most recent checkpoint (JES3 only).</li> <li>• D - Top of the current data set (JES2 only).</li> <li>• N - Last internally-noted checkpoint (JES3 only).</li> <li>• Nnumber - Lines from the last internally-noted checkpoint (JES3 only).</li> <li>• NnumberP - Pages from the last internally-noted checkpoint (JES3 only).</li> </ul> |
| I                | Interrupt a printer (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| K                | Force termination of the FSS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L                | Fail the device (JES3 only). You can add: <ul style="list-style-type: none"> <li>• D - Fail the device with a dump (JES3 only).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| N                | Print another copy of the output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P                | Stop a printer (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| S                | Start a printer. You can add (JES3 only): <ul style="list-style-type: none"> <li>• A - Automatic mode. Mutually exclusive with M.</li> <li>• D - Turn on diagnostic mode. Mutually exclusive with X.</li> <li>• M - Manual mode. Mutually exclusive with A.</li> <li>• T - End it when this request completes.</li> <li>• X - Turn off diagnostic mode. Mutually exclusive with D.</li> </ul>                                                                                                                                                                                                                                                                                |
| V                | Vary the printer online (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VF               | Vary the printer offline (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| X                | Invoke a writer (JES3 only). You can add: <ul style="list-style-type: none"> <li>• D - Turn on diagnostic mode. Mutually exclusive with X.</li> <li>• R - Suspend writer output until the device is available.</li> <li>• T - End it after the output is printed.</li> <li>• X - Turn off diagnostic mode. Mutually exclusive with D.</li> </ul>                                                                                                                                                                                                                                                                                                                             |
| Z                | Halt an active printer (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Columns on the PR panel

The columns on the PR panel are shown in [Table 198 on page 227](#).

Table 198. Columns on the PR Panel

| Column name     | Title (Displayed) | Width           | Description                                                                                           | Delay |
|-----------------|-------------------|-----------------|-------------------------------------------------------------------------------------------------------|-------|
| <b>DEVNAME</b>  | PRINTER           | 10 <sup>1</sup> | Printer name. This is the fixed field. It is ignored in an FLD statement.                             |       |
| <b>STATUS</b>   | Status            | 8               | Printer status                                                                                        |       |
| <b>GROUP</b>    | Group             | 9               | Device group (JES3 only)                                                                              |       |
| <b>SFORMS</b>   | SForms            | 8               | Printer selection form number                                                                         |       |
| <b>SCLASS</b>   | SClass            | 15              | Printer output selection classes                                                                      |       |
| <b>JNAME</b>    | JobName           | 8               | Job name                                                                                              | X     |
| <b>JOBID</b>    | JobID             | 8               | JES job ID or work ID                                                                                 | X     |
| <b>OWNERID</b>  | Owner             | 8               | User ID of job owner, or default values of ++<br>++++++ or ???????, if user ID not defined to<br>RACF |       |
| <b>RECCNT</b>   | Rec-Cnt           | 7               | Number of line-mode records                                                                           |       |
| <b>RECPRT</b>   | Rec-Prt           | 7               | Number of line-mode records printed                                                                   |       |
| <b>PAGECNT</b>  | Page-Cnt          | 8               | Number of output pages                                                                                |       |
| <b>PAGEPRT</b>  | Page-Prt          | 8               | Number of output pages printed                                                                        |       |
| <b>JPRIO</b>    | JP                | 2               | JES job priority                                                                                      |       |
| <b>DPRIO</b>    | DP                | 3               | Output data set priority                                                                              |       |
| <b>OCLASS</b>   | C                 | 1               | JES output class                                                                                      |       |
| <b>SECLABEL</b> | SecLabel          | 8               | Security label of the output group                                                                    |       |
| <b>FORMS</b>    | Forms             | 8               | Output form number                                                                                    |       |
| <b>FCBID</b>    | FCB               | 4               | Output FCB ID                                                                                         |       |
| <b>UCSID</b>    | UCS               | 4               | Output UCS ID (print train required)                                                                  |       |
| <b>WTRID</b>    | Writer            | 8               | Output special writer ID or data set ID (JES2<br>only)                                                |       |
| <b>FLASHID</b>  | Flash             | 5               | Output flash ID                                                                                       |       |
| <b>DESTN</b>    | Dest              | 8               | JES print destination name (JES2 only)                                                                |       |
| <b>BURST</b>    | Burst             | 5               | 3800 burst indicator                                                                                  |       |
| <b>SEP</b>      | Sep               | 3               | Separator page between output groups (JES2<br>only)                                                   |       |
| <b>SEPDS</b>    | SepDS             | 5               | Separator page between data sets                                                                      |       |
| <b>PRMODE</b>   | PrMode            | 8               | Printer process mode                                                                                  |       |
| <b>SFCBID</b>   | SFCB              | 5               | Printer selection FCB ID                                                                              |       |
| <b>SUCSID</b>   | SUCS              | 4               | Printer selection UCS ID                                                                              |       |
| <b>SWTRID</b>   | SWriter           | 8               | Printer selection writer ID (JES2 only)                                                               |       |

Table 198. Columns on the PR Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                | Delay |
|-----------------|-------------------|-------|------------------------------------------------------------------------------------------------------------|-------|
| <b>SFLASHID</b> | SFlh              | 5     | 3800 Printer selection flash ID                                                                            |       |
| <b>PRTWS</b>    | Work-Selection    | 40    | Printer work selection criteria                                                                            |       |
| <b>SBURST</b>   | SBurst            | 6     | 3800 output selection burst mode                                                                           |       |
| <b>SPRMODE1</b> | SPrMode1          | 8     | Output selection process mode 1                                                                            |       |
| <b>SPRMODE2</b> | SPrMode2          | 8     | Output selection process mode 2                                                                            |       |
| <b>SDESTN1</b>  | SDest1            | 8     | Printer selection destination name 1 (JES2 only)                                                           |       |
| <b>SDESTN2</b>  | SDest2            | 8     | Printer selection destination name 2 (JES2 only)                                                           |       |
| <b>SDESTN3</b>  | SDest3            | 8     | Printer selection destination name 3 (JES2 only)                                                           |       |
| <b>SDESTN4</b>  | SDest4            | 8     | Printer selection destination name 4 (JES2 only)                                                           |       |
| <b>SJOBNAME</b> | SJobName          | 8     | Printer selection job name (JES2 only)                                                                     |       |
| <b>SOWNER</b>   | SOwner            | 8     | Printer selection creator ID. Use with the CREATOR work selection criteria. (JES2 only)                    |       |
| <b>SRANGE</b>   | SRange            | 22    | Printer selection job number range (JES2 only)                                                             |       |
| <b>SEPMK</b>    | M                 | 3     | 3800 mark forms control                                                                                    |       |
| <b>NPRO</b>     | NPro              | 4     | Nonprocess run-out time in seconds (FSS only). This column is not overtypeable when the printer is active. |       |
| <b>MODE</b>     | Mode              | 4     | Control mode of printer (FSS only)                                                                         |       |
| <b>CKPTLINE</b> | CkptLine          | 8     | Number of lines per logical page (JES2 only)                                                               |       |
| <b>CKPTREC</b>  | CkptRec           | 7     | Number of logical records per checkpoint (JES3 only)                                                       |       |
| <b>CKPTPAGE</b> | CkptPage          | 8     | Number of logical pages per checkpoint                                                                     |       |
| <b>CKPTSEC</b>  | CkptSec           | 7     | Default checkpoint interval (3800-FSS) in seconds                                                          |       |
| <b>CKPTMODE</b> | CkptMode          | 8     | Checkpoint mode indicator (take checkpoints based on pages or seconds)                                     |       |
| <b>CPYMOD</b>   | CpyMod            | 7     | Copy modification module ID for the 3800 printer                                                           |       |
| <b>UNIT</b>     | Unit              | 5     | Printer unit name                                                                                          |       |
| <b>PSEL</b>     | PSel              | 4     | Preselection option (JES2 only)                                                                            |       |
| <b>OGNAME</b>   | O-Grp-N           | 8     | Output group name for the active job on the printer (JES2 only)                                            |       |
| <b>LINELIM</b>  | Line-Limit        | 21    | Printer line limit, <i>m-n</i> . An * indicates maximum value. (JES2 only)                                 |       |

Table 198. Columns on the PR Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                        | Delay |
|------------------|-------------------|-------|------------------------------------------------------------------------------------|-------|
| <b>PAGELIM</b>   | Page-Limit        | 21    | Printer page limit, <i>m-n</i> . Not shown for remote printers. (JES2 only)        |       |
| <b>DEVFCB</b>    | DFCB              | 5     | Device default FCB name or RESET                                                   |       |
| <b>PSETUP</b>    | Setup             | 6     | Printer setup mode                                                                 |       |
| <b>COPYMARK</b>  | CopyMark          | 8     | Copypmark indicator. Shown only for non-impact or FSS controlled printers.         |       |
| <b>PAUSE</b>     | Pau               | 3     | Pause mode. Not shown for remote printers.                                         |       |
| <b>PSPACE</b>    | K                 | 1     | Printer spacing. Not shown for remote printers. (JES2 only)                        |       |
| <b>PTRACE</b>    | TR                | 3     | Printer tracing                                                                    |       |
| <b>SEPCHARS</b>  | SepChar           | 7     | Separator character value. Not shown for remote printers. (JES2 only)              |       |
| <b>UCSVERIFY</b> | UCSV              | 4     | UCS verification option. Not shown for remote printers. (JES2 only)                |       |
| <b>FSSNAME</b>   | FSSName           | 8     | FSS defined for the printer                                                        |       |
| <b>FSSPROC</b>   | FSSProc           | 8     | Name of the proc used to start the FSS                                             |       |
| <b>FSATRACE</b>  | FSATrace          | 8     | Internal rolling trace for an FSS printer (JES2 only)                              |       |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                        |       |
| <b>DSYSID</b>    | SysID             | 5     | JES member name (JES2 only)                                                        |       |
| <b>JESNAME</b>   | JESN              | 4     | JES subsystem name                                                                 |       |
| <b>JESLEVEL</b>  | JESLevel          | 8     | JES level                                                                          |       |
| <b>DEVSECLB</b>  | DSecLabel         | 9     | Security label of the device (JES2 only)                                           |       |
| <b>JTYPE</b>     | Type              | 4     | Type of address space                                                              |       |
| <b>OGID1</b>     | OGid1             | 5     | Output group ID1 for job on printer (JES2 only)                                    |       |
| <b>OGID2</b>     | OGid2             | 5     | Output group ID2 for job on printer (JES2 only)                                    |       |
| <b>DSPNAME</b>   | DSPName           | 7     | Dynamic support program name (JES3 only)                                           |       |
| <b>DEVTYPE</b>   | DevType           | 8     | Device type name (JES3 only)                                                       |       |
| <b>LINELIML</b>  | Line-Lim-Lo       | 12    | Printer line limit, minimum                                                        |       |
| <b>LINELIMH</b>  | Line-Lim-Hi       | 12    | Printer line limit, maximum                                                        |       |
| <b>PAGELIML</b>  | Page-Lim-Lo       | 12    | Printer page limit, minimum                                                        |       |
| <b>PAGELIMH</b>  | Page-Lim-Hi       | 12    | Printer page limit, maximum                                                        |       |
| <b>DGRPY</b>     | DGrpY             | 5     | Device cannot process data sets that are destined for any local device (JES3 only) |       |
| <b>DYNAMIC</b>   | Dyn               | 3     | Device can be started dynamically (JES3 only)                                      |       |

Table 198. Columns on the PR Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                            | Delay |
|------------------|-------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>OPACTLOG</b>  | OpLog             | 5     | Operator command actions will be logged in the output of the modified device using message IAT7066 or IAT7067 (FSS devices, JES3 only) |       |
| <b>CGS</b>       | CGS               | 3     | Character generation storage (JES3 only)                                                                                               |       |
| <b>BURSTPAGE</b> | B                 | 1     | Burst (JES3 only)                                                                                                                      |       |
| <b>PDEFAULT</b>  | PDefault          | 8     | Defaults that should be applied, if not defined in the job's JCL (JES3 only)                                                           |       |
| <b>COPIES</b>    | Copies            | 6     | Copy count (JES3 only)                                                                                                                 |       |
| <b>CLEAR</b>     | CB                | 2     | Clear printer processing indicator (JES3 only)                                                                                         |       |
| <b>TRC</b>       | TRC               | 3     | Table reference character (JES3 only)                                                                                                  |       |
| <b>ASIS</b>      | AsIs              | 4     | Send print data as is (JES2 only)                                                                                                      |       |
| <b>CCTL</b>      | CCtl              | 4     | Data carriage control stream                                                                                                           |       |
| <b>CMPCT</b>     | Cmpct             | 4     | Compaction for SNA remote punches                                                                                                      |       |
| <b>COMP</b>      | Comp              | 4     | Compression                                                                                                                            |       |
| <b>COMPAC</b>    | Compact           | 8     | Compaction table name for SNA remote punches                                                                                           |       |
| <b>FCBLOAD</b>   | FCBl              | 4     | JES will load FCB                                                                                                                      |       |
| <b>LRECL</b>     | LRecl             | 5     | Logical record length                                                                                                                  |       |
| <b>SUSPEND</b>   | Sus               | 3     | Suspend/interrupt capability (JES2 only)                                                                                               |       |
| <b>SELECT</b>    | Select            | 8     | Send output to device type and subaddress                                                                                              |       |
| <b>SFORM2</b>    | SForm2            | 8     | Printer selection form names (JES2 only)                                                                                               |       |
| <b>PTRANS</b>    | Trans             | 8     | Data translation                                                                                                                       |       |
| <b>TRKCELL</b>   | TrkCell           | 7     | De-spool the entire track cell (JES2 only)                                                                                             |       |
| <b>NEWPAGE</b>   | NewPage           | 7     | Controls how a "skip to channel" is counted (JES2 only)                                                                                |       |
| <b>HONORTRC</b>  | HonorTRC          | 8     | Honor TRC (table reference character) keyword in JCL (JES2 only)                                                                       |       |
| <b>SVOL</b>      | SVol1             | 6     | Spool volumes for work selection (JES2 only)                                                                                           |       |
| <b>SVOL2</b>     | SVol2             | 6     | Spool volume 2 for work selection (JES2 only)                                                                                          |       |
| <b>SVOL3</b>     | SVol3             | 6     | Spool volume 3 for work selection (JES2 only)                                                                                          |       |
| <b>SVOL4</b>     | SVol4             | 6     | Spool volume 4 for work selection (JES2 only)                                                                                          |       |
| <b>CHAR1</b>     | Char1             | 5     | Character arrangement table 1                                                                                                          |       |
| <b>CHAR2</b>     | Char2             | 5     | Character arrangement table 2                                                                                                          |       |
| <b>CHAR3</b>     | Char3             | 5     | Character arrangement table 3                                                                                                          |       |
| <b>CHAR4</b>     | Char4             | 5     | Character arrangement table 4                                                                                                          |       |
| <b>FSASYSNM</b>  | FSASysNm          | 8     | MVS system where FSA is active                                                                                                         |       |



Table 198. Columns on the PR Panel (continued)

| Column name     | Title (Displayed)   | Width | Description                                                                                                                                                                           | Delay |
|-----------------|---------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>HFCB</b>     | HFCB                | 4     | Use designated FCB until status is changed (JES3 only)                                                                                                                                |       |
| <b>HCHARS</b>   | HChars              | 6     | Use designated CHARS until status is changed (JES3 only)                                                                                                                              |       |
| <b>HUCS</b>     | HUCS                | 4     | Use designated UCS until status is changed (JES3 only)                                                                                                                                |       |
| <b>HCPYMOD</b>  | HCpyMod             | 7     | Use designated Copy Mod until status is changed (JES3 only)                                                                                                                           |       |
| <b>HFLASH</b>   | HFlash              | 6     | Use designated Flash until status is changed (JES3 only)                                                                                                                              |       |
| <b>HBURST</b>   | HBurst              | 6     | Use designated Burst until status is changed (JES3 only)                                                                                                                              |       |
| <b>HFORMS</b>   | HForms              | 6     | Use designated Forms until status is changed (JES3 only)                                                                                                                              |       |
| <b>JNUM</b>     | JNum <sup>2</sup>   | 6     | JES job number                                                                                                                                                                        |       |
| <b>SPRMODE3</b> | SPrMode3            | 8     | Output selection process mode 3                                                                                                                                                       |       |
| <b>SPRMODE4</b> | SPrMode4            | 8     | Output selection process mode 4                                                                                                                                                       |       |
| <b>SFORM3-8</b> | SForm3-8            | 8     | Printer selection form names (JES2 only)                                                                                                                                              |       |
| <b>SNODE1</b>   | SNode1 <sup>2</sup> | 6     | Selection node (JES2 only)                                                                                                                                                            |       |
| <b>SNODE2</b>   | SNode2 <sup>2</sup> | 6     | Selection node 2 (JES2 only)                                                                                                                                                          |       |
| <b>SNODE3</b>   | SNode3 <sup>2</sup> | 6     | Selection node 3 (JES2 only)                                                                                                                                                          |       |
| <b>SNODE4</b>   | SNode4 <sup>2</sup> | 6     | Selection node 4 (JES2 only)                                                                                                                                                          |       |
| <b>SDEST1</b>   | SRout1 <sup>2</sup> | 6     | Selection destination 1 (JES2 only)                                                                                                                                                   |       |
| <b>SDEST2</b>   | SRout2 <sup>2</sup> | 6     | Selection destination 2 (JES2 only)                                                                                                                                                   |       |
| <b>SDEST3</b>   | SRout3 <sup>2</sup> | 6     | Selection destination 3 (JES2 only)                                                                                                                                                   |       |
| <b>SDEST4</b>   | SRout4 <sup>2</sup> | 6     | Selection destination 4 (JES2 only)                                                                                                                                                   |       |
| <b>DEST</b>     | Rmt <sup>2</sup>    | 5     | JES print routing (JES2 only)                                                                                                                                                         |       |
| <b>NODE</b>     | Node <sup>2</sup>   | 4     | JES print node (JES2 only)                                                                                                                                                            |       |
| <b>ISFEND</b>   | .END                | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |       |

Notes on the table follow.

<sup>1</sup> The width of the PRINTER column is 7 if the shortened format of device names has been specified.

<sup>2</sup> This column is not included in the default field list.

## Proclib panel (PROC)

The Proclib (PROC) panel allows you to display the JES2 procedure library concatenation for the local JES2 member.

## Command

Access the Proclib panel with the **PROC** command from any SDSF panel. (JES2 only)

## Parameters

The panel contains columns that show data set attributes. The attributes are obtained by SDSF by using catalog search and by reading the VTOC for the volume where the data set resides.

You can use the **SHORT** parameter to suppress the gathering of the data set information. When in **SHORT** mode, the columns are visible but they show blanks or zeros based on the formatting type.

The columns that are not retrieved in **SHORT** mode and display as blank or zeros based on column type are as follows:

- VolSer
- BlkSize
- Extent
- SMS
- LRecL
- DSOrg
- RecFm
- CrDate
- RefDate

The panel totals the extents for all data sets being shown. In **SHORT** mode, the extent count may be zero or reflect only data sets gathered from down-level systems. To indicate that the extent count may be different from what is expected, and that the panel is in **SHORT** mode, the EXT keyword in the title is shown as \*EXT in **SHORT** mode.

The parameter usage is as follows:

PROC (S | SHORT)

### Panel title information

The title line contains the following information:

|                          |               |              |           |                       |
|--------------------------|---------------|--------------|-----------|-----------------------|
| <b>SDSF PROC DISPLAY</b> | <b>SYS1</b>   | <b>*EXT</b>  | <b>19</b> | <b>LINE 1-10 (10)</b> |
|                          |               |              |           |                       |
|                          | System        | Total number |           | Total lines           |
|                          | you are       | of extents   |           |                       |
|                          | logged on     | for all data |           | Lines displayed       |
|                          | to            | sets being   |           |                       |
|                          |               | displayed    |           |                       |
|                          |               |              |           |                       |
|                          | Asterisk      |              |           |                       |
|                          | in short mode |              |           |                       |

## PROC command action characters

The action characters for the PROC command are shown in Table 199 on page 233.

Table 199. PROC Command Action Characters

| Action Character | Description                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                               |
| /                | Show column values for row (ISPF only).                                                                            |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                             |
| %(exec)          | Run a REXX exec.                                                                                                   |
| =                | Repeat previous action character or overtype.                                                                      |
| D                | Display proclib. You can add: <ul style="list-style-type: none"> <li>D - Display proclib in debug mode.</li> </ul> |
| LA               | List RACF access. IBM Security Server (RACF) must be active.                                                       |
| LP               | List RACF profiles. IBM Security Server (RACF) must be active.                                                     |
| LV               | List data sets for a DASD volume (ISPF only).                                                                      |
| S                | Browse (ISFAFD only).                                                                                              |
| SB               | ISPF browse data sets.                                                                                             |
| SE               | ISPF edit data sets.                                                                                               |
| SV               | ISPF view data sets.                                                                                               |

## Columns on the PROC panel

The columns on the PROC panel are shown in Table 200 on page 233.

Table 200. Columns on the PROC Panel

| Column name    | Title (Displayed) | Width | Description                                                                                      |
|----------------|-------------------|-------|--------------------------------------------------------------------------------------------------|
| <b>DDNAME</b>  | DDNAME            | 8     | The ddname of the data set. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SEQ</b>     | Seq               | 3     | Sequence number for data set in list                                                             |
| <b>DSNAME</b>  | DSName            | 44    | Data set name                                                                                    |
| <b>VOLSER</b>  | VolSer            | 6     | Volume serial                                                                                    |
| <b>DEFVOL</b>  | DefVol            | 6     | Defined volume serial                                                                            |
| <b>STATUS</b>  | Status            | 8     | Data set status                                                                                  |
| <b>TSO</b>     | TSO               | 3     | Proclib used for TSO (YES or NO)                                                                 |
| <b>STC</b>     | STC               | 3     | Proclib used for started tasks (YES or NO)                                                       |
| <b>STATIC</b>  | Static            | 6     | Static allocation (YES or NO)                                                                    |
| <b>BLKSIZE</b> | BlkSize           | 7     | Block size                                                                                       |
| <b>EXTENT</b>  | Extent            | 6     | Number of data set extents                                                                       |

Table 200. Columns on the PROC Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SMS</b>      | SMS               | 3     | SMS indicator (YES or NO). YES if SMS managed.                                                                                                                                        |
| <b>LRECL</b>    | LRecL             | 5     | Logical record length for data set                                                                                                                                                    |
| <b>DSORG</b>    | DSOrg             | 5     | Data set organization                                                                                                                                                                 |
| <b>RECFM</b>    | RecFm             | 5     | Record format                                                                                                                                                                         |
| <b>CRDATE</b>   | CrDate            | 8     | Data set creation date                                                                                                                                                                |
| <b>REFDATE</b>  | RefDate           | 8     | Data set last reference date                                                                                                                                                          |
| <b>SEQMAX</b>   | SeqMax            | 6     | Maximum sequence number for data set in list                                                                                                                                          |
| <b>USECOUNT</b> | UseCount          | 8     | Concatenation use count                                                                                                                                                               |
| <b>PATHNAME</b> | Pathname          | 127   | Path name                                                                                                                                                                             |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Product Enablement panel (PROD)

The Product Enablement (PROD) panel shows information about products that have been registered and their current status.

### Command

Access the PROD panel with the **PROD** command from any SDSF panel.

### Parameters

The parameters shown in [Table 201 on page 234](#) allow you to customize the PROD display.

The parameter usage is as follows:

PROD (*type*)

**PROD** with no parameters displays the enablement state. This is the default.

Consider the following example:

**PROD REG** - Displays the Product Enablement panel showing only registered products.

| Table 201. PROD Parameters |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| Parameter                  | Description                                                                                         |
| STATE   S                  | STATE specifies that the PROD panel should only show product enablement. This is the default.       |
| REG   R                    | REG specifies that the PROD panel should only show registered products.                             |
| ALL   A                    | ALL specifies that the PROD panel should show all products, including those registered as NOREPORT. |

## 1

| SDSF | PROD | DISPLAY          | SYS1 | SYS2 | STATE        | LINE 1-15 (15)   |
|------|------|------------------|------|------|--------------|------------------|
|      |      |                  |      |      |              |                  |
|      |      | System you are   |      |      | Product      | Lines displayed  |
|      |      | logged on to     |      |      | type: STATE, | or first line    |
|      |      |                  |      |      | REG, or ALL  | if 100,000       |
|      |      |                  |      |      |              | or more          |
|      |      | System displayed |      |      |              | Total lines      |
|      |      |                  |      |      |              | (**** if more    |
|      |      |                  |      |      |              | than 99,999,999) |

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Displays registration information or enablement state for a product.                                |
| DA               | Displays registration information or enablement state for all products.                             |

| Column name | Title (Displayed) | Width | Description                                             |
|-------------|-------------------|-------|---------------------------------------------------------|
| PRODUCT     | PRODUCT           | 16    | Name of the product. This is the fixed field.           |
| STATUS      | State             | 10    | The status of the product                               |
| OWNER       | Owner             | 8     | The owner of the software                               |
| FEATURE     | Feature           | 16    | The product feature name                                |
| VERSION     | Version           | 8     | Version, release, and modification level of the product |
| PRODID      | ProdID            | 8     | The product ID                                          |
| ENTRYTYPE   | Type              | 5     | Entry type                                              |
| INSTANCES   | Instances         | 9     | The number of instances of the feature                  |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT</b>   | Report            | 6     | Display register request in command and SMF report as specified in registration request (YES or NO)                                                   |
| <b>LICENSED</b> | Licensed          | 8     | License is associated with the product as specified in registration request (YES or NO)                                                               |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

The Processes (PS) panel allows you to display information about z/OS UNIX System Services processes.

## Command

Access the Process panel with the **PS** command from any SDSF panel.

## Parameters

The parameters shown in [Table 204](#) on [page 236](#) allow you to customize the PS display.

The parameter usage is as follows:

PS (ALL | ACTIVE)

**PS** with no parameters displays all z/OS UNIX System Services processes. This is the default.

Consider the following example:

- **PS** - Displays the Processes panel, showing all processes.

Table 204. PS Parameters

| Parameter | Description                                                                       |
|-----------|-----------------------------------------------------------------------------------|
| ALL       | <i>ALL</i> displays all z/OS UNIX System Services processes. This is the default. |
| ACTIVE    | <i>ACTIVE</i> displays only active processes.                                     |

### Panel title information

The title line contains the following information:

|             |                                                 |             |                                              |                       |
|-------------|-------------------------------------------------|-------------|----------------------------------------------|-----------------------|
| <b>SDSF</b> | <b>UNIX PROCESSES</b>                           | <b>SYS1</b> | <b>ALL</b>                                   | <b>LINE 1-19 (33)</b> |
|             |                                                 |             |                                              |                       |
|             | SYSNAME value<br>or name of the<br>local system |             |                                              | Lines<br>displayed    |
|             |                                                 |             |                                              |                       |
|             |                                                 |             | Processes being displayed<br>(ALL or ACTIVE) | Total lines           |

## PS command action characters

The action characters for the PS command are shown in [Table 205 on page 237](#).

| Table 205. PS Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| C                                       | Cancel the address space that owns the process.                                                     |
| D                                       | Display information about processes.                                                                |
| K                                       | Kill the process (SIGKILL).                                                                         |
| L                                       | List process details.                                                                               |
| LCK                                     | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LT                                      | List threads. Requires SDSFAUX READ access to UNIXPRIV class resource SUPERUSER.PROCESS.GETPSENT.   |
| LU                                      | List user ID information. IBM Security Server (RACF) must be active.                                |
| T                                       | Kill the process (SIGTERM).                                                                         |

## Columns on the PS panel

The columns on the PS panel are shown in [Table 206 on page 237](#).

| Table 206. Columns on the PS Panel |                   |       |                                                                                         |
|------------------------------------|-------------------|-------|-----------------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                             |
| <b>JOBNAME</b>                     | DSNAME            | 8     | Job name. This is the fixed field. It is ignored on an FLD statement.                   |
| <b>JOBID</b>                       | JobID             | 8     | Job ID of the process                                                                   |
| <b>STATUS</b>                      | Status            | 32    | Status of the process                                                                   |
| <b>OWNERID</b>                     | Owner             | 8     | User ID of owner                                                                        |
| <b>STATE</b>                       | State             | 5     | State of the process or of most recently created thread (corresponds to d omvs display) |
| <b>CPU</b>                         | CPU-Time          | 8     | Compute time in hundredths of seconds                                                   |
| <b>PID</b>                         | PID               | 10    | Process ID                                                                              |
| <b>PPID</b>                        | PPID              | 10    | Parent process ID                                                                       |

Table 206. Columns on the PS Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ASID</b>      | ASID              | 5     | Address space ID                                                                                                                                                                      |
| <b>ASIDX</b>     | ASIDX             | 5     | Address space ID in hexadecimal                                                                                                                                                       |
| <b>LATCHPID</b>  | LatchWaitPID      | 12    | PID on which this process is waiting                                                                                                                                                  |
| <b>COMMAND</b>   | Command           | 40    | Command that created process                                                                                                                                                          |
| <b>SERVER</b>    | ServerName        | 32    | Server name                                                                                                                                                                           |
| <b>TYPE</b>      | Type              | 4     | Server type (only when the process is a server)                                                                                                                                       |
| <b>ACTFILES</b>  | ActFiles          | 8     | Number of active files (only when the process is a server)                                                                                                                            |
| <b>MAXFILES</b>  | MaxFiles          | 8     | Maximum number of files (only when the process is a server)                                                                                                                           |
| <b>TIMEE</b>     | St-Time           | 8     | Time process was started. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.                                                                                     |
| <b>DATEE</b>     | St-Date           | 8     | Date process was started. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.                                                                                     |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>SYSNAME</b>   | SysName           | 8     | System name where process is executing                                                                                                                                                |
| <b>SECLABEL</b>  | SecLabel          | 8     | Security label of the process                                                                                                                                                         |
| <b>DATETIMEE</b> | St-DateTime       | 19    | Date and time that execution began. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the St-Date and St-Time columns.                       |
| <b>ZIIPTIME</b>  | zIIP-Time         | 9     | System and user compute time on zIIP                                                                                                                                                  |
| <b>RUID</b>      | RUID              | 8     | Process real user ID                                                                                                                                                                  |
| <b>EUID</b>      | EUID              | 8     | Process effective user ID                                                                                                                                                             |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

#### Values for State

| Table 207. Values for State |                                      |
|-----------------------------|--------------------------------------|
| Value                       | Description                          |
| 1                           | State is for a single thread process |
| A                           | Message queue receive wait           |
| B                           | Message queue send wait              |
| C                           | Communication system kernel wait     |
| D                           | Semaphore operation wait             |
| E                           | Quiesce frozen                       |



| <i>Table 207. Values for State (continued)</i> |                                                                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Value</b>                                   | <b>Description</b>                                                                                                                                                            |
| F                                              | File system kernel wait                                                                                                                                                       |
| G                                              | MVS pause wait                                                                                                                                                                |
| H                                              | Process state is for multiple threads and pthread was used to create one of the threads. Process state is obtained from the initial pthread created task (IPT).               |
| I                                              | Swapped out                                                                                                                                                                   |
| K                                              | Other kernel wait (for example, pause or sigsuspend)                                                                                                                          |
| L                                              | Canceled, parent has performed wait, an still session or process group leader                                                                                                 |
| M                                              | Process state is for multiple threads and pthread_create was not used to create any of the multiple threads. Process state is obtained from the most recently created thread. |
| P                                              | Ptrace kernel wait                                                                                                                                                            |
| Q                                              | Quiesce termination wait                                                                                                                                                      |
| R                                              | Running (not kernel wait)                                                                                                                                                     |
| S                                              | Sleeping                                                                                                                                                                      |
| T                                              | Stopped                                                                                                                                                                       |
| W                                              | Waiting for child (wait or waitpid callable service)                                                                                                                          |
| X                                              | Creating new process (fork callable service is running)                                                                                                                       |
| Z                                              | Canceled and parent has not performed wait (Z for zombie)                                                                                                                     |

### Scaling of data

When a value is too large to fit in the available space, SDSF scales the value using these abbreviations:

| <i>Table 208. Scaling of data</i> |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| <b>Value</b>                      | <b>Description</b>                                        |
| K                                 | Kilo (hexadecimal scaling)                                |
| T                                 | Thousands (decimal scaling) or Tera (hexadecimal scaling) |
| M                                 | Millions (decimal scaling) or Mega (hexadecimal scaling)  |
| B                                 | Billions (decimal scaling)                                |
| G                                 | Giga (hexadecimal scaling)                                |
| P                                 | Peta (hexadecimal scaling)                                |
| KB                                | Kilobytes                                                 |

| Table 208. Scaling of data (continued) |             |
|----------------------------------------|-------------|
| Value                                  | Description |
| MB                                     | Megabytes   |
| GB                                     | Gigabytes   |
| TB                                     | Terabytes   |
| PB                                     | Petabytes   |

Changing the width of the column, with the **ARRANGE** command, affects the scaling. When filtering on columns that use binary abbreviations (KB, MB, and so forth) you can enter either a number or a number with the abbreviation. For example, 4096 and 4KB are both valid with entering a filter. However, SDSF always displays the value as 4KB.

## Punch panel (PUN)

The Punch panel allows you to display information about JES punches and jobs being punched.

### Command

Access the Punch panel with the **PUN** command from any SDSF panel.

### Parameters

The parameters shown in [Table 209 on page 240](#) allow you to customize the PUN display.

The parameter usage is as follows:

```
PUN (punch-list)
```

**PUN** with no parameters displays information about all punches.

Consider the following examples:

- **PUN 1 2 RMT** - Displays information about local punches 1 and 2, and all remote punches for all remote locations.
- **PUN R20-30** - Displays information about punches at remote locations 20 through 30.

| Table 209. PUN Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>punch-list</i>         | <p><i>punch-list</i> is up to four of the following, in any combination:</p> <ul style="list-style-type: none"> <li>• number - A local punch ID (1 to 32767).</li> <li>• number-range - A range of local punch IDs (1 to 32767).</li> <li>• Rnumber - R followed by a remote location (1 to 32767).</li> <li>• Rnumber-range - R followed by a range of remote locations (1 to 32767).</li> <li>• LCL - All local punches.</li> <li>• RMT - All remote punches.</li> </ul> <p>Parameters with "number" are valid for JES2 only.</p> |

## Panel title information

The title line contains the following information:

```

SDSF PUNCH DISPLAY SYS1
 |
 | SYSNAME value or
 | name of the local system
 |
LINE 1-19 (31)
 |
 | Total lines
 | (**** if
 | more than
 | 99,999,999)
 |
 | Lines displayed or
 | first line if
 | 100,000 or more

```

## PUN command action characters

The action characters for the PUN command are shown in [Table 210 on page 241](#).

| Table 210. PUN Command Action Characters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                            |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| /                                        | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| %(exec)                                  | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| =                                        | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| B                                        | Backspace. Optional (JES2) or required (JES3) parameters include: <ul style="list-style-type: none"> <li>• number of pages (JES2 only).</li> <li>• C - Most recent checkpoint.</li> <li>• C,number - Before the most recent checkpoint. (pages for JES2; lines for JES3)</li> <li>• D - Top of the current data set.</li> <li>• N - Internal checkpoint (JES3 only).</li> <li>• Nnumber - Lines before the internal checkpoint (JES3 only).</li> <li>• NnumberP - Pages before the internal checkpoint (JES3 only).</li> </ul> |
| C                                        | Purge output being processed by a punch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CG                                       | Cancel only the output destined for this device for the current job (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CJ                                       | Cancel all of the output for the current job (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CT                                       | Stop the punch automatically once the current activity is canceled (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Table 210. PUN Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                | Display information. You can add: <ul style="list-style-type: none"> <li>• L - Display information, long form.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| E                | Restart a punch. You can add one or more of these parameters (JES3 only): <ul style="list-style-type: none"> <li>• A - Automatic mode. Not valid with M.</li> <li>• D - Turn on diagnostic mode. Not valid with X.</li> <li>• H - Hold the current data set.</li> <li>• J - Requeue all completed data sets for the current job.</li> <li>• M - Manual mode. Not valid with A.</li> <li>• R - Request that it perform a scheduling pass.</li> <li>• T - End it automatically once the current job is rescheduled.</li> <li>• X - Turn off diagnostic mode. Not valid with D.</li> </ul> |
| F                | Forward space. Optional (JES2) or required (JES3) parameters: <ul style="list-style-type: none"> <li>• number - Number of pages (JES2 only).</li> <li>• C - Most recent checkpoint.</li> <li>• Cnumber - From the most recent checkpoint (pages for JES2, lines for JES3). Add P for pages for JES3.</li> <li>• N - last internally-noted checkpoint (JES3 only).</li> <li>• Nnumber - Lines from the internal checkpoint (JES3 only).</li> <li>• NnumberP - Pages from the internal checkpoint (JES3 only).</li> </ul>                                                                 |
| I                | Interrupt the punch (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| L                | Fail the punch DSP (JES3 only). You can add: <ul style="list-style-type: none"> <li>• D - Fail the punch DSP with a dump (JES3 only).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| N                | Punch another copy of the output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| P                | Stop (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| S                | Start. You can add one or more of these parameters (JES3 only): <ul style="list-style-type: none"> <li>• A - Automatic mode. Mutually exclusive with M.</li> <li>• D - Turn on diagnostic mode. Mutually exclusive with X.</li> <li>• M - Manual mode. Mutually exclusive with A.</li> <li>• T - End it when this request completes.</li> <li>• X - Turn off diagnostic mode. Mutually exclusive with D.</li> </ul>                                                                                                                                                                     |

| <i>Table 210. PUN Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                            | Description                                                                                                                                                                                                                                                                                                                                                                            |
| V                                                           | Vary online (JES3 only).                                                                                                                                                                                                                                                                                                                                                               |
| VF                                                          | Vary offline (JES3 only).                                                                                                                                                                                                                                                                                                                                                              |
| X                                                           | Invoke a punch writer (JES3 only). You can add one or more of these parameters: <ul style="list-style-type: none"> <li>• D - Turn on diagnostic mode. Mutually exclusive with X.</li> <li>• R - Suspend writer output until the device is available.</li> <li>• T - End it after the output is printed.</li> <li>• X - Turn off diagnostic mode. Mutually exclusive with D.</li> </ul> |
| Z                                                           | Halts punch activity.                                                                                                                                                                                                                                                                                                                                                                  |

## Columns on the PUN panel

The columns on the PUN panel are shown in [Table 211 on page 243](#).

*Table 211. Columns on the PUN Panel*

| Column name    | Title (Displayed) | Width | Description                                                              |
|----------------|-------------------|-------|--------------------------------------------------------------------------|
| <b>DEVNAME</b> | PUNCH             | 10    | Device name. This is the fixed field. It is ignored on an FLD statement. |
| <b>STATUS</b>  | Status            | 8     | Punch status                                                             |
| <b>GROUP</b>   | Group             | 8     | Device group name (JES3 only)                                            |
| <b>SFORMS</b>  | SForms            | 8     | Selection form number                                                    |
| <b>SFORM2</b>  | SForm2            | 8     | Selection form number 2 (JES2 only)                                      |
| <b>SFORM3</b>  | SForm3            | 8     | Selection form number 3 (JES2 only)                                      |
| <b>SFORM4</b>  | SForm4            | 8     | Selection form number 4 (JES2 only)                                      |
| <b>SFORM5</b>  | SForm5            | 8     | Selection form number 5 (JES2 only)                                      |
| <b>SFORM6</b>  | SForm6            | 8     | Selection form number 6 (JES2 only)                                      |
| <b>SFORM7</b>  | SForm7            | 8     | Selection form number 7 (JES2 only)                                      |
| <b>SFORM8</b>  | SForm8            | 8     | Selection form number 8 (JES2 only)                                      |
| <b>JNAME</b>   | JobName           | 8     | Active job name                                                          |
| <b>JOBID</b>   | JobID             | 8     | Active job ID                                                            |
| <b>JTYPE</b>   | Type              | 5     | Type of active address space                                             |
| <b>JNUM</b>    | JNum <sup>1</sup> | 6     | Active job number                                                        |
| <b>OWNERID</b> | Owner             | 8     | User ID of owner                                                         |
| <b>SCLASS</b>  | SClass            | 15    | Output selection classes                                                 |
| <b>RECCNT</b>  | Rec-Cnt           | 7     | Number of line-mode records in the job                                   |
| <b>RECPRT</b>  | Rec-Prt           | 7     | Number of line-mode records printed                                      |

Table 211. Columns on the PUN Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                     |
|-------------------|-------------------|-------|-----------------------------------------------------------------|
| <b>PAGECNT</b>    | Page-Cnt          | 8     | Output page count                                               |
| <b>PAGEPRT</b>    | Page-Prt          | 8     | Output pages printed                                            |
| <b>SEP</b>        | Sep               | 3     | Separator page between output groups (JES2 only)                |
| <b>SEPDS</b>      | SepDS             | 5     | Separator page between data sets                                |
| <b>CCTL</b>       | CCtl              | 4     | Data carriage control stream                                    |
| <b>CMPCT</b>      | Cmpct             | 4     | Compaction for SNA remote punches                               |
| <b>COMP</b>       | Comp              | 4     | Compression                                                     |
| <b>COMPAC</b>     | Compact           | 8     | Compaction table name for SNA remote punches                    |
| <b>FLUSH</b>      | Fls               | 3     | Blank card after each data set                                  |
| <b>SWTRID</b>     | SWriter           | 8     | Punch selection writer ID (JES2 only)                           |
| <b>PRTWS</b>      | Work-Selection    | 40    | Punch work selection criteria                                   |
| <b>SPRMODE1</b>   | SPrMode1          | 8     | Output selection process mode 1                                 |
| <b>SPRMODE2-4</b> | SPrMode2-4        | 8     | Output selection process modes 2-4                              |
| <b>SDESTN1</b>    | SDest1            | 8     | Punch selection destination name 1 (JES2 only)                  |
| <b>SDESTN2-4</b>  | SDest2-4          | 8     | Punch selection destination names 2-4 (JES2 only)               |
| <b>SJOBNAME</b>   | SJobName          | 8     | Selection job name (JES2 only)                                  |
| <b>SOWNER</b>     | SOwner            | 8     | Selection creator ID (JES2 only)                                |
| <b>SVOL</b>       | SVol              | 6     | Selection volume (JES2 only)                                    |
| <b>SELECT</b>     | Select            | 7     | Send Output To (remote punches only)                            |
| <b>CKPTLINE</b>   | CkptLine          | 8     | Number of lines per logical page (JES2 only)                    |
| <b>CKPTPAGE</b>   | CkptPage          | 8     | Number of logical pages per checkpoint (JES2 only)              |
| <b>CKPTREC</b>    | CkptRec           | 3     | Number of records per checkpoint (JES3 only)                    |
| <b>UNIT</b>       | Unit              | 5     | Punch unit name                                                 |
| <b>LINELIM</b>    | Line-Limit        | 21    | Punch line limit (JES2 only)                                    |
| <b>SRANGE</b>     | SRange            | 22    | Selection job number range (JES2 only)                          |
| <b>LRECL</b>      | LRecL             | 5     | Logical record length of transmitted data (SNA only)            |
| <b>PSETUP</b>     | Setup             | 6     | Setup option (JES2 only)                                        |
| <b>PAUSE</b>      | Pau               | 3     | Pause mode                                                      |
| <b>SUSPEND</b>    | Sus               | 3     | Punch-interrupt feature option (BSC connection only, JES2 only) |
| <b>PTRACE</b>     | Tr                | 3     | Punch tracing                                                   |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                     |
| <b>DSYSID</b>     | SysID             | 5     | JES2 member name (JES2 only)                                    |
| <b>JESNAME</b>    | JESN              | 4     | JES subsystem name                                              |
| <b>JESLEVEL</b>   | JESLevel          | 8     | z/OS JES level                                                  |

Table 211. Columns on the PUN Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECLABEL</b>  | Seclabel          | 8     | Security label of the job on the device                                                                                                                                               |
| <b>DEVSECLB</b>  | DSecLabel         | 9     | Security label of the device (JES2 only)                                                                                                                                              |
| <b>LINELIML</b>  | Line-Lim-Lo       | 11    | Punch line limit, minimum                                                                                                                                                             |
| <b>LINELIMH</b>  | Line-Lim-Hi       | 11    | Punch line limit, maximum                                                                                                                                                             |
| <b>SVOL2-4</b>   | Svol2-4           | 6     | Selection volumes 2-4 (JES2 only)                                                                                                                                                     |
| <b>OGNAME</b>    | O-Grp-N           | 8     | Output group name (JES2 only)                                                                                                                                                         |
| <b>OGID1</b>     | OGid1             | 5     | Output group ID 1 (JES2 only)                                                                                                                                                         |
| <b>OGID2</b>     | OGid2             | 5     | Output group ID 2 (JES2 only)                                                                                                                                                         |
| <b>FORMS</b>     | Forms             | 8     | Output forms                                                                                                                                                                          |
| <b>PRMODE</b>    | Prmode            | 8     | Output process mode                                                                                                                                                                   |
| <b>WTRID</b>     | Writer            | 8     | Output writer name (JES2 only)                                                                                                                                                        |
| <b>DESTN</b>     | Dest              | 8/18  | Output destination (JES2 only)                                                                                                                                                        |
| <b>DPRIO</b>     | DP                | 2     | Output priority                                                                                                                                                                       |
| <b>JPRI0</b>     | JP                | 2     | Job priority                                                                                                                                                                          |
| <b>OCLASS</b>    | C                 | 1     | Output class                                                                                                                                                                          |
| <b>DEVTYPE</b>   | DevType           | 8     | Device type (JES3 only)                                                                                                                                                               |
| <b>DSPNAME</b>   | DSPName           | 8     | Dynamic support program name (JES3 only)                                                                                                                                              |
| <b>HFORMS</b>    | HForms            | 6     | Use designated forms until status is changed (JES3 only)                                                                                                                              |
| <b>COPIES</b>    | Copies            | 6     | Copy count (JES3 only)                                                                                                                                                                |
| <b>DYNAMIC</b>   | Dyn               | 3     | Start device dynamically (JES3 only)                                                                                                                                                  |
| <b>DGRPY</b>     | DGrpY             | 3     | Device cannot process data sets that are destined for any local device (JES3 only)                                                                                                    |
| <b>BURSTPAGE</b> | B                 | 3     | Punch burst page at end of job (JES3 only)                                                                                                                                            |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. This column is not included in the default field list.

## RACF Classes panel (RAC)

The RACF Classes (RAC) panel shows the RACF classes and their attributes on the current system. From this panel, you view a list of profiles within a single class.

### Parameters

The parameter usage is as follows:

RAC (ACTIVE | ACT) | (INACTIVE | INACT) | (ALL)

**RAC** with no parameters defaults to the ACTIVE setting.

| Table 212. RAC Parameters |                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                         |
| ACTIVE   ACT              | Specifies that the RAC panel should only show classes that are active. This is the default setting. |
| INACTIVE   INACT          | Specifies that the RAC panel should only show classes that are inactive.                            |
| ALL                       | Specifies that the RAC panel should show all classes regardless of their status.                    |

## Command

Access the RACF Classes panel with the **RAC** command from any SDSF panel.

## Panel title information

The title line contains the following information:

|                   |                                                      |                                                                            |                                                  |
|-------------------|------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|
| SDSF RACF CLASSES | SYS1                                                 | status                                                                     | LINE 1-15 (65)                                   |
|                   | System ID<br>of system<br>you are<br>logged<br>on to |                                                                            | Lines displayed<br>or first line<br>if 100,000   |
|                   |                                                      | The status parameter<br>passed to the RAC<br>command (ACTIVE INACTIVE ALL) | Total lines<br>(**** if more<br>than 99,999,999) |

## RAC command action characters

The action characters for the RAC command are shown in [Table 213 on page 246](#).

| Table 213. RAC Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overwrite.                                                      |
| L                                        | List all profiles for the RACF class.                                                               |

## Columns on the RAC panel

The columns on the RAC panel are shown in [Table 214 on page 247](#).



Table 214. Columns on the RAC Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                           |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>       | NAME              | 8     | The RACF class name. This is the fixed field.                                                                                                         |
| <b>XREF</b>       | Xref              | 8     | Member/group cross reference                                                                                                                          |
| <b>ACTIVE</b>     | Active            | 6     | Active indicator (YES or NO)                                                                                                                          |
| <b>DYNAMIC</b>    | Dynamic           | 7     | Dynamic indicator (YES or NO)                                                                                                                         |
| <b>MAXLEN</b>     | MaxLen            | 6     | Maximum profile length (ENTITYX)                                                                                                                      |
| <b>DEFAULTRC</b>  | DfltRC            | 6     | Default return code                                                                                                                                   |
| <b>RACLIST</b>    | Raclist           | 8     | RACLIST setting                                                                                                                                       |
| <b>GROUP</b>      | Group             | 5     | Resource group indicator (YES or NO)                                                                                                                  |
| <b>UACC</b>       | UACC              | 8     | Universal access level                                                                                                                                |
| <b>OPERATIONS</b> | Oper              | 4     | Operations indicator (YES or NO)                                                                                                                      |
| <b>GENLIST</b>    | Genlist           | 7     | Genlist indicator (YES or NO)                                                                                                                         |
| <b>SIGNAL</b>     | Signal            | 6     | ENF signal indicator (YES or NO)                                                                                                                      |
| <b>SECLABEL</b>   | Seclabel          | 8     | Seclabel indicator (YES or NO)                                                                                                                        |
| <b>IBM</b>        | IBM               | 3     | IBM supplied (YES or NO)                                                                                                                              |
| <b>POSIT</b>      | Posit             | 5     | Posit value                                                                                                                                           |
| <b>KEYQUAL</b>    | KeyQual           | 7     | Key qualifiers                                                                                                                                        |
| <b>MAC</b>        | MAC               | 7     | Mandatory access check                                                                                                                                |
| <b>MIXED</b>      | Mixed             | 5     | Mixed case indicator (YES or NO)                                                                                                                      |
| <b>FIRST</b>      | First             | 30    | Profile first character syntax rules                                                                                                                  |
| <b>OTHER</b>      | Other             | 30    | Profile other characters syntax rules                                                                                                                 |
| <b>ORIGLEN</b>    | OrigLen           | 7     | Original maximum length (ENTITY)                                                                                                                      |
| <b>PROFILE</b>    | Profile           | 7     | Profiles allowed (YES or NO)                                                                                                                          |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## RACF Data Sets panel (RACD)

The RACF Data Sets (RACD) panel displays RACF data sets currently defined to the system. This panel shows the data set name and volume serial, as well as important attributes of each data set and database range table information.

### Command

Access the RACF Data Sets panel with the **RACD** command from any SDSF panel.

## Panel title information

The title line contains the following information:

```
SDSF RACF DATA SETS SYS1 SYS2 LINE 1-4 (4)
 | | |
 | | |
 System ID | | |
 of system | | |
 you are | | |
 logged | | |
 on to | | |
 | | |
 Systems displayed | | |
 (MVS or SYSNAME | | |
 value) | | |
 | | |
 | | |
 Lines displayed | | |
 or first line | | |
 if 100,000 | | |
 | | |
 | | |
 | | |
 Total lines | | |
 (**** if more | | |
 than 99,999,999)| | |
```

## RACD command action characters

The action characters for the RACD command are shown in [Table 215 on page 248](#).

| Table 215. RACD Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| LA                                        | List RACF access.                                                                                   |
| LP                                        | List detailed information about a RACF profile.                                                     |
| LV                                        | Shows data sets in an ISPF data set list.                                                           |
| LVT                                       | List VTOC for the data set volume.                                                                  |

## Columns on the RACD panel

The columns on the RACD panel are shown in [Table 216 on page 248](#).

| Table 216. Columns on the RACD Panel |                   |       |                                                  |
|--------------------------------------|-------------------|-------|--------------------------------------------------|
| Column name                          | Title (Displayed) | Width | Description                                      |
| DSNAME                               | DSNAME            | 44    | The RACF data set name. This is the fixed field. |
| TYPE                                 | Type              | 8     | Type (PRIMARY or BACKUP)                         |
| ACTIVE                               | Active            | 6     | Active indicator (YES or NO)                     |
| VSAM                                 | VSAM              | 4     | VSAM data set (YES or NO)                        |
| ENCRYPTED                            | Encrypted         | 9     | Encrypted data set (YES or NO)                   |
| SEQNUM                               | Seq               | 3     | Sequence number                                  |
| VOLSER                               | VolSer            | 6     | Volume serial                                    |
| UNIT                                 | Unit              | 4     | Unit address                                     |

Table 216. Columns on the RACD Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLEXCOMM</b> | PlexComm          | 12    | Sysplex communications setting                                                                                                                        |
| <b>BUFFERS</b>  | Buffers           | 7     | Number of buffers                                                                                                                                     |
| <b>RANGE</b>    | Range             | 44    | Range table lower bound character value                                                                                                               |
| <b>RANGEX</b>   | RangeX            | 88    | Range table lower bound hexadecimal value                                                                                                             |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## RACF Information panel (RACF)

The RACF Information (RACF) panel displays RACF general configuration information, along with the entry point addresses of each known RACF exit.

## Command

Access the RACF Information panel with the **RACF** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDSF RACF INFORMATION                                | SYS1                                                    | SYS1                                           | LINE 1-1 (1)                                      |
|------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|---------------------------------------------------|
| System ID<br>of system<br>you are<br>logged<br>on to | Systems<br>displayed<br>(MVS value or<br>SYSNAME value) | Lines displayed<br>or first line<br>if 100,000 | Total lines<br>(**** if more<br>than 99,999,999)9 |

## RACF command action characters

The action characters for the RACF command are shown in Table 217 on page 249.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |

| Table 217. RACF Command Action Characters (continued) |                                                                 |
|-------------------------------------------------------|-----------------------------------------------------------------|
| Action Character                                      | Description                                                     |
| =                                                     | Repeat previous action character or overtype.                   |
| L                                                     | Search for and list parmlib data sets (ISPF only).              |
| LCK                                                   | List health checks. IBM Health Checker for z/OS must be active. |
| LO                                                    | List RACF options. IBM Security Server (RACF) must be active.   |

## Columns on the RACF panel

The columns on the RACF panel are shown in [Table 218 on page 250](#).

Table 218. Columns on the RACF Panel

| Column name         | Title (Displayed) | Width | Description                                         |
|---------------------|-------------------|-------|-----------------------------------------------------|
| <b>SYSNAME</b>      | NAME              | 8     | System name. This is the fixed field.               |
| <b>PARMLIB</b>      | Parmlib           | 8     | IRRPRMxx parmlib suffix                             |
| <b>PROTECTALL</b>   | ProtectAll        | 10    | ProtectAll setting (FAILURE, WARNING, or OFF)       |
| <b>DASDVOL</b>      | DASDVOL           | 7     | DASDVOL active (YES or NO)                          |
| <b>TAPEVOL</b>      | TAPEVOL           | 7     | TAPEVOL active (YES or NO)                          |
| <b>TAPEDSN</b>      | TAPEDSN           | 7     | TAPEDSN active (YES or NO)                          |
| <b>GENERIC</b>      | Generic           | 7     | Generic characters (ENHANCE or NORMAL)              |
| <b>PWDALG</b>       | PwdAlg            | 6     | Password algorithm                                  |
| <b>PWDCASE</b>      | PwdCase           | 7     | Password case (UPPER or MIXED)                      |
| <b>PWDHIST</b>      | PwdHist           | 7     | Password history depth                              |
| <b>PWDMAX</b>       | PwdMax            | 6     | Password maximum consecutive attempts               |
| <b>PWDCHANGE</b>    | PwdChange         | 8     | Password change interval                            |
| <b>PHRASECHANGE</b> | PhrChange         | 8     | Password phrase change interval                     |
| <b>REVOKEINACT</b>  | RevInact          | 8     | Inactive user revoke interval                       |
| <b>CMDPREF</b>      | CmdPref           | 8     | Subsystem command prefix                            |
| <b>SUBSYS</b>       | Subsys            | 6     | Subsystem name                                      |
| <b>DSNAME</b>       | Dsname            | 44    | Primary database name                               |
| <b>VOLSER</b>       | Volser            | 6     | Primary database volume serial                      |
| <b>REFNAME</b>      | RefName           | 7     | RACF parmlib member name stem                       |
| <b>RCVT</b>         | RCVT              | 8     | RCVT address                                        |
| <b>ICHDEX01</b>     | ICHDEX01          | 8     | ICHDEX01 exit address (password authentication)     |
| <b>ICHRFX01</b>     | ICHRFX01          | 8     | ICHRFX01 exit address (FASTAUTH local pre-process)  |
| <b>ICHRFX02</b>     | ICHRFX02          | 8     | ICHRFX02 exit address (FASTAUTH local post-process) |

Table 218. Columns on the RACF Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ICHRFX03</b> | ICHRFX03          | 8     | ICHRFX03 exit address (FASTAUTH x-mem pre-process)                                                                                                    |
| <b>ICHRFX04</b> | ICHRFX04          | 8     | ICHRFX04 exit address (FASTAUTH x-mem post-process)                                                                                                   |
| <b>ICHCCX00</b> | ICHCCX00          | 8     | ICHCCX00 exit address (command syntax)                                                                                                                |
| <b>ICHCNX00</b> | ICHCNX00          | 8     | ICHCNX00 exit address (command syntax verify)                                                                                                         |
| <b>ICHNCV00</b> | ICHNCV00          | 8     | ICHNCV00 exit address (naming convention)                                                                                                             |
| <b>ICHPWX01</b> | ICHPWX01          | 8     | ICHPWX01 exit address (new password)                                                                                                                  |
| <b>ICHRCX01</b> | ICHRCX01          | 8     | ICHRCX01 exit address (AUTH pre-process)                                                                                                              |
| <b>ICHRCX02</b> | ICHRCX02          | 8     | ICHRCX02 exit address (AUTH post-process)                                                                                                             |
| <b>ICHRDX01</b> | ICHRDX01          | 8     | ICHRDX01 exit address (DEFINE pre-process)                                                                                                            |
| <b>ICHRDX02</b> | ICHRDX02          | 8     | ICHRDX02 exit address (DEFINE post-process)                                                                                                           |
| <b>ICHRIX01</b> | ICHRIX01          | 8     | ICHRIX01 exit address (VERIFY pre-process)                                                                                                            |
| <b>ICHRIX02</b> | ICHRIX02          | 8     | ICHRIX02 exit address (VERIFY post-process)                                                                                                           |
| <b>ICHRLX01</b> | ICHRLX01          | 8     | ICHRLX01 exit address (LIST pre and post-process)                                                                                                     |
| <b>ICHRLX02</b> | ICHRLX02          | 8     | ICHRLX02 exit address (LIST selection)                                                                                                                |
| <b>ICHPWX11</b> | ICHPWX11          | 8     | ICHPWX11 exit address (password phrase)                                                                                                               |
| <b>SYSLEVEL</b> | SysLevel          | 25    | System level                                                                                                                                          |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## RACF Options panel (RACO)

The RACF Options (RACO) panel displays current RACF options. The data that is shown is similar to the **SETROPTS LIST** command output.

### Action character keyword

Access the RACF Options panel with the **RACO** command from any SDSF panel.

### Panel title information

The title line contains the following information:

SDSF RACF OPTIONS SYS1  
|  
System you are  
logged on to

LINE 1-15 (65)  
|  
Lines shown  
and total line

## RACO display format

The RACF Options panel displays RACF global options and their settings, along with the RACF classes that are defined on the system, grouped by type. The data is presented in an SDSF browse session with the following section headers:

### RACF GLOBAL OPTIONS AND SETTINGS

RACF settings and their values.

### ACTIVE CLASSES

A list of currently active RACF classes.

### STATISTICS

A list of RACF classes whose statistics are being recorded.

### GENERIC COMMAND CLASSES

A list of RACF classes that support generic profile command processing.

### GENERIC PROFILE CLASSES

A list of RACF classes that support generic profiles.

### GLOBAL CHECKING CLASSES

A list of RACF classes that are eligible for global access checking.

### RACLISTED CLASSES

A list of currently RACLISTed RACF classes.

### LOG DEFAULT CLASSES

A list of RACF classes where auditing is controlled by the profile that protects the resource rather than at the class level.

## RACF Profiles panel (RACP)

---

The RACF Profiles (RACP) panel shows the RACF profiles for a class. From this panel, you can issue actions to show the associated access list or browse the profile information.

### Commands

Access the RACP panel with the **RACP** command from any SDSF panel, or from the RAC panel by using the **L** action character against the specific class.

The RACP command requires I/O to the RACF data set. When there is a large number of profiles for a specific class, the response time might be greatly increased. To reduce the overhead of the RACP command, the *profile-mask* keyword can be specified after the class name.

Alternatively, you can filter the RACP display by using the following commands on any SDSF panel:

- To list only RACF profiles in the GROUP class, enter the **RACG** command.
- To list only RACF profiles in the USER class, enter the **RACU** command.

### Parameters

The parameters shown in [Table 219 on page 253](#) allows you to customize the RACP display. The **RACG** and **RACU** commands do not accept any parameters.

The parameter usage for RACP is as follows:

```
RACP (class-name) (profile-name)
```

RACP with no parameters displays the DATASET class.

Table 219. RACP Parameters

| Parameter           | Description                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>class-name</i>   | Limits the panel to the specified RACF class name. The default is DATASET.                                                                                                            |
| <i>profile-mask</i> | Filters the displayed list. Specify up to 40 characters of the profile name. Masking characters of * and % can be used, except in the first position of the string. The default is *. |

Panel title information

The title line contains the following information:

SDSF RACF PROFILES SYS1

class

System  
you are  
logged on  
to

The RACF class  
whose profiles are  
being shown

LINE 1-15 (65)

Lines  
displayed

Total lines

RACP action characters

The action characters for RACP are shown in [Table 220 on page 253](#).

| Table 220. RACP Action Characters |                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                  | Description                                                                                         |
| ./                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                 | Show column values for row (ISPF only).                                                             |
| //                                | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                           | Run a REXX exec.                                                                                    |
| =                                 | Repeat previous action character or overtype.                                                       |
| L                                 | Display the access list for the profile (or connected groups for the USER class).                   |
| S                                 | Browse the RACF profile detailed information.                                                       |

Columns on the RACP panel

The columns on the RACP panel are shown in [Table 221 on page 253](#).

Table 221. Columns on the RACP Panel

| Column name | Title (Displayed) | Width | Description                                |
|-------------|-------------------|-------|--------------------------------------------|
| PROFILE     | Profile           | 127   | The profile name. This is the fixed field. |

# RACF RRSF Nodes panel (RACR)

The RACF RRSF Nodes (RACR) panel displays the RACF remote sharing facility (RRSF) nodes currently defined to the system.

The RRSF panel requires READ access to the IRR.RADMIN.EXTRACT.RRSF profile in the FACILITY class.

## Command

Access the RACF RRSF Nodes panel with the **RACR** command from any SDSF panel.

## Panel title information

The title line contains the following information:

SDSF RACF RRSF NODES SYS1

System ID  
of system  
you are  
logged  
on to

LINE 1-6 (6)

Lines displayed  
or first line  
if 100,000

Total lines  
(\*\*\*\* if more  
than 99,999,999)

## RACR command action characters

The action characters for the RACR command are shown in [Table 222 on page 254](#).

| Table 222. RACR Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| D                                         | Display the RRSF node information.                                                                  |
| VAI                                       | Change the RRSF node to allow inbound messages.                                                     |
| VD                                        | Change the RRSF node to be dormant.                                                                 |
| VDI                                       | Change the RRSF node to deny inbound messages.                                                      |
| VO                                        | Change the RRSF node to be operative.                                                               |

## Columns on the RACR panel

The columns on the RACR panel are shown in [Table 223 on page 255](#).



Table 223. Columns on the RACR Panel

| Column name      | Title (Displayed) | Width | Description                                       |
|------------------|-------------------|-------|---------------------------------------------------|
| <b>NAME</b>      | NAME              | 8     | The RACF RRSF node name. This is the fixed field. |
| <b>PROTOCOL</b>  | Protocol          | 8     | Communications protocol                           |
| <b>STATE</b>     | State             | 16    | Connection state                                  |
| <b>TYPE</b>      | Type              | 8     | Node type                                         |
| <b>HOSTNAME</b>  | HostName          | 24    | Host name                                         |
| <b>HOSTADDR</b>  | HostAddr          | 24    | Host address                                      |
| <b>PORT</b>      | Port              | 5     | Port number                                       |
| <b>LISTENER</b>  | Listener          | 8     | Listener status                                   |
| <b>TLSRULE</b>   | RuleName          | 16    | AT-TLS rule name                                  |
| <b>TLSCIENT</b>  | ClientAuth        | 16    | AT-TLS client authentication                      |
| <b>TLSCIPHER</b> | Cipher            | 48    | AT-TLS cipher algorithm                           |
| <b>LASTTO</b>    | LastTo            | 19    | Last outbound transmission datetime               |
| <b>LASTFROM</b>  | LastFrom          | 19    | Last inbound transmission datetime                |
| <b>PREFIX</b>    | Prefix            | 16    | Prefix                                            |
| <b>WDSQUAL</b>   | WDSQual           | 16    | Workspace data sets qualifier                     |
| <b>FILESIZE</b>  | Filesize          | 8     | File size                                         |
| <b>DENIED</b>    | Denied            | 6     | Numer of denied records                           |
| <b>DATACLAS</b>  | DataClas          | 8     | SMS data class                                    |
| <b>MGMTCLAS</b>  | MgmtClas          | 8     | SMS management class                              |
| <b>STORCLAS</b>  | StorClas          | 8     | SMS storage class                                 |
| <b>INMSG</b>     | InMsg             | 44    | Inbound message data set name                     |
| <b>INMSGREC</b>  | InMsgRec          | 8     | Inbound message data set records                  |
| <b>INMSGXT</b>   | InMsgXt           | 7     | Inbound message data set extents                  |
| <b>OUTMSG</b>    | OutMsg            | 44    | Outbound message data set name                    |
| <b>OUTMSGREC</b> | OutMsgRec         | 9     | Outbound message data set records                 |
| <b>OUTMSGXT</b>  | OutMsgXt          | 8     | Outbound message data set extents                 |
| <b>NETNAME</b>   | NetName           | 8     | APPC network name                                 |
| <b>LUNAME</b>    | LUName            | 17    | APPC LU name                                      |
| <b>MODENAME</b>  | ModeName          | 8     | APPC mode name                                    |
| <b>TPNAME</b>    | TPName            | 64    | APPC TP name                                      |
| <b>CMDPREF</b>   | CmdPref           | 8     | Subsystem command prefix                          |
| <b>SUBSYS</b>    | Subsys            | 6     | Subsystem name                                    |
| <b>DESC</b>      | Desc              | 32    | Node description                                  |
| <b>SYSNAME</b>   | SysName           | 8     | System name when part of MSN                      |

Table 223. Columns on the RACR Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Reader panel (RDR)

The Reader panel allows you to display information about JES readers and jobs being processed by readers.

### Command

Access the Reader panel with the **RDR** command from any SDSF panel.

### Parameters

The parameters shown in [Table 224 on page 256](#) allow you to customize the RDR display.

The parameter usage is as follows:

```
RDR (reader-list)
```

Consider the following example:

- **RDR 1 2 RMT** - Displays information about local readers 1 and 2, and all remote readers for all remote locations.
- **RDR R20-30** - Displays information about readers at remote locations 20 through 30.

Table 224. RDR Parameters

| Parameter          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>reader-list</i> | <p><i>reader-list</i> is up to four of the following, in any combination:</p> <ul style="list-style-type: none"> <li>• number - A local reader ID (1 to 99).</li> <li>• number-range - A range of local reader IDs (1 to 99).</li> <li>• Rnumber - R followed by a remote location (1 to 32767).</li> <li>• Rnumber-range - R followed by a range of remote locations (1 to 32767).</li> <li>• LCL - All local readers.</li> <li>• RMT - All remote readers.</li> </ul> <p>Parameters with "number" are valid for JES2 only.</p> |

### Panel title information

The title line contains the following information:

SDSF READER DISPLAY SYS1

SYSNAME value or  
name of the local system

LINE 1-19 (31)

Lines displayed or  
first line if  
100,000 or more

Total lines  
(\*\*\*\* if  
more than  
99,999,999)

## RDR command action characters

The action characters for the RDR command are shown in Table 225 on page 257.

| Table 225. RDR Command Action Characters |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                                                                                                                                                                                                                                                                                              |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                      |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                     |
| /                                        | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                  |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                   |
| %(exec)                                  | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                         |
| =                                        | Repeat previous action character or overwrite.                                                                                                                                                                                                                                                                                                                           |
| C                                        | Cancel. You can add one or more of these parameters (JES3 only): <ul style="list-style-type: none"><li>• H - Hold the control-card processor.</li><li>• HN - Process jobs that are completely entered.</li><li>• K - Leave hot readers allocated.</li><li>• KN - Do not leave hot readers allocated.</li></ul> You cannot combine H and HN or K and KN.                  |
| D                                        | Display the information. You can add: <ul style="list-style-type: none"><li>• L - Display the long form of information.</li></ul>                                                                                                                                                                                                                                        |
| L                                        | Fail the reader DSP (JES3 only). You can add: <ul style="list-style-type: none"><li>• D - Fail the reader DSP and take a dump (JES3 only).</li></ul>                                                                                                                                                                                                                     |
| P                                        | Stop (JES2 only).                                                                                                                                                                                                                                                                                                                                                        |
| S                                        | Start. You can add one or more of the following parameters (JES3 only): <ul style="list-style-type: none"><li>• H - Hold the control-card processor.</li><li>• HN - Process jobs after the batch is created.</li><li>• K - Keep active once end-of-file is reached.</li><li>• KN - Purge when end-of-file is reached.</li></ul> You cannot combine H and HN or K and KN. |
| V                                        | Vary online (JES3 only).                                                                                                                                                                                                                                                                                                                                                 |

| <i>Table 225. RDR Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VF                                                          | Vary offline (JES3 only).                                                                                                                                                                                                                                                                                                                                                                                                            |
| X                                                           | Invoke card reader support (JES3 only). You can add one or more of these parameters: <ul style="list-style-type: none"> <li>• C - Enable card image support.</li> <li>• H - Place the control-card processor in hold.</li> <li>• HN - Allow jobs to be processed.</li> <li>• K - Remain active after end-of-file is reached.</li> <li>• KN - Purge after end-of-file is reached.</li> </ul> You cannot combine H and HN or K and KN. |
| Z                                                           | Halt (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Columns on the RDR panel

The columns on the RDR panel are shown in [Table 226 on page 258](#).

*Table 226. Columns on the RDR Panel*

| Column name    | Title (Displayed) | Width  | Description                                                                                   |
|----------------|-------------------|--------|-----------------------------------------------------------------------------------------------|
| <b>DEVNAME</b> | READER            | 10     | Device name. This is the fixed field. It is ignored if coded on an FLD statement.             |
| <b>STATUS</b>  | Status            | 8      | Reader status                                                                                 |
| <b>GROUP</b>   | Group             | 8      | Device group name (JES3 only)                                                                 |
| <b>JNAME</b>   | JobName           | 8      | Job name                                                                                      |
| <b>JOBID</b>   | JobID             | 8      | Active job ID (JES2 only)                                                                     |
| <b>JTYPE</b>   | Type <sup>1</sup> | 5      | Type of active address space                                                                  |
| <b>JNUM</b>    | JNum <sup>1</sup> | 6      | Active job number (JES2 only)                                                                 |
| <b>OWNERID</b> | Owner             | 8      | User ID of owner                                                                              |
| <b>RECCNT</b>  | Rec-Cnt           | 10     | Number of records in the job (JES2 only)                                                      |
| <b>RECPRT</b>  | Rec-Proc          | 10     | Number of records processed                                                                   |
| <b>RCLASS</b>  | C                 | 1 or 8 | Default execution class. Default width expands to 8 if there are long class names in the MAS. |
| <b>RHOLD</b>   | Hold              | 4      | Job held after JCL conversion (JES2 only)                                                     |
| <b>RMCLASS</b> | MC                | 2      | Message class (JES2 only)                                                                     |
| <b>RPRTDST</b> | PrtDest           | 18     | Default destination for print output (JES2 only)                                              |
| <b>RPUNDST</b> | PunDest           | 18     | Default destination for punch output (JES2 only)                                              |
| <b>RSYSAFF</b> | SAff              | 5      | System affinity (JES2 only)                                                                   |
| <b>RAUTH</b>   | Authority         | 13     | Authority of the reader (JES2 only)                                                           |
| <b>PRIINC</b>  | PI                | 2      | Increment to selection priority (JES2 only)                                                   |

Table 226. Columns on the RDR Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRIOLIM</b>  | PL                | 2     | Maximum priority level that can be assigned to jobs. Any job's priority that exceeds this level is reduced to it. (JES2 only)                                                         |
| <b>RUNIT</b>    | Unit              | 5     | Reader unit name                                                                                                                                                                      |
| <b>XEQDEST</b>  | XeqDest           | 18    | Default execution node (JES2 only)                                                                                                                                                    |
| <b>RTRACE</b>   | Tr                | 3     | Reader tracing (JES2 only)                                                                                                                                                            |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>DSYSID</b>   | SysID             | 5     | JES2 member name (JES2 only)                                                                                                                                                          |
| <b>JESNAME</b>  | JESN              | 4     | JES subsystem name                                                                                                                                                                    |
| <b>JESLEVEL</b> | JESLevel          | 8     | z/OS JES level                                                                                                                                                                        |
| <b>SECLABEL</b> | SecLabel          | 8     | Security label of the job on the reader (JES2 only)                                                                                                                                   |
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device (JES2 only)                                                                                                                                              |
| <b>DEVTYPE</b>  | DevType           | 8     | Device type name (JES3 only)                                                                                                                                                          |
| <b>DSPNAME</b>  | DSPName           | 8     | Dynamic support program name (JES3 only)                                                                                                                                              |
| <b>ACCTREQ</b>  | AReq              | 3     | Account number required on job card (JES3 only)                                                                                                                                       |
| <b>PNAMEREQ</b> | PReq              | 3     | Programmer name required on job card (JES3 only)                                                                                                                                      |
| <b>SWA</b>      | SWA               | 5     | SWA ABOVE or BELOW (JES3 only)                                                                                                                                                        |
| <b>BLP</b>      | BLP               | 3     | Bypass label processing label setting is respected (JES3 only)                                                                                                                        |
| <b>RPRIO</b>    | DP                | 2     | Default job priority (JES3 only)                                                                                                                                                      |
| <b>RMLEVEL</b>  | ML                | 2     | Default job message level (JES3 only)                                                                                                                                                 |
| <b>RALEVEL</b>  | AL                | 2     | Default allocation message level (JES3 only)                                                                                                                                          |
| <b>RTIME</b>    | Time              | 10    | Default time limit (JES3 only)                                                                                                                                                        |
| <b>RREGION</b>  | Region            | 10    | Default region size (JES3 only)                                                                                                                                                       |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. This column is not included in the default field list.

## WLM Report Class panel (REPC)

The WLM report class (REPC) panel shows details about all report classes defined in the current WLM policy.

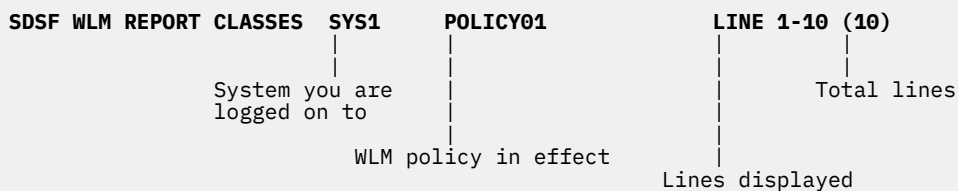
All rows on this panel are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the report class name.

## Command

Access the panel with the **REPC** command.

### Panel title information

The title line contains the following information:



## REPC command action characters

The action characters for the REPC command are shown in Table 227 on page 260.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| L                | List address spaces assigned to this WLM class or group.                                            |
| LE               | List enclaves.                                                                                      |

### Columns on the REPC panel

The columns on the REPC panel are shown in Table 228 on page 260.

| Column name | Title (Displayed) | Width | Description                                                                             |
|-------------|-------------------|-------|-----------------------------------------------------------------------------------------|
| NAME        | NAME              | 8     | Report class name. This is the fixed field. It is ignored if coded on an FLD statement. |
| DESC        | Description       | 32    | Report class description                                                                |
| POLNAME     | Policy            | 8     | Policy name in effect                                                                   |
| POLDESC     | PolicyDescription | 32    | Policy description                                                                      |
| POLACTDATE  | PolicyActDate     | 19    | Policy activation timestamp                                                             |
| CRUSER      | CrUser            | 8     | User ID creating policy definition                                                      |
| CRDATE      | CrDate            | 19    | Timestamp when policy definition created                                                |

Table 228. Columns on the WLM Report Class Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UPDUSER</b>    | UpdUser           | 8     | User ID last updating policy definition                                                                                                                                               |
| <b>UPDDATE</b>    | UpdDate           | 19    | Timestamp when policy definition was last updated                                                                                                                                     |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>TENANT</b>     | Tenant            | 6     | Tenant report class (YES or NO)                                                                                                                                                       |
| <b>TENANTNAME</b> | TenantName        | 10    | Associated tenant resource group                                                                                                                                                      |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Resource panel (RES)

The Resource (RES) panel allows you to display WLM resources.

### Command

To display resources in the MAS or sysplex, access the panel with the **RES** command. To display resources for a scheduling environment, access the panel with the **R** action character from the SE panel.

### Parameters

The parameters shown in [Table 229 on page 261](#) allow you to customize the RES display.

The parameter usage is as follows:

```
RES (MAS | ALL)
```

Consider the following example:

- **RES MAS** - Displays resources for all systems in the MAS.

| Table 229. RES Parameters |                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                                  |
| MAS                       | Displays resources for all systems in the MAS. It is the default for JES2; under JES3, it is treated as ALL. |
| ALL                       | Displays resources for all systems in the sysplex. This the default for JES3.                                |

### Panel title information

The title line contains the following information:

|      |     |           |     |                                            |                                      |                    |
|------|-----|-----------|-----|--------------------------------------------|--------------------------------------|--------------------|
| SDSF | WLM | RESOURCES | MAS | SYSTEMS                                    | DB2TEST                              | LINE 1-3 (3)       |
|      |     |           |     | Systems being<br>displayed (MAS<br>or ALL) | Scheduling<br>environment,<br>if any | Total lines        |
|      |     |           |     |                                            |                                      | Lines<br>displayed |

## RES command action characters

The action characters for the RES command are shown in [Table 230 on page 262](#).

| Table 230. RES Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| D                                        | Display resources in the Log. This issues the MVS D command.                                        |

## Columns on the RES panel

The columns on the RES panel are shown in [Table 231 on page 262](#).

| Table 231. Columns on the RES Panel |                                               |       |                                                                                                                                                                                       |
|-------------------------------------|-----------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column name                         | Title (Displayed)                             | Width | Description                                                                                                                                                                           |
| RESOURCE                            | RESOURCE                                      | 16    | Resource name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                   |
| REQSTATE                            | ReqState                                      | 8     | Required state of the resource for the scheduling environment. Displayed only if the panel is accessed with the R action character.                                                   |
| SYS1 to SYS32                       | Resolved from the actual names of the systems | 8     | Status of the resource on the system                                                                                                                                                  |
| SCHENV                              | SchedEnv                                      | 16    | Scheduling environment                                                                                                                                                                |
| DESCRIPT                            | Description                                   | 32    | Resource description                                                                                                                                                                  |
| ISFEND                              | .END                                          | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |



# WLM Resource Group panel (RGRP)

The WLM resource group (RGRP) panel shows details about all resource groups defined in the current WLM policy.

All rows on this panel are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the resource group name.

## Command

Access the panel with the **RGRP** command.

## Panel title information

The title line contains the following information:

SDSF WLM RESOURCE GROUPS

SYS1

POLICY01

LINE 1-3 (3)

System you are  
logged on to

WLM policy in effect

Total lines

Lines displayed

## RGRP command action characters

The action characters for the RGRP command are shown in [Table 232 on page 263](#).

| Table 232. RGRP Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overwrite.                                                      |
| L                                         | List address spaces assigned to this WLM class or group.                                            |
| LE                                        | List enclaves.                                                                                      |

## Columns on the RGRP panel

The columns on the RGRP panel are shown in [Table 233 on page 263](#).

| Table 233. Columns on the WLM Resource Group Panel |                   |       |                                                                                           |
|----------------------------------------------------|-------------------|-------|-------------------------------------------------------------------------------------------|
| Column name                                        | Title (Displayed) | Width | Description                                                                               |
| NAME                                               | NAME              | 8     | Resource group name. This is the fixed field. It is ignored if coded on an FLD statement. |
| DESC                                               | Description       | 32    | Resource group description                                                                |

Table 233. Columns on the WLM Resource Group Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>POLNAME</b>    | Policy            | 8     | Policy name in effect                                                                                                                                                                 |
| <b>MINSU</b>      | MinSU             | 8     | Minimum unweighted CPU service units per second                                                                                                                                       |
| <b>MAXSU</b>      | MaxSU             | 8     | Maximum unweighted CPU service units per second                                                                                                                                       |
| <b>MINLPARPCT</b> | MinLPAR%          | 8     | Minimum percentage of LPAR share                                                                                                                                                      |
| <b>MAXLPARPCT</b> | MaxLPAR%          | 8     | Maximum percentage of LPAR share                                                                                                                                                      |
| <b>MINCPUPCT</b>  | MinCPU%           | 7     | Minimum percentage of single CPU capacity                                                                                                                                             |
| <b>MAXCPUPCT</b>  | MaxCPU%           | 7     | Maximum percentage of single CPU capacity                                                                                                                                             |
| <b>MINMSUHR</b>   | MinMSUhr          | 8     | Minimum accounted workload MSU                                                                                                                                                        |
| <b>MAXMSUHR</b>   | MaxMSUhr          | 8     | Maximum accounted workload MSU                                                                                                                                                        |
| <b>MEMLIMIT</b>   | MemLimit          | 8     | Maximum memory limit (bytes)                                                                                                                                                          |
| <b>POLDESC</b>    | PolicyDescription | 32    | Policy description                                                                                                                                                                    |
| <b>POLACTDATE</b> | PolicyActDate     | 19    | Policy activation timestamp                                                                                                                                                           |
| <b>CRUSER</b>     | CrUser            | 8     | User ID creating policy definition                                                                                                                                                    |
| <b>CRDATE</b>     | CrDate            | 19    | Timestamp when policy definition created                                                                                                                                              |
| <b>UPDUSER</b>    | UpdUser           | 8     | User ID last updating policy definition                                                                                                                                               |
| <b>UPDDATE</b>    | UpdDate           | 19    | Timestamp when policy definition was last updated                                                                                                                                     |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>TENANT</b>     | Tenant            | 6     | Tenant resource group (YES or NO)                                                                                                                                                     |
| <b>INCLSPEC</b>   | InclSpec          | 8     | Include specialty processor (YES or NO)                                                                                                                                               |
| <b>TENANTID</b>   | TenantID          | 8     | Tenant ID                                                                                                                                                                             |
| <b>TENANTNAME</b> | TenantName        | 32    | Tenant name                                                                                                                                                                           |
| <b>SOLUTIONID</b> | SolutionID        | 60    | Solution ID                                                                                                                                                                           |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## RACF Log (RLOG) panel

The RACF Log (RLOG) panel displays logged RACF access attempts including the user ID, profile, class, and permission requested, and the access eventually granted.

The RLOG panel extracts data from SMF record type 80, subtype 2. Events that generate SMF type 80 records depend on the LOG option of the RACROUTE request, as well as the profile and class definitions in the RACF database.

The RLOG panel requires that the SDSF event log (ELOG) feature be active to provide the data for the display. If the ELOG feature is inactive, then RLOG cannot show recent activity.

## Command

Access the RACF log panel with the **RLOG** or **RL** command from any SDSF panel.

## Parameters

The parameters shown in Table 234 on page 265 allow you to customize the RLOG display.

The parameter usage is as follows:

```
RLOG (class | ALL)
```

**RLOG** or **RL** with no parameters displays all logged RACF access attempts.

| Parameter    | Description                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>class</i> | A character string that limits the panel to events where the profile class matches the filter value. The string can be up to 8 characters. If no value is specified, the default value of ALL is used. |
| ALL          | Displays all events.                                                                                                                                                                                   |

### Panel title information

The title line contains the following information:

| SDSF | RACF | LOG | SYS1                           | SYS1                                                  | ACTIVE                                | ALL                    | LINE 1-13 (13)                                                                                                   |
|------|------|-----|--------------------------------|-------------------------------------------------------|---------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------|
|      |      |     | System you are<br>logged on to | Systems<br>displayed<br>(MVS value<br>or system name) | Status of<br>the event<br>log feature | Class filter<br>or ALL | Lines<br>displayed or<br>first line if<br>100,000 or<br>more<br>Total lines<br>(**** if more<br>than 99,999,999) |

## RLOG command action characters

The action characters for the RLOG command are shown in Table 235 on page 265.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| L                | Display the event at the listed date and time in the OPERLOG.                                       |

Table 235. RLOG Command Action Characters (continued)

| Action Character | Description                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------|
| LA               | Display access list entries for the access attempt (opens the RACF Access panel).             |
| LP               | Display information for the profile used in the access attempt (opens the RACF Browse panel). |

## Columns on the RLOG panel

The columns on the RM panel are shown in [Table 236 on page 266](#).

Table 236. Columns on the RLOG Panel

| Column name       | Title (Displayed) | Width | Description                           |
|-------------------|-------------------|-------|---------------------------------------|
| <b>USERID</b>     | USERID            | 8     | User ID. This is the fixed field.     |
| <b>SYSNAME</b>    | SysName           | 8     | System name                           |
| <b>DATEE</b>      | Date              | 22    | Date stamp of event                   |
| <b>ACCINTENT</b>  | Intent            | 8     | Access level intent                   |
| <b>ACCALLOWED</b> | Allowed           | 8     | Access level allowed                  |
| <b>ACCRESULT</b>  | Result            | 8     | Access result                         |
| <b>CLASS</b>      | Class             | 8     | Class name                            |
| <b>PROFILE</b>    | Profile           | 127   | Profile name                          |
| <b>WARNING</b>    | Warning           | 7     | Warning active (YES or NO)            |
| <b>ACCREASON</b>  | Reason            | 20    | Access result reason                  |
| <b>NAME</b>       | Name              | 24    | Event name                            |
| <b>RESOURCE</b>   | Resource          | 127   | Resource name checked                 |
| <b>VOLSER</b>     | Volser            | 6     | Volume serial                         |
| <b>AUDITFUNC</b>  | AuditFunc         | 16    | Audit function                        |
| <b>USERNAME</b>   | UserName          | 20    | User ID name                          |
| <b>APPLNAME</b>   | ApplName          | 8     | Application name                      |
| <b>OWNER</b>      | Owner             | 8     | Profile owner                         |
| <b>JNAME</b>      | JobName           | 8     | Job name for event                    |
| <b>CATEGORY</b>   | Category          | 8     | Event category                        |
| <b>SECLABEL</b>   | SecLabel          | 8     | Security label                        |
| <b>SPECIAL</b>    | Special           | 7     | Special authority used (YES or NO)    |
| <b>OPERATIONS</b> | Operations        | 10    | Operations authority used (YES or NO) |
| <b>AUDITOR</b>    | Auditor           | 7     | Auditor authority used (YES or NO)    |
| <b>USEREXIT</b>   | UserExit          | 8     | User exit action (YES or NO)          |
| <b>FAILSOFT</b>   | FailSoft          | 8     | Failsoft processing (YES or NO)       |
| <b>BYPASS</b>     | Bypass            | 6     | Bypass used (YES or NO)               |

Table 236. Columns on the RLOG Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TRUSTED</b>   | Trusted           | 7     | Trusted attribute (YES or NO)                                                                                                                                                         |
| <b>SUPERUSER</b> | Superuser         | 9     | z/OS UNIX superuser (YES or NO)                                                                                                                                                       |
| <b>SYSFUNC</b>   | SysFunc           | 7     | z/OS UNIX system function (YES or NO)                                                                                                                                                 |
| <b>EUID</b>      | EUid              | 8     | Effective UID number                                                                                                                                                                  |
| <b>EGID</b>      | EGid              | 8     | Effective GID number                                                                                                                                                                  |
| <b>TYPE</b>      | Type              | 8     | Event source type                                                                                                                                                                     |
| <b>RECNUM</b>    | Record            | 6     | Original record number                                                                                                                                                                |
| <b>SUBTYPE</b>   | Subtype           | 7     | Event qualifier subtype                                                                                                                                                               |
| <b>AFC</b>       | AFC               | 4     | Audit Function Code (IRRPAFC)                                                                                                                                                         |
| <b>LOGSTR</b>    | LogStr            | 127   | Log string                                                                                                                                                                            |
| <b>SYSLEVEL</b>  | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Resource Monitor (RM) panel

The Resource Monitor (RM) panel allows you to display information about JES2 resources such as JOEs, JQEs and BERTs.

### Command

Access the Resource Monitor panel with the **RM** command from any SDSF panel (JES2 only).

### Parameters

The parameters shown in [Table 237 on page 267](#) allow you to customize the RM display.

The parameter usage is as follows:

```
RM (ALL | number-of-intervals)
```

**RM** with no parameters displays the current interval.

Consider the following example:

- **RM 3** - Displays the most recent 3 intervals.

| Table 237. RM Parameters   |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| Parameter                  | Description                                                                                                      |
| ALL                        | Displays all intervals.                                                                                          |
| <i>number-of-intervals</i> | Specifies the number of intervals to be displayed, including the most recent. JES2 maintains up to 72 intervals. |

## Panel title information

The title line contains the following information:

```
SDSF JES RESOURCE MONITOR SYS1 LINE 1-18 (18)
 |
 | Systems displayed
 | (MVS value or
 | SYSNAME value)
 |
 | Lines displayed
```

## RM command action characters

The action characters for the RM command are shown in [Table 238 on page 268](#).

| Table 238. RM Command Action Characters |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| D                                       | Display information about the resource.                                                             |

## Columns on the RM panel

The columns on the RM panel are shown in [Table 239 on page 268](#).

| Table 239. Columns on the RM Panel |                   |       |                                                                                          |
|------------------------------------|-------------------|-------|------------------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                              |
| RESNAME                            | RESOURCE          | 8     | JES2 resource name. This is the fixed field. It is ignored if coded on an FLD statement. |
| DSYSID                             | SysID             | 5     | JES2 member name                                                                         |
| STATUS                             | Status            | 10    | Resource status                                                                          |
| LIMIT                              | Limit             | 6     | Limit for the resource                                                                   |
| USENUM                             | InUse             | 6     | Number in use                                                                            |
| USEPCT                             | InUse%            | 6     | Percentage in use                                                                        |
| WARNPCT                            | Warn%             | 5     | Warning threshold (percentage)                                                           |
| INTAVG                             | IntAvg            | 6     | Average amount in use for the interval                                                   |
| INTHIGH                            | IntHigh           | 7     | Highest amount in use for the interval                                                   |
| INTLOW                             | IntLow            | 6     | Lowest amount in use for the interval                                                    |
| OVERWARN                           | OverWarn%         | 9     | Amount in use above the warning threshold (percentage)                                   |
| TIMEE                              | Time              | 8     | Time that the interval began                                                             |

Table 239. Columns on the RM Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DATEE</b>    | Date              | 8     | Date that the interval began                                                                                                                                                          |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>JESNAME</b>  | JESN              | 4     | JES2 subsystem name                                                                                                                                                                   |
| <b>JESLEVEL</b> | JESLevel          | 8     | z/OS JES2 level                                                                                                                                                                       |
| <b>DESCRIPT</b> | Description       | 20    | Descriptive resource name                                                                                                                                                             |
| <b>STMT</b>     | Statement         | 16    | Resource limit statement                                                                                                                                                              |
| <b>KEYWORD</b>  | Keyword           | 20    | Resource limit keyword                                                                                                                                                                |
| <b>SCOPE</b>    | Scope             | 7     | Resource scope (local or JESPLEX)                                                                                                                                                     |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Overtypable fields

The fields shown in [Table 240 on page 269](#) can be overtyped by authorized users. (JES2 only, except ODisp)

| Table 240. Overtypable fields on the RM panel |                                |
|-----------------------------------------------|--------------------------------|
| Field                                         | Description                    |
| Limit                                         | Limit for the resource         |
| Warn%                                         | Warning threshold (percentage) |

Notes for specific resources:

- CMDS - only Limit can be overtyped.
- TGS - only Warn% can be overtyped.
- BSCB, BUFX, CMBS, SMFB, VTMB - limit cannot be decreased.
- JOES, JQES - increasing the limit will temporarily degrade performance.
- TBUF - cannot be overtyped.

## Resource Monitor Alerts panel (RMA)

The Job Resource Monitor Alerts (RMA) panel shows resource alert, notice, and track messages. These messages are issued when JES2 detects problems related to resources.

The RMA panel requires use of the SDSFAUX address space for data gathering and is available only when running JES2.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the message-type pattern.

### Command

Access the RMA panel with the **RMA** command from any SDSF panel (JES2 only).

## Parameters

The parameter shown in [Table 241 on page 270](#) allows you to customize the RMA display.

The parameter usage is as follows:

```
RMA (NOTICE|N|ALERT|A|TRACK|T)
```

RMA with no parameters shows all notices, alerts, and tracks.

Consider the following examples:

- **RMA N** - Displays outstanding notices only.
- **RMA** - Displays all outstanding notices, alerts, and tracks.

| Table 241. RMA Parameters |                                |
|---------------------------|--------------------------------|
| Parameter                 | Description                    |
| NOTICE   N                | Displays only notice messages. |
| ALERT   A                 | Displays only alert messages.  |
| TRACK   T                 | Displays only track messages.  |

## Panel title information

The title line contains the following information:

```
SDSF JES RESOURCE ALERTS SYS1 LINE 0-0 (0)
 |
 | Systems displayed
 | (MVS value or
 | SYSNAME value)
 |
 | Lines displayed
 |
 | Total lines
```

## RMA command action characters

The action characters for the RMA command are shown in [Table 242 on page 270](#).

| Table 242. RMA Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| J                                        | Display the current state of monitor subtasks.                                                      |
| JD                                       | Display monitor details.                                                                            |
| JH                                       | Display resource history.                                                                           |
| JJ                                       | Display the current state of JES2.                                                                  |



| Table 242. RMA Command Action Characters (continued) |                                     |
|------------------------------------------------------|-------------------------------------|
| Action Character                                     | Description                         |
| JS                                                   | Display the current status of JES2. |

## Columns on the RMA panel

The columns on the RMA panel are shown in [Table 243 on page 271](#).

Table 243. Columns on the RMA Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>     | TYPE              | 7     | Message type (ALERT, NOTICE, or TRACK). This is the fixed field. It is ignored if coded on an FLD statement.                                                                          |
| <b>MEMBER</b>   | Member            | 8     | JES2 member name                                                                                                                                                                      |
| <b>MSGLINE1</b> | MessageLine1      | 71    | Message line 1                                                                                                                                                                        |
| <b>MSGLINE1</b> | MessageLine2      | 71    | Message line 2                                                                                                                                                                        |
| <b>MSGLINE3</b> | MessageLine3      | 71    | Message line 3                                                                                                                                                                        |
| <b>MSGLINE4</b> | MessageLine4      | 71    | Message line 4                                                                                                                                                                        |
| <b>MSGTIME</b>  | MessageTime       | 19    | Timestamp when alert recognized                                                                                                                                                       |
| <b>CRITICAL</b> | Critical          | 8     | Notice is critical (YES, NO, or blank)                                                                                                                                                |
| <b>JESNAME</b>  | JESN              | 4     | JES subsystem name                                                                                                                                                                    |
| <b>SYSNAME</b>  | System Name       | 8     | MVS system name                                                                                                                                                                       |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Search Help panel (SEARCH)

The Search Help panel shows the results of a **SEARCH** command that was entered on the command line when running SDSF under ISPF. The **SEARCH** command searches the contents of the SDSF help panels.

### Command

Access the SEARCH panel with the **SEARCH** command from any SDSF panel.

### Parameters

```
SEARCH (word1 word2 word3 word4)
```

You can enter up to 4 alphanumeric strings to search for. If a string contains spaces, enclose it in quotes.

Entering SEARCH without parameters displays a pop-up where you can type a word or phrase to search for.

### Panel title information

The title line contains the following information:

## SEARCH command action characters

The action characters for the SEARCH command are shown in [Table 244 on page 272](#).

*Table 244. SEARCH Command Action Characters*

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| S                | Selects the search results and opens the associated help topic.                                     |

## Columns on the SEARCH panel

The columns on the SEARCH panel are shown in Table 245 on page 272

Table 245. Columns on the SEARCH Panel

| Column name    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TITLE</b>   | TITLE             | 5     | Section title in HELP. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                           |
| <b>LINENUM</b> | Line              | 4     | Line number in help text section                                                                                                                                                      |
| <b>DESC</b>    | Help-Text         | 127   | Help text                                                                                                                                                                             |
| <b>ISFEND</b>  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Search panel (SRCH)

The SRCH panel shows the results of a member search from a data set list. The resulting table shows all data sets containing that member pattern.

**Note:** SRCH provides a different capability from the SEARCH command. SRCH implements a member search using a data set list, whereas SEARCH searches the SDSF help.

## Command

Access the Search panel with the **SRCH** command from the APF, JDD, LNK, LPA, PARM, or PROC panels, or the L action character on the SYSP panel.

## Parameters

The parameters shown in [Table 246 on page 273](#) allow you to customize the SRCH display.

The parameter usage is as follows:

```
SRCH member-pattern (F | NF | ALL)
```

Consider the following example:

- **SRCH IEA\*** - Displays the SRCH results for member pattern IEA\*.

| Table 246. SRCH Parameters |                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Parameter                  | Description                                                                                                              |
| <i>member-pattern</i>      | Searches for matching members in the dataset list. Can include * (any string of characters) or % (any single character). |
| F                          | Lists only those data sets where the member pattern was found.                                                           |
| NF                         | Lists only those data sets where the member pattern was not found.                                                       |
| ALL                        | Lists all data sets searched. This is the default. You can change the default with the <b>SET SRCH</b> command.          |

## Panel title information

The title line contains the following information:

```
SDSF DATA SET SEARCH ABCDEF* ALL LINE 1-11 (11)
 | |
 Search Search
 string parameter
 used
 (see note)
 Lines displayed
```

Note: Values can be FOUND, NOT FOUND, ALL, or PARMLIB.  
PARMLIB indicates that PARMLIB was searched.

When the SRCH panel is invoked from the SYSP panel using the L action character, the title line indicates that the PARMLIB was searched by displaying **PARMLIB** in place of **FOUND/NOT FOUND/ALL**.

## Setting the SRCH default

Use the **SET SRCH** command to set **SRCH** command defaults.

For example, the **SET SRCH F** command sets the default action to show only data sets where the member pattern was found. If you then enter **SRCH member-name (blank)**, it is equivalent to **SRCH member-name F**.

If you issue the **SET SRCH** command from within the SRCH panel, exit the SRCH panel and access it again for the **SET SRCH** command to take effect.

The value of **SET SRCH** is saved across SDSF sessions when running under ISPF.

You can also access the SET SRCH command default from the pull-down menu **Options > Browse and Print > Set default SRCH option** option.

| Table 247. SET SRCH Parameters |                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------|
| Parameter                      | Description                                                                           |
| F                              | Sets the default to list only those data sets where the member pattern was found.     |
| NF                             | Sets the default to list only those data sets where the member pattern was not found. |
| ALL                            | Sets the default to list all data sets searched. This is the default.                 |
| ?                              | Displays the current setting.                                                         |

## SRCH command action characters

The action characters for the SRCH command are shown in [Table 248 on page 274](#).

| Table 248. SRCH Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| =                                         | Repeat previous action character or overwrite.                                                      |
| LV                                        | List data sets for a DASD volume (ISPF only).                                                       |
| S                                         | Browse (ISFAFD only).                                                                               |
| SB                                        | Browse (ISPF only).                                                                                 |
| SE                                        | Edit (ISPF only).                                                                                   |
| SV                                        | ISPF View.                                                                                          |

## Columns on the SRCH panel

The columns on the SRCH panel are shown in [Table 249 on page 274](#).

| Table 249. Columns on the SRCH Panel |                   |                                          |                                                                                     |
|--------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| Column name                          | Title (Displayed) | Width                                    | Description                                                                         |
| DSNAME                               | DSNAME            | 13-44<br>(Varies based on longest name.) | Data set name. This is the fixed field. It is ignored if coded on an FLD statement. |
| SEQ                                  | Seq               | 3                                        | Sequence number                                                                     |
| VOLSER                               | VolSer            | 6                                        | Volume serial                                                                       |

Table 249. Columns on the SRCH Panel (continued)

| Column name    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STATUS</b>  | Status            | 16    | Data set or member status                                                                                                                                                             |
| <b>DSORG</b>   | DSOrg             | 5     | Data set organization                                                                                                                                                                 |
| <b>BLKSIZE</b> | BlkSize           | 7     | Data set block size                                                                                                                                                                   |
| <b>EXTENT</b>  | Extent            | 6     | Number of extents                                                                                                                                                                     |
| <b>SMS</b>     | SMS               | 3     | SMS indicator: YES if data set is SMS managed. Otherwise, NO.                                                                                                                         |
| <b>LRECL</b>   | LReCL             | 5     | Logical record length                                                                                                                                                                 |
| <b>RECFM</b>   | RecFm             | 5     | Record format                                                                                                                                                                         |
| <b>CRDATE</b>  | CrDate            | 8     | Data set creation date                                                                                                                                                                |
| <b>REFDATE</b> | RefDate           | 8     | Data set last referenced date                                                                                                                                                         |
| <b>SYSNAME</b> | Sysname           | 8     | System name                                                                                                                                                                           |
| <b>ISFEND</b>  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Scheduling Environment panel (SE)

The Scheduling Environment (SE) panel allows you to display the Scheduling Environments in the MAS or the sysplex.

### Command

Access the Scheduling Environment panel with the **SE** command from any SDSF panel.

### Parameters

The parameters shown in [Table 250 on page 275](#) allow you to customize the SE display.

The parameter usage is as follows:

```
SE (MAS|ALL)
```

Consider the following example:

- **SE ALL** - Displays scheduling environments for all systems in the sysplex.

| Table 250. SE Parameters |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                |
| MAS                      | Displays scheduling environments for all systems in the MAS. It is the default for JES2; under JES3, it is treated as ALL. |
| ALL                      | Displays scheduling environments for all systems in the sysplex. This the default for JES3.                                |

## 1

| SDSF WLM SCHEDULING ENVIRONMENTS ALL SYSTEMS | LINE 1-3 (3)    |
|----------------------------------------------|-----------------|
| System being displayed (MAS or ALL)          | Total lines     |
|                                              | Lines displayed |

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display scheduling environments in the log. This issues the MVS D command.                          |
| R                | Display resources for a scheduling environment.                                                     |
| ST               | Display the ST panel for all jobs requiring the scheduling environment.                             |

| Column Name    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ENV</b>     | SCHEDULING-ENV    | 16    | Scheduling environment name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                     |
| <b>SCRIPT</b>  | Description       | 32    | Description of scheduling environment                                                                                                                                                 |
| <b>SYSTEMS</b> | Systems           | 60    | Systems with the scheduling environment available                                                                                                                                     |
| <b>END</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

The SMF Data Sets (SMFD) panel displays details for SMF data sets.

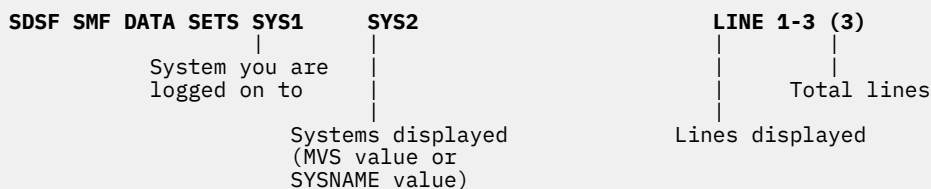
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## Command

Access the SMF Data Sets panel with the **SMFD** command from any SDSF panel.

### Panel title information

The title line contains the following information:



## SMFD command action characters

The action characters for the SMFD command are shown in Table 253 on page 277.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display SMF data.                                                                                   |

### Columns on the SMFD panel

The columns on the SMFD panel are shown in Table 254 on page 277.

| Column name    | Title (Displayed) | Width | Description                                                                         |
|----------------|-------------------|-------|-------------------------------------------------------------------------------------|
| <b>DSNAME</b>  | DSNAME            | 44    | Data set name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>  | Status            | 13    | Status of the SMF data set                                                          |
| <b>BLOCKS</b>  | Blocks            | 8     | Number of blocks allocated for the SMF data set                                     |
| <b>USED</b>    | Used              | 8     | Number of blocks used by the SMF data set                                           |
| <b>USEPCT</b>  | Use%              | 6     | Percentage of usage of the SMF data set                                             |
| <b>VOLSER</b>  | VolSer            | 6     | DASD volume that the SMF data set resides on                                        |
| <b>CRDATE</b>  | CRDate            | 10    | Date the data set was created                                                       |
| <b>CISIZE</b>  | CISize            | 10    | Control interval size of data set                                                   |
| <b>SYSNAME</b> | SysName           | 8     | System name                                                                         |

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## SMF Log Streams panel (SMFL)

The SMF Log Streams (SMFL) panel shows information about defined log streams that are recording SMF records.

## Command

Access the SMF Log Streams panel with the **SMFL** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|             |            |            |                |                   |             |                     |
|-------------|------------|------------|----------------|-------------------|-------------|---------------------|
| <b>SDSF</b> | <b>SMF</b> | <b>LOG</b> | <b>STREAMS</b> | <b>SYS1</b>       | <b>SYS2</b> | <b>LINE 1-3 (3)</b> |
|             |            |            |                |                   |             |                     |
|             |            |            |                | System you are    |             | Total lines         |
|             |            |            |                | logged on to      |             |                     |
|             |            |            |                |                   |             |                     |
|             |            |            |                | Systems displayed |             | Lines displayed     |
|             |            |            |                | (MVS value or     |             |                     |
|             |            |            |                | SYSNAME value)    |             |                     |

## SMFL command action characters

The action characters for the SMFL command are shown in Table 255 on page 278.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display SMF data.                                                                                   |

### Columns on the SMFL panel

The columns on the SMFL panel are shown in Table 256 on page 279.





## SMFO command action characters

The action characters for the SMFO command are shown in [Table 257 on page 280](#).

| Table 257. SMFO Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| D                                         | Display SMF data.                                                                                   |
| L                                         | Search for and list parmlib data sets (ISPF only).                                                  |
| LD                                        | List data sets.                                                                                     |
| LL                                        | List log streams.                                                                                   |
| LR                                        | List resources.                                                                                     |
| LS                                        | List subsystems.                                                                                    |

## Columns on the SMFO panel

The columns on the SMFO panel are shown in [Table 258 on page 280](#).

| Table 258. Columns on the SMFO Panel |                   |       |                                                                                             |
|--------------------------------------|-------------------|-------|---------------------------------------------------------------------------------------------|
| Column name                          | Title (Displayed) | Width | Description                                                                                 |
| ID                                   | ID                | 4     | SMF system identifier. This is the fixed field. It is ignored if coded on an FLD statement. |
| OPTION                               | Option            | 9     | SMF recording option                                                                        |
| MEMBER                               | Member            | 8     | SMFPRMxx currently used                                                                     |
| INTVAL                               | IntVal            | 8     | The default SMF recording interval in minutes                                               |
| SYNCVAL                              | SyncVal           | 11    | The default sync value                                                                      |
| FLOODSUPPORT                         | FloodSupport      | 12    | SMF record flood support is active (YES or NO)                                              |
| NOBUFFS                              | NoBuffs           | 7     | NOBUFFS settings                                                                            |
| BUFUSEWARN                           | BufUseWarn        | 10    | Global buffer use warning                                                                   |
| SMCA                                 | SMCA              | 8     | SMCA address                                                                                |
| SMCX                                 | SMCX              | 8     | SMCX address                                                                                |
| LOGSTREAM                            | LogStream         | 26    | The name of the default logstream used by SMF when the LOGSTREAM recording option is active |
| SYSNAME                              | SysName           | 8     | System name                                                                                 |
| SYSLEVEL                             | SysLevel          | 25    | Level of the operating system                                                               |

Table 258. Columns on the SMFO Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## SMF Real Time Resources panel (SMFR)

The SMF Real Time Resources (SMFR) panel shows information about the size and usage of in-memory buffers for nominated records.

## Command

Access the SMF Real Time Resources panel with the **SMFR** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|      |     |      |      |                   |      |      |      |     |                 |
|------|-----|------|------|-------------------|------|------|------|-----|-----------------|
| SDSF | SMF | REAL | TIME | RESOURCES         | SYS1 | SYS2 | LINE | 1-3 | (3)             |
|      |     |      |      |                   |      |      |      |     |                 |
|      |     |      |      | System you are    |      |      |      |     |                 |
|      |     |      |      | logged on to      |      |      |      |     | Total lines     |
|      |     |      |      |                   |      |      |      |     |                 |
|      |     |      |      | Systems displayed |      |      |      |     | Lines displayed |
|      |     |      |      | (MVS value or     |      |      |      |     |                 |
|      |     |      |      | SYSNAME value)    |      |      |      |     |                 |

## SMFR command action characters

The action characters for the SMFR command are shown in Table 259 on page 281.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display SMF data.                                                                                   |

### Columns on the SMFR panel

The columns on the SMFR panel are shown in Table 260 on page 282.

Table 260. Columns on the SMFR Panel

| Column name | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | NAME              | 26    | In-memory resource name. This is the fixed field.                                                                                                                                     |
| STATUS      | Status            | 7     | In-memory resource status                                                                                                                                                             |
| BUFFERINUSE | BufferInUse       | 11    | Amount of storage used currently in the buffer area                                                                                                                                   |
| BUFMAX      | BufMax            | 8     | Defined buffer size (RESSIZMAX) for this in-memory resource                                                                                                                           |
| BUFHWM      | BufHWM            | 8     | The high water mark for the buffer area                                                                                                                                               |
| CONNECT     | ActConn           | 8     | Number of active connections to this in-memory resource                                                                                                                               |
| TYPE        | Types             | 127   | Record types being collected by the in-memory resource                                                                                                                                |
| SYSNAME     | SysName           | 8     | System name                                                                                                                                                                           |
| SYSLEVEL    | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| ISFEND      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## SMF Subsystems panel (SMFS)

The SMF Subsystems (SMFS) panel displays SMF subsystems and exits.

## Command

Access the SMF Subsystems panel with the **SMFS** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|             |            |                   |             |                   |             |            |                 |
|-------------|------------|-------------------|-------------|-------------------|-------------|------------|-----------------|
| <b>SDSF</b> | <b>SMF</b> | <b>SUBSYSTEMS</b> | <b>SYS1</b> | <b>SYS2</b>       | <b>LINE</b> | <b>1-1</b> | <b>(3)</b>      |
|             |            |                   |             |                   |             |            |                 |
|             |            | System you are    |             |                   |             |            |                 |
|             |            | logged on to      |             |                   |             |            | Total lines     |
|             |            |                   |             |                   |             |            |                 |
|             |            |                   |             | Systems displayed |             |            | Lines displayed |
|             |            |                   |             | (MVS value or     |             |            |                 |
|             |            |                   |             | SYSNAME value)    |             |            |                 |

## SMFS command action characters

The action characters for the SMFS command are shown in Table 261 on page 282.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |

| Table 261. SMFS Command Action Characters (continued) |                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------|
| Action Character                                      | Description                                                                            |
| /                                                     | Show column values for row (ISPF only).                                                |
| //                                                    | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                               | Run a REXX exec.                                                                       |
| =                                                     | Repeat previous action character or overtype.                                          |
| D                                                     | Display SMF data.                                                                      |

## Columns on the SMFS panel

The columns on the SMFS panel are shown in Table 262 on page 283.

Table 262. Columns on the SMFS Panel

| Column name     | Title (Displayed) | Width | Description                                                                              |
|-----------------|-------------------|-------|------------------------------------------------------------------------------------------|
| <b>SUBSYS</b>   | SUBSYS            | 6     | SMF subsystem name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>DETAIL</b>   | Detail            | 6     | Indicates whether detailed data collection is set for the SMF subsystem (YES or NO)      |
| <b>INTVAL</b>   | IntVal            | 6     | Recording interval value for the SMF subsystem                                           |
| <b>IEFACTRT</b> | IEFACTRT          | 8     | IEFACTRT exit is active (YES or NO)                                                      |
| <b>IEFU29</b>   | IEFU29            | 6     | IEFU29 exit is active (YES or NO)                                                        |
| <b>IEFU29L</b>  | IEFU29L           | 7     | IEFU29L exit is active (YES or NO)                                                       |
| <b>IEFU83</b>   | IEFU83            | 6     | IEFU83 exit is active (YES or NO)                                                        |
| <b>IEFU84</b>   | IEFU84            | 6     | IEFU84 exit is active (YES or NO)                                                        |
| <b>IEFU85</b>   | IEFU85            | 6     | IEFU85 exit is active (YES or NO)                                                        |
| <b>IEFU86</b>   | IEFU86            | 6     | IEFU86 exit is active (YES or NO)                                                        |
| <b>IEFUAV</b>   | IEFUAV            | 6     | IEFUAV exit is active (YES or NO)                                                        |
| <b>IEFUJI</b>   | IEFUJI            | 6     | IEFUJI exit is active (YES or NO)                                                        |
| <b>IEFUJP</b>   | IEFUJP            | 6     | IEFUJP exit is active (YES or NO)                                                        |
| <b>IEFUJV</b>   | IEFUJV            | 6     | IEFUJV exit is active (YES or NO)                                                        |
| <b>IEFUSI</b>   | IEFUSI            | 6     | IEFUSI exit is active (YES or NO)                                                        |
| <b>IEFUSO</b>   | IEFUSO            | 6     | IEFUSO exit is active (YES or NO)                                                        |
| <b>IEFUTL</b>   | IEFUTL            | 6     | IEFUTL exit is active (YES or NO)                                                        |
| <b>TYPE</b>     | Types             | 127   | Record types being recorded for the SMF subsystem                                        |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                              |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                            |
| <b>NOTYPE</b>   | NoTypes           | 127   | Record types not being recorded for the SMF subsystem                                    |

Table 262. Columns on the SMFS Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## SMS Storage Groups panel (SMMSG)

The SMS Storage Groups (SMMSG) panel allows you to display SMS storage groups in the system.

## Command

Access the SMSG panel with the **SMSG** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|      |     |         |        |                   |       |       |           |             |
|------|-----|---------|--------|-------------------|-------|-------|-----------|-------------|
| SDSF | SMS | STORAGE | GROUPS | SYS1              | SYS1* | LINE  | 1-10      | (10)        |
|      |     |         | System | you are           |       |       |           |             |
|      |     |         | logged | on to             |       |       |           | Total lines |
|      |     |         |        |                   |       | Lines | displayed |             |
|      |     |         |        | Systems displayed |       |       |           |             |
|      |     |         |        | (MVS value or     |       |       |           |             |
|      |     |         |        | SYSNAME value)    |       |       |           |             |

## SMSG command action characters

The action characters for the SMSG command are shown in Table 263 on page 284.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overwrite.                                                      |
| D                | Display information.                                                                                |
| DL               | Display volumes in storage group.                                                                   |
| L                | List volumes in storage group.                                                                      |
| LS               | List device space for the storage group.                                                            |
| VD               | Disable storage group from allocating or accessing new data sets.                                   |

| Table 263. SMSG Command Action Characters (continued) |                                                      |
|-------------------------------------------------------|------------------------------------------------------|
| Action Character                                      | Description                                          |
| VDN                                                   | Disable storage group from allocating new data sets. |
| VE                                                    | Enable a storage group.                              |
| VQ                                                    | Quiesce a storage group.                             |
| VQN                                                   | Quiesce a storage group for new data sets.           |
| VS                                                    | Update space statistics for the storage group.       |

### Columns on the SMSG panel

The columns on the SMSG panel are shown in Table 264 on page 285.

Table 264. Columns on the SMSG Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STORGRP</b>    | NAME              | 8     | Storage group name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                              |
| <b>TYPE</b>       | Type              | 16    | Storage group type                                                                                                                                                                    |
| <b>STATUS</b>     | Status            | 16    | SMS status                                                                                                                                                                            |
| <b>TOTAL</b>      | TotalMB           | 7     | Total space in megabytes (MB)                                                                                                                                                         |
| <b>USEDPCT</b>    | Used%             | 5     | Space used percentage                                                                                                                                                                 |
| <b>FREE</b>       | FreeMB            | 6     | Free space in megabytes (MB)                                                                                                                                                          |
| <b>LFREE</b>      | LargestFreeMB     | 13    | Largest free extent in megabytes (MB)                                                                                                                                                 |
| <b>NUMVOL</b>     | Volume            | 6     | Number of volumes in storage group                                                                                                                                                    |
| <b>NUMONLINE</b>  | Online            | 6     | Number of volumes online                                                                                                                                                              |
| <b>NUMOFFLINE</b> | Offline           | 7     | Number of volumes offline                                                                                                                                                             |
| <b>NUMENABLE</b>  | Enabled           | 7     | Number of volumes enabled                                                                                                                                                             |
| <b>NUMDISABLE</b> | Disabled          | 8     | Number of volumes disabled                                                                                                                                                            |
| <b>NUMQUIESCE</b> | Quiesced          | 8     | Number of volumes quiesced                                                                                                                                                            |
| <b>USERID</b>     | LastUser          | 8     | Last user to modify storage group definition                                                                                                                                          |
| <b>CHGDATE</b>    | Change-Date-Time  | 19    | Timestamp of last change to definition                                                                                                                                                |
| <b>DESC</b>       | Description       | 120   | Description                                                                                                                                                                           |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>USED</b>       | UsedMB            | 7     | Used space in megabytes                                                                                                                                                               |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## SMS Volumes panel (SMSV)

The SMS Volumes (SMSV) panel allows you to display SMS volumes in the system.

## Command keyword

Access the SMSV panel with the **SMSV** command from any SDSF panel.

## Parameters

The parameter shown in [Table 265 on page 286](#) allows you to customize the SMSV display.

The parameter usage is as follows:

SMSV (storage-group)

SMSV with no parameters shows all volumes and storage groups.

Consider the following examples:

- **SMSV *groupname*** - Displays volumes in the storage group.
- **SMSV** - Displays all volumes and storage groups.

| Parameter            | Description                                       |
|----------------------|---------------------------------------------------|
| <i>storage-group</i> | Limits the panel to volumes in the storage group. |

### Panel title information

The title line contains the following information:

|      |     |         |                                |                                                      |                 |
|------|-----|---------|--------------------------------|------------------------------------------------------|-----------------|
| SDSF | SMS | VOLUMES | SYS1                           | SYS1*                                                | LINE 1-19 (21)  |
|      |     |         | System you are<br>logged on to |                                                      | Total lines     |
|      |     |         |                                | Systems displayed<br>(MVS value or<br>SYSNAME value) | Lines displayed |

## SMSV command action characters

The action characters for the SMSV command are shown in Table 266 on page 286.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |



Table 266. SMSV Command Action Characters (continued)

| Action Character | Description                                              |
|------------------|----------------------------------------------------------|
| D                | Display information.                                     |
| DC               | Display coupling facility cache structures for volume.   |
| DS               | Display storage group status.                            |
| DSL              | Display volumes in storage group.                        |
| LV               | List data sets for a DASD volume (ISPF only).            |
| LVT              | List VTOC for the volume.                                |
| VD               | Disable a volume from allocating or accessing data sets. |
| VDN              | Disable a volume from allocating new data sets.          |
| VE               | Enable a volume.                                         |
| VQ               | Quiesce a volume.                                        |
| VQN              | Quiesce a volume for new data sets.                      |
| VS               | Update space statistics for the volume.                  |

### Columns on the SMSV panel

The columns on the SMSV panel are shown in [Table 267 on page 287](#).

Table 267. Columns on the SMSV Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VOLSER</b>   | VOLSER            | 6     | Volume serial. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                   |
| <b>STATUS</b>   | Status            | 16    | Volume status                                                                                                                                                                         |
| <b>TOTAL</b>    | TotalMB           | 7     | Total space in megabytes (MB)                                                                                                                                                         |
| <b>USEDPCT</b>  | Used%             | 5     | Space used percentage                                                                                                                                                                 |
| <b>FREE</b>     | FreeMB            | 6     | Free space in megabytes (MB)                                                                                                                                                          |
| <b>LFREE</b>    | LargestFreeMB     | 13    | Largest free extent in megabytes (MB)                                                                                                                                                 |
| <b>DEVSTAT</b>  | Device-Status     | 16    | MVS status                                                                                                                                                                            |
| <b>UNIT</b>     | Unit              | 4     | Unit address if known                                                                                                                                                                 |
| <b>STORGRP</b>  | StorGrp           | 8     | Storage group                                                                                                                                                                         |
| <b>USERID</b>   | LastUser          | 8     | Last user to update storage group definition                                                                                                                                          |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>USED</b>     | UsedMB            | 7     | Used space in megabytes                                                                                                                                                               |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# Spool Offload panel (SO)

The Spool Offload (SO) panel allows you to display information about JES2 spool offloaders and their associated transmitters and receivers.

## Command

Access the Spool Offload panel with the **SO** command from any SDSF panel (JES2 only).

## Parameters

The parameters shown in [Table 268 on page 288](#) allow you to customize the SO display.

The parameter usage is as follows:

`SO (offload-list)`

**SO** without any parameters displays information about all the spool offloaders, transmitters and receivers defined to your system.

Consider the following example:

- **SO SHORT** - Displays information about all JES2 spool offloaders, but no transmitters or receivers.

| Table 268. SO Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| offload-list             | <i>reader-list</i> is up to four of the following, in any combination: <ul style="list-style-type: none"><li>• number - A local reader ID (1 to 99).</li><li>• number-range - A range of local reader IDs (1 to 99).</li><li>• Rnumber - R followed by a remote location (1 to 32767).</li><li>• Rnumber-range - R followed by a range of remote locations (1 to 32767).</li><li>• LCL - All local readers.</li><li>• RMT - All remote readers.</li></ul> Parameters with "number" are valid for JES2 only. |
| SHORT                    | Displays information about all JES2 spool offloaders, but no transmitters or receivers.                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Panel title information

The title line contains the following information:

|                            |                          |                 |             |
|----------------------------|--------------------------|-----------------|-------------|
| SDSF SPOOL OFFLOAD DISPLAY | SYS1                     | LINE 1-9        | (9)         |
|                            |                          |                 |             |
|                            | SYSNAME value or         |                 | Total lines |
|                            | name of the local system |                 |             |
|                            |                          |                 |             |
|                            |                          | Lines displayed |             |

## SO command action characters

The action characters for the SO command are shown in [Table 269 on page 289](#).

Table 269. SO Command Action Characters

| Action Character | Description                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).   |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                  |
| /                | Show column values for row (ISPF only).                                                               |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                |
| %(exec)          | Run a REXX exec.                                                                                      |
| =                | Repeat previous action character or overtype.                                                         |
| C                | Cancel a transmitter or receiver.                                                                     |
| D                | Display an offloader, transmitter, or receiver in the log.<br>• L - Display information in long form. |
| E                | Restart a transmitter.                                                                                |
| P                | Drain an offloader, transmitter, or receiver.                                                         |
| S                | Start a transmitter or receiver.                                                                      |
| SR               | Start an offloader to receive jobs and SYSOUT.                                                        |
| ST               | Start an offloader to transmit jobs and SYSOUT.                                                       |

### Columns on the SO panel

The columns on the SO panel are shown in [Table 270 on page 289](#).

Table 270. Columns on the SO Panel

| Column name    | Title (Displayed)  | Width | Description                                                                       |
|----------------|--------------------|-------|-----------------------------------------------------------------------------------|
| <b>DEVNAME</b> | DEVICE             | 8     | Device name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>  | Status             | 9     | Device status                                                                     |
| <b>TYPE</b>    | Type               | 8     | Device type                                                                       |
| <b>JNAME</b>   | Jobname            | 8     | Active jobname                                                                    |
| <b>JOBID</b>   | JobID              | 8     | Active JES2 job ID                                                                |
| <b>JTYPE</b>   | JType <sup>1</sup> | 5     | Type of active address space                                                      |
| <b>JNUM</b>    | JNum <sup>2</sup>  | 6     | Active JES2 job number                                                            |
| <b>OWNERID</b> | Owner              | 8     | User ID of owner                                                                  |
| <b>RECPRT</b>  | Proc-Lines         | 10    | Number of lines processed for the job                                             |
| <b>RECCNT</b>  | Tot-Lines          | 10    | Number of lines in the job                                                        |
| <b>LINELIM</b> | Line-Limit         | 21    | Selection line limit                                                              |
| <b>PAGELIM</b> | Page-Limit         | 21    | Selection page limit                                                              |

Table 270. Columns on the SO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                    |
|-----------------|-------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCLASS</b>   | SClass            | 15    | Selection classes. Multi-character classes and groups show as periods (.).                                                                                     |
| <b>SHOLD</b>    | SHold             | 5     | Selection hold value                                                                                                                                           |
| <b>SOWNER</b>   | SOwner            | 8     | Selection owner                                                                                                                                                |
| <b>SJOBNAME</b> | SJobName          | 8     | Selection job name                                                                                                                                             |
| <b>SRANGE</b>   | SRange            | 22    | Selection job number range                                                                                                                                     |
| <b>SDESTN1</b>  | SDest1            | 18    | Selection destination name                                                                                                                                     |
| <b>SSAFF</b>    | SSAff             | 5     | Selection system affinity                                                                                                                                      |
| <b>SDISP</b>    | SDisp             | 6     | Selection disposition                                                                                                                                          |
| <b>SVOL</b>     | SVol              | 6     | Selection volume                                                                                                                                               |
| <b>SBURST</b>   | SBurst            | 6     | Selection burst value                                                                                                                                          |
| <b>SFCBID</b>   | SFCB              | 4     | Selection FCB                                                                                                                                                  |
| <b>SFLASHID</b> | SFlh              | 4     | Selection flash                                                                                                                                                |
| <b>SODISP</b>   | SODsp             | 5     | Selection output disposition                                                                                                                                   |
| <b>SFORMS</b>   | SForms            | 8     | Selection forms name                                                                                                                                           |
| <b>SPRMODE1</b> | SPrMode           | 8     | Selection process mode                                                                                                                                         |
| <b>SWTRID</b>   | SWriter           | 8     | Selection writer name                                                                                                                                          |
| <b>SUCSID</b>   | SUCS              | 4     | Selection UCS                                                                                                                                                  |
| <b>PRTWS</b>    | Work-Selection    | 40    | Work selection criteria                                                                                                                                        |
| <b>NOTIFY</b>   | Notify            | 6     | Notification option                                                                                                                                            |
| <b>ODSNAME</b>  | DSName            | 44    | Data set name                                                                                                                                                  |
| <b>MBURST</b>   | MBurst            | 6     | Modification of the burst value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process              |
| <b>MDEST</b>    | MDest             | 18    | Modification of the destination value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process        |
| <b>MFCB</b>     | MFCB              | 4     | Modification of the FCB value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                |
| <b>MFLASH</b>   | MFlh              | 4     | Modification of the flash value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process              |
| <b>MFORMS</b>   | MForms            | 8     | Modification of the forms value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process              |
| <b>MODISP</b>   | MODsp             | 5     | Modification of the output disposition value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process |

Table 270. Columns on the SO Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                    |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MPRMODE</b>  | MPrMode           | 8     | Modification of the process mode value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                       |
| <b>MSCCLASS</b> | MClass            | 8     | Modification of the class value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                              |
| <b>MSAFF</b>    | MSAff             | 5     | Modification of the system affinity value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                    |
| <b>MUCS</b>     | MUCS              | 4     | Modification of the universal character set (UCS) name value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process |
| <b>MWRITER</b>  | MWriter           | 8     | Modification of the writer name value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                        |
| <b>MHOLD</b>    | MHold             | 5     | Modification of the hold value, for post-execution jobs and output data sets that are selected for reloading, assigned during the reload process                               |
| <b>SSRVCLS</b>  | SSrvClass         | 9     | Selection service class value for the job receiver or job transmitter                                                                                                          |
| <b>SSCHENV</b>  | SScheduling-Env   | 16    | Selection scheduling environment value for the job receiver or job transmitter                                                                                                 |
| <b>LABEL</b>    | Label             | 5     | Label                                                                                                                                                                          |
| <b>PROTECT</b>  | Prot              | 4     | Protect option                                                                                                                                                                 |
| <b>RETENT</b>   | RtPd              | 4     | Retention                                                                                                                                                                      |
| <b>ARCHIVE</b>  | Archive           | 7     | Archive option                                                                                                                                                                 |
| <b>VALIDAT</b>  | Validate          | 8     | Validation option                                                                                                                                                              |
| <b>UNIT</b>     | Unit              | 14    | Unit                                                                                                                                                                           |
| <b>VOLS</b>     | Vols              | 4     | Volume count (1-255) to be used for the offload data set                                                                                                                       |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                    |
| <b>DSYSID</b>   | SysID             | 5     | JES2 member name                                                                                                                                                               |
| <b>JESNAME</b>  | JESN              | 4     | JES2 subsystem name                                                                                                                                                            |
| <b>JESLEVEL</b> | JESLevel          | 8     | JES2 level                                                                                                                                                                     |
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device                                                                                                                                                   |
| <b>CRTIME</b>   | CRTIME            | 7     | Indicates whether to restore or reset the original creation time of the output.                                                                                                |
| <b>LINELIML</b> | Line-Lim-Lo       | 11    | Line limit, minimum                                                                                                                                                            |
| <b>LINELIMH</b> | Line-Lim-Hi       | 11    | Line limit, maximum                                                                                                                                                            |

Table 270. Columns on the SO Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAGELIML</b>  | Page-Lim-Lo       | 11    | Page limit, minimum                                                                                                                                                                   |
| <b>PAGELIMH</b>  | Page-Lim-Hi       | 11    | Page limit, maximum                                                                                                                                                                   |
| <b>SCLASS1-8</b> | SClass1-8         | 8     | Selection classes 1-8, including multi-character classes and groups (job transmitters and receivers)                                                                                  |
| <b>SODISP2</b>   | SODsp2            | 5     | Selection output disposition 2                                                                                                                                                        |
| <b>SODISP3</b>   | SODsp3            | 5     | Selection output disposition 3                                                                                                                                                        |
| <b>SODISP4</b>   | SODsp4            | 5     | Selection output disposition 4                                                                                                                                                        |
| <b>SFORM2</b>    | SForm2            | 8     | Selection forms name 2                                                                                                                                                                |
| <b>SFORM3</b>    | SForm3            | 8     | Selection forms name 3                                                                                                                                                                |
| <b>SFORM4</b>    | Selection Form 4  | 8     | Selection forms name 4                                                                                                                                                                |
| <b>SFORM5</b>    | SForm5            | 8     | Selection forms name 5                                                                                                                                                                |
| <b>SFORM6</b>    | SForm6            | 8     | Selection forms name 6                                                                                                                                                                |
| <b>SFORM7</b>    | SForm7            | 8     | Selection forms name 7                                                                                                                                                                |
| <b>SFORM8</b>    | SForm8            | 8     | Selection forms name 8                                                                                                                                                                |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

Notes on the table:

1. JType is not included in the default field list.
2. JNum is not included in the default field list.

## Spool Volumes panel (SP)

The Spool Volumes (SP) panel allows you to display information about JES spool volumes.

### Command

Access the Spool Volumes panel with the **SP** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```

SDSF SPOOL VOLUMES SYS1 39% ACT 16465 FRE 9922 LINE 1-20 (20)
 | | | | | |
 | System ID of | Active | Free | Lines |
 | system you | tracks | tracks | displayed
 | are logged | (groups| groups |
 | on to | for JES2) | for JES2) |
 | | | |
 | | Spool utilization | | Total lines

```

### SP command action characters

The action characters for the SP command are shown in [Table 271 on page 293](#).

Table 271. SP Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                      |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                     |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                  |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                   |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                         |
| =                | Repeat previous action character or overwrite.                                                                                                                                                                                                                                                                                                                                           |
| A                | Release the spool data set and all jobs that have data on spool for scheduling (JES3 only).                                                                                                                                                                                                                                                                                              |
| D                | Display the status of a spool volume.                                                                                                                                                                                                                                                                                                                                                    |
| DL               | Display the long form of status. For JES3, valid only for partitions.                                                                                                                                                                                                                                                                                                                    |
| H                | Hold the spool data set and further scheduling for jobs with data on the data set (JES3 only). You can add: <ul style="list-style-type: none"> <li>• C - Hold the spool data set and cancel all jobs using it (JES3 only).</li> <li>• P - Hold the spool data set and hold further scheduling of jobs with data on it. Cancel jobs active on the main and using the data set.</li> </ul> |
| J                | Display all jobs using the spool volume.                                                                                                                                                                                                                                                                                                                                                 |
| LH               | List resource history.                                                                                                                                                                                                                                                                                                                                                                   |
| LV               | List data sets on the spool volume.                                                                                                                                                                                                                                                                                                                                                      |
| LVT              | List VTOC for the spool volume.                                                                                                                                                                                                                                                                                                                                                          |
| P                | Drain a spool volume. You can add: <ul style="list-style-type: none"> <li>• C - Drain a spool volume and cancel all jobs that have used it (JES2 only).</li> </ul>                                                                                                                                                                                                                       |
| S                | Start a spool volume, adding or reactivating it to the spool configuration (JES2 only).                                                                                                                                                                                                                                                                                                  |
| U                | Resume allocating space on the spool data set (JES3 only).                                                                                                                                                                                                                                                                                                                               |
| Z                | Halt a spool volume, deallocating it after active work completes its current phase of processing (JES2 only).                                                                                                                                                                                                                                                                            |

### Columns on the SO panel

The columns on the SO panel are shown in [Table 272 on page 294](#).

Table 272. Columns on the SP Panel

| Column name     | Title (Displayed) | Width                       | Description                                                                                                         |
|-----------------|-------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>DEVNAME</b>  | NAME              | 6<br>(JES2)<br>8<br>(JES3)  | Spool volume name (JES2) or the ddname (JES3). This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>   | Status            | 8<br>(JES2)<br>12<br>(JES3) | Spool status (ACTIVE, STARTING, HALTHING, DRAINING, INACTIVE) or partition status                                   |
| <b>TGPCT</b>    | TGPct             | 5                           | Spool utilization                                                                                                   |
| <b>TGNUM</b>    | TGNum             | 5                           | Total track groups                                                                                                  |
| <b>TGUSE</b>    | TGUse             | 5                           | Track groups in use                                                                                                 |
| <b>COMMAND</b>  | Command           | 8                           | Command being processed (START, FORMAT, DRAIN, HALT) (JES2 only)                                                    |
| <b>SPSYSAF</b>  | SAff              | 5                           | System affinity (JES2 only)                                                                                         |
| <b>EXTENT</b>   | Ext               | 3                           | Extent number, in hexadecimal                                                                                       |
| <b>CYLLO</b>    | LoCyl             | 8                           | Low cylinder                                                                                                        |
| <b>TRKLO</b>    | LoTrk             | 16                          | Absolute low track number, in hexadecimal                                                                           |
| <b>HEADLO</b>   | LoHead            | 8                           | Low head                                                                                                            |
| <b>CYLHI</b>    | HiCyl             | 8                           | High cylinder                                                                                                       |
| <b>TRKHI</b>    | HiTrk             | 16                          | Absolute high track number, in hexadecimal                                                                          |
| <b>HEADHI</b>   | HiHead            | 8                           | High head                                                                                                           |
| <b>TCYL</b>     | TrkPerCyl         | 9                           | Tracks per cylinder                                                                                                 |
| <b>TREC</b>     | RecPerTrk         | 9                           | Records per track                                                                                                   |
| <b>TGTRK</b>    | TrkPerTG          | 8                           | Tracks per track group                                                                                              |
| <b>TYPE</b>     | Type              | 9                           | Spool type (PARTITION or EXTENT)                                                                                    |
| <b>PARTNAME</b> | PartName          | 8                           | Partition name (JES3 only)                                                                                          |
| <b>OVFNAME</b>  | OverFNam          | 8                           | Overflow partition name (JES3 only)                                                                                 |
| <b>OVALLOW</b>  | OverAllow         | 9                           | Indicates if overflow from this partition to another partition is allowed (JES3 only)                               |
| <b>OVOCCUR</b>  | OverOccur         | 9                           | Indicates if overflow from this partition to another partition occurred (JES3 only)                                 |
| <b>OVINTO</b>   | OverInto          | 3                           | Indicates if overflow into this partition from another partition is allowed (JES3 only)                             |
| <b>PTRACKS</b>  | PTracks           | 8                           | Total tracks in the partition                                                                                       |
| <b>PTRACKU</b>  | PTrackU           | 8                           | Tracks in use in the partition                                                                                      |
| <b>DTRACKS</b>  | DTracks           | 8                           | Total tracks in the data set                                                                                        |
| <b>DTRACKU</b>  | DTrackU           | 8                           | Tracks in use in the data set                                                                                       |



Table 272. Columns on the SP Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEFAULT</b>  | Default           | 7     | Default partition indicator (JES3 only)                                                                                                                                               |
| <b>STUNTED</b>  | Stunted           | 7     | Extent is stunted (JES2 only)                                                                                                                                                         |
| <b>STT</b>      | STT               | 3     | Single track table indicator (JES3 only)                                                                                                                                              |
| <b>MARGPCT</b>  | MargPct           | 7     | Marginal SLIM threshold percentage – shown only on the row for the partition (JES3 only)                                                                                              |
| <b>MARGEXC</b>  | MargExc           | 7     | Marginal threshold exceeded (JES3 only)                                                                                                                                               |
| <b>MINPCT</b>   | MinPct            | 6     | Minimal SLIM threshold percentage (JES3 only)                                                                                                                                         |
| <b>MINEXC</b>   | MinExc            | 3     | Marginal threshold exceeded (JES3 only)                                                                                                                                               |
| <b>DATASET</b>  | DataSetName       | 44    | Data set name                                                                                                                                                                         |
| <b>VOLSER</b>   | VolSer            | 6     | Actual volume serial upon which this spool extent resides (JES2 only)                                                                                                                 |
| <b>SELECT</b>   | Sel               | 3     | Indicates if work is selectable on this volume (JES2 only)                                                                                                                            |
| <b>RESERVED</b> | Res               | 3     | Indicates whether this volume is reserved (active but not allocatable) (JES2 only)                                                                                                    |
| <b>LGFREE</b>   | LgFree            | 6     | Largest number of contiguous free tracks (JES2 only)                                                                                                                                  |
| <b>HIGHTRK</b>  | HiUsed            | 6     | Highest used track on the volume (JES2 only)                                                                                                                                          |
| <b>COMPPCT</b>  | Comp%             | 5     | Percentage complete of the current action against the volume (JES2 only)                                                                                                              |
| <b>PHASE</b>    | Phase             | 12    | Migration phase (JES2 only)                                                                                                                                                           |
| <b>MIGSYS</b>   | MigSys            | 6     | JES2 member performing the spool migration (JES2 only)                                                                                                                                |
| <b>TARGET</b>   | Target            | 8     | Volume name in JES2 where this extent is migrating to or has migrated to (JES2 only)                                                                                                  |
| <b>MIGVOL</b>   | MigVol            | 6     | Volume to which this extent is migrating (JES2 only)                                                                                                                                  |
| <b>MIGDSN</b>   | MigDSName         | 44    | Data set name to which this extent is migrating (JES2 only)                                                                                                                           |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## System Requests panel (SR)

The System Requests (SR) panel allows you to display information about reply and action messages.

### Command

Access the System Request panel with the **SR** command from any SDSF panel.

If AMRF is not active, the panel shows only reply messages. This is controlled by the AMRF parameter in PARMLIB member CONSOLxx.

## Parameters

The parameters shown in Table 273 on page 296 allow you to customize the SR display.

The parameter usage is as follows:

SR (parameters)

SR with no parameters displays all reply and action messages. This is the default.

Consider the following example:

- **SR M** - Displays only messages with a tape or DASD pool routing code.

| Parameter        | Description                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------|
| ALL              | Displays all reply and action messages. This is the default.                                                             |
| ACTIONS   A      | Displays action messages.                                                                                                |
| CEM              | Displays critical eventual action messages.                                                                              |
| EM               | Displays eventual action messages.                                                                                       |
| IM               | Displays immediate action messages.                                                                                      |
| MOUNTS   M       | Displays DASD and tape mount messages. SDSF considers a message to be a mount if it has tape or DASD pool routing codes. |
| REPLIES   R   RM | Displays reply messages.                                                                                                 |

### Panel title information

The title line contains the following information:

|      |                                                                                                 |      |      |        |       |                 |
|------|-------------------------------------------------------------------------------------------------|------|------|--------|-------|-----------------|
| SDSF | SYSTEM REQUESTS                                                                                 | RM 4 | IM 1 | CEM 10 | EM 50 | LINE 1-19 (65)  |
|      | Counts of reply, immediate action,<br>critical eventual action, and<br>eventual action messages |      |      |        |       | Lines displayed |
|      |                                                                                                 |      |      |        |       | Total lines     |

## SR command action characters

The action characters for the SR command are shown in Table 274 on page 296.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |

| Table 274. SR Command Action Characters (continued) |                                                                                            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|
| Action Character                                    | Description                                                                                |
| %(exec)                                             | Run a REXX exec.                                                                           |
| =                                                   | Repeat previous action character or overtype.                                              |
| AI                                                  | Ignore auto reply for the message.                                                         |
| C                                                   | Remove an action message.                                                                  |
| D                                                   | Display a message in the logs or ULOG.                                                     |
| R(command)                                          | Reply to the message. R by itself displays a pop-up on which you can complete the command. |

### Columns on the SR panel

The columns on the SR panel are shown in [Table 275 on page 297](#).

Table 275. Columns on the SR Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPLYID</b>   | REPLYID           | 7     | Reply ID. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                        |
| <b>SYSNAME</b>   | SysName           | 8     | Originating system name                                                                                                                                                               |
| <b>JNAME</b>     | JobName           | 8     | Name of the issuing job                                                                                                                                                               |
| <b>MSGTEXT</b>   | Message-Text      | 127   | Message text                                                                                                                                                                          |
| <b>JOBID</b>     | JobID             | 8     | ID of the issuing job                                                                                                                                                                 |
| <b>DATEE</b>     | Date              | 10    | Date the message was issued                                                                                                                                                           |
| <b>TIMEE</b>     | Time              | 8     | Time the message was issued                                                                                                                                                           |
| <b>CONSOLE</b>   | Console           | 8     | Target console                                                                                                                                                                        |
| <b>ROUTECD</b>   | RouteCd           | 7     | First 28 routing codes                                                                                                                                                                |
| <b>DESC</b>      | Desc              | 4     | Descriptor codes                                                                                                                                                                      |
| <b>MSGTYPE</b>   | Type              | 6     | Message type                                                                                                                                                                          |
| <b>QUEUE</b>     | Queue             | 5     | Queue the message is on                                                                                                                                                               |
| <b>AUTOREPLY</b> | AutoReply         | 9     | Automatic reply indicator                                                                                                                                                             |
| <b>AUTODELAY</b> | AutoRDelay        | 10    | Message delay time until the automatic reply is done, in seconds                                                                                                                      |
| <b>AUTOTIME</b>  | AutoReplyTime     | 19    | Date and time when auto reply will be done                                                                                                                                            |
| <b>AUTOTEXT</b>  | AutoReplyText     | 16    | Automatic reply text                                                                                                                                                                  |
| <b>ELAPSED</b>   | Elapsed           | 12    | The elapsed time since the system request was issued in ddd:hh:mm:ss format                                                                                                           |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# WLM Service Classes panel (SRVC)

The WLM service classes (SRVC) panel shows details about all service classes defined in the current WLM policy.

Rows for service classes with an importance level greater than zero are highlighted.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the service class name.

## Command

Access the panel with the **SRVC** command.

## Panel title information

The title line contains the following information:

SDSF WLM SERVICE CLASSES

SYS1

POLICY01

LINE 1-19 (26)

System you are  
logged on to

WLM policy in effect

Total lines

Lines displayed

## SRVC command action characters

The action characters for the SRVC command are shown in [Table 276 on page 298](#).

| Table 276. SRVC Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| L                                         | List address spaces assigned to this WLM class or group.                                            |
| LE                                        | List enclaves.                                                                                      |

## Columns on the SRVC panel

The columns on the SRVC panel are shown in [Table 277 on page 298](#).

| Table 277. Columns on the WLM Service Classes Panel |                   |       |                                                                                          |
|-----------------------------------------------------|-------------------|-------|------------------------------------------------------------------------------------------|
| Column name                                         | Title (Displayed) | Width | Description                                                                              |
| NAME                                                | NAME              | 8     | Service class name. This is the fixed field. It is ignored if coded on an FLD statement. |

Table 277. Columns on the WLM Service Classes Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RESGROUP</b>   | ResGroup          | 8     | Resource group                                                                                                                                                                        |
| <b>PERIOD</b>     | Per               | 3     | Period number                                                                                                                                                                         |
| <b>DESC</b>       | Description       | 32    | Service class description                                                                                                                                                             |
| <b>DURATION</b>   | Duration          | 8     | Period duration in service units or zero for last period                                                                                                                              |
| <b>IMPORTANCE</b> | Imp               | 3     | Importance level in range 1 (most important) to 5                                                                                                                                     |
| <b>CPUCRIT</b>    | CPUCrit           | 7     | CPU critical indicator (YES or NO)                                                                                                                                                    |
| <b>STORPROT</b>   | StorProt          | 8     | Storage protection indicator (YES or NO)                                                                                                                                              |
| <b>IOPRIO</b>     | IOPrio            | 7     | I/O priority group (NORMAL or HIGH)                                                                                                                                                   |
| <b>HONORPRIO</b>  | HonorPrio         | 9     | Honor priority (DEFAULT or NO)                                                                                                                                                        |
| <b>MAXPERIOD</b>  | MaxPer            | 6     | Maximum number of periods                                                                                                                                                             |
| <b>WORKLOAD</b>   | WorkLoad          | 8     | Workload name                                                                                                                                                                         |
| <b>GOAL</b>       | Goal              | 40    | Service class goal                                                                                                                                                                    |
| <b>TRANSS</b>     | TranSSUse         | 9     | Used by any transaction subsystem type (YES or NO)                                                                                                                                    |
| <b>ASIDSS</b>     | AddrSpcSSUse      | 12    | Used by any address space subsystem type (YES or NO)                                                                                                                                  |
| <b>ENCSS</b>      | EncSSUse          | 8     | Used by any enclave subsystem type (YES or NO)                                                                                                                                        |
| <b>SYSH</b>       | SysHUse           | 7     | Used in non-MVS logical partitions (YES or NO)                                                                                                                                        |
| <b>CRUSER</b>     | CrUser            | 8     | User ID creating service class definition                                                                                                                                             |
| <b>CRDATE</b>     | CrDate            | 19    | Timestamp when service class definition created                                                                                                                                       |
| <b>UPDUSER</b>    | UpdUser           | 8     | User ID last updating service class definition                                                                                                                                        |
| <b>UPDDATE</b>    | UpdDate           | 19    | Timestamp when service class definition last updated                                                                                                                                  |
| <b>POLNAME</b>    | Policy            | 8     | Policy name in effect                                                                                                                                                                 |
| <b>POLDESC</b>    | PolicyDescription | 32    | Policy description                                                                                                                                                                    |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Subsystem panel (SSI)

The Subsystem (SSI) panel allows you to display the subsystems defined to the system. Both dynamic and non-dynamic subsystems are shown.

### Command

Access the SSI panel with the **SSI** command from any SDSF panel.

### Panel title information

The title line contains the following information:



## SSI command action characters

The action characters for the SSI command are shown in [Table 278 on page 300](#).

| Table 278. SSI Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overwrite.                                                      |
| A                                        | Activate subsystem.                                                                                 |
| D                                        | Display information.                                                                                |
| DA                                       | Display information about all subsystems.                                                           |
| DO                                       | Display operator information.                                                                       |
| H                                        | Deactivate subsystem.                                                                               |
| I                                        | Display subsystem version information. Valid only if the subsystem responds to Type 54 calls.       |
| PF                                       | Delete subsystem (force).                                                                           |

## Columns on the SSI panel

The columns on the SSI panel are shown in [Table 279 on page 300](#).

| Table 279. Columns on the SSI Panel |                   |       |                                                                                      |
|-------------------------------------|-------------------|-------|--------------------------------------------------------------------------------------|
| Column name                         | Title (Displayed) | Width | Description                                                                          |
| <b>NAME</b>                         | NAME              | 4     | Subsystem name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>NAMEX</b>                        | NameX             | 8     | Subsystem name in hexadecimal                                                        |
| <b>TYPE</b>                         | Type              | 8     | Subsystem type (JES2 or JES3)                                                        |
| <b>STATUS</b>                       | Status            | 8     | Subsystem status (ACTIVE or INACTIVE)                                                |
| <b>PRIMARY</b>                      | Primary           | 7     | Primary subsystem (YES or NO)                                                        |
| <b>DYNAMIC</b>                      | Dynamic           | 7     | Dynamic subsystem (YES or NO)                                                        |

Table 279. Columns on the SSI Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SETSSI</b>   | SetSSI            | 6     | Subsystem responds to SETSSI (YES or NO)                                                                                                                                              |
| <b>EVENTRTN</b> | EventRtn          | 8     | Event routine indicator (YES or NO)                                                                                                                                                   |
| <b>SSCT</b>     | SSCT              | 8     | Address of subsystem control table (SSCT)                                                                                                                                             |
| <b>SSCTSUSE</b> | SSCTSUSE          | 8     | Contents of SSCTSUSE field                                                                                                                                                            |
| <b>SSCTSUS2</b> | SSCTSUS2          | 8     | Contents of SSCTSUS2 field                                                                                                                                                            |
| <b>SSVT</b>     | SSVT              | 8     | Address of subsystem vector table (SSVT)                                                                                                                                              |
| <b>FC04</b>     | FC04              | 4     | Function code 04 active (YES or NO)                                                                                                                                                   |
| <b>FC08</b>     | FC08              | 4     | Function code 08 active (YES or NO)                                                                                                                                                   |
| <b>FC09</b>     | FC09              | 4     | Function code 09 active (YES or NO)                                                                                                                                                   |
| <b>FC10</b>     | FC10              | 4     | Function code 10 active (YES or NO)                                                                                                                                                   |
| <b>FC14</b>     | FC14              | 4     | Function code 14 active (YES or NO)                                                                                                                                                   |
| <b>FC50</b>     | FC50              | 4     | Function code 50 active (YES or NO)                                                                                                                                                   |
| <b>FC54</b>     | FC54              | 4     | Function code 54 active (YES or NO)                                                                                                                                                   |
| <b>FC58</b>     | FC58              | 8     | Function code 58 active (YES or NO)                                                                                                                                                   |
| <b>FC78</b>     | FC78              | 8     | Function code 78 active (YES or NO)                                                                                                                                                   |
| <b>SEQ</b>      | Seq               | 3     | Sequence number                                                                                                                                                                       |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Status panel (ST)

The Status panel allows you to display information about jobs, started tasks, and TSO users on the JES queues.

### Command

Access the Status panel with the **ST** command from any SDSF panel.

### Parameters

The parameters shown in [Table 280 on page 302](#) allow you to customize the ST display.

The parameter usage is as follows:

```
ST (classes) (string)
```

ST with no parameters displays all jobs. The information displayed may be limited by your authorization and by settings for SDSF filters such as FILTER and PREFIX.

Consider the following examples:

- **STabc** - Displays all jobs in classes A, B, and C.
- **ST j b\*** - Displays all jobs whose names begin with jb.

| Table 280. ST Parameters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>classes</i>           | <p>Limits the job classes. For JES2, type up to 6 one-character classes. For jobs in execution, use A-Z or 0-9. For JES3, type one class, up to 6 characters. For more complex filters, use the FILTER command. You can use the following special characters:</p> <ul style="list-style-type: none"> <li>• * - Converter queue.</li> <li>• # - Started tasks in execution.</li> <li>• + - Output queue.</li> <li>• ? - Purge queue.</li> <li>• = - Spin queue.</li> <li>• @ - Jobs waiting to be transmitted to another queue.</li> <li>• \$ - TSO users in execution.</li> <li>• ! - Hard-copy queue.</li> <li>• - - Input queue.</li> <li>• ) - Receiver queue.</li> <li>• / - Setup queue.</li> </ul> |
| <i>string</i>            | <p>A character string that limits the panel to jobs whose names match the character string. The string can be up to 8 characters, including:</p> <ul style="list-style-type: none"> <li>• * - To represent any character or string of characters.</li> <li>• % - To represent any single character.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           |

## Panel title information

The title line contains the following information:

**SDSF STATUS DISPLAY ALL CLASSES**

Class or classes  
being displayed

**LINE 1-19 (1301)**

Total lines  
(\*\*\*\* if  
more than  
99,999,999)

Lines displayed  
or first line  
if 100,000 or more

## ST command action characters

The action characters for the ST command are shown in [Table 281 on page 303](#).



Table 281. ST Command Action Characters

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                       |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                      |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                   |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                    |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ?                | Display a list of the data sets for a job. (Access the Job Data Set panel.)                                                                                                                                                                                                                                                                                                                                                               |
| =                | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                             |
| A                | Release a held job.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C                | <p>Cancel a job. For JES3, also process output data sets. You can add:</p> <ul style="list-style-type: none"> <li>• A - Job that is defined to Automatic Restart Manager (ARM).</li> <li>• D - And take a dump.</li> <li>• DA - Job that is defined to ARM, and take a dump.</li> <li>• DP - And take a dump but do not purge the job's output (JES3 only).</li> <li>• P - And print data sets ready for printing (JES3 only).</li> </ul> |

Table 281. ST Command Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                | <p>Display job information in the log. You can add:</p> <ul style="list-style-type: none"> <li>• E - Line, page, record, and card counts (JES3 only).</li> <li>• L - Long form (JES2 only).</li> <li>• M - Mains on which the job is eligible to run (JES3 only).</li> <li>• MA - MDS allocate queue information (JES3 only).</li> <li>• ME - MDS error queue information (JES3 only).</li> <li>• MR - MDS restart queue information (JES3 only).</li> <li>• MSS - MDS system select queue information (JES3 only).</li> <li>• MSV - MDS system verify queue information (JES3 only).</li> <li>• MU - MDS unavailable volumes information (JES3 only).</li> <li>• P - Dependencies.</li> <li>• SD - DDNAMEs of all spool data sets that contain data (JES3 only).</li> <li>• SH - DDNAMEs of data sets in spool hold status that contain data (JES3 only).</li> <li>• SP - Spool partition name (JES3 only).</li> <li>• X - Extended (JES3 only).</li> </ul> |
| E                | <p>Process a job again. You can add (JES2 only):</p> <ul style="list-style-type: none"> <li>• C - Cancel and hold the job prior to execution.</li> <li>• S - After the current step completes.</li> <li>• SH - After the current step completes, restart and hold.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H                | Hold a job.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| I                | Display job delay information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| J                | Start a job immediately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| JD               | Display the job's use of devices (access the Job Device panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| JDD              | Display the job ddnames (access the Job DDName panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| JM               | Display the job's use of memory (access the Job Memory panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| JP               | Display the job's dependencies (access the Job Dependency panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| JRL              | Display resource limits for a job (access the Job Resource Limit panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| <i>Table 281. ST Command Action Characters (continued)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| JS                                                         | Display job steps for a job (access the Job Step panel).                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| L                                                          | List output status of a job in the log. For JES3, this is job output in the writer queue. You can add: <ul style="list-style-type: none"> <li>• B - SNA/NJE output (JES3 only).</li> <li>• H - Output on the hold queue (JES3 only).</li> <li>• L - Long form (JES2 only).</li> <li>• T - TCP/IP job output (JES3 only).</li> </ul>                                                                                                                                                                                   |
| O                                                          | Release held output for printing (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| P                                                          | Cancel a job and purge its output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PO                                                         | Purge output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PP                                                         | Cancel a protected job and purge its output (JES2 only).                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| S                                                          | Display the data sets associated with the job. You can add: <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the job starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| SA                                                         | Allocate data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SJA                                                        | Allocate job JCL data set (REXX only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| W                                                          | Cause job and message logs to spin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| X                                                          | Print output data sets. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC).</li> <li>• D - Display the Open Print Data Set panel (XD or XDC).</li> <li>• F - Display the Open Print File panel (XF or XFC).</li> <li>• S - Display the Open Print panel (XS or XSC).</li> </ul>                                                                                                                                                                                       |

### Columns on the ST panel

The columns on the ST panel are shown in [Table 282 on page 305](#).

*Table 282. Columns on the ST Panel*

| Column name  | Title (Displayed) | Width | Description                                                                    | Delay |
|--------------|-------------------|-------|--------------------------------------------------------------------------------|-------|
| <b>JNAME</b> | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement. |       |

Table 282. Columns on the ST Panel (continued)

| Column name     | Title (Displayed) | Width                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                               | Delay |
|-----------------|-------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>JNUM</b>     | JNum <sup>1</sup> | 6                    | JES job number                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
| <b>JOBID</b>    | JobID             | 8                    | JES job ID                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| <b>OWNERID</b>  | Owner             | 8                    | User ID of job owner, or default values of ++<br>++++++ or ???????, if user ID not defined to<br>RACF                                                                                                                                                                                                                                                                                                                                                     |       |
| <b>JPRIO</b>    | Prty              | 4                    | JES job queue priority                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| <b>QUEUE</b>    | Queue             | 10                   | JES queue name for job                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| <b>JCLASS</b>   | C                 | 8                    | JES input class                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
| <b>POS</b>      | Pos               | 5                    | Position in JES queue. The value in the<br>POS column includes jobs that are held or<br>duplicate. SDSF does not show a value for<br>active jobs.                                                                                                                                                                                                                                                                                                         |       |
| <b>SYSAFF</b>   | SAff              | 5 (JES2)<br>8 (JES3) | JES execution system affinity (if any)                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| <b>ACTSYS</b>   | ASys              | 4 (JES2)<br>8 (JES3) | JES active system ID (if job active)                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
| <b>STATUS</b>   | Status            | 17                   | Status of job                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |
| <b>PRTDEST</b>  | PrtDest           | 18                   | JES print destination name                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| <b>SECLABEL</b> | SecLabel          | 8                    | Security label of job                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
| <b>TGNUM</b>    | TGNum             | 5                    | Track groups used by a job                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| <b>TGPCT</b>    | TGPct             | 6                    | Percentage of total track group usage                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
| <b>ORIGNODE</b> | OrigNode          | 8                    | Origin node name                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
| <b>EXECNODE</b> | ExecNode          | 8                    | Execution node name                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |
| <b>DEVID</b>    | Device            | 18                   | JES device name                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
| <b>RETCODE</b>  | Max-RC            | 10                   | Return code information for the job.<br><br><ul style="list-style-type: none"> <li>• blank - No completion information</li> <li>• ABENDUxxxx - Job abended or ABEND Sxxx</li> <li>• CANCELED - Job canceled</li> <li>• CC xxxx - Job ended normally</li> <li>• CC xxxx - Job ended by CC</li> <li>• CONV ABEND - Converter abended</li> <li>• JCL ERROR - JCL error</li> <li>• SEC ERROR - Security error</li> <li>• SYS FAIL - System failure</li> </ul> |       |
| <b>SRVCLS</b>   | SrvClass          | 8                    | Service class (only populated for batch jobs)                                                                                                                                                                                                                                                                                                                                                                                                             |       |
| <b>WLMPOS</b>   | WPos              | 5                    | Position on the WLM queue                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| <b>SCHENV</b>   | Scheduling-Env    | 16                   | Scheduling environment for the job                                                                                                                                                                                                                                                                                                                                                                                                                        |       |

Table 282. Columns on the ST Panel (continued)

| Column name      | Title (Displayed) | Width                | Description                                                                                            | Delay          |
|------------------|-------------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------|
| <b>DELAY</b>     | Dly               | 3                    | Indicator that job processing is delayed <sup>2</sup>                                                  |                |
| <b>SSMODE</b>    | Mode              | 4                    | Subsystem managing the job (JES or WLM)                                                                |                |
| <b>ROOMN</b>     | RNum              | 8                    | JES job room number                                                                                    | X              |
| <b>PNAME</b>     | Programmer-Name   | 20                   | JES programmer name                                                                                    | X <sup>4</sup> |
| <b>ACCTN</b>     | Acct              | 4 (JES2)<br>8 (JES3) | JES account number                                                                                     | X              |
| <b>NOTIFY</b>    | Notify            | 8                    | TSO user ID from NOTIFY parameter on job card                                                          | X              |
| <b>ISYSID</b>    | ISys              | 4 (JES2)<br>8 (JES3) | JES input system ID                                                                                    | X              |
| <b>TIMER</b>     | Rd-Time           | 8                    | Time that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>DATER</b>     | Rd-Date           | 8                    | Date that the job was read in. In the SDSF task of z/OSMF, this is replaced by the Rd-DateTime column. | X              |
| <b>ESYSID</b>    | ESys              | 4 (JES2)<br>8 (JES3) | JES execution system ID                                                                                | X              |
| <b>TIMEE</b>     | St-Time           | 8                    | Time that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>DATEE</b>     | St-Date           | 8                    | Date that execution began. In the SDSF task of z/OSMF, this is replaced by the St-DateTime column.     | JES3 only      |
| <b>TIMEN</b>     | End-Time          | 8                    | Time that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.    | X              |
| <b>DATEN</b>     | End-Date          | 8                    | Date that execution ended. In the SDSF task of z/OSMF, this is replaced by the End-DateTime column.    | X              |
| <b>ICARDS</b>    | Cards             | 5                    | Number of cards read for job                                                                           | X              |
| <b>MCLASS</b>    | MC                | 2                    | MSGCLASS of job                                                                                        | X              |
| <b>TSREC</b>     | Tot-Lines         | 10                   | Total number of spool records for job                                                                  | X              |
| <b>OFFDEVS</b>   | Offs              | 4                    | List of offload devices for a job or output that has been offloaded (JES2 only)                        |                |
| <b>SPIN</b>      | Spin              | 4                    | Indicator of whether the job is eligible to be spun                                                    |                |
| <b>SUBGROUP</b>  | SubGroup          | 8                    | Submitter group                                                                                        | X <sup>4</sup> |
| <b>PHASENAME</b> | PhaseName         | 20                   | Name of the phase the job is in                                                                        |                |

Table 282. Columns on the ST Panel (continued)

| Column name      | Title (Displayed)     | Width | Description                                                                                                                                                         | Delay          |
|------------------|-----------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>PHASE</b>     | Phase                 | 8     | Number of the phase the job is in                                                                                                                                   |                |
| <b>JTYPE</b>     | Type                  | 4     | Type of address space                                                                                                                                               |                |
| <b>JOBACCT1</b>  | JobAcct1 <sup>1</sup> | 20    | Job accounting field 1                                                                                                                                              | X              |
| <b>JOBACCT2</b>  | JobAcct2 <sup>1</sup> | 20    | Job accounting field 2                                                                                                                                              | X              |
| <b>JOBACCT3</b>  | JobAcct3 <sup>1</sup> | 20    | Job accounting field 3                                                                                                                                              | X              |
| <b>JOBACCT4</b>  | JobAcct4 <sup>1</sup> | 20    | Job accounting field 4                                                                                                                                              | X              |
| <b>JOBACCT5</b>  | JobAcct5 <sup>1</sup> | 20    | Job accounting field 5                                                                                                                                              | X              |
| <b>SUBUSER</b>   | SubUser               | 8     | Submitting user ID                                                                                                                                                  | X <sup>4</sup> |
| <b>DELAYRSN</b>  | DelayRsn              | 32    | Reason for the job delay (JES2 only) <sup>3</sup> . The width can be expanded to 127.                                                                               |                |
| <b>JOBCORR</b>   | JobCorrelator         | 32    | User portion of the job correlator (JES2 only)                                                                                                                      |                |
| <b>ASID</b>      | ASID                  | 5     | ASID of the active job                                                                                                                                              |                |
| <b>ASIDX</b>     | ASIDX                 | 5     | ASID of the active job, in hexadecimal                                                                                                                              |                |
| <b>SYSNAME</b>   | SysName               | 8     | MVS system name where the job is executing                                                                                                                          |                |
| <b>DATETIMER</b> | Rd-DateTime           | 19    | Date and time that the job was read in. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the Rd-Date and Rd-Time columns. | X              |
| <b>DATETIMEE</b> | St-DateTime           | 19    | Date and time that execution began. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the St-Date and St-Time columns.     | X              |
| <b>DATETIMEN</b> | End-DateTime          | 19    | Date and time that execution ended. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the End-Date and End-Time columns.   | X              |
| <b>JOBGROUP</b>  | JobGroup              | 8     | Name of the job group associated with job (JES2 only)                                                                                                               |                |
| <b>JOBGRPID</b>  | JobGrpID              | 8     | JES2 job group job ID (JES2 only)                                                                                                                                   |                |
| <b>JOBSET</b>    | JobSet                | 8     | Job set within the job group to which this job belongs (JES2 only)                                                                                                  |                |
| <b>JGSTATUS</b>  | JGStatus              | 8     | Status of the job within the dependency network (JES2 only)                                                                                                         |                |
| <b>FLUSHACT</b>  | FlushAct              | 8     | Flush action indicator (JES2 only)                                                                                                                                  |                |
| <b>HOLDUNTIL</b> | HoldUntil             | 19    | HOLDUNTIL date and time (JES2 only)                                                                                                                                 |                |
| <b>STARTBY</b>   | StartBy               | 19    | STARTBY date and time (JES2 only)                                                                                                                                   |                |
| <b>WITH</b>      | With                  | 19    | Name of the job or started task that the job must run with (on the same system) (JES2 only)                                                                         |                |
| <b>EMAIL</b>     | EMail                 | 48    | Email address (JES2 only)                                                                                                                                           | X              |

Table 282. Columns on the ST Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                                                               | Delay |
|-------------------|-------------------|-------|-------------------------------------------------------------------------------------------|-------|
| <b>BEFOREJOB</b>  | BeforeJob         | 9     | Name of job that must run before this one (JES2 only)                                     |       |
| <b>BEFOREJID</b>  | BeforeJID         | 4     | JobID of job that must run before this one (JES2 only)                                    |       |
| <b>AFTERJOB</b>   | AfterJob          | 8     | Name of job that must run after this one (JES2 only)                                      |       |
| <b>AFTERJID</b>   | AfterJID          | 8     | JobID of job that must run after this one (JES2 only)                                     |       |
| <b>SCHDELAY</b>   | SchDelay          | 8     | Job delayed due to schedule hold or after (JES2 only)                                     |       |
| <b>BERTNUM</b>    | BERTNum           | 7     | Number of BERTs used by this job (JES2 only)                                              |       |
| <b>JOENUM</b>     | JOENum            | 6     | Number of JOEs used by this job (JES2 only)                                               |       |
| <b>JOEBERTNUM</b> | JOEBERTs          | 7     | Number of BERTs used for this job's JOEs (JES2 only)                                      |       |
| <b>DUBIOUS</b>    | Dubious           | 7     | NJE job flagged as dubious (YES or NO)                                                    |       |
| <b>NETONHOLD</b>  | OrigNHold         | 9     | Original number of job completions before this job can be released (JES2 only)            |       |
| <b>NETCNHOLD</b>  | CurrNHold         | 9     | Current number of job completions before this job can be released (JES2 only)             |       |
| <b>NETNORM</b>    | Normal            | 6     | Action to be taken when any predecessor job completes normally (D, F, or R) (JES2 only)   |       |
| <b>NETABNORM</b>  | Abnormal          | 6     | Action to be taken when any predecessor job completes abnormally (D, F, or R) (JES2 only) |       |
| <b>NETNRCMP</b>   | NrCmp             | 5     | Network job normal completion (HOLD, NOHO, or FLSH) (JES2 only)                           |       |
| <b>NETABCMP</b>   | AbCmp             | 5     | Network job abnormal completion (NOKP or KEEP) (JES2 only)                                |       |
| <b>NETOPHOLD</b>  | OpHold            | 6     | Operator hold (YES or NO) (JES2 only)                                                     |       |
| <b>JOBCRDATE</b>  | JobCrDate         | 19    | Job creation date (JES2 only).                                                            |       |
| <b>RESGROUP</b>   | ResGroup          | 8     | Resource group                                                                            |       |
| <b>MAXCC</b>      | Max-CC            | 6     | Maximum condition code                                                                    |       |
| <b>JESCANCEL</b>  | JESCancel         | 10    | JES cancel option (allowed or restricted)                                                 |       |
| <b>LIMIMPACT</b>  | LimitsImpact      | 12    | Impacted by resource limit action (YES or NO)                                             |       |
| <b>LIMRAISED</b>  | LimitsRaised      | 12    | Target of raise limits (YES or NO)                                                        |       |
| <b>ARRTIME</b>    | Arrival-DateTime  | 19    | Arrival time when job first placed on current queue and not held                          |       |
| <b>CQTIME</b>     | CurrQ-DateTime    | 19    | Time job arrived on current queue                                                         |       |
| <b>XEQSTIME</b>   | XeqSt-DateTime    | 19    | Execution start time (requires JES2 checkpoint activation level z32)                      |       |

Table 282. Columns on the ST Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           | Delay |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>XEQETIME</b> | XeqEnd-DateTime   | 19    | Execution end time (requires JES2 checkpoint activation level z32)                                                                                                                    |       |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |       |

Notes on the table:

1. This column is not included in the default field list.
2. See the description of the \$D J command in JES2 Commands at [z/OS JES2 Commands](#).
3. The DelayRsn values are provided by the MVS Subsystem Interface. See [z/OS MVS Using the Subsystem Interface](#).
4. Delayed except when JES is running the z32 activation level.

### Scaling of data

When a value is too large to fit in the available space SDSF scales the value using these abbreviations:

| Table 283. Scaling of data |                                                           |
|----------------------------|-----------------------------------------------------------|
| Value                      | Description                                               |
| K                          | Kilo (hexadecimal scaling)                                |
| T                          | Thousands (decimal scaling) or Tera (hexadecimal scaling) |
| M                          | Millions (decimal scaling) or Mega (hexadecimal scaling)  |
| B                          | Billions (decimal scaling)                                |
| G                          | Giga (hexadecimal scaling)                                |
| P                          | Peta (hexadecimal scaling)                                |
| KB                         | Kilobytes                                                 |
| MB                         | Megabytes                                                 |
| GB                         | Gigabytes                                                 |
| TB                         | Terabytes                                                 |
| PB                         | Petabytes                                                 |

Changing the width of the column, with the ARRANGE command, affects the scaling. When filtering on columns that use binary abbreviations (KB, MB, and so forth) you can enter either a number or a number with the abbreviation. For example, 4096 and 4KB are both valid with entering a filter. However, SDSF always displays the value as 4KB.

### Values for the PhaseName and Queue Columns

The values for the PhaseName column are described in the following table. The table also shows the corresponding value in the Queue column.



Table 284. Values for the PhaseName and Queue Column

| Phase                | Description                                                         | Queue             |
|----------------------|---------------------------------------------------------------------|-------------------|
| ACTIVE CI FSS        | Active in conversion/<br>interpretation in the FSS address<br>space | CONVERSION (JES3) |
| AWAIT CONV           | Awaiting conversion                                                 | CONVERSION        |
| AWAIT MAIN SELECT    | Awaiting selection on main                                          | EXECUTION         |
| AWAIT POSTSCAN BATCH | Awaiting postscan (batch)                                           | CONVERSION (JES3) |
| AWAIT PSTSCAN DEMSEL | Awaiting postscan (demand<br>select)                                | CONVERSION (JES3) |
| AWAIT RES ALLOC      | Awaiting resource allocation                                        | SETUP (JES3)      |
| AWAIT START SETUP    | Awaiting start setup                                                | SETUP             |
| AWAITING DEMSEL      | Awaiting selection on main                                          | EXECUTION (JES3)  |
| AWAITING ENDING FUNC | Ending function request waiting<br>for I/O completion               | EXECUTION (JES3)  |
| AWAITING OUTPUT      | Awaiting output service                                             | PRINT             |
| AWAITING OUTPUT      | Awaiting output                                                     | OUTPUT            |
| AWAITING OUTPUT WTR  | Awaiting output service writer                                      | PRINT (JES3)      |
| AWAITING PURGE       | Awaiting purge                                                      | PURGE             |
| AWAITING RSVD SERV   | Awaiting RSVD services                                              | UNKNOWN           |
| AWAITING XMIT        | Awaiting NJE transmission                                           | XMITTER           |
| COMPLETE             | Main and MDS processing<br>complete                                 | EXECUTION (JES3)  |
| CONVERSION           | Active in conversion                                                | CONVERSION        |
| ENDING FUNC BAD      | Ending function request not<br>processed                            | EXECUTION (JES3)  |
| EXECUTING            | Scheduled on main                                                   | EXECUTION         |
| INPUT                | Active in input processing                                          | INPUT             |
| MAX RQ               | Maximum request index value                                         | UNKNOWN           |
| MDS ERROR            | Error during MDS processing                                         | EXECUTION         |
| MDS RESTART          | Awaiting MDS restart processing                                     | SETUP (JES3)      |
| MDS SELECT           | Awaiting/active in MDS system<br>select processing                  | SETUP (JES3)      |
| MDS VERIFY           | Awaiting/active in MDS system<br>verify processing                  | SETUP (JES3)      |
| NO SUBCHAIN          | No subchain exists                                                  | UNKNOWN           |
| OUTPUT               | Awaiting breakdown                                                  | OUTPUT            |
| OUTPUT COMPLETE      | Output service complete                                             | PRINT (JES3)      |
| PURGE                | Active in purge                                                     | PURGE             |

Table 284. Values for the PhaseName and Queue Column (continued)

| Phase       | Description                   | Queue        |
|-------------|-------------------------------|--------------|
| RECEIVE     | Active on NJE SYSOUT receiver | RECEIVE      |
| SETUP       | Active in setup               | SETUP        |
| SPIN        | Active in spin                | SPIN         |
| UNAVAIL VOL | Awaiting unavailable volumes  | SETUP (JES3) |
| VOL FETCH   | Awaiting volume fetch         | SETUP (JES3) |
| VOL MOUNT   | Awaiting volume mounts        | SETUP (JES3) |
| XMITTER     | Active on NJE job transmitter | XMITTER      |

## SVC Routines and ESR panel (SVC)

The SVC panel allows you to view the SVC (supervisor call instructions) as well as the ESR (extended service routines) table entries.

## Command

Access the SVC panel with the **SVC** command from any SDSF panel.

### Panel title information

The title line contains the following information:

```
SDSF SVC TABLE SYS1 SYS2 LINE 1-18 (289)
 | |
System | |
you are | |
logged | |
on to | |
 | |
Systems | |
displayed| |
(MVS value or| |
SYSNAME value)| |
 | |
 | |
Total lines | |
(**** if more| |
than 99,999,999)| |
```

## SVC command action characters

The action characters for the SVC command are shown in Table 285 on page 312.

Table 285. SVC Command Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |

## Columns on the SVC panel

The columns on the SVC panel are shown in [Table 286 on page 313](#).

Table 286. Columns on the SVC Panel

| Column name     | Title (Displayed) | Width | Description                                                                    |
|-----------------|-------------------|-------|--------------------------------------------------------------------------------|
| <b>NUM</b>      | SVC               | 3     | SVC number. This is a fixed field. It is ignored if coded on an FLD statement. |
| <b>NUMX</b>     | SVCX              | 4     | SVC number in hexadecimal                                                      |
| <b>ESRCODE</b>  | ESRCode           | 7     | ESR code in hexadecimal                                                        |
| <b>MODULE</b>   | Module            | 8     | Module name                                                                    |
| <b>MACRO</b>    | Macro             | 16    | Associated macro                                                               |
| <b>EPA</b>      | EPA               | 8     | Entry point address                                                            |
| <b>LOCATION</b> | Location          | 16    | Storage location                                                               |
| <b>AMODE</b>    | AMode             | 5     | Addressing mode                                                                |
| <b>TYPE</b>     | Type              | 4     | SVC type                                                                       |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                    |
| <b>APF</b>      | APF               | 3     | APF authorized                                                                 |
| <b>ESR</b>      | ESR               | 3     | Extended SVC route                                                             |
| <b>MAXESR</b>   | MaxESR            | 6     | Maximum number of ESRs                                                         |
| <b>ASF</b>      | ASF               | 3     | SVC assist                                                                     |
| <b>AR</b>       | AR                | 3     | AR mode                                                                        |
| <b>UP</b>       | Upd               | 3     | SVC updated                                                                    |
| <b>NP</b>       | NonP              | 4     | Non-preemptive                                                                 |
| <b>LOCKS</b>    | Locks             | 10    | Locks required                                                                 |
| <b>UPDCNT</b>   | UpdCnt            | 6     | Update count                                                                   |
| <b>UPDMETH</b>  | UpdMeth           | 8     | Update method                                                                  |
| <b>UPDDATE</b>  | UpdDate           | 10    | Date SVC was updated                                                           |
| <b>OLDMOD</b>   | OldMod            | 8     | Old module name                                                                |
| <b>OLDEPA</b>   | OldEPA            | 8     | Old module EPA                                                                 |
| <b>OLDTYPE</b>  | OldType           | 7     | Old SVC type                                                                   |
| <b>OLDAPF</b>   | OldAPF            | 6     | Old APF setting                                                                |
| <b>OLDASF</b>   | OldASF            | 6     | Old ASF setting                                                                |
| <b>OLDAR</b>    | OldAR             | 5     | Old AR setting                                                                 |
| <b>OLDNP</b>    | OldNP             | 5     | Old NP setting                                                                 |
| <b>OLDLOCKS</b> | OldLocks          | 10    | Old locks                                                                      |
| <b>RETADDR</b>  | RetAddr           | 8     | SVCUPDATE return address                                                       |
| <b>SYSLEVEL</b> | SysLevel          | 25    | System level                                                                   |

Table 286. Columns on the SVC Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## System Symbols panel (SYM)

The System Symbols panel (SYM) allows you to display the system dynamic and static symbols.

System symbols are elements that allow systems to share parmlib definitions while retaining unique values in those definitions. System symbols act like variables in a program; they can take on different values, based on the input to the program.

By default, the SYM panel is sorted by the system and symbol names. You can change the sort order with the SORT command.

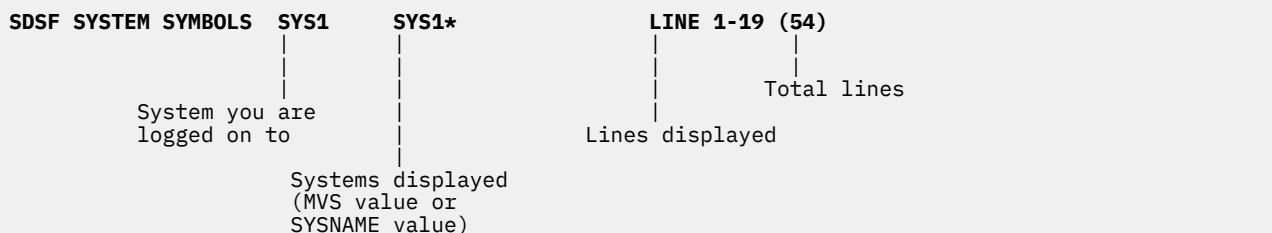
The value of a static symbol is typically assigned through parmlib. In contrast, the value of a dynamic symbol is assigned by the system at the time the symbol is evaluated. For example, time and date symbols evaluate to the current time and date. The SYM panel shows the values of dynamic symbols at the time the panel is generated as an example of the value format. Jobs that reference a dynamic symbol may contain a different value when the symbol is evaluated.

### Command keyword

Access the SYM panel with the **SYM** command from any SDSF panel.

## Panel title information

The title line contains the following information:



## SYM command action characters

The action characters for the SYM command are shown in [Table 287 on page 314](#)

**Note:** Action characters on the SYM panel generate commands to display the symbols in the syslog. Because dynamic symbols are not supported by operator commands, issuing an action against a dynamic symbol results in the message NOT VALID FOR TYPE.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |

| Table 287. SYM command Action Characters (continued) |                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------|
| Action Character                                     | Description                                                                            |
| //                                                   | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                              | Run a REXX exec.                                                                       |
| =                                                    | Repeat previous action character or overtyping.                                        |
| D                                                    | Display symbol.                                                                        |
| DL                                                   | Display all symbols.                                                                   |

## Columns on the SYM panel

The columns on the DA panel are shown in Table 288 on page 315.

Table 288. Columns on the SYM Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYMBOL</b>   | SYMBOL            | 16    | Symbol name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                     |
| <b>VALUE</b>    | Value             | 44    | Symbol value. For dynamic symbols, it is the current value.                                                                                                                           |
| <b>TYPE</b>     | Type              | 8     | Symbol type (STATIC or DYNAMIC)                                                                                                                                                       |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Operating system level                                                                                                                                                                |
| <b>IEASYM</b>   | IEASYM            | 32    | IEASYMxx value                                                                                                                                                                        |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## System panel (SYS)

The System Panel (SYS) allows you to display information about systems in the sysplex such as CPU busy, storage utilization, and IPL information.

### Command

Access the System panel with the **SYS** command from any SDSF panel.

### Panel title information

The title line contains the following information:

|             |                |                                                      |             |                 |                     |
|-------------|----------------|------------------------------------------------------|-------------|-----------------|---------------------|
| <b>SDSF</b> | <b>SYSTEMS</b> | <b>SYS1</b>                                          | <b>SYS*</b> | <b>PLEXNAME</b> | <b>LINE 1-1 (1)</b> |
|             |                |                                                      |             |                 |                     |
|             |                | System you<br>are logged<br>on to                    |             | Sysplex name    | Total lines         |
|             |                |                                                      |             |                 |                     |
|             |                | Systems displayed<br>(MVS value or<br>SYSNAME value) |             | Lines displayed |                     |

## SYS command action characters

The action characters for the SYS command are shown in [Table 289 on page 316](#).

| Table 289. SYS Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| D                                        | Display IPL information.                                                                            |
| DAA                                      | Display all address spaces.                                                                         |
| DAL                                      | Display address space list.                                                                         |
| DALO                                     | Display allocation options.                                                                         |
| DB                                       | Display System Recovery Boost.                                                                      |
| DC                                       | Display consoles.                                                                                   |
| DCEE                                     | Display language environment options.                                                               |
| DD                                       | Display dump information.                                                                           |
| DEM                                      | Display EMCS consoles.                                                                              |
| DG                                       | Display GRS information.                                                                            |
| DI                                       | Display IOS information.                                                                            |
| DIQP                                     | Display IQP options.                                                                                |
| DLL                                      | Display LLA information.                                                                            |
| DLO                                      | Display system logger information.                                                                  |
| DLR                                      | Display LOGREC information.                                                                         |
| DM                                       | Display configuration.                                                                              |
| DMP                                      | Display MPF.                                                                                        |
| DMC                                      | Display configured CPU.                                                                             |
| DO                                       | Display OMVS options.                                                                               |
| DP                                       | Display product registration.                                                                       |
| DPCD                                     | Display PCIE device information.                                                                    |
| DPCI                                     | Display PCIE options.                                                                               |
| DSF                                      | Display SMF status.                                                                                 |
| DSL                                      | Display SLIP information.                                                                           |
| DSM                                      | Display SMS information.                                                                            |

| <i>Table 289. SYS Command Action Characters (continued)</i> |                                                            |
|-------------------------------------------------------------|------------------------------------------------------------|
| <b>Action Character</b>                                     | <b>Description</b>                                         |
| DSY                                                         | Display system symbols.                                    |
| DT                                                          | Display time.                                              |
| DTO                                                         | Display TSO options.                                       |
| DTR                                                         | Display trace.                                             |
| DTS                                                         | Display TSO address spaces.                                |
| DW                                                          | Display WLM information.                                   |
| DX                                                          | Display XCF sysplex information.                           |
| I                                                           | Display an overview of the system (access the DASH panel). |

### Columns on the SYS panel

The columns on the SYS panel are shown in [Table 290 on page 317](#).

*Table 290. Columns on the SYS Panel*

| <b>Column name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                                                |
|--------------------|--------------------------|--------------|-----------------------------------------------------------------------------------|
| <b>SYSNAME</b>     | SYSNAME                  | 8            | System name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SYSLEVEL</b>    | SysLevel                 | 3            | Operating system level                                                            |
| <b>CPUPR</b>       | CPU%                     | 4            | CPU percent busy for the system                                                   |
| <b>SIO</b>         | SIO                      | 8            | Start I/O rate EXCPs per second                                                   |
| <b>AUXPCT</b>      | Aux%                     | 4            | Auxiliary storage percentage used                                                 |
| <b>CSAPCT</b>      | CSA%                     | 4            | Common storage area percentage used                                               |
| <b>SQAPCT</b>      | SQA%                     | 4            | System queue area percentage used                                                 |
| <b>ECSAPCT</b>     | ECSA%                    | 5            | Extended common area percentage used                                              |
| <b>ESQAPCT</b>     | ESQA%                    | 5            | Extended system queue area percentage used                                        |
| <b>UIC</b>         | UIC                      | 5            | High unreferenced interval count                                                  |
| <b>SPOOLPCT</b>    | Spool%                   | 6            | Spool utilization for primary JES                                                 |
| <b>CADSPCT</b>     | CADS%                    | 5            | Common Access Dataspace percentage used of maximum defined                        |
| <b>PAGERATE</b>    | PageRate                 | 8            | Paging rate                                                                       |
| <b>REAL</b>        | Real                     | 8            | Number of real storage frames online                                              |
| <b>REALAFC</b>     | RealAFC                  | 8            | Real storage available frame count                                                |
| <b>REALAFCB</b>    | RealAFCB                 | 8            | Real storage available frame count below 16MB line                                |
| <b>FIXPCT</b>      | Fix%                     | 4            | Percentage of real storage frames that are fixed                                  |
| <b>FIXBPCT</b>     | FixB%                    | 5            | Percentage of real storage frames that are fixed below the 16MB line              |
| <b>MAXASID</b>     | MaxASID                  | 7            | Maximum number of address spaces                                                  |

Table 290. Columns on the SYS Panel (continued)

| Column name     | Title (Displayed) | Width | Description                               |
|-----------------|-------------------|-------|-------------------------------------------|
| <b>FREEASID</b> | FreeASID          | 8     | Number of free address spaces             |
| <b>BADASID</b>  | BadASID           | 7     | Number of non-reusable address spaces     |
| <b>STCNUM</b>   | STC               | 6     | Number of active started tasks            |
| <b>TSUNUM</b>   | TSU               | 6     | Number of active TSO users                |
| <b>JOBNUM</b>   | Job               | 6     | Number of active batch jobs               |
| <b>WTORNUM</b>  | WTOR              | 4     | Number of outstanding WTORs               |
| <b>SYSPLEX</b>  | Sysplex           | 8     | Sysplex name                              |
| <b>LPAR</b>     | LPAR              | 8     | LPAR name                                 |
| <b>VMUSER</b>   | VMUser            | 8     | VM user ID                                |
| <b>JESNAME</b>  | JES               | 4     | Job entry subsystem name                  |
| <b>JESNODE</b>  | JESNode           | 8     | JES node name                             |
| <b>SMF</b>      | SMF               | 4     | SMF system ID                             |
| <b>IPLVOL</b>   | IPLVol            | 6     | IPL volume serial                         |
| <b>IPLUNIT</b>  | IPLUnit           | 7     | IPL unit address                          |
| <b>IPLDATE</b>  | IPLDate           | 19    | IPL date                                  |
| <b>IPLTYPE</b>  | IPLType           | 7     | IPL type                                  |
| <b>IPLDAYS</b>  | IPLDays           | 7     | Number of days since last IPL             |
| <b>LOADPARM</b> | LoadParm          | 8     | Load parameter                            |
| <b>CVTVERID</b> | CVTVERID          | 16    | CVT version ID associated with system     |
| <b>LOADDSN</b>  | LoadDSName        | 44    | LOADxx data set name                      |
| <b>LOADUNIT</b> | LoadUnit          | 8     | LOADxx unit address                       |
| <b>IEASYS</b>   | IEASYS            | 16    | IEASYSxx parameters for the system        |
| <b>IEASYM</b>   | IEASYM            | 16    | IEASYMxx parameters for the system        |
| <b>GRS</b>      | GRS               | 4     | GRS mode                                  |
| <b>HWNAME</b>   | HWName            | 8     | Hardware name                             |
| <b>CPC</b>      | CPC               | 30    | Central Processor Complex node descriptor |
| <b>MSU</b>      | MSU               | 8     | MSU rating for processor                  |
| <b>SYSMSU</b>   | SysMSU            | 8     | MSU rating for image                      |
| <b>AVGMSU</b>   | AvgMSU            | 8     | Four hour rolling MSU for system          |
| <b>CPUNUM</b>   | #CPU              | 4     | Number of online CPUs                     |
| <b>ZAAPNUM</b>  | #ZAAP             | 5     | Number of online zAAP processors          |
| <b>ZIIPNUM</b>  | #ZIIP             | 5     | Number of online zIIP processors          |
| <b>OSCONFIG</b> | OSConfig          | 8     | Operating system configuration            |
| <b>EDT</b>      | EDT               | 3     | Eligible device table ID                  |



Table 290. Columns on the SYS Panel (continued)

| Column name        | Title (Displayed) | Width | Description                                                                                 |
|--------------------|-------------------|-------|---------------------------------------------------------------------------------------------|
| <b>NUCLST</b>      | NUCLST            | 6     | NUCLSTxx member                                                                             |
| <b>IEANUC</b>      | IEANUC            | 6     | IEANUCxx member                                                                             |
| <b>IODFDSN</b>     | IODFDSName        | 44    | IODF data set name                                                                          |
| <b>IODFDATE</b>    | IODFDate          | 19    | Date and time IODF last changed                                                             |
| <b>CATDSN</b>      | CatDSName         | 44    | Master catalog data set name                                                                |
| <b>CATVOL</b>      | CatVol            | 6     | Master catalog volume serial                                                                |
| <b>MLA</b>         | MLA               | 3     | Multi-level alias setting for system                                                        |
| <b>CATTYPE</b>     | CatType           | 7     | Master catalog type                                                                         |
| <b>NETID</b>       | NetID             | 8     | VTAM network ID                                                                             |
| <b>SSCP</b>        | SSCP              | 17    | VTAM SSCP name                                                                              |
| <b>STATDATE</b>    | StatDate          | 19    | Date and time statistics collected                                                          |
| <b>IPLCUNIT</b>    | IPLCurr           | 7     | IPL unit address (current)                                                                  |
| <b>IODFUNIT</b>    | IODFUnit          | 8     | IODF unit address (original)                                                                |
| <b>IODFCUNIT</b>   | IODFCurr          | 8     | IODF unit address (current)                                                                 |
| <b>JESTYPE</b>     | JESType           | 7     | JES type for primary JES (JES2 or JES3)                                                     |
| <b>TZOFFSET</b>    | TimeZoneOfs       | 11    | Timezone offset from UTC                                                                    |
| <b>HCSUCCESS</b>   | HCSuccess         | 9     | Health Check success count                                                                  |
| <b>HCSEVLOW</b>    | HCSevLow          | 8     | Health Check severity LOW                                                                   |
| <b>HCSEVMEDIUM</b> | HCSevMed          | 8     | Health Check severity MEDIUM                                                                |
| <b>HCSEVHIGH</b>   | HCSevHigh         | 9     | Health Check severity HIGH                                                                  |
| <b>BOOST</b>       | Boost             | 8     | System Recovery Boost status                                                                |
| <b>BOOSTTYPE</b>   | BoostType         | 10    | System Recovery Boost type                                                                  |
| <b>BOOSTCLASS</b>  | BoostClass        | 10    | System Recovery Boost class                                                                 |
| <b>BOOSTREQ</b>    | BoostReq          | 9     | System Recovery Boost requestor                                                             |
| <b>BOOSTDATE</b>   | BoostEndDate-Time | 19    | System Recovery Boost expected end date-time                                                |
| <b>BOOSTINT</b>    | BoostInt          | 8     | System Recovery Boost interval until end                                                    |
| <b>DMEMSYS</b>     | DMemSys           | 7     | Dedicated memory in use by system (Gb)                                                      |
| <b>DMEM</b>        | Dmem              | 8     | Dedicated memory online (GB)                                                                |
| <b>DMEMPCT</b>     | DMem%             | 5     | Percentage of dedicated memory in use                                                       |
| <b>REALPCT</b>     | Real%             | 5     | Percentage of real memory in use, calculated as:<br>((RealTotal - RealAFC) × 100)/RealTotal |
| <b>UUID</b>        | UUID              | 36    | Software instance unique ID generated from z/OSMF                                           |
| <b>VALIDBOOT</b>   | ValidatedBoot     | 16    | Validated boot status                                                                       |
| <b>IPLCVOL</b>     | IPLCurrVol        | 10    | IPL volume serial (current)                                                                 |

Table 290. Columns on the SYS Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## System Parameters panel (SYSP)

The SYSP panel shows the parameters that are used when the system is IPLed, including IEASYSxx PARMLIB statements and their sources.

## Command

Access the System Parameters panel with the **SYSP** command from any SDSF panel.

### Panel title information

The title line contains the following information:

| SDFS | SYSTEM | PARAMETERS | SYS1                                 | SYS2                                                 | LINE            | 1-19 (72)   |
|------|--------|------------|--------------------------------------|------------------------------------------------------|-----------------|-------------|
|      |        |            | System<br>you are<br>logged<br>on to | Systems displayed<br>(MVS value or<br>SYSNAME value) |                 | Total lines |
|      |        |            |                                      |                                                      | Lines displayed |             |

## SYSP command action characters

The action characters for the SYSP command are shown in Table 291 on page 320.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display information.                                                                                |
| L                | Search the PARMLIB data sets for the system parameter.                                              |

## Columns on the SYSP panel

The columns on the SYSP panel are shown in Table 292 on page 321.

Table 292. Columns on the SYSP Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PARM</b>     | PARM              | 4     | Parameter name. This is a fixed field. It is ignored if coded on an FLD statement.                                                                                                    |
| <b>VALUE</b>    | Value             | 36    | Parameter value                                                                                                                                                                       |
| <b>MEMBER</b>   | Member            | 8     | Parameter member                                                                                                                                                                      |
| <b>REFNAME</b>  | RefName           | 8     | Parameter reference name                                                                                                                                                              |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>DESCRIPT</b> | Description       | 127   | Parameter description                                                                                                                                                                 |
| <b>SYSLEVEL</b> | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Unit Control Blocks panel (UCB)

The Unit Control Blocks panel (UCB) displays status and information for static and dynamic UCBs.

### Command

Access the UCB panel with the **UCB** command from any SDSF panel.

### Parameters

The parameter usage is as follows:

```
UCB (ONLINE | ON) | (OFFLINE | OFF) | (PENDING | PEN) | ALL
```

The keywords are positional.

**UCB** with no parameters displays UCB ONLINE.

| Table 293. UCB Parameters |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Parameter                 | Description                                                                                       |
| ONLINE   ON               | Specifies that the UCB panel should only show units that are online. This is the default setting. |
| OFFLINE   OFF             | Specifies that the UCB panel should only show units that are offline.                             |
| PENDING   PEN             | Specifies that the UCB panel should only show units that are in pending status.                   |
| ALL                       | Specifies that the UCB panel should show all units regardless of their status.                    |

### Panel title information

The title line contains the following information:

|             |            |                |                                                       |             |                |                                                         |                       |
|-------------|------------|----------------|-------------------------------------------------------|-------------|----------------|---------------------------------------------------------|-----------------------|
| <b>SDSF</b> | <b>UCB</b> | <b>DISPLAY</b> | <b>SYS1</b>                                           | <b>SYS2</b> | <b>STATUS</b>  | <b>UNITNAME</b>                                         | <b>LINE 1-15 (65)</b> |
|             |            |                | System you are<br>are logged<br>on to                 |             | Unit<br>status |                                                         | Lines<br>displayed    |
|             |            |                | Systems displayed<br>(MVS value or<br>(SYSNAME value) |             |                | Unit name<br>(displayed when<br>invoked from EDT panel) | Total lines           |

## UCB command action characters

The action characters for the UCB command are shown in [Table 294 on page 322](#).

| Table 294. UCB Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| D                                        | Display unit information.                                                                           |
| DA                                       | Display allocations for the unit.                                                                   |
| DSP                                      | DEVSERV PATH.                                                                                       |
| DSQD                                     | DEVSERV QDASD.                                                                                      |
| DSQP                                     | DEVSERV QPATH.                                                                                      |
| DSS                                      | DEVSERV SMS.                                                                                        |
| V                                        | Vary device online.                                                                                 |
| VF                                       | Vary device offline.                                                                                |

## Columns on the UCB panel

The columns on the UCB panel are shown in [Table 295 on page 322](#).

| Table 295. Columns on the UCB Panel |                   |       |                                                    |
|-------------------------------------|-------------------|-------|----------------------------------------------------|
| Column name                         | Title (Displayed) | Width | Description                                        |
| <b>UNIT</b>                         | UNIT              | 4     | Hexadecimal unit address. This is the fixed field. |
| <b>DEVTYPE</b>                      | DevType           | 8     | Device type of the UCB                             |
| <b>VOLSER</b>                       | VolSer            | 6     | Volume serial for the UCB                          |
| <b>DEVCLASS</b>                     | DevClass          | 8     | Device class of the UCB                            |
| <b>STATUS</b>                       | Status            | 8     | UCB status                                         |
| <b>SMS</b>                          | SMS               | 3     | SMS indicator (YES or NO)                          |
| <b>EAV</b>                          | EAV               | 3     | Extended address volume (YES or NO)                |

Table 295. Columns on the UCB Panel (continued)

| Column name         | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOCATION</b>     | Loc               | 3     | Location of UCB                                                                                                                                       |
| <b>UCBADDR</b>      | UCB               | 8     | UCB address                                                                                                                                           |
| <b>COMMONADDR</b>   | UCBPDATA          | 8     | UCB common extension address                                                                                                                          |
| <b>PREFIXADDR</b>   | UCBCMEXT          | 8     | UCB prefix address                                                                                                                                    |
| <b>UCBTYPE</b>      | UCBType           | 8     | Value in UCBTYP field of UCB                                                                                                                          |
| <b>PATHS</b>        | Paths             | 23    | Online paths for UCB                                                                                                                                  |
| <b>OFFLINEPATHS</b> | OfflinePaths      | 23    | Offline or pending paths for UCB                                                                                                                      |
| <b>SHARE</b>        | Shr               | 3     | UCB device is shared (YES or NO)                                                                                                                      |
| <b>ALLOCATE</b>     | Alloc             | 5     | UCB device is allocated (YES or NO)                                                                                                                   |
| <b>UNLOADPND</b>    | UnloadPnd         | 9     | Unload operator command has been addressed to this device                                                                                             |
| <b>PERMRES</b>      | PermRes           | 7     | The mount status of the volume on this device is permanently resident                                                                                 |
| <b>READY</b>        | Ready             | 5     | Device ready (YES or NO)                                                                                                                              |
| <b>BOXED</b>        | Boxed             | 5     | This device has been forced offline due to an error                                                                                                   |
| <b>USAGE</b>        | Usage             | 8     | Volume status                                                                                                                                         |
| <b>PAGE</b>         | Page              | 4     | UCB is open and is being used as a page file                                                                                                          |
| <b>CATALOG</b>      | Catalog           | 7     | Control volume - a catalog data set is on this volume (direct access)                                                                                 |
| <b>USECOUNT</b>     | UseCount          | 8     | Number of users of device                                                                                                                             |
| <b>ALLOCSYS</b>     | AllocSys          | 8     | In use by system (YES or NO)                                                                                                                          |
| <b>SYSNAME</b>      | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>     | SysLevel          | 25    | System level                                                                                                                                          |
| <b>SS</b>           | SS                | 2     | Subchannel set number                                                                                                                                 |
| <b>SSUNIT</b>       | SSUnit            | 6     | Hexadecimal unit address including subchannel set number                                                                                              |
| <b>ISFEND</b>       | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Virtual Storage Map panel (VMAP)

The Virtual Storage Map (VMAP) panel allows you to display the virtual storage map for the system. The map shows the starting and ending virtual addresses for each type of storage area in the system. The VMAP panel shows information about storage areas for both the current user private areas and the common storage areas. Information is displayed for 24-bit, 31-bit, and 64-bit regions where appropriate.

If SDSF detects that a storage area is not defined in the system, the starting and ending addresses are set to hex zeroes; otherwise, the Size column is calculated using those values. Examples of areas that might have zero addresses include V=R, FLPA, and MLPA.



Table 297. Columns on the VMAP Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>       | NAME              | 16    | Storage area name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                               |
| <b>START</b>      | Start-Address     | 17    | Starting address of area                                                                                                                                                              |
| <b>END</b>        | End-Address       | 17    | Ending address of area                                                                                                                                                                |
| <b>SIZE</b>       | Size              | 6     | Size of area (bytes)                                                                                                                                                                  |
| <b>ALLOC</b>      | Alloc             | 5     | Size of allocated area (bytes)                                                                                                                                                        |
| <b>ALLOCPCT</b>   | Alloc%            | 6     | Percentage of area that is allocated                                                                                                                                                  |
| <b>ALLOCHWM</b>   | HWM               | 6     | Allocated storage high water mark                                                                                                                                                     |
| <b>ALLOCHWMPC</b> | HWM%              | 4     | High water mark percentage                                                                                                                                                            |
| <b>SEQ</b>        | Seq               | 3     | Sequence number of area                                                                                                                                                               |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## WLM Policy panel (WLM)

The WLM policy (WLM) panel shows details about the current WLM policy.

No rows on this panel are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the WLM attribute name.

## Command

Access the panel with the **WLM** command.

### Panel title information

The title line contains the following information:

|             |            |               |                                |                      |                 |                  |
|-------------|------------|---------------|--------------------------------|----------------------|-----------------|------------------|
| <b>SDSF</b> | <b>WLM</b> | <b>POLICY</b> | <b>SY1</b>                     | <b>POLICY01</b>      | <b>LINE</b>     | <b>1-10 (10)</b> |
|             |            |               | System you are<br>logged on to |                      |                 | Total lines      |
|             |            |               |                                | WLM policy in effect |                 |                  |
|             |            |               |                                |                      | Lines displayed |                  |

## WLM command action characters

The action characters for the WLM command are shown in Table 298 on page 326.

*Table 298. WLM Command Action Characters*

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtyping.                                                     |

### Columns on the WLM panel

The columns on the WLM panel are shown in 'Table 299 on page 326.

Table 299. Columns on the WLM Policy Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>      | NAME              | 32    | WLM policy attribute name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                       |
| <b>VALUE</b>     | Value             | 32    | Policy attribute value                                                                                                                                                                |
| <b>DATEVALUE</b> | DateValue         | 19    | Policy attribute date value                                                                                                                                                           |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## WLM Workload panel (WKLD)

The WLM workload (WKLD) panel shows details about all workloads defined in the current WLM policy.

All rows on this panel are highlighted. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the pattern of the workload name.

## Command

Access the panel with the **WKLD** command.

### Panel title information

The title line contains the following information:

| SDSF | WLM | WORKLOADS | SYS1                           | POLICY01             | LINE            | 1-13 (13)   |
|------|-----|-----------|--------------------------------|----------------------|-----------------|-------------|
|      |     |           | System you are<br>logged on to | WLM policy in effect |                 | Total lines |
|      |     |           |                                |                      | Lines displayed |             |



## WKLD command action characters

The action characters for the WKLD command are shown in [Table 300 on page 327](#).

| Table 300. WKLD Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| L                                         | List address spaces assigned to this WLM class or group.                                            |
| LE                                        | List enclaves.                                                                                      |

## Columns on the WKLD panel

The columns on the WKLD panel are shown in [Table 301 on page 327](#).

| Table 301. Columns on the WLM Workload Panel |                   |       |                                                                                                                                                                                       |
|----------------------------------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column name                                  | Title (Displayed) | Width | Description                                                                                                                                                                           |
| NAME                                         | NAME              | 8     | Workload name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                   |
| DESC                                         | Description       | 32    | Workload description                                                                                                                                                                  |
| POLNAME                                      | Policy            | 8     | Policy name in effect                                                                                                                                                                 |
| POLDESC                                      | PolicyDescription | 32    | Policy description                                                                                                                                                                    |
| POLACTDATE                                   | PolicyActDate     | 19    | Policy activation timestamp                                                                                                                                                           |
| CRUSER                                       | CrUser            | 8     | User ID creating policy definition                                                                                                                                                    |
| CRDATE                                       | CrDate            | 19    | Timestamp when policy definition created                                                                                                                                              |
| UPDUSER                                      | UpdUser           | 8     | User ID last updating policy definition                                                                                                                                               |
| UPDDATE                                      | UpdDate           | 19    | Timestamp when policy definition was last updated                                                                                                                                     |
| SYSNAME                                      | SysName           | 8     | System name                                                                                                                                                                           |
| SYSLEVEL                                     | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| ISFEND                                       | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## XCF Application Servers panel (XCFA)

The XCF application servers panel (XCFA) shows details about the XCF application servers in the sysplex.

## Command

Access the XCFA panel with the **XCFA** command from any SDSF panel.

## Panel title information

The title line contains the following information:

```
SDSF XCF APPLICATION SERVERS SYS1 PLEX0008 LINE 1-12 (12)
 | |
 | | Sysplex name
 | |
 | | Lines displayed
 | | or first line
 | | if 100,000
 | |
 | | Total lines
 | | (**** if more
 | | than 99,999,999)
```

## XCFA command action characters

The action characters for the XCFA command are shown in [Table 302 on page 328](#).

| Table 302. XCFA Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| D                                         | Display server information.                                                                         |
| DA                                        | Display information for all servers.                                                                |
| DI                                        | Display information about each instance of the server.                                              |
| LCK                                       | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |

## Columns on the XCFA panel

The columns on the XCFA panel are shown in [Table 303 on page 328](#).

| Table 303. Columns on the XCF Application Servers Panel |                   |       |                                       |
|---------------------------------------------------------|-------------------|-------|---------------------------------------|
| Column Name                                             | Title (Displayed) | Width | Description                           |
| SERVER                                                  | SERVER            | 36    | Server name. This is the fixed field. |
| INSTANCE                                                | InstanceNum       | 11    | Server instance number                |
| SYSTEM                                                  | System            | 8     | System name where instance is defined |
| STATUS                                                  | Status            | 12    | Server instance status                |

Table 303. Columns on the XCF Application Servers Panel (continued)

| Column Name         | Title (Displayed) | Width | Description                                                                                    |
|---------------------|-------------------|-------|------------------------------------------------------------------------------------------------|
| <b>REQNUM</b>       | Requests          | 8     | Number of requests presented to this server instance                                           |
| <b>DESCRIPT</b>     | Description       | 32    | Server instance description                                                                    |
| <b>FDI</b>          | FDI               | 4     | Failure detection interval in seconds                                                          |
| <b>JNAME</b>        | JobName           | 8     | Job name                                                                                       |
| <b>ASID</b>         | ASID              | 5     | ASID of job                                                                                    |
| <b>ASIDX</b>        | ASIDX             | 5     | ASID of job in hexadecimal                                                                     |
| <b>STOKEN</b>       | SToken            | 16    | Address space token                                                                            |
| <b>TCB</b>          | TCB               | 8     | Task control block address                                                                     |
| <b>TOKEN</b>        | TToken            | 32    | Task token                                                                                     |
| <b>EXITADDR</b>     | Exit              | 8     | Exit address                                                                                   |
| <b>RESPBIND</b>     | ResponseBind      | 14    | Type of response recovery bind in effect                                                       |
| <b>MINSERVERLEV</b> | MinServerLevel    | 14    | Server minimum level                                                                           |
| <b>MAXSERVERLEV</b> | MaxServerLevel    | 14    | Server maximum level                                                                           |
| <b>MINCLIENTLEV</b> | MinClientLevel    | 14    | Client minimum level                                                                           |
| <b>MAXCLIENTLEV</b> | MaxClientLevel    | 14    | Client maximum level                                                                           |
| <b>COLLECTTIME</b>  | Collect-Time      | 19    | Time when data was collected on the target system                                              |
| <b>STARTTIME</b>    | Start-Time        | 19    | Time when this server was instantiated                                                         |
| <b>IDLETIME</b>     | Idle-Time         | 19    | Time when this server entered an idle state waiting for more work                              |
| <b>NOTIFYTIME</b>   | Notify-Time       | 19    | Time when this server instance was last notified that work items were available for processing |
| <b>WORKTIME</b>     | Work-Time         | 19    | Time when this server instance last began searching for new work to process                    |
| <b>LASTREQTIME</b>  | LastReq-Time      | 19    | Time when a request was last bound to this server instance for processing                      |
| <b>STOPTIME</b>     | Stop-Time         | 19    | Time when a stop request was first accepted for this server                                    |
| <b>SERVERID</b>     | ServerID          | 32    | Server ID                                                                                      |
| <b>FEATURES</b>     | Features          | 16    | Server features                                                                                |
| <b>SYSID</b>        | SysID             | 8     | XCF system ID of system on which the sender resides                                            |
| <b>WORKDESC</b>     | WorkDescription   | 32    | Description provided by the sender when IXSEND was invoked to send the request                 |
| <b>CLIENTLEV</b>    | ClientLevel       | 11    | Level of the client that sent the request as specified on the IXSEND request                   |
| <b>WORKTYPE</b>     | WorkType          | 12    | Type of work item being processed                                                              |

*Table 303. Columns on the XCF Application Servers Panel (continued)*

| Column Name   | Title (Displayed) | Width | Description                                                                                                                                           |
|---------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## XCF Members and Groups panel (XCFM)

The XCF members and groups (XCFM) panel lists the XCF groups and members defined in the sysplex.

Rows representing active members are highlighted.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts two parameters: the first is a group name pattern, and the second is a member name pattern.

### Command

Access the panel with the **XCFM** command.

## Panel title information

The title line contains the following information:

|             |            |                |                |                 |                        |
|-------------|------------|----------------|----------------|-----------------|------------------------|
| <b>SDSF</b> | <b>XCF</b> | <b>MEMBERS</b> | <b>SYS1</b>    | <b>PLEXNAME</b> | <b>LINE 1-19 (188)</b> |
|             |            |                |                |                 |                        |
|             |            |                | System you are |                 | Total lines            |
|             |            |                | logged on to   |                 |                        |
|             |            |                |                |                 |                        |
|             |            |                | Sysplex name   |                 |                        |
|             |            |                |                |                 |                        |
|             |            |                |                | Lines displayed |                        |

## XCFM command action characters

The action characters for the XCFM command are shown in Table 304 on page 330.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Display member.                                                                                     |
| DA               | Display all members for group.                                                                      |
| DG               | Display group.                                                                                      |
| LCK              | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |

## Columns on the XCFM panel

The columns on the XCFM panel are shown in [Table 305 on page 331](#).

Table 305. Columns on the XCFM Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>      | NAME              | 8     | XCF group name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                  |
| <b>MEMBER</b>    | Member            | 16    | XCF member name                                                                                                                                                                       |
| <b>STATUS</b>    | Status            | 8     | Member status                                                                                                                                                                         |
| <b>JNAME</b>     | JobName           | 8     | Owning job name                                                                                                                                                                       |
| <b>SYSNAME</b>   | SysName           | 8     | System name                                                                                                                                                                           |
| <b>STALLED</b>   | Stalled           | 7     | Member stalled (YES or NO)                                                                                                                                                            |
| <b>SENDCNT</b>   | Sends             | 8     | Send count                                                                                                                                                                            |
| <b>REVCNT</b>    | Receives          | 8     | Receive count                                                                                                                                                                         |
| <b>FUNCTION</b>  | Function          | 24    | Member function                                                                                                                                                                       |
| <b>CANRECV</b>   | CanRecv           | 7     | IXCJOIN can receive setting (YES or NO)                                                                                                                                               |
| <b>CANREPLY</b>  | CanReply          | 8     | IXCJOIN can reply setting (YES or NO)                                                                                                                                                 |
| <b>GT61KMSG</b>  | GT61KMsg          | 8     | IXCJOIN GT61KMSG settings (YES or NO)                                                                                                                                                 |
| <b>CRITICAL</b>  | Critical          | 8     | Member critical designation (YES or NO)                                                                                                                                               |
| <b>MEMASSOC</b>  | MemAssoc          | 9     | Member association (TASK, JOBSTEP, or ADDRSPACE)                                                                                                                                      |
| <b>TERMLEVEL</b> | TermLevel         | 9     | Termination level (TASK, JOBSTEP, ADDRSPACE, or SYSTEM)                                                                                                                               |
| <b>INTERVAL</b>  | Interval          | 8     | IXCJOIN interval (0.01 seconds)                                                                                                                                                       |
| <b>STATDATE</b>  | StatusDate        | 19    | Last change to status timestamp                                                                                                                                                       |
| <b>DEFDATE</b>   | JoinedDate        | 19    | Member joined timestamp                                                                                                                                                               |
| <b>DEACTDATE</b> | DeactDate         | 19    | Timestamp when member became failed or quiesced                                                                                                                                       |
| <b>USERDATA</b>  | UserData          | 8     | User data                                                                                                                                                                             |
| <b>USERSTATE</b> | UserState         | 64    | User state                                                                                                                                                                            |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## XCF Signaling Paths panel (XCFP)

The XCF signaling paths (XCFP) panel displays signaling path information for XCF connections. Use this panel to view statistics and statuses of signaling paths.

### Command

Access the XCF signaling paths panel with the **XCFP** command from any SDSF panel.

## Panel title information

The title line contains the following information:

```
SDSF XCF SIGNALING PATHS SYS1 PLEX0008 LINE 1-12 (12)
 | | |
 | System | Sysplex name | Lines displayed
 | that | | or first line
 | you are | | if 100,000
 | logged | |
 | on to | |
 | Total lines
 | (**** if more
 | than 99,999,999)
```

## XCFP command action characters

The action characters for the XCFP command are shown in [Table 306 on page 332](#).

| Table 306. XCFP Command Action Characters |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                          | Description                                                                                         |
| ./                                        | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                      | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                         | Show column values for row (ISPF only).                                                             |
| //                                        | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                   | Run a REXX exec.                                                                                    |
| =                                         | Repeat previous action character or overtype.                                                       |
| DI                                        | Display PATHIN information.                                                                         |
| DO                                        | Display PATHOUT information.                                                                        |
| LC                                        | List connections for the structure name.                                                            |
| LCK                                       | List checks from IBM Health Checker for z/OS. IBM Health Checker for z/OS must be active.           |
| LS                                        | List structure details.                                                                             |

## Columns on the XCFP panel

The columns on the XCFP panel are shown in [Table 307 on page 332](#).

| Table 307. Columns on the XCF Signaling Paths Panel |                   |       |                                                                                |
|-----------------------------------------------------|-------------------|-------|--------------------------------------------------------------------------------|
| Column Name                                         | Title (Displayed) | Width | Description                                                                    |
| STRNAME                                             | STRNAME           | 16    | Path name. This is the fixed field.                                            |
| REMOTESYS                                           | RemoteSys         | 9     | Remote system name                                                             |
| STATUS                                              | Status            | 16    | Path status                                                                    |
| TYPE                                                | Type              | 7     | Input or output path                                                           |
| SIGNALCOUNT                                         | SignalCount       | 11    | For outbound (inbound) path, total number of signals sent (received) over path |

Table 307. Columns on the XCF Signaling Paths Panel (continued)

| Column Name           | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNUSED</b>         | UnusedPath        | 10    | Number of lists that remain available for use (either as PATHIN or PATHOUT)                                                                           |
| <b>REFUSECOUNT</b>    | RefuseCount       | 11    | For inbound path, refused count of new message buffer requests due to maximum message limit for path                                                  |
| <b>RETRYLIMIT</b>     | RetryLimit        | 10    | Path retry limit                                                                                                                                      |
| <b>RETRYCOUNT</b>     | RetryCount        | 10    | Retry count                                                                                                                                           |
| <b>RESTARTCOUNT</b>   | RestartCount      | 12    | Cumulative number of restarts                                                                                                                         |
| <b>MAXMSGLIMIT</b>    | MaxMsgLimit       | 11    | Path maximum message limit                                                                                                                            |
| <b>TRANSPORTCLASS</b> | TransportClass    | 14    | Transport class name                                                                                                                                  |
| <b>TRANSPORTMECH</b>  | TransportMech     | 13    | Type of hardware being used as transport mechanism for signaling path                                                                                 |
| <b>XFERPENDING</b>    | TransferPending   | 15    | For outbound path, current number of signals pending transfer on path                                                                                 |
| <b>NONBUSYREQ</b>     | NonBusyReqCount   | 15    | For outbound path, total number of signal requests satisfied by this path while not busy                                                              |
| <b>BUSYREQ</b>        | BusyReqCount      | 12    | For outbound path, total number of signal requests satisfied by this path while busy                                                                  |
| <b>AVGIOXFERTIME</b>  | AvgIOTransferTime | 17    | For inbound path, average I/O transfer time (microseconds) for most recently received signals                                                         |
| <b>INUSEBLOCK</b>     | InUseBlocks       | 11    | Count of current number of 1K byte blocks of message buffer space in use by this signaling path                                                       |
| <b>BUFFERLEN</b>      | BufferLen         | 9     | Maximum bytes of message data that fits in signal buffers currently used by signaling path                                                            |
| <b>XFERRATE</b>       | TransferRate      | 12    | For outbound path, transfer rate (microseconds) last reported by the inbound side of the path                                                         |
| <b>BUFFERINUSE</b>    | BufferInUse       | 11    | For inbound path, number of signal buffers currently in use                                                                                           |
| <b>SIGNALNUM</b>      | SignalNumber      | 12    | Signal number assigned to most recent signal queued for transfer over path                                                                            |
| <b>DEVNUM</b>         | DevNum            | 6     | Device number                                                                                                                                         |
| <b>ISFEND</b>         | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |





# Chapter 3. SDSF panels available only from other panels

The panels in this section do not appear on the SDSF main panel and are available only by using action characters from other panels.

## Common Storage Subpool Details panel (CSI)

The Common Storage Subpool Details panel (CSI) allows you to view common storage details for a selected subpool and key.

### Action character

Access the CSI panel with the **L** action character from the CS panel.

### Panel title information

The title line contains the following information:

SDSF

COMMON

SP226

K00

SYS1

SYS2

Subpool

Key

System you are logged on to

System for subpool being displayed

LINE 1-9 (9)

Lines displayed

Total lines

### CSI action characters

The action characters for CSI are shown in [Table 308 on page 335](#).

| Table 308. CSI Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |
| //                                       | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                  | Run a REXX exec.                                                                                    |
| =                                        | Repeat previous action character or overtype.                                                       |
| S                                        | Select the current row as the start address for memory browse.                                      |

### Columns on the CSI panel

The columns on the CSI panel are shown in [Table 309 on page 336](#).

Table 309. Columns on the CSI Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADDRESS</b>    | ADDRESS           | 8     | Storage start address. This is the fixed field.                                                                                                                                       |
| <b>ADDRESSEND</b> | AddrEnd           | 8     | Storage end address                                                                                                                                                                   |
| <b>LENGTH</b>     | Length            | 8     | Storage size                                                                                                                                                                          |
| <b>STATUS</b>     | Status            | 6     | Status of storage (ALLOC or FREE)                                                                                                                                                     |
| <b>SUBPOOL</b>    | SP                | 3     | Subpool of storage                                                                                                                                                                    |
| <b>KEY</b>        | Key               | 3     | Storage key                                                                                                                                                                           |
| <b>BLOCKADDR</b>  | BlockAddr         | 9     | Block address start                                                                                                                                                                   |
| <b>BLKSIZE</b>    | BlockSize         | 9     | Block size                                                                                                                                                                            |
| <b>JNAME</b>      | JobName           | 8     | Job name that obtained it                                                                                                                                                             |
| <b>GQE</b>        | GQE               | 8     | GQE address                                                                                                                                                                           |
| <b>TYPE</b>       | Type              | 4     | Storage type (SQA or CSA)                                                                                                                                                             |
| <b>ORPHAN</b>     | Orphan            | 6     | Orphaned storage                                                                                                                                                                      |
| <b>JOBID</b>      | JobID             | 8     | Job ID                                                                                                                                                                                |
| <b>ASID</b>       | ASID              | 5     | Address space ID (decimal)                                                                                                                                                            |
| <b>ASIDX</b>      | ASIDX             | 5     | Address space ID (hexadecimal)                                                                                                                                                        |
| <b>ADATE</b>      | Date              | 19    | Storage obtain timestamp                                                                                                                                                              |
| <b>EDATE</b>      | EndDate           | 19    | Storage orphaned timestamp                                                                                                                                                            |
| <b>CAUB</b>       | CAUB              | 8     | CAUB address                                                                                                                                                                          |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>LENGTHX</b>    | LengthX           | 8     | Storage size (hexadecimal)                                                                                                                                                            |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Health Check History panel (CKH)

The Health Check History (CKH) panel shows information about instances of a check selected from the CK panel. The CKH panel allows you to display all of the instances of a check that were recorded in the logstream during the life of the IBM Health Checker for z/OS address space.

Checks recorded in the logstream before the IBM Health Checker for z/OS address space was last restarted are not included on the CKH panel.

### Action character

Access the CKH panel with the **L** action character from the CK panel.

### Panel title information

The title line contains the following information:

SDSF CHECK HISTORY    ALLOC\_ALLC\_OFFLN\_POLICY

Check    name

LINE 0-0 (0)  
Lines displayed  
Total lines

## CKH action characters

The action characters for CKH are shown in [Table 310 on page 337](#).

| Table 310. CKH Action Characters |                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                 | Description                                                                                                                                                                                                                                                                                                            |
| ./                               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                    |
| +(n)                             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                   |
| /                                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                |
| //                               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                 |
| %(exec)                          | Run a REXX exec.                                                                                                                                                                                                                                                                                                       |
| =                                | Repeat previous action character or overwrite.                                                                                                                                                                                                                                                                         |
| S                                | Browse (access SDSF's Output Dataset Panel.)                                                                                                                                                                                                                                                                           |
| SB                               | Browse using ISPF Browse.                                                                                                                                                                                                                                                                                              |
| SE                               | Browse using ISPF Edit.                                                                                                                                                                                                                                                                                                |
| SV                               | ISPF view.                                                                                                                                                                                                                                                                                                             |
| X                                | Print the check output. You can add: <ul style="list-style-type: none"><li>• C - Close the print file after printing (XC)</li><li>• D - Display the Open Print Data Set panel (XD or XDC)</li><li>• F - Display the Open Print File panel (XF or XFC)</li><li>• S - Display the Open Print panel (XS or XSC)</li></ul> |

## Columns on the CKH panel

The columns on the CKH panel are shown in [Table 311 on page 337](#).

Table 311. Columns on the CKH Panel

| Column name | Title (Displayed) | Width | Description                         |
|-------------|-------------------|-------|-------------------------------------|
| COUNT       | Count             | 17    | Count of this instance of the check |
| OWNER       | CheckOwner        | 16    | Check owner                         |
| STATUS      | Status            | 18    | Check status                        |
| RESULT      | Result            | 6     | Result code from the check          |
| DIAG1       | Diag1             | 8     | Diagnostic data from check, word 1  |
| DIAG2       | Diag2             | 8     | Diagnostic data from check, word 2  |

Table 311. Columns on the CKH Panel (continued)

| Column name    | Title (Displayed) | Width | Description                                         |
|----------------|-------------------|-------|-----------------------------------------------------|
| <b>DATEE</b>   | Start-Date-Time   | 19    | Date and time the check started (YYYY.DDD HH:MM:SS) |
| <b>DATEN</b>   | End-Date-Time     | 19    | Date and time the check ended (YYYY.DDD HH:MM:SS)   |
| <b>SYSPLEX</b> | Sysplex           | 8     | Sysplex name for the sysplex on which the check ran |
| <b>SYSNAME</b> | SysName           | 8     | System name for the system on which the check ran   |
| <b>NAME</b>    | Name              | 32    | Check name                                          |

## JES Checkpoint panel (CKPT)

The JES checkpoint (CKPT) panel is a secondary panel that shows all known JES checkpoints for a specific JES subsystem.

You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the member name pattern.

### Action character

Access the CKPT panel with the **JC** action character from the JES panel.

### Panel title information

The title line contains the following information:

```

SDSF JES CHECKPOINT SYS1 JESNAME JES2 Z22 LINE 1-4 (4)
 | | | | |
 | System you | JES | JES | Lines |
 | logged on | checkpoint| checkpoint| displayed |
 | to | level | | |
 | | | | Total |
 | | JES subsystem name | | lines |

```

### CKPT action characters

The action characters for CKPT are shown in [Table 312 on page 338](#).

| Table 312. CKPT Action Characters |                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                  | Description                                                                                         |
| ./                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                 | Show column values for row (ISPF only).                                                             |
| //                                | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                           | Run a REXX exec.                                                                                    |
| =                                 | Repeat previous action character or overwrite.                                                      |

| Table 312. CKPT Action Characters (continued) |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| Action Character                              | Description                                                |
| D                                             | Display JES checkpoint definition (z/OS operator command). |

## Columns on the CKPT panel

The columns on the CKPT panel are shown in [Table 313 on page 339](#).

Table 313. Columns on the CKPT Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 8     | Checkpoint file name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                            |
| <b>SIZE</b>     | Size              | 8     | Checkpoint size in bytes.                                                                                                                                                             |
| <b>SIZEPCT</b>  | Size%             | 5     | Percentage size used.                                                                                                                                                                 |
| <b>SIZEUSED</b> | Size%             | 8     | Checkpoint size used in bytes.                                                                                                                                                        |
| <b>SIZETRK</b>  | SizeTrk           | 8     | Checkpoint size in tracks if CF=NO.                                                                                                                                                   |
| <b>INUSE</b>    | InUse             | 5     | Whether or not checkpoint is in use (YES/NO).                                                                                                                                         |
| <b>CF</b>       | CF                | 3     | Whether or not checkpoint is in coupling facility.                                                                                                                                    |
| <b>MODE</b>     | Mode              | 6     | Checkpoint mode (DUPLEX/DUAL).                                                                                                                                                        |
| <b>DUPLEX</b>   | Duplex            | 6     | Whether or not duplex is active (YES/NO).                                                                                                                                             |
| <b>VOLATILE</b> | Volatile          | 8     | Whether or not duplex is volatile (YES/NO).                                                                                                                                           |
| <b>OPVERIFY</b> | OpVerify          | 8     | Whether or not to use operators in checkpoint reconfiguration (YES/NO).                                                                                                               |
| <b>CAP</b>      | Capacity          | 8     | Checkpoint capacity in bytes.                                                                                                                                                         |
| <b>CAPPCT</b>   | Cap %             | 4     | Percentage capacity used.                                                                                                                                                             |
| <b>CAPUSED</b>  | CapUsed           | 8     | Checkpoint capacity used in bytes.                                                                                                                                                    |
| <b>CAPPAGE</b>  | CapPage           | 8     | Checkpoint capacity in 4K pages.                                                                                                                                                      |
| <b>STRNAME</b>  | StrName           | 16    | Checkpoint CF structure name (if CF=YES).                                                                                                                                             |
| <b>DSNAME</b>   | DataSetName       | 44    | Checkpoint dataset name (if CF=NO).                                                                                                                                                   |
| <b>VOLSER</b>   | VolSer            | 6     | DASD volume serial (if CF=NO).                                                                                                                                                        |
| <b>JESNAME</b>  | JESName           | 4     | JES subsystem name.                                                                                                                                                                   |
| <b>SYSNAME</b>  | SysName           | 8     | System name where console is active.                                                                                                                                                  |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system.                                                                                                                                                        |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# Job Class Members panel (JCM)

The Job Class Members (JCM) panel is a secondary panel that shows the member, class, and counts associated with a JES class. You can use the fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the member name pattern.

## Action character

Access the JCM panel with the **I** action character from the JC panel. Note that the I action is not valid in the SDSF Java or z/OSMF environments.

## Panel title information

The title line contains the following information:

SDSF JOB CLASS MEMBERS    SYS1    CLASS K    LINE 1-12 (12)

                                 |                                   |                                   |

                                 System name you                                   |                                   Lines shown

                                 are logged on to                                   |                                   and total lines

                                                                   |                                  

                                                                   Class being                                  

                                                                   displayed

## JCM action characters

The action characters for JCM are shown in [Table 314 on page 340](#).

| Table 314. JCM Action Characters |                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                 | Description                                                                                         |
| ./                               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                | Show column values for row (ISPF only).                                                             |
| //                               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                          | Run a REXX exec.                                                                                    |
| =                                | Repeat previous action character or overtyping.                                                     |
| A                                | (JES2 only) Add member to job class.                                                                |
| D                                | Display information about a job class in the log.                                                   |
| DL                               | (JES2 only) Display long form of information about a job class in the log.                          |
| H                                | (JES2 only) Remove member from job class.                                                           |

## Columns on the JCM panel

The columns on the JCM panel are shown in [Table 315 on page 341](#). Some of the columns are different between JES versions. The columns are identified as JES2, JES3, or both in the column description in the table.

*Table 315. Columns on the JCM Panel*

| Column name    | Title (Displayed) | Width | Description                                                                                                                                                                                           |
|----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JCLIM</b>   | JCLim             | 7     | (JES2) Maximum number of jobs that can run in job class                                                                                                                                               |
| <b>JOBCL</b>   | Class             | 8     | (JES2) Job class                                                                                                                                                                                      |
| <b>MEMBER</b>  | MEMBER            | 8     | (JES2 and JES3) Member for controlling class. This is the fixed field. It is ignored if coded on an FLD statement. Control characters are translated to periods.                                      |
| <b>JOBCL</b>   | Class             | 8     | (JES2 and JES3) Controlling class name                                                                                                                                                                |
| <b>ENABLED</b> | Enabled           | 7     | (JES2) Class enabled on member                                                                                                                                                                        |
| <b>XEQCUR</b>  | XeqCur            | 7     | (JES2) Current number of jobs running in job class on member                                                                                                                                          |
| <b>XEQMAX</b>  | XeqMax            | 7     | (JES2) Maximum number of jobs that can run in job class on member                                                                                                                                     |
| <b>MLIMMAX</b> | MLimMax           | 7     | (JES3) Maximum number of jobs that can run in the controlling class                                                                                                                                   |
| <b>MLIMCUR</b> | MLimCur           | 7     | (JES3) Current number of jobs running in controlling class                                                                                                                                            |
| <b>SELMODE</b> | SelMode           | 8     | (JES3) Selection mode name                                                                                                                                                                            |
| <b>SYSNAME</b> | SysName           | 8     | (JES2 and JES3) MVS system name for member                                                                                                                                                            |
| <b>STATUS</b>  | MemberStatus      | 14    | (JES2) Member status                                                                                                                                                                                  |
| <b>ISFEND</b>  | .END              | 4     | (JES2 and JES3) End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Common Storage panel (JCS)

The Job Common Storage (JCS) panel allows you to view information about all allocated blocks of common storage for a selected job name.

## Action character

Access the JCS panel with the **JCS** action character from the AD, AS, CSR, and DA panels.

### Panel title information

The title line contains the following information:

| SDSF COMMON STORAGE | SYS1                                 | SYS2                              | 00AE                                  | TWUSR       | LINE 1-16                                      | (16)                                             |
|---------------------|--------------------------------------|-----------------------------------|---------------------------------------|-------------|------------------------------------------------|--------------------------------------------------|
|                     | System<br>you are<br>logged<br>on to |                                   |                                       | Job<br>name | Lines displayed<br>or first line<br>if 100,000 |                                                  |
|                     |                                      |                                   | Address<br>space ID<br>in hexadecimal |             |                                                | Total lines<br>(**** if more<br>than 99,999,999) |
|                     |                                      | System for<br>job being displayed |                                       |             |                                                |                                                  |

## JCS action characters

The action characters for JCS are shown in [Table 316 on page 342](#).

| <i>Table 316. JCS Action Characters</i> |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                        | Description                                                                                         |
| ./                                      | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                    | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                       | Show column values for row (ISPF only).                                                             |
| //                                      | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                 | Run a REXX exec.                                                                                    |
| =                                       | Repeat previous action character or overtype.                                                       |
| S                                       | Display the memory contents starting at the selected address.                                       |

## Columns on the JCS panel

The columns on the JCS panel are shown in [Table 317 on page 342](#).

| <i>Table 317. Columns on the JCS Panel</i> |                   |       |                                                                                            |
|--------------------------------------------|-------------------|-------|--------------------------------------------------------------------------------------------|
| Column name                                | Title (Displayed) | Width | Description                                                                                |
| ADDRESS                                    | ADDRESS           | 7     | Storage area address. This is the fixed field. It is ignored if coded on an FLD statement. |
| SIZE                                       | Size              | 10    | Block size                                                                                 |
| SP                                         | SP                | 3     | Subpool of storage                                                                         |
| KEY                                        | Key               | 3     | Storage key                                                                                |
| TYPE                                       | Type              | 4     | Storage type SQA/CSA                                                                       |
| ORPHAN                                     | Orphan            | 6     | Orphaned storage (Yes/No)                                                                  |
| JNAME                                      | JobName           | 8     | Requestor job                                                                              |
| JOBID                                      | JobID             | 8     | Job ID                                                                                     |
| ASID                                       | ASID              | 5     | Address space ID                                                                           |
| ASIDX                                      | ASIDX             | 5     | Address space ID in hexadecimal                                                            |
| GQE                                        | GQE               | 8     | Block address                                                                              |
| CAUB                                       | CAUB              | 8     | CAUB address                                                                               |
| ADATE                                      | AllocDate         | 19    | Storage allocation timestamp                                                               |
| ODATE                                      | OrphanDate        | 19    | Storage orphaned timestamp                                                                 |
| RETURN                                     | ReturnAddr        | 10    | Return address                                                                             |
| SYSNAME                                    | SysName           | 8     | System name                                                                                |
| SYSLEVEL                                   | SysLevel          | 25    | System level                                                                               |
| SIZEX                                      | SizeX             | 8     | Block size (hexadecimal)                                                                   |



Table 317. Columns on the JCS Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Data Set panel (JDS)

The Job Data Set (JDS) panel allows you to list and display information about the SYSOUT data sets for a job, started task, or TSO user.

### Action character

Access the JDS panel with the **?** action character from the DA, I, ST, H and O panels.

When the JDS panel is accessed from the DA, I, or ST panel, the values for all the columns are obtained from the spool data set. When the JDS panel is accessed from the H or O panel, the values for some columns are obtained from in-storage control blocks.

### Panel title information

The title line contains the following information:

|                                    |                  |                   |                                                           |
|------------------------------------|------------------|-------------------|-----------------------------------------------------------|
| <b>SDSF JOB DATA SET DISPLAY -</b> | <b>JOB JOB01</b> | <b>(T2145 )</b>   | <b>LINE 1-12 (12)</b>                                     |
|                                    |                  |                   |                                                           |
|                                    | Job name         | Job ID or work ID | Total lines<br>(**** if<br>more than<br>99,999,999)       |
|                                    |                  |                   |                                                           |
|                                    |                  |                   | Lines displayed<br>or first line<br>if 100,000<br>or more |

### JDS action characters

The action characters for JDS are shown in Table 318 on page 343.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| C                | Purge an output data set.                                                                           |
| H                | Hold an output data set.                                                                            |

Table 318. JDS Action Characters (continued)

| Action Character | Description                                                                                                                                                                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LA               | List RACF access. IBM Security Server (RACF) must be active.                                                                                                                                                                                                                                                                    |
| LP               | List RACF profiles. IBM Security Server (RACF) must be active.                                                                                                                                                                                                                                                                  |
| O                | Release an output data set.                                                                                                                                                                                                                                                                                                     |
| P                | Purge an output data set.                                                                                                                                                                                                                                                                                                       |
| S                | Display line-mode data set or data sets. You can add: <ul style="list-style-type: none"> <li>• B - Use ISPF Browse.</li> <li>• E - Use ISPF Edit.</li> <li>• J - Use ISPF Edit to edit the JCL.</li> </ul>                                                                                                                      |
| SA               | Allocate data set (REXX only).                                                                                                                                                                                                                                                                                                  |
| SJA              | Allocate job JCL data set (REXX only).                                                                                                                                                                                                                                                                                          |
| SV               | ISPF view.                                                                                                                                                                                                                                                                                                                      |
| V                | View a job's page-mode data sets using GDDM.                                                                                                                                                                                                                                                                                    |
| W                | Spin the data set (JES2 only). You must have accessed JDS from DA, I or ST. The job must be active and the data set must be open and spinable (see the W column).                                                                                                                                                               |
| X                | Print output data sets. You can add: <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC).</li> <li>• D - Display the Open Print Data Set panel (XD or XDC).</li> <li>• F - Display the Open Print File panel (XF or XFC).</li> <li>• S - Display the Open Print panel (XS or XSC).</li> </ul> |

## Columns on the JDS panel

The columns on the JDS panel are shown in [Table 319 on page 344](#).

Table 319. Columns on the JDS Panel

| Column name    | Title (Displayed) | Width | Description                                                                                                           | Delay |
|----------------|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------|-------|
| <b>DDNAME</b>  | DDNAME            | 8     | The ddname. This is the fixed field. It is ignored if coded on an FLD statement.                                      |       |
| <b>STEPN</b>   | StepName          | 8     | Job step name                                                                                                         |       |
| <b>PROCS</b>   | ProcStep          | 8     | Procedure step name                                                                                                   |       |
| <b>DSID</b>    | DSID              | 4     | Data set ID number                                                                                                    |       |
| <b>OWNERID</b> | Owner             | 8     | User ID of SYSIN/SYSOUT owner, or default values of ++++++++ or ????????, if user ID not defined to RACF 1.9 or later |       |
| <b>OCLASS</b>  | C                 | 1     | JES output class                                                                                                      |       |

Table 319. Columns on the JDS Panel (continued)

| Column name     | Title (Displayed) | Width                | Description                                                                                            | Delay |
|-----------------|-------------------|----------------------|--------------------------------------------------------------------------------------------------------|-------|
| <b>DESTN</b>    | Dest              | 18                   | JES print destination name                                                                             |       |
| <b>RECCNT</b>   | Rec-Cnt           | 7                    | Data set record count                                                                                  |       |
| <b>PAGECNT</b>  | Page-Cnt          | 8                    | Data set page count. Blanks if not page-mode data.                                                     |       |
| <b>BYTECNT</b>  | Byte-Cnt          | 8                    | Data set byte count                                                                                    |       |
| <b>COPYCNT</b>  | CC                | 2                    | Data set copy count                                                                                    |       |
| <b>DEST</b>     | Rmt               | 5                    | JES2 print routing. Remote number if routing is not local (JES2 only).                                 |       |
| <b>NODE</b>     | Node              | 5                    | JES2 print node (JES2 only)                                                                            |       |
| <b>OGNAME</b>   | O-Grp-N           | 8                    | Output group name (JES2 only)                                                                          |       |
| <b>SECLABEL</b> | SecLabel          | 8                    | Security label of data sets                                                                            |       |
| <b>PRMODE</b>   | PrMode            | 8                    | Data set process mode                                                                                  |       |
| <b>BURST</b>    | Burst             | 5                    | Data set burst indicator                                                                               |       |
| <b>DSDATE</b>   | CrDate-CrTime     | 19                   | Data set creation date and time, or, if ***** N/A *****, the creation date and time were not available |       |
| <b>FORMS</b>    | Forms             | 8                    | Output form number                                                                                     |       |
| <b>FCBID</b>    | FCB               | 4                    | Output FCB ID                                                                                          |       |
| <b>UCSID</b>    | UCS               | 4                    | Output UCS ID                                                                                          |       |
| <b>WTRID</b>    | Wtr               | 8                    | Output special writer ID or data set ID                                                                |       |
| <b>FLASHID</b>  | Flash             | 5                    | Output flash ID                                                                                        |       |
| <b>FLASHC</b>   | FlashC            | 6                    | Flash count                                                                                            |       |
| <b>SEGID</b>    | SegID             | 5                    | Data set segment number                                                                                |       |
| <b>DSNAME</b>   | DSName            | 44                   | Output data set name                                                                                   |       |
| <b>CHARS</b>    | Chars             | 20                   | Character arrangement table names                                                                      |       |
| <b>CPYMOD</b>   | CpyMod            | 6 (JES2)<br>8 (JES3) | Copy modification module name                                                                          |       |
| <b>CPYMODFT</b> | CpyModFT          | 8                    | Copy modification table reference character (JES2 only)                                                |       |
| <b>PAGEDEF</b>  | PageDef           | 7                    | Library member used by PSF to specify print characteristics such as page width                         | X     |
| <b>FORMDEF</b>  | FormDef           | 7                    | Library member used by PSF to specify print characteristics such as overlays                           | X     |
| <b>ODTITLE</b>  | Title             | 20                   | Report title to be printed on separator pages . This column can be expanded to 60.                     | X     |
| <b>ODNAME</b>   | Name              | 20                   | Name to be printed on separator pages . This column can be expanded to 60.                             | X     |

Table 319. Columns on the JDS Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                         | Delay |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>ODBLDG</b>   | Building          | 10    | Building identification to be printed on separator pages. This column can be expanded to 60.                                        | X     |
| <b>ODDEPT</b>   | Department        | 10    | Department identification to be printed on separator pages. This column can be expanded to 60.                                      | X     |
| <b>ODROOM</b>   | Room              | 10    | Room identification to be printed on separator pages. This column can be expanded to 60.                                            | X     |
| <b>ODADDR</b>   | Address-Line1     | 20    | Address to be printed on separator pages. This column can be expanded to 60.                                                        | X     |
| <b>ODADDR2</b>  | Address-Line2     | 20    | Output address line 2. This column can be expanded to 60.                                                                           | X     |
| <b>ODADDR3</b>  | Address-Line3     | 20    | Output address line 3. This column can be expanded to 60.                                                                           | X     |
| <b>ODADDR4</b>  | Address-Line4     | 20    | Output address line 4. This column can be expanded to 60.                                                                           | X     |
| <b>OUTBIN</b>   | OutBn             | 5     | Output bin                                                                                                                          | X     |
| <b>COMSETUP</b> | ComSetup          | 8     | Setup options for microfiche printers                                                                                               | X     |
| <b>FORMLEN</b>  | FormLen           | 10    | Form length                                                                                                                         | X     |
| <b>COLORMAP</b> | ColorMap          | 8     | AFP resource for the data set containing color translation information                                                              | X     |
| <b>INTRAY</b>   | ITy               | 3     | Paper source                                                                                                                        | X     |
| <b>OVERLAYB</b> | OverlayB          | 8     | Overlay for the back of each sheet                                                                                                  | X     |
| <b>OVERLAYF</b> | OverlayF          | 8     | Overlay for the front of each sheet                                                                                                 | X     |
| <b>OFFSETXB</b> | OffsetXB          | 13    | Offset in the x direction from the page origin for the back of each page                                                            | X     |
| <b>OFFSETXF</b> | OffsetXF          | 13    | Offset in the x direction from the page origin for the front of each page                                                           | X     |
| <b>OFFSEYB</b>  | OffsetYB          | 13    | Offset in the y direction from the page origin for the back of each page                                                            | X     |
| <b>OFFSEYF</b>  | OffsetYF          | 13    | Offset in the y direction from the page origin for the front of each page                                                           | X     |
| <b>PORTNO</b>   | Port              | 5     | Number of the TCP/IP port where the FSS connects to the printer                                                                     | X     |
| <b>ODNOTIFY</b> | Notify            | 17    | Print complete notification message                                                                                                 | X     |
| <b>ODUSRLIB</b> | UserLib           | 44    | Libraries containing Advanced Function Printing (AFP) resources to be used by Print Services (PSF) when processing SYSOUT data sets | X     |
| <b>USERDATA</b> | UserData1         | 60    | User data. Access values 2-16 by typing + alone in the column.                                                                      | X     |

Table 319. Columns on the JDS Panel (continued)

| Column name        | Title (Displayed) | Width | Description                                                                                                                                                                                 | Delay |
|--------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>AFPPARMS</b>    | AFPParms          | 54    | Names a data set that contains the parameters to be used by the AFPPrint Distributor                                                                                                        | X     |
| <b>QUEUE</b>       | Queue             | 5     | Names the JES3 queue the data set is on (TCP, BDT, HOLD, WTR) (JES3 only)                                                                                                                   |       |
| <b>SPIN</b>        | Spin              | 4     | Indicates whether this is a spin data set                                                                                                                                                   |       |
| <b>SELECT</b>      | Sel               | 3     | Indicates whether the data set is selectable                                                                                                                                                |       |
| <b>TP</b>          | TP                | 3     | Indicates whether SYSOUT was created by a transaction program.                                                                                                                              |       |
| <b>TPJNAME</b>     | TPJName           | 8     | Job name of the transaction program that created the data set                                                                                                                               |       |
| <b>TPJOBID</b>     | TPJobID           | 8     | Job ID of the transaction program that created the data set                                                                                                                                 |       |
| <b>TPACCT</b>      | TPAcct            | 8     | Account number of the transaction program                                                                                                                                                   |       |
| <b>TPTIMER</b>     | TRd-Time          | 8     | Start time for entry of the transaction program. In the SDSF task of z/OSMF, this is replaced by the TRd-DateTime column.                                                                   |       |
| <b>TPDATER</b>     | TRd-Date          | 8     | Start date for entry of the transaction program. In the SDSF task of z/OSMF, this is replaced by the TRd-DateTime column.                                                                   |       |
| <b>TPTIMEE</b>     | TSt-Time          | 8     | Start time for execution of the transaction program. In the SDSF task of z/OSMF, this is replaced by the TSt-DateTime column.                                                               |       |
| <b>TPDATEE</b>     | TSt-Date          | 8     | Start date for execution of the transaction program. In the SDSF task of z/OSMF, this is replaced by the TSt-DateTime column.                                                               |       |
| <b>RECFM</b>       | RecFm             | 5     | Record format                                                                                                                                                                               |       |
| <b>SPINNABLE</b>   | W                 | 3     | Indicates if the data set is open and spinnable (JES2 only)                                                                                                                                 |       |
| <b>OCOPYCNT</b>    | OCopyCnt          | 8     | Copy count specified with COPYCNT. Used by InfoPrint printers.                                                                                                                              | X     |
| <b>LRECL</b>       | LRecL             | 5     | Logical record length                                                                                                                                                                       |       |
| <b>TPDATETIMER</b> | TRd-DateTime      | 19    | Start date and time for entry of the transaction program. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the TRd-Date and TRd-Time columns.     |       |
| <b>TPDATETIMEE</b> | TSt-DateTime      | 19    | Start date and time for execution of the transaction program. This column is displayed only with the SDSF task of z/OSMF. It combines the information in the TSt-Date and TSt-Time columns. |       |
| <b>STEPNUM</b>     | StepNum           | 5     | Step number (JES2 only)                                                                                                                                                                     |       |

Table 319. Columns on the JDS Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           | Delay |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>OUTDISP</b>   | ODisp             | 5     | JES output disposition (JES3 only)                                                                                                                                                    |       |
| <b>COPYGRP</b>   | CopyGroups        | 32    | Number of copies of each page to be printed                                                                                                                                           |       |
| <b>COMPRESS</b>  | Compressed        | 10    | Compression status (yes or no, JES2 only)                                                                                                                                             |       |
| <b>ENCRYPT</b>   | Encrypted         | 9     | Encryption status (YES or NO, JES2 only)                                                                                                                                              |       |
| <b>KEYLABEL</b>  | KeyLabel          | 64    | Key-label for encryption (JES2 only)                                                                                                                                                  |       |
| <b>NCOMPSize</b> | NCompByteSize     | 13    | Data set byte size before compression (JES2 only)                                                                                                                                     |       |
| <b>COMPSize</b>  | CompByteSize      | 12    | Data set byte size after compression (JES2 only)                                                                                                                                      |       |
| <b>COMPPCT</b>   | Comp%             | 6     | Data set compression percentage (JES2 only)                                                                                                                                           |       |
| <b>AFPSTATS</b>  | AFPStats          | 8     | AFP statistics report option                                                                                                                                                          | X     |
| <b>RETAINS</b>   | RetainS           | 10    | Retain time for successful transmissions                                                                                                                                              | X     |
| <b>RETAINF</b>   | RetainF           | 10    | Retain time for unsuccessful transmissions                                                                                                                                            | X     |
| <b>RETRYL</b>    | RetryL            | 5     | Maximum number of retries                                                                                                                                                             | X     |
| <b>RETRYT</b>    | RetryT            | 10    | Time between retries                                                                                                                                                                  | X     |
| <b>PRINTO</b>    | Print-Options     | 16    | Entry in PrintWay options data set                                                                                                                                                    | X     |
| <b>PRINTQ</b>    | Print-Queue       | 60    | Print queue name                                                                                                                                                                      | X     |
| <b>IPDEST</b>    | IP-Destination    | 60    | IP address or TCP/IP name                                                                                                                                                             | X     |
| <b>MAILCC</b>    | EMailCC           | 60    | Email copy list                                                                                                                                                                       | X     |
| <b>MAILBCC</b>   | EMailBCC          | 60    | Email blind copy list                                                                                                                                                                 | X     |
| <b>MAILFROM</b>  | EMailFrom         | 60    | Email sender                                                                                                                                                                          | X     |
| <b>MAILTO</b>    | EMailTo           | 60    | Email recipient list                                                                                                                                                                  | X     |
| <b>MAILFILE</b>  | EMailFileName     | 60    | Email attachment file name                                                                                                                                                            | X     |
| <b>JNAME</b>     | JobName           | 8     | Job name                                                                                                                                                                              |       |
| <b>JOBID</b>     | JobID             | 8     | JES job ID                                                                                                                                                                            |       |
| <b>JOE</b>       | JOE               | 3     | JOE created for this data set (YES or NO) (JES2 only)                                                                                                                                 |       |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |       |

## Job Delay panel

The Job Delay panel allows you to view reasons why a job might be delayed. SDSF gathers information from WLM and from RMF, if it is available.

**Note:** RMF Monitor III must be active in order to see RMF data on the SDSF Job Delay panel.

## Action character

Access the Job Delay panel with the **JY** action character from the DA panel.

## Panel title information

The title line contains the following information:

```
SDSF JOB DELAY SY1 ASID 002B JSMITHE T0000036 LINES 1-12 (12)
 | | | | |
 ASID Job ID
 | |
 Job name Lines displayed
 |
 Total
 lines
```

## Job Delay action characters

The action characters for the Job Delay panel are shown in [Table 320 on page 349](#).

| Table 320. Job Delay Action Characters |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                       | Description                                                                                         |
| ./                                     | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                   | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                      | Show column values for row (ISPF only).                                                             |
| //                                     | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                | Run a REXX exec.                                                                                    |
| =                                      | Repeat previous action character or overtype.                                                       |

## Columns on the Job Delay panel

The columns on the Job Delay panel are shown in [Table 321 on page 349](#).

| Table 321. Columns on the Job Delay Panel |                   |       |                                                                                       |
|-------------------------------------------|-------------------|-------|---------------------------------------------------------------------------------------|
| Column name                               | Title (Displayed) | Width | Description                                                                           |
| DESC                                      | TYPE              | 32    | Delay description. It is the fixed field. It is ignored if coded on an FLD statement. |
| SOURCE                                    | Src               | 3     | Source of this sample information (WLM or RMF)                                        |
| SAMP                                      | Samples           | 7     | Number of samples in the interval that correspond to this delay                       |
| PERCENT                                   | Percent           | 7     | Percent of samples in the interval that correspond to this delay                      |
| INTERVAL                                  | Interval          | 8     | Sampling interval for WLM delays (milliseconds)                                       |
| MINTIME                                   | MinTime           | 8     | Length of RMF sampling interval in seconds                                            |
| FIRSTSMP                                  | First-Sample      | 19    | Time stamp of the first sample in the interval                                        |
| LASTSAMP                                  | Last-Sample       | 19    | Time stamp of the last sample in the interval                                         |

Table 321. Columns on the Job Delay Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Dependency panel

The Job Dependency panel allows you to view:

- For a selected job group, all of the dependencies within the group.
- For a selected job:
  - Jobs on which it is dependent.
  - Jobs that have dependencies on it.

The panel shows the conditions for each dependency.

### Action character

Access the Job Dependency panel with the **JP** action character from the JG panel (job groups), and the I and ST panels (jobs).

### Panel title information

The title line contains the following information:

```
SDSF DEPENDENCY DISPLAY - JOB MNTWTOR (JOB00491) LINE 0-0 (0)
 | |
 Job name Job ID
 | |
 | Lines shown
 | and total lines
```

### Job Dependency action characters

The action characters for the Job Dependency panel are shown in [Table 322 on page 350](#).

| Table 322. Job Dependency Panel Action Characters |                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                                  | Description                                                                                         |
| ./                                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                                 | Show column values for row (ISPF only).                                                             |
| //                                                | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                           | Run a REXX exec.                                                                                    |
| =                                                 | Repeat previous action character or overtype.                                                       |

### Columns on the Job Dependency panel

The columns on the Job Dependency panel are shown in [Table 323 on page 351](#).



Table 323. Columns on the Job Dependency Panel

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JOBNAME</b>   | JOBNAME           | 8     | Job name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                        |
| <b>JOBID</b>     | JobID             | 8     | Job ID                                                                                                                                                                                |
| <b>DEPEND</b>    | Dependency        | 10    | Type of dependency the job has with the job or jobset                                                                                                                                 |
| <b>DJOBNAME</b>  | DJobName          | 8     | Name of the job on which this job is dependent                                                                                                                                        |
| <b>DJOBID</b>    | DJobID            | 8     | ID of the job on which this job is dependent                                                                                                                                          |
| <b>TIME</b>      | Time              | 19    | Date and time associated with a HOLDUNTIL or STARTBY dependency                                                                                                                       |
| <b>WHEN</b>      | When              | 64    | Condition tested for the dependency                                                                                                                                                   |
| <b>ACTION</b>    | Action            | 7     | Action taken when the condition is met                                                                                                                                                |
| <b>OTHERWISE</b> | Otherwise         | 9     | Action taken when the condition is not met                                                                                                                                            |
| <b>STATUS</b>    | Status            | 8     | Status of the dependency                                                                                                                                                              |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job DDName panel (JDDN)

The Job DDName (JDDN) panel is a secondary panel that shows the data set allocations associated with a job. It is similar to the Job Device (JDD) panel, except that only allocations are shown. That is, there are no rows for TCP/IP connections or coupling facility structures.

You can use the **SRCH** command to find members within the data sets and use action characters to browse or edit the listed data sets. (Browse is not supported for JES, subsystem, or file system data sets.)

### Action character

Access the JDDN panel with **JDD** action character from the AD, DA, I, INIT, NS, and ST panels.

### Panel title information

The title line contains the following information:

```

SDSF JOB DDNAMES SYS1 SYS2 0004 TRACE LINE 1-17 (20)
 | | | | |
 |System | |Job ASID | |
 |you are | |(hex) | |
 |logged | | | |
 |on to | | | |
 | |System name | | |
 | |the job is |Job name | |
 | |active on | | |

```

## JDDN action characters

The action characters for JDDN are shown in [Table 324 on page 352](#).

| Table 324. JDDN Action Characters |                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                  | Description                                                                                         |
| ./                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                 | Show column values for row (ISPF only).                                                             |
| //                                | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                           | Run a REXX exec.                                                                                    |
| =                                 | Repeat previous action character or overtype.                                                       |
| LA                                | List RACF access. IBM Security Server (RACF) must be active.                                        |
| LP                                | List RACF profiles. IBM Security Server (RACF) must be active.                                      |
| LV                                | List data sets.                                                                                     |
| S                                 | Browse (ISFAFD only).                                                                               |
| SB                                | Display data set using ISPF browse.                                                                 |
| SE                                | Display data set using ISPF edit.                                                                   |
| SV                                | Display data set using ISPF view.                                                                   |

## Columns on the JDDN panel

The columns on the JDDN panel are shown in [Table 325 on page 352](#).

| Table 325. Columns on the JDDN Panel |                   |       |                                                                                  |
|--------------------------------------|-------------------|-------|----------------------------------------------------------------------------------|
| Column name                          | Title (Displayed) | Width | Description                                                                      |
| <b>NAME</b>                          | NAME              | 8     | The ddname. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SEQUENCE</b>                      | Seq               | 3     | DD allocation sequence.                                                          |
| <b>STATUS</b>                        | Status            | 8     | Status.                                                                          |
| <b>DSNAME</b>                        | DataSetName       | 54    | Data set name or path name.                                                      |
| <b>VOLSER</b>                        | VolSer            | 6     | Volume serial.                                                                   |

Table 325. Columns on the JDDN Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNIT</b>     | Unit              | 4     | Unit address. Only the first one is displayed. For subsystem data sets, displays the subsystem name. 'HFS' or 'SMS' may be displayed for applicable data sets as well.                |
| <b>UNITCT</b>   | UnitCt            | 6     | Unit count.                                                                                                                                                                           |
| <b>RECFM</b>    | RecFM             | 5     | Record format.                                                                                                                                                                        |
| <b>LRECL</b>    | LRecL             | 5     | Logical record length.                                                                                                                                                                |
| <b>BLKSIZE</b>  | BlkSize           | 7     | Block size.                                                                                                                                                                           |
| <b>DISP1</b>    | Disp1             | 5     | Disposition status (OLD, NEW, SHR, MOD).                                                                                                                                              |
| <b>DISP2</b>    | Disp2             | 7     | Normal termination disposition (KEEP, DELETE, PASS, CATLG, UNCATLG).                                                                                                                  |
| <b>DISP3</b>    | Disp3             | 7     | Abnormal termination disposition (KEEP, DELETE, PASS, CATLG, UNCATLG).                                                                                                                |
| <b>EXCPCT</b>   | EXCP-Cnt          | 8     | Number of requests.                                                                                                                                                                   |
| <b>OPEN</b>     | Open              | 5     | Open count.                                                                                                                                                                           |
| <b>DSORG</b>    | DSOrg             | 5     | Data set organization.                                                                                                                                                                |
| <b>SMS</b>      | SMS               | 3     | SMS indicator: YES if data set is SMS managed.                                                                                                                                        |
| <b>CONNECT</b>  | ConnectTime       | 11    | Device connect time in milliseconds.                                                                                                                                                  |
| <b>AVGCONN</b>  | AvgConnTime       | 11    | Average device connect time in milliseconds.                                                                                                                                          |
| <b>APF</b>      | APF               | 3     | APF indicator (yes, no, or blank if not a loadlib data set).                                                                                                                          |
| <b>SYSNAME</b>  | SysName           | 8     | MVS system name.                                                                                                                                                                      |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system.                                                                                                                                                        |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Device panel (JD)

The Job Device panel allows you to display information about devices that a job is using: DD allocations, coupling facility (CF) connections, and TCP/IP connections.

### Action character

Access the Job Device panel with the **JD** action character on the AS, DA, I, INIT, NS and ST panels.

### Panel title information

The title line contains the following information:

|      |     |         |                 |                                        |          |        |                 |                                                     |      |
|------|-----|---------|-----------------|----------------------------------------|----------|--------|-----------------|-----------------------------------------------------|------|
| SDSF | JOB | DEVICES | SYS1            | SYS2                                   | 0076     | TS2111 | LINE            | 1-14                                                | (20) |
|      |     |         | Local<br>system |                                        |          |        |                 |                                                     |      |
|      |     |         |                 | System name<br>the job is<br>active on |          |        | Lines displayed |                                                     |      |
|      |     |         |                 | Job ASID (hex)                         |          |        |                 | Total lines<br>(**** if<br>more than<br>99,999,999) |      |
|      |     |         |                 |                                        | Job name |        |                 |                                                     |      |

## JD action characters

The action characters for JD are shown in [Table 326 on page 354](#).

| Table 326. JD Action Characters |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ./                              | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| +(n)                            | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| /                               | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| //                              | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| %(exec)                         | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| =                               | Repeat previous action character or overtype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <i>Doption</i>                  | <p>Display information in the log. For CF type, you can add:</p> <ul style="list-style-type: none"> <li>• C - Display coupling facility.</li> <li>• P - Display XCF policy.</li> <li>• S - Display CF structure.</li> </ul> <p>For IP type, you can add:</p> <ul style="list-style-type: none"> <li>• A - Display all connection information.</li> <li>• AL - Display all connection information, long form.</li> <li>• B - Display byte count information.</li> <li>• BL - Display byte count information, long form.</li> <li>• N - Display connection.</li> <li>• NL - Display connection, long form.</li> <li>• R - Display routing information.</li> <li>• RD - Display routing information, detailed.</li> <li>• DRL - Display routing information, long form.</li> <li>• RDL - Display routing information, detailed, long form.</li> </ul> |

## Columns on the JD panel

The columns on the JD panel are shown in [Table 327 on page 355](#).

Table 327. Columns on the JD Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                   |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>     | NAME              | 16    | The ddname, CF connection name, or TCP/IP server name. This is the fixed field. It is ignored if coded on an FLD statement.                                                   |
| <b>SEQUENCE</b> | Seq               | 3     | DD allocation sequence (DDs only)                                                                                                                                             |
| <b>TYPE</b>     | Type              | 4     | Type of row item (DD, IP or CF)                                                                                                                                               |
| <b>STATUS</b>   | Status            | 8     | Current status                                                                                                                                                                |
| <b>DSNAME</b>   | DataSetName       | 54    | Data set name (or path name) (DDs only)                                                                                                                                       |
| <b>STRNAME</b>  | StrName           | 8     | CF structure name (CFs only)                                                                                                                                                  |
| <b>VOLSER</b>   | VolSer            | 6     | Volume serial or CF name (CFs and DDs only)                                                                                                                                   |
| <b>UNIT</b>     | Unit              | 4     | Unit address. Only the first one is displayed. For subsystem data sets, displays the subsystem name. 'DMY', 'HFS' or 'SMS' may be displayed for applicable data sets as well. |
| <b>UNITCT</b>   | UnitCt            | 6     | Unit count                                                                                                                                                                    |
| <b>IPADDR</b>   | IPAddr            | 24    | IP address. IP address and Port are the local address for connections with a status of 'Listen' and the remote address for other status values. (TCP/IP connections only)     |
| <b>PORT</b>     | Port              | 5     | Port. IP address and Port are the local address for connections with a status of 'Listen' and the remote address for other status values. (TCP/IP connections only)           |
| <b>RECFM</b>    | RecFM             | 5     | Record format                                                                                                                                                                 |
| <b>LRECL</b>    | LRecL             | 5     | Logical record length                                                                                                                                                         |
| <b>BLKSIZE</b>  | BlkSize           | 5     | Block size                                                                                                                                                                    |
| <b>INBUFSZ</b>  | InBufSz           | 5     | Receive buffer size (TCP/IP connections only)                                                                                                                                 |
| <b>OUTBUFSZ</b> | OutBufSz          | 8     | Send buffer size (TCP/IP connections only)                                                                                                                                    |
| <b>DISP1</b>    | Disp1             | 5     | Disposition status (OLD, NEW, SHR, MOD) (DDs only)                                                                                                                            |
| <b>DISP2</b>    | Disp2             | 5     | Normal termination disposition (KEEP, DELETE, PASS, CATLG, UNCATLG) (DDs only)                                                                                                |
| <b>DISP3</b>    | Disp3             | 5     | Abnormal termination disposition (KEEP, DELETE, PASS, CATLG, UNCATLG) (DDs only)                                                                                              |
| <b>EXCPCT</b>   | EXCP-Cnt          | 5     | Number of requests (e.g. EXCPs or bytes, for TCP/IP connections) (DDs only and TCP/IP connections only)                                                                       |
| <b>BYTESIN</b>  | BytesIn           | 8     | Number of bytes received on connection (TCP/IP connections only)                                                                                                              |
| <b>BYTESOUT</b> | BytesOut          | 8     | Number of bytes sent on connection (TCP/IP connections only)                                                                                                                  |
| <b>OPEN</b>     | Open              | 5     | Open count (DDs only)                                                                                                                                                         |
| <b>POLICY</b>   | Policy            | 8     | CF policy name (CFs only)                                                                                                                                                     |

Table 327. Columns on the JD Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STIME</b>    | Start-Time        | 19    | Connection start time (TCP/IP connections only)                                                                                                                                       |
| <b>LASTIME</b>  | Last-Time         | 19    | Connection last activity time (TCP/IP connections only)                                                                                                                               |
| <b>RESID</b>    | ResourceId        | 19    | Resource ID (TCP/IP connections only)                                                                                                                                                 |
| <b>STACK</b>    | Stack             | 8     | Stack name (TCP/IP connections only)                                                                                                                                                  |
| <b>APPL</b>     | Appl              | 8     | TELNET target application name (TCP/IP connections only)                                                                                                                              |
| <b>LUNAME</b>   | LUName            | 8     | TELNET client LU name (TCP/IP connections only)                                                                                                                                       |
| <b>CLIENT</b>   | Client            | 8     | TELNET client user ID (TCP/IP connections only)                                                                                                                                       |
| <b>APPLDATA</b> | ApplData          | 40    | Application data associated with the request (TCP/IP connections only)                                                                                                                |
| <b>DSORG</b>    | DSOrg             | 5     | Data set organization (requires SDSFAUX)                                                                                                                                              |
| <b>SMS</b>      | SMS               | 3     | SMS indicator: YES if data set is SMS managed (requires SDSFAUX)                                                                                                                      |
| <b>CONNECT</b>  | ConnectTime       | 11    | Device connect time in milliseconds (requires SDSFAUX)                                                                                                                                |
| <b>AVGCONN</b>  | AvgConnTime       | 11    | Average device connect time in milliseconds (requires SDSFAUX)                                                                                                                        |
| <b>CONDISP</b>  | ConDisp           | 6     | Connection disposition (keep or delete)                                                                                                                                               |
| <b>CONSTATE</b> | ConState          | 18    | Connection state (active, failed-persistent, disconnecting, failing)                                                                                                                  |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Memory panel (JM)

The JM panel allows you to view the system memory being used by a job.

### Action character

Access the JM panel with the **JM** action character on the AD, AS, DA, I, INIT, NS and ST panels.

### Panel title information

The title line contains the following information:

|             |            |               |                                      |                                      |             |               |                       |
|-------------|------------|---------------|--------------------------------------|--------------------------------------|-------------|---------------|-----------------------|
| <b>SDSF</b> | <b>JOB</b> | <b>MEMORY</b> | <b>SYS1</b>                          | <b>SYS2</b>                          | <b>0002</b> | <b>PCAUTH</b> | <b>LINE 1-14 (14)</b> |
|             |            |               | System<br>you are<br>logged<br>on to | System for<br>job being<br>displayed | ASID        | Job name      | Lines displayed       |
|             |            |               |                                      |                                      |             |               | Total lines           |

## JM action characters

The action characters for JM are shown in [Table 328 on page 357](#).

| Table 328. JM Action Characters |                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                | Description                                                                                                                                                                      |
| ./                              | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                              |
| +(n)                            | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                             |
| /                               | Show column values for row (ISPF only).                                                                                                                                          |
| //                              | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                           |
| %(exec)                         | Run a REXX exec.                                                                                                                                                                 |
| =                               | Repeat previous action character or overtyping.                                                                                                                                  |
| L                               | Show details about the subpool storage. Entering L next to a private storage subpool displays the USI panel. Entering L next to a common storage subpool displays the CSI panel. |

## Columns on the JM panel

The columns on the JM panel are shown in [Table 329 on page 357](#).

| Table 329. Columns on the JM Panel |                   |       |                                                                                                                      |
|------------------------------------|-------------------|-------|----------------------------------------------------------------------------------------------------------------------|
| Column name                        | Title (Displayed) | Width | Description                                                                                                          |
| <b>TYPE</b>                        | TYPE              | 8     | Type of storage (for example, Private or LSQA). This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SUBPOOL</b>                     | SP                | 3     | Subpool number                                                                                                       |
| <b>KEY</b>                         | Key               | 3     | Storage key                                                                                                          |
| <b>FIXED</b>                       | Fix               | 4     | The default page-fix status of the subpool (YES, NO, or DREF)                                                        |
| <b>FPROT</b>                       | FP                | 4     | The default fetch-protect status of the subpool (YES or NO)                                                          |
| <b>TOTAL</b>                       | Total             | 8     | Total amount of allocated storage with the specified characteristics (Type/SP/Key)                                   |
| <b>TOTAL24</b>                     | Total-24          | 8     | Total 24-bit storage                                                                                                 |
| <b>TOTAL31</b>                     | Total-31          | 8     | Total 31-bit storage                                                                                                 |
| <b>TOTAL64</b>                     | Total-64          | 8     | Total 64-bit storage                                                                                                 |
| <b>COUNT</b>                       | Count             | 8     | Total number of allocated storage segments with the specified characteristics                                        |
| <b>LARGEST</b>                     | LargestA          | 8     | Size of the largest segment of allocated storage with the specified storage characteristics                          |
| <b>LARGESTF</b>                    | LargestF          | 8     | Size of the largest segment of free storage with the specified storage characteristics                               |

Table 329. Columns on the JM Panel (continued)

| Column name   | Title (Displayed) | Width | Description                                                                                                                                                                           |
|---------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FRAG</b>   | Frag              | 8     | Total number of allocated and free storage segments                                                                                                                                   |
| <b>ISFEND</b> | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Memory Objects panel (JMO)

The Job Memory Objects (JMO) panel is a secondary panel that shows all memory objects allocated for an address space. Rows that represent fetch-protected objects are highlighted.

### Action character

Access the JMO panel with the **JMO** action character from the AD, AS, and DA panels.

### Panel title information

The title line contains the following information:

| SDSF | MEMORY | OBJECTS | SYS1                                 | SYS2                                 | 0002 | PCAUTH   | LINE               | 1-1 | (1)         |
|------|--------|---------|--------------------------------------|--------------------------------------|------|----------|--------------------|-----|-------------|
|      |        |         | System<br>you are<br>logged<br>on to | System<br>for job<br>being displayed | ASID | Job name | Lines<br>displayed |     | Total lines |

## JMO action characters

The action characters for JMO are shown in Table 330 on page 358.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |

### Columns on the JMO panel

The columns on the JMO panel are shown in Table 331 on page 359.



Table 331. Columns on the JMO Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>     | TYPE              | 7     | Memory object type (private or common). This is the fixed field. It is ignored if coded on an FLD statement. Control characters are translated to periods.                            |
| <b>START</b>    | Start-Address     | 17    | Starting address of object.                                                                                                                                                           |
| <b>END</b>      | End-Address       | 17    | Ending address of object.                                                                                                                                                             |
| <b>SIZE</b>     | Size              | 6     | Object size (bytes).                                                                                                                                                                  |
| <b>KEY</b>      | Key               | 3     | Storage key.                                                                                                                                                                          |
| <b>GUARD</b>    | Guard             | 10    | Guard area definition (none, default, or nondefault).                                                                                                                                 |
| <b>FPROT</b>    | FProt             | 5     | Fetch protected (yes or no).                                                                                                                                                          |
| <b>SHARED</b>   | Shared            | 6     | Shared (yes or no).                                                                                                                                                                   |
| <b>LARGE</b>    | Large             | 5     | Object backed by large pages (yes or no).                                                                                                                                             |
| <b>CRDATE</b>   | CrDate            | 19    | Object creation timestamp.                                                                                                                                                            |
| <b>CRRETADR</b> | PgmRetAddr        | 17    | Return address of program creating object.                                                                                                                                            |
| <b>JNAME</b>    | JobName           | 8     | Job name.                                                                                                                                                                             |
| <b>JOBID</b>    | JobID             | 8     | Job ID.                                                                                                                                                                               |
| <b>ASID</b>     | ASID              | 5     | Address space ID.                                                                                                                                                                     |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space ID (hexadecimal).                                                                                                                                                       |
| <b>SYSNAME</b>  | SysName           | 8     | System name.                                                                                                                                                                          |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system.                                                                                                                                                        |
| <b>REAL</b>     | Real              | 6     | Real frames backing object                                                                                                                                                            |
| <b>AUX</b>      | Aux               | 6     | Auxiliary storage slots backing object                                                                                                                                                |
| <b>RASN</b>     | RASN              | 4     | Creation requester ASID (hexadecimal)                                                                                                                                                 |
| <b>HASN</b>     | HASN              | 4     | Home ASID at creation (hexadecimal)                                                                                                                                                   |
| <b>PASN</b>     | PASN              | 4     | Primary ASID at creation (hexadecimal)                                                                                                                                                |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Modules panel

The Job Modules panel allows you to list the loaded modules for an address space.

### Action character

Access the Job Modules panel using the **JC** action character from the AS, AD, and DA panels.

### Panel title information

The title line contains the following information:



Table 333. Columns on the Job Modules Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RMODE</b>    | RM                | 2     | Residency mode (RMODE)                                                                                                                                                                |
| <b>APF</b>      | APF               | 3     | APF indicator (yes or no)                                                                                                                                                             |
| <b>RENT</b>     | Rent              | 4     | Reenterable indicator (yes or no)                                                                                                                                                     |
| <b>REUS</b>     | Reus              | 4     | Reusable indicator (yes or no)                                                                                                                                                        |
| <b>CDATTR</b>   | Attr              | 5     | CSVINFO attribute byte 1 in hexadecimal.                                                                                                                                              |
| <b>CDATTR2</b>  | Attr2             | 5     | CSVINFO attribute byte 2 in hexadecimal.                                                                                                                                              |
| <b>CDATTR3</b>  | Attr3             | 5     | CSVINFO attribute byte 3 in hexadecimal.                                                                                                                                              |
| <b>CDATTR4</b>  | Attr4             | 5     | CSVINFO attribute byte 4 in hexadecimal.                                                                                                                                              |
| <b>JNAME</b>    | JobName           | 8     | Job name                                                                                                                                                                              |
| <b>ASID</b>     | ASID              | 5     | Address space identifier                                                                                                                                                              |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier in hexadecimal                                                                                                                                               |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                                                             |
| <b>PATH</b>     | Path              | 127   | Path name for z/OS UNIX module                                                                                                                                                        |
| <b>DSNAME</b>   | Dataset           | 44    | Module fetch data set name                                                                                                                                                            |
| <b>VOLSER</b>   | Volser            | 6     | Module fetch volume serial                                                                                                                                                            |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Resource Limit panel

The Job Resource Limit panel displays resource limits and usage for a job. Use this panel to see a job's resource type and usage and the JES actions taken if limits are reached.

### Action character

Access the Job Resource Limit panel with the **JRL** action character on the ST panel.

### Panel title information

The title line contains the following information:

```

SDSF JOB RESOURCE LIMIT SYS1 JOBNAME JOBID LINE 1-2 (2)
 | | | |
 System you Job name | Lines
 are logged | displayed
 on to Job ID | Total
 lines

```

### Job Resource Limit panel action characters

The action characters for the Job Resource Limit panel are shown in [Table 334 on page 362](#).

Table 334. Job Resource Limit Panel Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtyping.                                                     |

## Columns on the Job Resource Limit panel

The columns on the Job Resource Limit panel are shown in Table 335 on page 362.

Table 335. Columns on the Job Resource Limit Panel

| Column name        | Title (Displayed) | Width | Description                                                                                                                                                                           |
|--------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>        | TYPE              | 8     | Resource type. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                   |
| <b>STATUS</b>      | Status            | 16    | Resource limit status for the job                                                                                                                                                     |
| <b>ACTION</b>      | Action            | 9     | Action taken when limit occurs                                                                                                                                                        |
| <b>LIMITPCT</b>    | Limit%            | 7     | Percent of total resource pool that can be used by this job                                                                                                                           |
| <b>USEPCT</b>      | Use%              | 7     | Use percentage                                                                                                                                                                        |
| <b>INUSE</b>       | Usage             | 8     | Number of resources used by this job                                                                                                                                                  |
| <b>LIMIT</b>       | Limit             | 8     | Maximum number of resources that can be used by this job                                                                                                                              |
| <b>DESCRIPT</b>    | Description       | 20    | Resource description                                                                                                                                                                  |
| <b>ACTIONVAL</b>   | ActionVal         | 9     | Current action value                                                                                                                                                                  |
| <b>LIMITPCTVAL</b> | LimitVal          | 8     | Current limit percent value                                                                                                                                                           |
| <b>ISFEND</b>      | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Step panel (JS)

The Job Step panel allows you to view information about the job steps for a job.

### Action character

Access the Job Step panel with the **JS** action character on the DA, H, I, O and ST panels.

### Panel title information

The title line contains the following information:

```
SDSF JOB STEP DISPLAY - JOB ABCPROC (STC06724) SMF LINE 1-1 (1)
```

|  | Job name | Job ID | Lines displayed | Total lines |
|--|----------|--------|-----------------|-------------|
|--|----------|--------|-----------------|-------------|

## JS action characters

The action characters for JS are shown in [Table 336 on page 363](#).

| Action Character | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                            |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| /                | Show column values for row (ISPF only).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| %(exec)          | Run a REXX exec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| =                | Repeat previous action character or overwrite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| S                | <p>Display the data sets associated with the step. You can add:</p> <ul style="list-style-type: none"> <li>• <i>n</i> - Browse data sets for the step starting with the relative data set number <i>n</i> from the top. If you enter <i>-n</i>, the display starts with the data set number <i>n</i> from the bottom.</li> <li>• B - Browse data sets using ISPF browse.</li> <li>• E - Edit data sets using ISPF edit.</li> <li>• J - Edit the JCL using ISPF edit.</li> <li>• V - View data sets using ISPF view.</li> </ul> |
| X                | <p>Print data sets. You can add:</p> <ul style="list-style-type: none"> <li>• C - Close the print file after printing (XC).</li> <li>• D - Display the Open Print Data Set panel (XD or XDC).</li> <li>• F - Display the Open Print File panel (XF or XFC).</li> <li>• S - Display the Open Print panel (XS or XSC).</li> </ul>                                                                                                                                                                                                |

## Columns on the JS panel

The columns on the JS panel are shown in Table 337 on page 363.

| Column name | Title (Displayed) | Width | Description             |
|-------------|-------------------|-------|-------------------------|
| STEPNAME    | STEPNAME          | 8     | Step name (fixed field) |

Table 337. Columns on the JS Panel (continued)

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                      |
|-----------------|-------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROCS</b>    | ProcStep          | 8     | Procedure step name                                                                                                                                              |
| <b>PGMNAME</b>  | Pgm-Name          | 8     | Program name                                                                                                                                                     |
| <b>RETCODE</b>  | Step-CC           | 10    | Step completion code                                                                                                                                             |
| <b>STEPNUM</b>  | StepNum           | 5     | Step number                                                                                                                                                      |
| <b>ABENDRSN</b> | AbendRsn          | 8     | Abend reason                                                                                                                                                     |
| <b>ELAPSED</b>  | Elapsed           | 11    | Elapsed time for the step (SMF)                                                                                                                                  |
| <b>CPUTIME</b>  | CPU-Time          | 11    | Total CPU time used by this step (SMF)                                                                                                                           |
| <b>SRBTIME</b>  | SRB-Time          | 11    | Total SRB time used by this step (SMF)                                                                                                                           |
| <b>EXCP</b>     | EXCP-Cnt          | 10    | Total EXCP count (SMF)                                                                                                                                           |
| <b>CONN</b>     | Conn              | 11    | Total device connect time (SMF)                                                                                                                                  |
| <b>SERV</b>     | Serv              | 10    | Total service units (SMF)                                                                                                                                        |
| <b>WORKLOAD</b> | Workload          | 8     | Workload name (SMF)                                                                                                                                              |
| <b>PAGE</b>     | Page              | 10    | Number of pages paged in/out from auxiliary storage (SMF)                                                                                                        |
| <b>SWAP</b>     | Swap              | 10    | Pages swapped in from auxiliary storage to central (SMF)                                                                                                         |
| <b>VIO</b>      | VIO               | 10    | Number of VIO page-ins and page-outs for this step (SMF)                                                                                                         |
| <b>SWAPS</b>    | Swaps             | 10    | Number of address space swap sequences (SMF)                                                                                                                     |
| <b>REGION</b>   | Region            | 8     | REGION for this step (SMF)                                                                                                                                       |
| <b>REGIONU</b>  | Rgn-Used          | 8     | Amount of private storage used (high-water mark) (SMF)                                                                                                           |
| <b>MEMLIMIT</b> | MemLimit          | 8     | MEMLIMIT for this step (SMF)                                                                                                                                     |
| <b>MEMLIMU</b>  | MLim-Used         | 9     | Amount of 64-bit private storage used (high-water mark) (SMF)                                                                                                    |
| <b>SYSNAME</b>  | SysName           | 8     | The system name of the system on which the step ran                                                                                                              |
| <b>BEGINTME</b> | Step-Begin        | 22    | Step Begin Time                                                                                                                                                  |
| <b>ENDTIME</b>  | Step-End          | 22    | Step End time                                                                                                                                                    |
| <b>ZIIPTIME</b> | zIIP-Time         | 9     | Total time spent on zIIP (SMF)                                                                                                                                   |
| <b>ZIIPCPTM</b> | zICP-Time         | 9     | Eligible zIIP time spent on CP (SMF)                                                                                                                             |
| <b>ZIIPNTIM</b> | zIIP-NTime        | 10    | Normalized zIIP time (SMF)                                                                                                                                       |
| <b>HICPUPCT</b> | HiCPU%            | 6     | Largest percentage of CPU time used by any task in this address space, rounded to the nearest integer, as reported by interval records associated with this step |
| <b>HICPUPGM</b> | HiCUPgm           | 8     | Program name associated with the HiCPU% value                                                                                                                    |

Table 337. Columns on the JS Panel (continued)

| Column name      | Title (Displayed) | Width | Description                                                                                                                                                                           |
|------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TIOTHWM</b>   | TIOTHWM           | 7     | High water mark for TIOT entries used (bytes, SMF).                                                                                                                                   |
| <b>TIOTUSED</b>  | TIOTUsed          | 8     | Current TIOT space used for entries (bytes). Applies only to interval records (SMF).                                                                                                  |
| <b>TIOTAVAIL</b> | TIOTAvail         | 9     | Size of TIOT available for entries (bytes, SMF).                                                                                                                                      |
| <b>ISFEND</b>    | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## Job Tasks panel

The Job Tasks panel allows you to list the TCBs for an address space.

## Action characters

Access the Job Tasks panel using the **JT** action character from the AD, AS, and DA panels.

### Panel title information

The title line contains the following information:

| SDSF | JOB | TASKS | SYS1                              | SYS2                                 | 0005 | DUMPSRV  | LINE 1-17 (21)                 |
|------|-----|-------|-----------------------------------|--------------------------------------|------|----------|--------------------------------|
|      |     |       | System you<br>are logged<br>on to |                                      |      | Job name | Lines shown<br>and total lines |
|      |     |       |                                   | Job                                  | ASID |          |                                |
|      |     |       |                                   | System<br>for job<br>being displayed |      |          |                                |

### Job Tasks action characters

The action characters for the Job Tasks panel are shown in Table 338 on page 365.

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| LU               | List user ID information. IBM Security Server (RACF) must be active.                                |

## Columns on the Job Tasks panel

The columns on the Job Tasks panel are shown in [Table 339 on page 366](#).

*Table 339. Columns on the Job Tasks Panel*

| Column name     | Title (Displayed) | Width | Description                                                                                                                                 |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TCBADDR</b>  | TCB               | 24    | TCB address formatted based on task level for as many levels that fit. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>RB</b>       | RB                | 8     | RB address                                                                                                                                  |
| <b>TYPE</b>     | Type              | 8     | RB type                                                                                                                                     |
| <b>PROGRAM</b>  | Program           | 8     | Module associated with TCB                                                                                                                  |
| <b>STORAGE</b>  | Storage           | 7     | TCB storage in bytes                                                                                                                        |
| <b>FREESTOR</b> | FreeStor          | 8     | TCB free storage in bytes                                                                                                                   |
| <b>CPUTIME</b>  | CPU-Time          | 10    | CPU time (seconds)                                                                                                                          |
| <b>TCBCMP</b>   | TCBCMP            | 8     | TCB completion code                                                                                                                         |
| <b>TCBFLAGS</b> | TCBFlags          | 8     | TCB flags (TCBFLGS1 through TCBFLGS8)                                                                                                       |
| <b>INTCOD</b>   | IntC              | 4     | Interrupt code from RBINTCOD                                                                                                                |
| <b>STCB</b>     | STCB              | 8     | Secondary TCB address                                                                                                                       |
| <b>XSB</b>      | XSB               | 8     | XSB address                                                                                                                                 |
| <b>OPSW</b>     | OPSW              | 17    | Old PSW from RB                                                                                                                             |
| <b>ASID</b>     | ASID              | 5     | Address space identifier                                                                                                                    |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier in hexadecimal                                                                                                     |
| <b>TCB</b>      | TCBPtr            | 8     | TCB address (hexadecimal)                                                                                                                   |
| <b>LEVEL</b>    | Level             | 5     | TCB or RB level                                                                                                                             |
| <b>JNAME</b>    | JobName           | 8     | Job name                                                                                                                                    |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                 |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of operating system                                                                                                                   |
| <b>ACEE</b>     | ACEE              | 8     | ACEE address                                                                                                                                |
| <b>USERID</b>   | Userid            | 8     | Userid from ACEE                                                                                                                            |
| <b>SPECIAL</b>  | Special           | 7     | RACF SPECIAL (YES or NO)                                                                                                                    |
| <b>OPER</b>     | Oper              | 4     | RACF OPERATIONS (YES or NO)                                                                                                                 |
| <b>PRIV</b>     | Priv              | 4     | Privileged userid (YES or NO)                                                                                                               |
| <b>TRUSTED</b>  | Trusted           | 7     | Trusted userid (YES or NO)                                                                                                                  |
| <b>AUDIT</b>    | Audit             | 5     | RACF AUDITOR (YES or NO)                                                                                                                    |
| <b>ROAUDIT</b>  | ROAudit           | 7     | RACF ROAUDIT (read only auditor) (YES or NO)                                                                                                |
| <b>OTCB</b>     | OTCB              | 8     | OTCB address                                                                                                                                |
| <b>POETYPE</b>  | POEType           | 8     | Port of entry type                                                                                                                          |
| <b>POENAME</b>  | POEName           | 8     | Port of entry name                                                                                                                          |



Table 339. Columns on the Job Tasks Panel (continued)

| Column name    | Title (Displayed) | Width | Description                                                                                                                                                                           |
|----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SESSION</b> | Session           | 32    | Session type                                                                                                                                                                          |
| <b>ISFEND</b>  | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

## MAP panel

When the M action is used against a row on the MEM display, the SDSF memory MAP panel displays to show the memory contents mapped to a known structure.

SDSF attempts to discover the structure by looking for an eye-catcher value in the first 16 bytes of the raw data.

### Action character

Access the MAP panel with the **M** action character on the MEM panel.

If M is typed on its own, SDSF shows a pop-up panel where you can choose from a list of known structures. Alternatively, you can directly enter the structure name on the MEM panel in the NP field after the action character. For example, enter MCVT for the CVT structure.

### Panel title information

The title line contains the following information:

|                                      |                                                         |                                 |                |                |                                                  |
|--------------------------------------|---------------------------------------------------------|---------------------------------|----------------|----------------|--------------------------------------------------|
| <b>SDSF MAP SYS1</b>                 | <b>SYS2</b>                                             | <b>MAPNAME</b>                  | <b>ASID</b>    | <b>JOBNAME</b> | <b>LINE 1-31 (931)</b>                           |
| System<br>you are<br>logged<br>on to |                                                         | Name of<br>mapping<br>structure |                | Job name       | Lines displayed<br>or first line<br>if 100,000   |
|                                      | Systems<br>displayed<br>(MVS value or<br>SYSNAME value) |                                 | ASID in<br>hex |                | Total lines<br>(**** if more<br>than 99,999,999) |

When the memory is shown in mapped structure format, the output display contains the following formatted lines:

- Line 1: Description, address, jobname, asid, jobid, sysname and syslevel
- Lines 2-n: Hex offset, field name, contents, address, hex contents (if contents is character format)

When SDSF detects a possible flag byte in the structure, it shows the bitmask setting alongside the contents and lists any known equated values. For example:

```
+0074 CVTDCB 9B B'10011011'
 EQUATED VALUES -- -----
 CVMVSE 80 B'10000000'
 CVT1SSS 40 B'01000000'
 CVT2SPS 20 B'00100000'
```

You can use point-and-shoot from within the mapped structure output by assigning MEMCSR to a PF key. Then place your cursor on an address value and press the PF key.

### MAP action characters

The action characters for the MAP panel are shown in [Table 340 on page 368](#).

Table 340. MAP Action Characters

| Action Character | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| ./               | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)             | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                | Show column values for row (ISPF only).                                                             |
| //               | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)          | Run a REXX exec.                                                                                    |
| =                | Repeat previous action character or overtype.                                                       |
| D                | Select this address as the 31-bit start address for a new memory browse.                            |
| G                | Select this address as the 64-bit start address for a new memory browse.                            |
| M                | Display a map of this address.                                                                      |

### Columns on the MAP panel

The columns on the MAP panel are shown in [Table 341 on page 368](#).

Table 341. Columns on the MAP Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>       | NAME              | 25    | The field name. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                                  |
| <b>CONTENT</b>    | Content           | 31    | Field content in display format                                                                                                                                                       |
| <b>OFFSET</b>     | Off               | 4     | Offset                                                                                                                                                                                |
| <b>KEY</b>        | Key               | 3     | The storage protection key                                                                                                                                                            |
| <b>FPROT</b>      | FProt             | 5     | Whether the storage is fetch protected                                                                                                                                                |
| <b>ADDRESS</b>    | Address           | 17    | Address                                                                                                                                                                               |
| <b>ALTCONTENT</b> | AltContent        | 64    | Character content in printable hexadecimal                                                                                                                                            |
| <b>ASCII</b>      | ASCII             | 32    | ASCII character translation of storage for the row                                                                                                                                    |
| <b>FULLNAME</b>   | FullName          | 48    | Full name of label                                                                                                                                                                    |
| <b>SYSNAME</b>    | SysName           | 8     | The system name where the memory contents were gathered                                                                                                                               |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>SUBOFFSET</b>  | SubOff            | 6     | Substructure offset                                                                                                                                                                   |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# Memory Chain panel (MEMC)

The Memory Chain panel displays storage for control block chains by traversing a designated next pointer within the control block.

## Action character

Access the MEMC panel with the **RC** action character on the MEM panel.

## Panel title information

The title line contains the following information:

|      |         |       |      |                |          |         |                  |
|------|---------|-------|------|----------------|----------|---------|------------------|
| SDSF | MEMORY  | CHAIN | SYS1 | SYS2           | 00C1     | IBMUSER | LINE 1-17 (256)  |
|      | System  |       |      |                | Address  |         | Lines displayed  |
|      | you are |       |      |                | space    |         | or first line    |
|      | logged  |       |      |                | ID       |         | if 100,000       |
|      | on to   |       |      | Systems        | Job name |         |                  |
|      |         |       |      | displayed      |          |         | Total lines      |
|      |         |       |      | (MVS value or  |          |         | (**** if more    |
|      |         |       |      | SYSNAME value) |          |         | than 99,999,999) |

## MEMC action characters

The action characters for MEMC are shown in [Table 342 on page 369](#).

| Table 342. MEMC Action Characters |                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                  | Description                                                                                                                                         |
| ./                                | Display the list of action characters in a pop-up, from which you can select an action (ISPF only).                                                 |
| +(n)                              | Expand the NP column; n is 4-20. Use RESET to reset.                                                                                                |
| /                                 | Show column values for row (ISPF only).                                                                                                             |
| //                                | Block repeat; type // on the first row and another // on the last row to be processed.                                                              |
| %(exec)                           | Run a REXX exec.                                                                                                                                    |
| =                                 | Repeat previous action character or overtype.                                                                                                       |
| S                                 | Select the current row as the start address for a new memory browse.                                                                                |
| D1                                | Select the first word in the Contents column as the 31-bit start address for a new memory browse.                                                   |
| D2                                | Select the second word in the Contents column as the 31-bit start address for a new memory browse.                                                  |
| D3                                | Select the third word in the Contents column as the 31-bit start address for a new memory browse.                                                   |
| D4                                | Select the fourth word in the Contents column as the 31-bit start address for a new memory browse.                                                  |
| G1                                | Select the first word in the Contents column as the 64-bit start address for a new memory browse (words 1 and 2 are used to construct the address). |

| Table 342. MEMC Action Characters (continued) |                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Character                              | Description                                                                                                                                          |
| G2                                            | Select the second word in the Contents column as the 64-bit start address for a new memory browse (words 2 and 3 are used to construct the address). |
| G3                                            | Select the third word in the Contents column as the 64-bit start address for a new memory browse (words 3 and 4 are used to construct the address).  |
| M                                             | Display a map of the memory structure in a report.                                                                                                   |

## Columns on the MEMC panel

The columns on the MEMC panel are shown in [Table 343 on page 370](#).

Table 343. Columns on the Memory Chain Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                           |
|-----------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADDRESS</b>  | ADDRESS           | 17    | Storage address. This is a fixed field. It is ignored if coded on an FLD statement or ISFFLD macro.                                                   |
| <b>SEQ</b>      | Seq               | 8     | Sequence number                                                                                                                                       |
| <b>CONTENTS</b> | Contents          | 35    | Memory contents in hexadecimal                                                                                                                        |
| <b>EBCDIC</b>   | EBCDIC            | 16    | EBCDIC character translation of storage for the row                                                                                                   |
| <b>KEY</b>      | Key               | 3     | Storage protection key                                                                                                                                |
| <b>FPROT</b>    | FProt             | 5     | Fetch protection                                                                                                                                      |
| <b>ASCII</b>    | ASCII             | 16    | ASCII character translation of storage for the row                                                                                                    |
| <b>JNAME</b>    | JobName           | 8     | Job name                                                                                                                                              |
| <b>ASID</b>     | ASID              | 5     | Address space identifier                                                                                                                              |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space identifier in hexadecimal                                                                                                               |
| <b>OFFSET</b>   | Off               | 4     | Offset to next pointer in hexadecimal                                                                                                                 |
| <b>LENGTH</b>   | Length            | 6     | Length of data displayed in row set                                                                                                                   |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## Output Data Set panel (S)

The Output Data Set panel allows you to browse data, such as a job's output data sets. It displays output formatted for a line-mode printer.

### Action character

Access the Output Data Set panel with the **S** action character from the DA, I, O, H, ST, JG, and JS panels.

When used to browse a job's output data set, the panel also displays the JES2 job log, JCL for the job, and any job-related messages.

To view output formatted for a page printer, use the V action character. To invoke ISPF Browse or Edit, use the SB and SE action characters.

To display just the JCL for the job, use the SJ action character. You can change and resubmit the JCL from the display; changes you make to the data are not saved. The job must have executed on your node or not yet executed. Jobs that have been off-loaded and re-loaded after execution are treated as jobs that are executed on another node. SJ is valid for jobs only.

**Panel title information**

The title line contains the following information:

SDSF OUTPUT DISPLAY

Job name or check name\*

JOB01

Job ID or work ID\*

JOB00004

JES output data set number. The form is Dnnnnnnn if the DSID is greater than 99999 (jobs only).\*

DSID

2

LINE

Relative line number within the data set

5

Columns of data being displayed

COLUMNS

02- 81

\*Note: The check name is truncated to fit. After a SNAPSHOT command, the job name, job ID and DSID are replaced by \*SNAP.

**Private Storage Subpool Details panel (USI)**

The Private Storage Subpool Details panel (USI) allows you to view private storage details for a selected subpool and key.

**Action character**

Access the USI panel with the L command from the Job Memory (JM) panel.

**Panel title information**

The title line contains the following information:

SDSF PRIVATE

Subpool

SP205

Key

K00

System you are logged on to

SYS1

SYS2

System for job being displayed

0004

ASID (hex)

TRACE

Job name

LINE 1-4 (4)

Lines displayed

Total lines

**USI action characters**

The action characters for USI are shown in [Table 344 on page 371](#).

| Table 344. USI Command Action Characters |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                         | Description                                                                                         |
| ./                                       | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                     | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                        | Show column values for row (ISPF only).                                                             |

| Table 344. USI Command Action Characters (continued) |                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------|
| Action Character                                     | Description                                                                            |
| //                                                   | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)                                              | Run a REXX exec.                                                                       |
| =                                                    | Repeat previous action character or overtyping.                                        |
| S                                                    | Select the current row as the start address for memory browse.                         |

## Columns on the USI panel

The columns on the USI panel are shown in Table 345 on page 372.

Table 345. Columns on the USI Panel

| Column name       | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADDRESS</b>    | ADDRESS           | 8     | Storage start address. This is the fixed field. It is ignored if coded on an FLD statement.                                                                                           |
| <b>ADDRESSEND</b> | AddrEnd           | 8     | Storage end address                                                                                                                                                                   |
| <b>LENGTH</b>     | Length            | 8     | Storage size                                                                                                                                                                          |
| <b>STATUS</b>     | Status            | 6     | Status of storage (ALLOC or FREE)                                                                                                                                                     |
| <b>SUBPOOL</b>    | SP                | 3     | Subpool of storage                                                                                                                                                                    |
| <b>KEY</b>        | Key               | 3     | Storage key                                                                                                                                                                           |
| <b>BLOCKADDR</b>  | BlockAddr         | 9     | Block address start                                                                                                                                                                   |
| <b>BLKSIZE</b>    | BlockSize         | 9     | Block size                                                                                                                                                                            |
| <b>PROGRAM</b>    | Program           | 8     | Module name that obtained it                                                                                                                                                          |
| <b>TYPE</b>       | Type              | 4     | Storage type (PVT or LSQA)                                                                                                                                                            |
| <b>SHARED</b>     | Shared            | 6     | Shared storage (yes or no)                                                                                                                                                            |
| <b>TCB</b>        | TCB               | 8     | TCB address                                                                                                                                                                           |
| <b>JNAME</b>      | JobName           | 8     | Job name that obtained it                                                                                                                                                             |
| <b>ASID</b>       | ASID              | 5     | Address space ID (decimal)                                                                                                                                                            |
| <b>ASIDX</b>      | ASIDX             | 5     | Address space ID (hexadecimal)                                                                                                                                                        |
| <b>SYSNAME</b>    | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | System level                                                                                                                                                                          |
| <b>EXECUTABLE</b> | Executable        | 10    | Executable memory (YES or NO)                                                                                                                                                         |
| <b>LENGTHX</b>    | LengthX           | 8     | Storage size (hexadecimal)                                                                                                                                                            |
| <b>ISFEND</b>     | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |

# Process Details panel

The Process Details panel shows attributes about a process. You can see the full invocation command on this panel, whereas the command shown on the PS panel is limited to 40 characters.

You can use SDSF browse commands such as FIND and PRINT on this panel.

## Action character

Access the Process Details panel with the **L** action character from the PS panel.

## Panel title information

The title line contains the following information:

SDSF PROCESS DETAILS

LINE 0 COLUMNS 02- 80  
|  
Top line number  
number shown  
|  
Column numbers  
shown

## Process Details display format

The data shown on the Process Details panel includes identifying information such as the process jobname, job ID, and owner, as shown in [Table 346 on page 373](#).

| Table 346. Process Details information |                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------|
| Field name                             | Description                                                                        |
| JOBNAME                                | The process jobname                                                                |
| JOBID                                  | The process job ID                                                                 |
| OWNER                                  | The process owner                                                                  |
| PROCESS ID                             | The process ID (PID)                                                               |
| PARENT PROCESS ID                      | The parent process ID (PPID)                                                       |
| SYSNAME                                | The system the process is running on                                               |
| SYSLEVEL                               | The system level                                                                   |
| COMMAND                                | The full invocation command for the process, wrapped to as many lines as necessary |

# RACF Access panel

The RACF Access panel shows the access lists entries for a specific RACF profile.

## Action character

Access the RACF Access panel with the **L** action character from the RACP and RACG panels.

## Panel title information

The title line contains the following information:

|                                   |                   |                                                                 |                                |
|-----------------------------------|-------------------|-----------------------------------------------------------------|--------------------------------|
| <b>SDSF RACF ACCESS SYS1</b>      | <b>class</b>      | <b>profile</b>                                                  | <b>LINE 1-15 (65)</b>          |
| System you<br>are logged<br>on to | The RACF<br>class | The profile<br>name (truncated<br>with "+" sign<br>if required) | Lines shown<br>and total lines |

## RACF Access panel action characters

The action characters for the RACF Access panel are shown in [Table 347 on page 374](#).

| Table 347. RACF Access Panel Action Characters |                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                               | Description                                                                                         |
| ./                                             | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                           | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                              | Show column values for row (ISPF only).                                                             |
| //                                             | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                        | Run a REXX exec.                                                                                    |
| =                                              | Repeat previous action character or overtype.                                                       |
| S                                              | Browse the RACF access list.                                                                        |

## Columns on the RACF Access panel

The columns on the RACF Access panel are shown in [Table 348 on page 374](#).

| Table 348. Columns on the RACF Access Panel |                   |       |                                                                                                                                                       |
|---------------------------------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column name                                 | Title (Displayed) | Width | Description                                                                                                                                           |
| <b>USERID</b>                               | ID                | 8     | The user ID or group name. This is the fixed field.                                                                                                   |
| <b>ACCESS</b>                               | Access            | 7     | Access level                                                                                                                                          |
| <b>COND</b>                                 | Cond              | 4     | Conditional access (YES or NO)                                                                                                                        |
| <b>WHENCLASS</b>                            | WhenClass         | 9     | Conditional class name                                                                                                                                |
| <b>WHENENTITY</b>                           | WhenEntity        | 127   | Conditional entity name                                                                                                                               |
| <b>CLASS</b>                                | Class             | 8     | Class name                                                                                                                                            |
| <b>PROFILE</b>                              | Profile           | 127   | Profile name                                                                                                                                          |
| <b>SYSNAME</b>                              | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>                             | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>                               | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

## RACF Browse panel

The RACF Browse panel shows detailed information from all segments of a RACF profile. The data is presented on a browse display that allows you to use SDSF browse commands such as FIND and PRINT.



## Action character

Access the RACF Profile Browse panel with the **S** action character from the RACP or RACU panels, or the **LU** action character from the JRU panel.

## Panel title information

The title line contains the following information:

```
SDSF RACF BROWSE profile
 |
 The RACF profile name

 LINE 0
 |
 Lines shown
 and total
 lines

 COLUMNS 02- 80
 |
 Column numbers
 shown
```

## RACF Browse display format

The format of the data shown in the RACF browse panel is as follows:

At the top of the displayed data, two lines describe the profile:

```
CLASS : class
PROFILE : profile
```

These are followed by individual segments defined in the profile. The fields in the segment are displayed on indented lines under the segment name.

```
SEGMENT : segment
 field : value
 field : value
```

Apart from the BASE segment, the segments vary depending on the RACF class of the profile. The fields displayed for each segment also vary, depending on the class. Fields that have profile data in arrays appear as repeating field and value pairs in list form.

Detailed information about the field names and values is documented in the *RACF Database templates* topic in the [z/OS Security Server RACF Macros and Interfaces](#) documentation.

Only users with the appropriate authority to the RACF program IRRSEQ00 (also known as *R\_admin*) can see RACF profile data. The security requirements for IRRSEQ00 are described in the [z/OS Security Server RACF Callable Services](#) documentation.

## RACF Connects panel

The RACF Connects panel lists all connected RACF groups for a user.

## Action character

Access the RACF Connects panel with the **L** action from the RACU panel against a profile in the USER class.

## Panel title information

The title line contains the following information:

|                           |             |                |                |                     |
|---------------------------|-------------|----------------|----------------|---------------------|
| <b>SDSF RACF CONNECTS</b> | <b>SYS1</b> | <b>USER</b>    | <b>profile</b> | <b>LINE 1-2 (2)</b> |
|                           |             |                |                |                     |
|                           | System ID   |                | The profile    | Lines displayed     |
|                           | of system   |                | name           | or first line       |
|                           | you are     |                | (user ID)      | if 100,000          |
|                           | logged      |                |                |                     |
|                           | on to       |                |                |                     |
|                           |             | The RACF class |                | Total lines         |

## RACF Connects action characters

The action characters for the RACF Connects panel are shown in [Table 349 on page 376](#).

| Table 349. RACF Connects Action Characters |                                                                                                     |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                           | Description                                                                                         |
| ./                                         | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                       | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                          | Show column values for row (ISPF only).                                                             |
| //                                         | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                    | Run a REXX exec.                                                                                    |
| =                                          | Repeat previous action character or overtype.                                                       |
| S                                          | Browse the RACF profile detailed information.                                                       |

## Columns on the RACF Connects panel

The columns on the RACF Connects panel are shown in [Table 350 on page 376](#).

| Table 350. Columns on the RACF Connects Panel |                   |       |                                                                                                                                                       |
|-----------------------------------------------|-------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column name                                   | Title (Displayed) | Width | Description                                                                                                                                           |
| <b>GROUP</b>                                  | GROUP             | 8     | The RACF group name. This is the fixed field.                                                                                                         |
| <b>SPECIAL</b>                                | Special           | 7     | Group special attribute (YES or NO)                                                                                                                   |
| <b>OPERATIONS</b>                             | Operations        | 10    | Group operations attribute (YES or NO)                                                                                                                |
| <b>AUDITOR</b>                                | Auditor           | 7     | Group auditor attribute (YES or NO)                                                                                                                   |
| <b>OWNERID</b>                                | Owner             | 8     | Connect owner                                                                                                                                         |
| <b>CONDATE</b>                                | Connected         | 10    | Date connected to group. Note that the time is normalized to noon UTC.                                                                                |
| <b>CLASS</b>                                  | Class             | 8     | Class name                                                                                                                                            |
| <b>PROFILE</b>                                | Profile           | 8     | Profile name                                                                                                                                          |
| <b>SYSNAME</b>                                | SysName           | 8     | System name                                                                                                                                           |
| <b>SYSLEVEL</b>                               | SysLevel          | 25    | Level of the operating system                                                                                                                         |
| <b>ISFEND</b>                                 | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the <b>ARRANGE</b> command. |

# UNIX Threads panel

The UNIX Threads panel displays z/OS UNIX thread information.

## Action character

Access the UNIX Threads panel with the **LT** action character from the Processes (PS) panel.

## Panel title information

The title line contains the following information:

SDSF UNIX THREADS

SYS1

SYS1

ASID

JOBNAME

LINE 1-1 (1)

System  
you are  
logged on  
to

Systems  
displayed

Job  
name

ASID in  
hexadecimal

Lines displayed

Total lines

## UNIX Threads action characters

The action characters for the UNIX Threads panel are shown in [Table 351 on page 377](#).

| Table 351. UNIX Threads Panel Action Characters |                                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Action Character                                | Description                                                                                         |
| ./                                              | Display the list of action characters in a pop-up, from which you can select an action (ISPF only). |
| +(n)                                            | Expand the NP column; n is 4-20. Use RESET to reset.                                                |
| /                                               | Show column values for row (ISPF only).                                                             |
| //                                              | Block repeat; type // on the first row and another // on the last row to be processed.              |
| %(exec)                                         | Run a REXX exec.                                                                                    |
| =                                               | Repeat previous action character or overtype.                                                       |
| D                                               | Displays UNIX thread information for the selected process ID.                                       |

## Columns on the UNIX Threads panel

The columns on the UNIX Threads panel are shown in [Table 352 on page 377](#).

| Table 352. Columns on the UNIX Threads Panel |                   |       |                                                      |
|----------------------------------------------|-------------------|-------|------------------------------------------------------|
| Column name                                  | Title (Displayed) | Width | Description                                          |
| THREADID                                     | THREADID          | 17    | Thread ID. This is the fixed field.                  |
| STATUS                                       | Status            | 16    | Status of the process                                |
| STATE                                        | State             | 5     | State of the process or most recently created thread |
| SYSCALL                                      | SysCall           | 7     | The current or last syscall request                  |
| CPU                                          | CPU-Time          | 8     | CPU time used                                        |
| WAITTIME                                     | WaitTime          | 12    | The total wait time for the process                  |



Table 353. VTOC Command Action Characters (continued)

| Action Character | Description                                                                            |
|------------------|----------------------------------------------------------------------------------------|
| /                | Show column values for row (ISPF only).                                                |
| //               | Block repeat; type // on the first row and another // on the last row to be processed. |
| %(exec)          | Run a REXX exec.                                                                       |
| =                | Repeat previous action character or overtype.                                          |
| SB               | ISPF browse data sets.                                                                 |
| SE               | ISPF edit data sets.                                                                   |
| SV               | ISPF view data sets.                                                                   |

### Columns on the VTOC panel

The columns on the VTOC panel are shown in [Table 354 on page 379](#).

Table 354. Columns on the VTOC Panel

| Column name     | Title (Displayed) | Width | Description                                                                                                                                                                           |
|-----------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DSNAME</b>   | DSNAME            | 44    | Data set name. This is the fixed field.                                                                                                                                               |
| <b>LOWCYL</b>   | LoCyl             | 8     | Low cylinder address (normalized)                                                                                                                                                     |
| <b>LOWTRK</b>   | LoTrk             | 5     | Low track address (normalized)                                                                                                                                                        |
| <b>HIGHCYL</b>  | HiCyl             | 8     | High cylinder address (normalized)                                                                                                                                                    |
| <b>HIGHTRK</b>  | HiTrk             | 5     | High track address (normalized)                                                                                                                                                       |
| <b>EXTSEQ</b>   | Ext               | 3     | Extent sequence number                                                                                                                                                                |
| <b>EXTENT</b>   | TotalExt          | 8     | Total extents                                                                                                                                                                         |
| <b>RELTRK</b>   | RelTrk            | 8     | Relative track address                                                                                                                                                                |
| <b>TOTALTRK</b> | TotalTrk          | 9     | Total tracks                                                                                                                                                                          |
| <b>DSORG</b>    | DSOrg             | 5     | Data set organization                                                                                                                                                                 |
| <b>RECFM</b>    | RecFm             | 5     | Record format                                                                                                                                                                         |
| <b>LRECL</b>    | LRecL             | 8     | Logical record length for data set                                                                                                                                                    |
| <b>BLKSIZE</b>  | BlkSize           | 8     | Block size for data set                                                                                                                                                               |
| <b>CRDATE</b>   | CrDate            | 8     | Data set creation date                                                                                                                                                                |
| <b>REFDATE</b>  | RefDate           | 8     | Data set last reference date                                                                                                                                                          |
| <b>VOLSER</b>   | Volser            | 6     | Volume serial                                                                                                                                                                         |
| <b>UNIT</b>     | Unit              | 4     | Unit address                                                                                                                                                                          |
| <b>SYSNAME</b>  | SysName           | 8     | System name                                                                                                                                                                           |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system                                                                                                                                                         |
| <b>ISFEND</b>   | .END              | 4     | End of list marker. All columns that appear after this column will be hidden. The title and width cannot be changed using the FLDENT statement or through the <b>ARRANGE</b> command. |



---

## Chapter 4. Using the SDSF Task Assistant

Basic management tasks for system data sets can be completed on some panels using the SDSF Task Assistant.

The SDSF Task Assistant provides actions and pop-up panels to enable data management processes that might otherwise be manual. For example, on the Link List Sets panel, you can add, remove, activate, or update data sets in the link list using standard SDSF action characters. The SDSF Task Assistant pop-up panels allow you to input data and confirm actions before issuing the underlying commands.

**Note:** You must be authorized to issue the actions and to access the required resources.

The following tasks can be accomplished with the SDSF Task Assistant:

- Managing APF list data sets
- Managing link list data sets

---

### Managing APF list data sets

To add and remove data sets from the APF list, start on the APF panel.

#### Procedure

1. Access the APF Display (APF).
2. In the NP column, enter NEW. Note that the data set is always added to the end of the APF list, regardless of where NEW is entered.
3. On the pop-up panel, enter the data set name and (optionally) the volume serial and press Enter.  
The new data set is added to the end of the APF list.

#### What to do next

To remove a data set from the APF list, enter REM next to the data set and confirm the removal on the pop-up.

---

### Managing link list sets

To create, manage, and activate link list sets, start on the Link List Sets panel.

## Adding and removing a new link list set

#### About this task

Follow these steps to add or remove a new link list set.

#### Procedure

1. Access the Link List Sets panel (LLS).
2. In the NP column, enter NEW.  
Note that the new link list set will initially contain the same data sets that are in the link list set where the NEW command was entered.
3. Enter a unique name for the link list set and press Enter.  
The new link list set is created.

## What to do next

To remove the link list set, enter REM and confirm the removal on the pop-up.

To edit the contents of the link list set, refer to the topics that follow.

## Adding and removing data sets from the new link list set

### About this task

After creating the link list set, add and remove existing data sets from the list on the LNK panel. You can only manage data sets for inactive link list sets.

### Procedure

1. On the LLS panel, enter L next to the link list set.
2. Enter NEW in the NP column. If the new data set must be placed after another data set in the link list, enter NEW in the NP column for the data set to precede the new data set.
3. On the pop-up panel, enter the data set name. The data set must already exist.
4. Specify where to add the data set in the link list using the pop-up choices.

Note that "Top" refers to the first data set after the system default data sets. System default data sets are:

- SYS1.LINKLIB
- SYS1.MIGLIB
- SYS1.CSSLIB
- SYS1.SIEALNKE
- SYS1.SIEAMIGE

## What to do next

To remove a data set from the list, enter REM next to the data set and press Enter.

## Updating a link list set

### About this task

You can update one or more active jobs to use a new link list set.



**Attention:** Use this action with caution. Updating active jobs might result in unintended consequences.

### Procedure

1. Access the Link List Sets panel (LLS).
2. Enter UPD next to a current link list set.
3. Add the job name or pattern as instructed on the pop-up and press Enter.

## Activating a link list set

### About this task

By default, active jobs are not affected when a new link list set is created. Activating a link list set makes it current for new address spaces.



## **Procedure**

1. Access the Link List Sets panel (LLS).
2. Enter ACT in the NP column for the link list set to activate and press Enter.  
If SET CONFIRM is ON, a confirmation pop-up is displayed.

## **Reviewing users of a link list set**

### **About this task**

To see the jobs and users of a link list, do the following:

### **Procedure**

1. Access the Link List Sets panel (LLS).
2. Enter DU in the NP column.
3. The list of users is displayed.



---

## Chapter 5. Using SDSF in batch

Using batch processing, you can issue often-repeated SDSF commands by creating a list of the commands as control statements. In the list, you specify the SDSF panel you wish to use and the operation you wish to perform on it.

The recommended approach is to invoke SDSF using the REXX programming language, which provides more power and flexibility. See [Chapter 6, “Using SDSF with the REXX programming language,”](#) on page 393.

**Important:** SDSF does not support batch processing for new commands, action characters, and panels that were implemented in SDSF 3.1 or later.

---

### Invoking SDSF in batch

Invoke SDSF on an EXEC statement with one of two program names:

- SDSF, which supports commands and action characters.
- ISFAFD, which supports commands, action characters, and overtyping of fields on tabular and other panels, such as the print panels.

For both programs, follow the EXEC statement with an ISFIN DD for batch input, and an ISFOUT DD for the batch output.

For example, a batch job to invoke program name SDSF might use these statements:

```
// EXEC PGM=SDSF
//ISFOUT DD SYSOUT=*
//ISFIN DD *
```

The DCB attributes for ISFIN are RECFM=FB, LRECL=80, and the BLKSIZE is any multiple of 80. The DCB attribute for ISFOUT is RECFM=FBA. The LRECL is the screen width + 1, and the BLKSIZE is any multiple of the LRECL.

To change screen width and depth of the batch output, use PARM='++xxxx,yyyy', following the program name, where xxxx is the depth of the screen (number of lines) and yyyy is the width (number of characters). For example, to set the depth to 32 and the width to 1000, use:

```
// EXEC PGM=SDSF,PARM='++32,1000'
//ISFOUT DD SYSOUT=*
//ISFIN DD *
```

If you do not use the PARM statement, the width defaults to 132 and the depth to 60. The maximum for width and depth is 9999.

If you intend to pass an operator command via the slash command (/), and that command includes embedded spaces or parentheses, you should enclose the full command text in double quotes.

A return code of 0016 when SDSF is invoked in batch indicates that the user could not be placed in any of the groups defined with ISFPARMS. See [z/OS SDSF Operation and Customization](#) for a description of ISFPARMS.

### Specifying that SDSF should process JES2

When you invoke SDSF with either program name SDSF or ISFAFD, SDSF determines whether to process JES2 or JES3. You can request that SDSF not do that determination and process JES2. For this purpose, use the alternate program name SDSF2 or ISFAFD2.

## Using program name SDSF

---

**Important:** SDSF does not support batch processing for new commands, action characters, and panels that were implemented in SDSF 3.1 or later.

### SDSF panels and commands

To access a panel and display its contents, use the panel command and ++ALL. For example, to select the H panel and display its contents, use:

```
H
++ALL
```

When ++ALL is specified, anything else on the card is ignored.

To move around on the panel, you can use scroll commands (RIGHT, LEFT, UP, DOWN, TOP, BOTTOM).

Use any SDSF command as you would enter it on the command line, following the syntax described in the online help. The maximum length of a command is 42 characters: only the first 42 characters of each record in ISFIN will be processed. Note that you cannot use commands that require ISPF, such as commands that display pop-ups.

### Action characters

To use an action character, code ++*action-character* in your batch job.

To prevent a confirmation pop-up from being displayed for destructive action characters, use the SET CONFIRM OFF command.

You must do a successful FIND prior to issuing an action character. This protects you from issuing an action character against the wrong row.

To allow for an unsuccessful FIND, you should follow each action character with a RESET command, which clears pending action characters. For example, to find job jobxyz on the O panel, browse it with the S action character and issue a RESET in case the job is not found, you would use:

```
O
FIND 'jobxyz'
++S
RESET
```

## Using program name ISFAFD

---

**Important:** SDSF does not support batch processing for new commands, action characters, and panels that were implemented in SDSF 3.1 or later.

When you invoke SDSF with program name ISFAFD, it works the same as when you invoke it with program name SDSF, with these differences:

- Action characters do not require a successful FIND
- Overtypes and PF keys are supported
- The contents of a panel are not updated until you explicitly refresh the panel. You do this with the AFD REFRESH command.
- Attribute bytes (used to define characteristics of fields such as color and conditioning for input) are present on the SDSF panels. These attribute bytes are translated out when you invoke SDSF with program name SDSF.

A batch job to invoke program name ISFAD might use these statements:

```
// EXEC PGM=ISFAD
//ISFOUT DD SYSOUT=*
//ISFIN DD *
```

For additional information, see the topic [“Invoking SDSF in batch”](#) on page 385.

## Commands

With program name ISFAFD, you can use the SDSF commands as you would with program name SDSF. You can also use the AFD command, which is described on page “[AFD command](#)” on [page 387](#).

## AFD command

Use the AFD command when running SDSF in batch mode with program name ISFAFD.

The AFD command is entered using the //ISFIN input data set, along with any other SDSF commands as described in “Using program name SDSF” on page 386.

The syntax of the command is as follows:

**AFD** — LOCATE — BLK — *block-id*

TOD — *time-of-day*

► AFD — LOGSTAMP — ON — ◀

OFF

►► AFD — QUERY DS ◄◄

➡ AFD — QUERY CODEPAGE ➡

➡ AFD — QUERY COLUMNS ➡

▶▶ AFD — REFRESH ◀◀

➡ AFD — WTOR — ON — ➡  
OFF

➡ AFD — NP — LONG — ❌  
                                SHORT

▶ AFD — .END — DELETE —▶

## LOGSTAMP

controls the addition of a log stamp prefix for each record in the OPERLOG or SYSLOG when printing the log with SDSF's PRINT function. The logstamp is added only when printing to a ddname (for example, PRINT FILE). LOGSTAMP ON causes the log stamp prefix to be added; LOGSTAMP OFF causes the log stamp prefix to not be added. The log stamp of the OPERLOG is a 32-byte prefix. The log stamp varies with the type of log being processed, that is, OPERLOG or SYSLOG.

The log stamp is described in Table 355 on page 388.

Table 355. Contents of the Log Stamp

| Word | SYSLOG                                     | OPERLOG                                                                                |
|------|--------------------------------------------|----------------------------------------------------------------------------------------|
| 1-2  | STCKE for record                           | Local TOD value returned by IXGBRWSE                                                   |
| 3-4  | Job key and data set key                   | Block ID returned by IXGBRWSE                                                          |
| 5    | Relative record number within data set     | Relative record number within block                                                    |
| 6    | 1. Byte 1: level<br>2. Bytes 2-4: reserved | 1. Byte 1: level<br>2. Bytes 2-4: reserved                                             |
| 7    | Reserved                                   | 1. Byte 1: Control<br>2. Byte 2: Color<br>3. Byte 3: Highlight<br>4. Byte 4: Intensity |
| 8    | Reserved                                   | Reserved                                                                               |

#### **LOCATE BLK *block-id***

scrolls the OPERLOG to the first record in the log block identified by *block-id*. *block-id* is 16 hexadecimal digits.

#### **LOCATE TOD *time-of-day***

scrolls the OPERLOG to the first record for the time of day identified by *time-of-day*. *time-of-day* is 16 hexadecimal digits.

#### **QUERY DS**

displays information about the current data set or log on the message line. The information includes record count, record length, and carriage control. For SYSLOG and OPERLOG, the information also includes the length of the logstamp. (The record count is not displayed for the SYSLOG or OPERLOG panel. In cases where the record length is not available to SDSF, SDSF uses the maximum record length for the job plus 1, or if that is unknown, the screen width plus 1.) This command is valid only on browse panels.

#### **QUERY CODEPAGE**

displays the code page that is in use on the message line. If the installation has defined its own code page in ISFPARMS, rather than naming one in the ISFTR macro or TRTAB statement, the code page value is displayed as N/A.

#### **QUERY COLUMNS**

displays information about the columns on the current tabular panel, using the message lines. The format is as follows:

- Overtimeable columns: 'title'=(O,length)
- Overtimeable columns with related columns: 'title'=(O,length, number-of-values)
- Non-overtimeable columns: 'title'=(N)

#### **REFRESH**

requests that SDSF refresh the current display.

#### **WTOR**

controls the display of WTORs at the end of the Log panel. WTOR ON turns on the display of WTORs on the Log panel. SDSF shows those WTORs defined for the user by the ACTION command or the ACTION parameter of ISFPARMS. WTOR OFF turns off the display of WTORs on the Log panel.

#### **NP**

controls the width of the NP column.

NP LONG sets the NP column on all tabular panels to the extended width, which is 10 characters on the PR display and the PUN display, and 5 characters on all other displays.

NP SHORT sets the NP column to the standard width.

### **.END**

assigns a label, .END, to the current top line of the SYSLOG or OPERLOG. .END overrides the ending line value when printing the SYSLOG or OPERLOG with the PRINT command.

Use the DELETE keyword to delete a previously assigned label.

**Note:** You can also temporarily extend the NP column on a single tabular panel by typing a + in the NP column. Then, to reset the NP column, use the RESET command.

### **Examples**

- AFD WTOR OFF

This command turns off the display of WTORs at the end of the Log panel.

- AFD QUERY DS

Entered when the current panel is the SYSLOG, this command displays information about the SYSLOG on the message line, for example:

```
AFD QUERY DS LRECL=130,LSLEN=32,CCTL=NONE
```

- AFD LOCATE BLK 1A45B3218C32D862

This command scrolls the OPERLOG panel to the first record for the log block with an ID of X'1A45B3218C32D862'.

- AFD NP LONG

This command sets the width of the NP column on all SDSF tabular displays to the extended width.

- AFD QUERY CODEPAGE

This command displays the code page in use on the message line, for example:

```
AFD QUERY CODEPAGE=CP00037
```

- AFD .END

This command assigns the label .END to the current top line of the SYSLOG or OPERLOG. To use this label with PRINT, you could then:

1. Scroll the log so that the current top line is the line with which you want to begin printing.
2. Issue PRINT \* 99999999

SDSF would then print from the current top line to the line that was previously marked with .END.

## **PF keys**

With program name ISFAFD, you can use selected PF keys by coding ++AFD PFxx, where xx is the 2-digit PF key number. For example, to perform a repeat-find, you would code:

```
++AFD PF05
```

The PF keys you can use are:

### **PF03**

End the current panel

### **PF05**

Repeat the previous FIND

## **Action characters**

The syntax for action characters is the same as for program name SDSF: see [“Action characters” on page 386](#). However, because a successful FIND is not required, the action character will always be issued

against the top row on the panel. To avoid issuing action characters against the wrong row, you might want to first set filters to be sure that only the appropriate row or rows is displayed.

The block action character (/) is not valid with program name ISFAFD.

## Overtypable fields

You can overwrite columns on tabular panels and on other SDSF panels, such as panels for printing.

### Overtyping columns on tabular panels

You can overwrite columns on any tabular panel. The syntax for overtyping columns on tabular panels is the column title followed by = and the new value, all within <>. Enclose the column title and value in single quotation marks.

For example, on the O display, to change the forms for job JFROSTA to STD, change the destination to KGNVMC.JFROST, and refresh the screen, you would use:

```
O
FIND 'JFROSTA'
++<'FORM'='STD'><'DEST'='KGNVMC.JFROST'>
AFD REFRESH
```

You can abbreviate column titles to the shortest title that is unique for the display. If you want the overtypes to be continued on the next card, use a trailing comma.

Where it is valid when using SDSF interactively, you can combine an action character and overtypes; the action character must precede the overtypes. For example, on the H display, to release job SMOSES with the O action character, change the class to A, and refresh the screen, you would use:

```
H
FIND 'SMOSES'
++O<'C'='A'>
AFD REFRESH
```

You can overwrite output descriptors on the JDS panel. The JDS panel supports only the first value for output descriptors with multiple values (such as ADDRESS and NOTIFY). To modify the other values for these fields, overwrite the first value with a +, then specify the values on the Overtyping Extension pop-up. To erase an output descriptor on the JDS panel, type a comma (,) in the field.

### Overtyping fields on other panels

You can overwrite fields on any other panels that do not require ISPF, such as the print panels, the system command extension pop-up, and the Overtyping Extension pop-up.

The syntax for providing values on other types of SDSF panels is similar to the syntax for overtyping fields on tabular panels, except that no column name is used, only =*value*, within <>. The values are positional; in other words, the first value supplied goes into the first field on the panel, the second value supplied goes into the second field on the panel, and so on. On panels with a command line (for example, the print panels), the command line is not counted as an input field.

**Note:** When processing overtypes on other panels, the order of the fields on the panel may change from release to release. As a result, your input may need to be modified to support the new panel format.

**Note:** The recommended approach is to invoke SDSF using the REXX programming language, which provides more power and flexibility. See [Chapter 6, “Using SDSF with the REXX programming language,” on page 393](#).

Use ++AFD END or ++AFD PF03 to end processing of the panel.

For example, on the Open Print panel, to specify H as the class and 3 as the number of copies (the first and second fields) you would use:



```
PRINT S
++<='H'><='3'>
++AFD PF03
```

To skip a field on the panel, specify < > with no enclosed text. For example, on the Open Print panel, to specify H as the class and STD as the forms (the first and third fields), you would use:

```
PRINT S
++<='H'>< ><='STD'>
++AFD PF03
```

To blank a field, specify <=''> (a blank enclosed in single quotation marks).

When entering a data set name on the Open Print Data Set panel, enclose it in three sets of single quotes to indicate that it is a fully qualified name. Enclose the data set name in one set of single quotes if you want the TSO prefix to be added.

## Notes on using program name ISFAFD

- You can use a trailing comma as a continuation character, so that you can continue overtypes across several cards. The continuation character is required when overtypes that must be processed together (for example, values on a print panel) are specified on multiple cards. To enter a data set name, member name, and disposition on the Open Print Data Set panel, you could use:

```
PRINT D
++<='droyek.sdsfdata.december'>,
<='report'>,
<='old'>
++AFD PF03
```

- You can include blank lines, or comments, enclosed in /\* \*/ on separate lines; they will be ignored when the input is processed.
- To avoid an error message (AFD CURSOR *row,column*) set SET CURSOR to OFF, so that the cursor always returns to the command line.

## Security and SDSF in batch

---

To protect use of SDSF in batch, you control which group a user is assigned to through SAF.

### Using SAF

To use SAF for determining group membership, you assign a name to the group. SDSF then checks the SAF resource GROUP.*group-name.server-name*. This is explained in detail in [z/OS SDSF Operation and Customization](#).



## Chapter 6. Using SDSF with the REXX programming language

This topic describes how to access SDSF data and function with the REXX programming language, and how to protect the use of SDSF through REXX.

Using SDSF with REXX provides a simpler and more powerful alternative to using SDSF in batch, which is described in [Chapter 5, “Using SDSF in batch,”](#) on page 385.

[Table 356 on page 393](#) outlines how to access SDSF function with REXX.

*Table 356. Using SDSF with REXX*

| To:                                                                       | Use:                                      | For more information:                                                                     |
|---------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Add and delete the SDSF host command environment</b>                   | isfcalls()                                | <a href="#">“Adding the SDSF host command environment with ISFCALLS” on page 399</a>      |
| <b>Issue SDSF commands to access tabular panels and other information</b> | ISFEXEC                                   | <a href="#">“Issuing commands with ISFEXEC” on page 400</a>                               |
| <b>Issue action characters and overwrite columns</b>                      | ISFACT                                    | <a href="#">“Issuing action characters and modifying columns with ISFACT” on page 408</a> |
| <b>Browse output</b>                                                      | ISFBROWSE or ISFACT and special variables | <a href="#">“Browsing output” on page 414</a>                                             |
| <b>Print output</b>                                                       | ISFACT and special variables              | <a href="#">“Printing output” on page 419</a>                                             |
| <b>Browse the SYSLOG and OPERLOG</b>                                      | ISFLOG                                    | <a href="#">“Browsing the system log with ISFLOG” on page 423</a>                         |
| <b>Issue system commands</b>                                              | ISFSLASH                                  | <a href="#">“Issuing system commands with ISFSLASH” on page 428</a>                       |
| <b>Issue SDSF commands for filtering and options, and check messages</b>  | Special REXX variables                    | <a href="#">“Using special variables to invoke SDSF function” on page 430</a>             |
| <b>Drop specified special variables</b>                                   | isfreset()                                | <a href="#">“Dropping special variables with ISFRESET” on page 433</a>                    |
| <b>Query the environment</b>                                              | isfquery()                                | <a href="#">“Invoking a REXX exec with an action character” on page 434</a>               |
| <b>Invoke an exec with an action character</b>                            | % action character                        | <a href="#">“Invoking a REXX exec with an action character” on page 434</a>               |
| <b>Generate a REXX exec for the current panel</b>                         | RGEN command                              | <a href="#">“Generating an exec using RGEN” on page 395</a>                               |

For examples of REXX execs, refer to [“Examples of REXX execs” on page 455](#).

You must be authorized to use SDSF with REXX and you must be authorized to the SDSF functions that you invoke from REXX. In some cases, invoking an SDSF function from REXX when you are not authorized to the function will cause the exec to fail and the invocation of SDSF to end.

System programmers should be sure to define SAF group membership so that SDSF users have the proper authorization when invoking SDSF with REXX. For more information, see [“Security and REXX” on page 484](#)

## Other sources of information

---

In addition to this information, you may want to refer to these other sources for information about using REXX with SDSF:

- REXXHELP. Type this command (or REXXH for short) on any command line when using SDSF under ISPF. In addition to examples and usage information, the online help for REXX also includes links to descriptions of commands, action characters and overttypable columns and column values, which is not included in this information.

To search SDSF's help, including the help for REXX, use the SEARCH command. You can type SEARCH followed by up to four words on the SDSF command line when using SDSF under ISPF.

If you are not already familiar with SDSF, you should begin with the SDSF help.

- The IBM Redbooks publication [Implementing REXX Support in SDSF](#), SG24-7419-00. This Redbooks publication includes more complete and sophisticated examples than those in this information. The following is a brief table of contents:
  - Chapter 1. Issuing a system command
  - Chapter 2. Copying SYSOUT to a PDS
  - Chapter 3. Bulk job update processor
  - Chapter 4. SDSF support for the COBOL language
  - Chapter 5. Searching for a message in SYSLOG
  - Chapter 6. Viewing SYSLOG
  - Chapter 7. Reviewing execution of a job
  - Chapter 8. Remote control from other systems
  - Chapter 9. JOB schedule and control
  - Chapter 10. SDSF data in graphics
  - Chapter 11. Extended uses
  - Appendix A. REXX variables for SDSF host commands
  - Appendix B. Additional material

## Programming practices

---

Be aware that many of the things you work with in a REXX exec, such as the list of columns on an SDSF panel, the contents of the title line of a panel, and the contents of responses to SDSF commands such as WHO, may change over time. You should design your REXX execs to minimize the impact of those changes. For example, rather than making assumptions about the contents of a panel, you can query special REXX variables that SDSF provides.

Following these guidelines for variable names will reduce the potential for conflicts between REXX variables you create and special and column variables used by SDSF:

- Do not use variable names that begin with ISF or SDSF. SDSF reserves those prefixes for the names of special REXX variables.
- Use the PREFIX option of the ISFEXEC and ISFACT commands to force unique variable names. See the description of options in [“Issuing panel commands with ISFEXEC” on page 401](#) for more information.
- Isolate SDSF environment calls to a REXX procedure to limit the scope of the variable names.
- When referencing a panel command that contains embedded blanks or special characters (such as on ISFEXEC and ISFACT), enclose the command in single quotes. When referencing the PARM panel on

ISFACT, enclose the panel name in single quotes so that it is not interpreted as the PARM keyword of ISFACT.

Remember that SDSF may add special variables and columns with a new release or service, so that even if you do not currently have a conflict with variable names, one could occur in the future. To reduce your risk, always specify the columns to be returned using the ISFCOLS special variable.

## SDSF/REXX debug mode

---

SDSF provides several facilities to assist you in debugging SDSF/REXX scripts. In verbose mode, messages are issued for each REXX variable that is retrieved or set. The **WHO** command generates responses that include the SDSF group to which the user is mapped.

To simplify debugging, SDSF includes the special ddname ISFRXDBG that you can allocate to dummy data sets before accessing SDSF to automatically enable the debug facilities. The advantage of using ISFRXDBG is that you do not need to modify your scripts.

When the ISFRXDBG ddname is allocated, SDSF takes the following actions:

- Forces the **VERBOSE** option on host commands.
- Internally issues a **WHO** command to create user related REXX variables. The **WHO** response is also generated as messages added to the *ISFMSG2* stem variable.
- Writes messages contained in the *ISFMSG2* stem variable to the output stream in a format similar to the REXX Say statement.
- Enables security tracing (SECTRACE) equivalent to the *ISFSECTR* special variable being allocated.
- Internally issues a **TRACE ALL** command to enable trace when the ISFTRACE ddname is allocated.

You can allocate ISFRXDBG to a dummy data set in TSO using a command similar to the following

```
alloc fi(isfrxdbg) dummy reus
```

Or, you can allocate ISFRXDBG in batch using a JCL statement similar to the following:

```
//ISFRXDBG DD DUMMY
```

## Generating an exec using RGEN

---

### Before you begin

You must be using SDSF under ISPF.

### About this task

You can use the RGEN command to generate a REXX exec that reflects the current context. RGEN from any panel generates an exec that can navigate to the current panel. The exec includes the statements you need to add the SDSF host command environment and to access the current panel, as well as special variables for things like filtering. The exec may also include suggested logic for additional function. The generated exec is displayed using ISPF Edit.

### Procedure

You might use RGEN as follows:

1. Display the tabular panel (DA, ST, PR, JDS and so on) or log panel (SYSLOG, OPERLOG, ULOG) that you want to work with.
2. Issue the RGEN command from the command line.

SDSF generates the appropriate exec and displays it using ISPF Edit. Consider the following example from the ST panel. The display includes special temporary lines that are visible in ISPF Edit but are not actually included in the exec. To remove those lines, use the RESET command.

```

SDSF EDIT RGEN TS5536.RS86.SPFTEMP1.CNTL Columns 00001 00072
***** ***** Top of Data *****
000001 /* REXX */
000002 Arg debug
000003
==MSG> Important: Copy this generated exec from temporary dataset
==MSG> TS5536.RS86.SPFTEMP1.CNTL
==MSG> and edit that copy to prevent your changes from being lost.
==MSG>
000004 /*****
000005 *
000006 * SDSF RGEN Generated EXEC
000007 *
000008 * This exec was generated by the SDSF RGEN command on
000009 * Thursday 2017/05/04 at 12:06:25.52.
000010 *
000011 * 5650-ZOS
000012 * SDSF level = z/OS 02.03.00 (HQX77B0)
000013 *
=====
===== Use this exec as a starting point for writing your own execs.
=====
===== The RGEN command generates an exec that accesses the current
===== panel and shows how to use special variables.

```

```

=====
===== For more information and examples, use the SDSF REXXHELP
===== command. To search SDSF's help, use SEARCH search-string.
=====
000014 * Operation =
000015 *
000016 * - Access primary panel ST
000017 *
000018 *****/
000019
=NOTE= Tip: All SDSF/REXX execs must include the following statement:
000020 rc=isfcalls('ON')
000021
000022 trace o
000023
=NOTE= Tip: The verbose option provides additional diagnostics
=NOTE= when invoking SDSF services.
000024 if debug<>" " then /* If debug mode */
000025 verbose="VERBOSE" /* .. use SDSF verbose mode */
000026 else
000027 verbose=""
000028

```

```

000029 /*-----*/
000030 /* Configure environment with special variables */
000031 /*-----*/
=NOTE= Tip: You must be authorized to the corresponding command
=NOTE= to set the variable.
=NOTE=
=NOTE= Tip: Not all variables may be needed in your exec.
=NOTE=
000032 isfprefix='' /* Corresponds to PREFIX command */
000033 isfowner='*' /* Corresponds to OWNER command */
000034 isfsysname='' /* Corresponds to SYSNAME command */
000035
000036 isfdest=' ' || , /* Dest name 1 */
000037 ' ' || , /* Dest name 2 */
000038 ' ' || , /* Dest name 3 */
000039 ' ' /* Dest name 4 */
000040
000041
000042 /* Access the ST panel */
000043 Address SDSF "ISFEXEC 'ST' (" verbose ")"
000044 lrc=rc
000045

```

```

=NOTE= Tip: Always check the return code after each request.
000046 call msggrtn "ISFEXEC 'ST'" /* List messages */
000047 if lrc<>0 then /* If command failed */
000048 do
000049 Say "** ISFEXEC failed with rc="lrc"."
000050 exit 20
000051 end
000052
=NOTE= Tip: The special variable sdsfocols is a word delimited
=NOTE= list of column names returned on the request.
000053 call colsrtn isfrows "." sdsfocols /* List all rows and columns */
000054
000055
=NOTE= Tip: All SDSF/REXX execs must finish with the following statement:
000056 rc=isfcall('OFF')
000057
000058 Exit 0
000059
000060
000061 /*****
000062 *
000063 * NAME =

```

```

000064 * msggrtn
000065 *
000066 * FUNCTION =
000067 * List all messages in the isfmsg and isfmsg2. variables
000068 *
000069 * INPUT =
000070 * req - Request being processed
000071 *
000072 * EXPOSED VARIABLES =
000073 * isfmsg - Short message
000074 * isfmsg2. - Numbered messages
000075 *
000076 * OUTPUT =
000077 * Messages written to terminal
000078 *
000079 *****/
000080 msggrtn: Procedure expose isfmsg isfmsg2.
000081 Arg req
000082
000083 /*-----*/
000084 /* Process numbered messages */
000085 /*-----*/

```

```

=NOTE=
=NOTE= Tip: The isfmsg2. stem contains numbered messages
=NOTE= associated with the request and isfmsg2.0 contains
=NOTE= a count of the number of variables that follow.
000087 do ix=1 to isfmsg2.0
000088 Say isfmsg2.ix
000089 end
000090
000091 if isfmsg<>" " then /* If short message present */
000092 do
000093 Say "** Short message associated with the request is:" isfmsg
000094 end
000095
000096 return
000097
000098
000099 /*****
000100 *
000101 * NAME =
000102 * colsrtn
000103 *

```

```

000104 * FUNCTION =
000105 * List all rows and their column values
000106 *
000107 * INPUT =
000108 * numrows - number of rows to process
000109 * pfx - column variable prefix or "." if none
000110 * ocols - word delimited column names to process
000111 *
000112 * EXPOSED VARIABLES =
000113 * None
000114 *
000115 * OUTPUT =
000116 * Responses written to terminal
000117 *
000118 *****/
000119 colsrtn:
000120 Arg numrows pfx ocols
000121 Say "Number of rows to process: " numrows
000122
000123 do rowix=1 to numrows /* Loop for all rows */
000124 Say "Now processing row" rowix "..."
000125

```

```

000126 do colix=1 to words(ocols) /* Loop for all columns */
000127
000128 if pfx="." then /* If no prefix */
000129 pfx=""
000130
000131 varname=pfx||word(ocols,colix)||'.'||rowix
000132
000133 Say " Column" varname '=' value(varname)
000134 end /* For all columns */
000135 end /* For all rows */
000136
000137 return
***** ***** Bottom of Data *****

```

3. Copy the exec to a data set using the CREATE command.

Copying the exec before you begin making any updates ensures that none of your changes are lost.

4. Modify the exec to suit your needs.

## Exec basics

### Procedure

In a very simple REXX exec, you might do the following:

1. Add the SDSF host command environment.

```
rc=isfcalls('ON')
```

2. Access a panel with "ISFEXEC *panel-command*". This creates stem variables for each row and column on that panel. To access the Status panel, you could use:

```
Address SDSF "ISFEXEC ST"
```

3. Find the job you want to work with by examining the JNAME stem variables created for the JOBNAME column. (You refer to columns not by their titles, but by the same names that you would use in defining a field list in ISFPARMS. See [z/OS SDSF Operation and Customization](#) .)

```
do ix=1 to JNAME.0 /* Loop for all rows returned */
 if pos("RJONES",JNAME.ix) = 1 then
```

4. Take an action or modify a value for the job with "ISFACT *operands*".

*operands* is made up of:

- The panel command that you used previously with ISFEXEC



- ```
Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP P)"
```

```
end
rc=isfcalls('OFF')
```

Of course, in an actual exec, you would have more complex logic and error checking. This would require the use of special REXX variables to do things like examine messages issued, filter rows on the panel, and define the columns to include. For more examples, see “Examples of REXX execs” on page 455.

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Issuing commands with ISFEXEC

You issue commands with the ISFEXEC host command as follows:

► Address SDSF — " — ISFEXEC — *sdsf-command* — (— *options* —) — " — ►

sdsf-command

is a supported SDSF command, including any parameters. If the command contains special characters or blanks, enclose it in single quotation marks. The supported commands are:

- The commands that access SDSF tabular panels (for example, DA and ST). For more information, see [“Issuing panel commands with ISFEXEC” on page 401](#) and [“Options for panel commands” on page 402](#).
- The WHO and QUERY commands. For more information, see [“Issuing WHO and QUERY commands with ISFEXEC” on page 408](#).
- The slash (/) command, which allows you to enter system commands. Although this is supported, the recommended method for issuing system commands is with ISFSLASH. For more information, see [“Issuing system commands with ISFSLASH” on page 428](#) or [“Issuing system commands with ISFEXEC” on page 408](#).

Commands entered with the ISFEXEC command generally have a maximum length, including any parameters, of 42 characters (the same as the command input area when using SDSF interactively). Slash (/) commands entered with the ISFEXEC command can have operands up to 126 characters long.

Note that for function associated with other SDSF commands, such as filtering and setting options, you use special variables rather than ISFEXEC. See [“Using special variables to invoke SDSF function” on page 430](#).

For a complete list of the SDSF commands, see [“SDSF commands reference” on page 436](#). For the syntax of the commands, see the online help.

options

is an optional list of options for the command. The closing parenthesis is optional. The options that you use depend on the type of the command you issue, and are explained in the topics that follow. The following option is of general use as you develop a REXX exec:

VERBOSE

adds diagnostic messages to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.

Examples of using ISFEXEC

The following examples illustrate how to issue a command with ISFEXEC. For more complete examples, see [“Examples of REXX execs” on page 455](#).

1. Issue the DA command and create variables for the DA panel, both the primary and alternate field lists, except delayed-access columns.
 - Address SDSF "ISFEXEC DA"
This creates variables for each column.
 - Address SDSF "ISFEXEC DA (COMPACT)"
This creates the SDSFROW stem variable for the data.
2. Issue the CK command with the ALL parameter and create variables for the CK panel.
Address SDSF "ISFEXEC CK ALL"
3. Issue the ST command and create variables for the alternate field list.

```
Address SDSF "ISFEXEC ST (ALTERNATE) "
```

Note: Delayed-access columns are not included. These require the DELAYED option.

4. Issue the ST command and create variables for the alternate field list, including delayed-access columns.

```
Address SDSF "ISFEXEC ST (ALTERNATE DELAYED) "
```

5. Issue the O command, with filters for class A and forms 1234.

```
Address SDSF "ISFEXEC OA 1234"
```

6. Issue the WHO command.

```
Address SDSF "ISFEXEC WHO"
```

Return codes for ISFEXEC

After the ISFEXEC host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred in parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFEXEC command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Messages

Messages issued in response to a command or special variable are available in these special variables:

ISFMSG

contains the SDSF short message

ISFMSG2

is a stem variable that contains SDSF numbered messages. ISFMSG2.0 contains the number of stem variables that follow.

Issuing panel commands with ISFEXEC

You can issue the commands that access SDSF tabular panels with ISFEXEC. Tabular panels display data in rows and columns.

For information on non-tabular panels, see:

- [“Browsing the system log with ISFLOG” on page 423](#)
- The discussion of the ISFULOG special variable in [“Issuing system commands with ISFSLASH” on page 428](#).

Controlling the columns included on panels

By default, tabular panels accessed with REXX include the columns in both the primary and alternate field lists defined in ISFPARMS, except any "delayed-access" columns. You can control the columns that are included on SDSF panels as described in [Table 357 on page 402](#). Limiting the columns that are included limits the columns for which SDSF creates REXX variables. Limiting the columns to just those that are required can make the exec process more quickly.

Table 357. Controlling the Columns on SDSF Panels

To Specify:	Use:	Default:	For More Information:
Primary, alternate or merged field list	Options on ISFEXEC	Merged	“Options for panel commands” on page 402
Delayed-access columns	Option on ISFEXEC	Not included	“Options for panel commands” on page 402
List of columns by column name	ISFCOLS variable		“Special variables for panels and panel commands” on page 405

Options for panel commands

You can use the following options with panel commands on ISFEXEC. Combine the options if necessary. For example, you could specify both ALTERNATE and DELAYED to include delayed-access columns that are in the alternate field list. Note that by default, the primary and alternate field lists are both included. That is, if you specify both PRIMARY and ALTERNATE, or neither PRIMARY nor ALTERNATE, the primary and alternate field lists are merged.

ALTERNATE

requests the alternate field list. For a discussion of primary and alternate field lists, see [z/OS SDSF Operation and Customization](#).

COMPACT

specifies that column data for each row be returned in the SDSFROW stem variable, rather than in a separate stem variable for each column. This can dramatically reduce the number of variables, and therefore the amount of storage, required to satisfy a request for a panel. For more information, refer to [“Panel data returned” on page 403](#).

DELAYED

specifies that delayed-access columns be included. Delayed-access columns require I/O to retrieve the data. If you do not include this option, delayed-access columns are omitted. Omitting delayed-access columns may improve performance. For information on which columns are delayed-access, see

- [z/OS SDSF Operation and Customization](#)
- The COLSHELP command in SDSF

NOMODIFY

specifies that row tokens for use in modifying rows should not be returned. Use this to improve performance if you will not be modifying any values.

PRIMARY

requests the primary field list.

If you specify both PRIMARY and ALTERNATE, or neither PRIMARY nor ALTERNATE, the primary and alternate field lists are merged. For a discussion of primary and alternate field lists, see [z/OS SDSF Operation and Customization](#).

PREFIX value

specifies a prefix, *value*, to be added to the beginning of:

- Column name variables

- Token variables
- Variables with names that begin with SDSF, such as SDSFROW.

The prefix is not added to the beginning of other special variable names.

Use PREFIX when you want to ensure that variable names do not conflict, for example, when accessing a secondary panel with an action character from another panel. The default is no prefix. The prefix can be up to 24 characters long, and should not begin with ISF.

VERBOSE

adds diagnostic messages to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.

Panel data returned

SDSF panel data is the same in the REXX environment as in the interactive environment, with a few exceptions. For details, refer to [“Data formats - differences between REXX and interactive SDSF” on page 405](#).

The panel data is returned as follows:

- The contents of the title line are returned in the ISFTLINE special variable. The title line includes the name of the panel and, in some cases, additional information. For a description of the contents of the title line for an SDSF panel, see the help for fields for the panel.
- Column names and column titles are returned in the related special variables ISFCOLS and ISFTITLES. Refer to [“Special variables for panels and panel commands” on page 405](#) for more information.
- Column data is returned:
 - In stem variables for each column. This is the default.
 - In the SDSFROW stem variable, if you specified the COMPACT option.

Column data: stem variables for each column

By default, column data is returned in stem variables in this format: *column-name.row-number*, where:

column-name

is the name of the column. The first column returned is always the fixed field. The column name is different than the column title that is displayed when using SDSF interactively. It is the same name that is used in the FLD statements in ISFPARMS. For more information:

- Refer to *z/OS SDSF Operation and Customization* for a list of column names and titles
- When running SDSF under ISPF, issue the COLSHELP command. COLSHELP provides column names, titles, descriptions and information about values.
- SDSF online help, for column titles, plus information about values for overtypeable and other columns.

If you specify a prefix with the PREFIX option, the column-name variable begins with the prefix. For an example, see [“List job data sets” on page 457](#).

row-number

is the row number.

The value for stem variable number 0 is a count of the number of variables returned. This count is the same for all columns. It is also in special variable ISFROWS.

For overtypeable columns with related values, a sub-stem is added to the row number to indicate the number of the related value, as follows:

column-name.row-number.value-number

So, for example, the SFORMS column in the PR panel has values SFORMS.1.0 (which contains a count of the values) and SFORMS.1.1 through SFORMS.1.8. The value in SFORMS.1.2 is displayed in column SFORM2.

The following example shows data returned in the stem variables for each column.

```
JNAME.0=45
JOBID.0=45
OWNERID.0=45
.
.
remaining 0 variables
.
.
JNAME.1=BURDINE3
JOBID.1=JOB04922
OWNERID.1=BURDINE
.
.
remaining variables
.
.
```

This example shows data for a column with related values, the SFORMS column on the Printer panel.

```
SFORMS.1=STD
SFORMS.1.1=STD (This the same value as is in SFORMS.1)
SFORMS.1.2=NAR
SFORMS.1.3=REC
.
.
```

Column data: SDSFROW stem variable

If you specify the COMPACT option, SDSF returns the panel data in the SDSFROW stem variable, rather than in stem variables for each column.

Use the SDSFROW stem variable with these special variables:

ISFCOLS

Lists the columns that were processed, in this format: *column-name column-name...*

SDSFCOLSTART

Lists the starting position of each of the columns returned in ISFCOLS, in this format: *column-start column-start...*

SDSFCOLLEN

Lists the length of each of the columns returned in ISFCOLS, in this format: *column-length column-length...*

SDSFCOLCOUNT

Is the number of values associated with the column

For example, the first word in the ISFCOLS variable contains the name of the first column. The first word in the SDSFCOLSTART variable contains the start of that column data in the SDSFROW variable, and the first word in the SDSFCOLLEN variable contains the length of that column data in the SDSFROW variable.

The following example shows the data returned in the SDSFROW stem variable:

```
sdsfrow.0=45
sdsfrow.1=BURDINE3 JOB04922 BURDINE          15 EXECUTION
SY1
.
SY1
1      0.03 LOCAL      LOCAL          NO JES NO EXECUTING
14 JOB
.
39 0027      SY1
.
.
remaining variables
.
```

The following example shows the data returned in the ISFCOLS, SDSFCOLSTART and SDSFCOLSTART variables:

```
isfcols=JNAME JOBID OWNERID JPRIQ QUEUE JCLASS POS SYSAFF ACTSYS STATUS PRTDEST  
SECLABEL TGNUM TGPCT ORIGNODE EXECNODE DEVID OFFDEVS RETCODE SRVCLS WLMPOS SCH  
ENV DELAY SSMODE SPIN PHASENAME PHASE JTYPE DELAYRSN JOBCORR ASID ASIDX SYSNAME  
sdsfcolstart=1 10 19 28 39 50 59 70 231 240 271 290 299 310 322 331 340 359 375  
386 395 406 423 427 432 437 458 469 474 603 636 647 658  
sdsfcollen=8 8 8 10 10 8 10 5 8 30 18 8 10 11 8 8 15 10 8 10 16 3 4 4 20 10  
4 128 32 10 10 8  
sdsfcolcount=1 1 1 1 1 1 1 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

The special variables that begin with SDSF, such as SDSFROW, SDSFCOLSTART and SDSFCOLSTART, are all affected by the PREFIX option.

For an example of using these special variables, refer to [“Access an SDSF panel” on page 455](#).

Identifying each row

Tokens to identify each row are returned in the TOKEN stem variable. For example, variable TOKEN.2 contains a string that identifies row two on the panel being processed.

If you specify a prefix with the PREFIX option, the name of the stem variable containing tokens begins with the prefix. For example, if the prefix is JDS_, the name of the stem variable is JDS_TOKEN.

Use the token as input to the ISFACT command when taking an action or modifying a value for that row. See [“Issuing action characters and modifying columns with ISFACT” on page 408](#) for more information.

Data formats - differences between REXX and interactive SDSF

SDSF panel data is the same in the REXX environment as in the interactive environment, with a few exceptions.

- Numbers:
 - Do not include commas.
 - Are never scaled, as they are not restricted by column widths. They never include scaling characters such as T or M. However, some values are formatted with units. For example, values in the MemLimit column on the DA panel are formatted with MB, PB and so on.
 - Are formatted as three asterisks in cases of invalid or overflow data that would be displayed as all asterisks when SDSF is used interactively.
- Dates and times:
 - If formatted by SDSF, are in yyyy.ddd format (dates) and either hh:mm:ss or hh:mm:ss.th format (times). To convert them to a different format, you can use the REXX date() function.
 - Are formatted as N/A in cases of invalid dates that would be displayed as N/A embedded in asterisks when SDSF is used interactively.

Special variables for panels and panel commands

There are a number of special variables that are useful when working with panels and panel commands. Where the variable corresponds to an SDSF command that you would use when using SDSF interactively, the parameters for the variable are the same as for the command, with the exception that the ? parameter is not supported in REXX. Substitute the variable for the command, for example:

Command: PREFIX NEIL*
Variable: isfprefix="neil*"

For more information on special REXX variables, see [“Using special variables to invoke SDSF function” on page 430](#) and [“Special variables reference” on page 441](#). For the syntax of SDSF commands, see the online help.

For panels that you access with an action character from another panel (referred to as secondary panels), you use different special variables than the ones described in this topic. Refer to [“Special variables for secondary panels” on page 412](#).

For some variables with names that begin with ISF, there are corresponding variables with names that begin with SDSF. These perform the same function, but are affected by the PREFIX option, so that their names include the prefix that you specify. In addition, if one or more secondary panels exists, these variables apply to the last secondary panel, rather than the panel that was accessed with a command. In the list that follows, these variable names are shown after the names that begin with ISF.

Use these special variables when working with panels and panel commands:

ISFACTIONS

specifies whether the action characters for the current panel should be returned in the ISFRESP stem variable. The values in the ISFRESP variable are in this format: ACTION=*action*, where *action* is the action character or the action character and a description, depending on the option specified on ISFACTIONS. See the SET ACTION command in the online help for the valid options. See [“List action characters” on page 466](#) for an example.

ISFAPPC

specifies whether transaction data should be included on the panel. See the APPC command in the online help. (JES2 only)

ISFCOLS / SDSFICOLS (input) and SDSFOCOLS (output)

Input: Specifies the set of columns for which SDSF should create variables, in this format:

'column-name column-name...'

The column names are different than the column titles that are displayed when using SDSF interactively. They are the names used in the FLD statements in ISFPARMS. For a list of column names, see [z/OS SDSF Operation and Customization](#), or, when running SDSF under ISPF, issue the COLSHELP command.

Each column name you specify must exist in the current field list. Any name specified in the ISFCOLS variable that is not in the current field list will be ignored. The order of the columns is not significant. See [“Controlling the columns included on panels” on page 402](#) for more information.

The fixed field (the first column on each SDSF panel when using SDSF interactively) is optional, since it will always be included regardless of the setting of ISFCOLS.

If the ISFCOLS variable is not defined, SDSF creates variables for each column in the field list that is not delayed-access, including the fixed field.

Output: Lists the columns that were processed, in this format:

column-name column-name...

The names are separated by a blank. The fixed field is always listed first.

When working with a secondary panel (a panel accessed with an action character) use the ISFCOLS2 variable. See [“Special variables for secondary panels” on page 412](#) for more information.

ISFCOLUMNGROUPS / SDSFCOLUMNGROUPS

contains a list of column grouping information for the columns listed in the ISFCOLS variable. The group values are a way of categorizing SDSF columns. The values are: NONE, ACCT (accounting), ACTIVITY, ADVANCED, GENERAL, INPUT, JES2, JES3, OUTPUT (printer), OUTPUTN (punch), PERF (performance), PRINTING, RUNTIME, SECURITY, SCHED (scheduling), SELECT, STATUS and STATWLM (workload management status).

ISFDCOLS / SDSFDCOLS

contains a list of the delayed-access columns that were returned and for which SDSF should create variables, in this format:

column-name column-name...

When working with a secondary panel (a panel accessed with an action character) use the ISFDCOLS2 variable. See [“Special variables for secondary panels” on page 412](#) for more information.

Unlike ISFCOLS, ISFDCOLS is an output-only variable.

ISFDISPLAY

contains the filtering and sorting criteria, for example,

PREFIX=* DEST=(ALL) OWNER=* SYSNAME=SYS1

See the SET DISPLAY command in the online help.

ISFDISPLAYMODE

sets the format of the ISFDISPLAY special variable. See the SET DISPLAY command in the online help. The OFF parameter is not valid in REXX.

ISFRCOLS / SDSFRCOLS

contains the list of columns that have related values. For information on modifying related values, see [“Modifying related fields” on page 409](#).

ISFROWS

contains the number of rows created for a tabular panel. (This is also found in the zero stem of the column variables, for example, JNAME.0.)

ISFSORT / SDSFSORT

specifies the sort criteria (up to 10 columns, with ascending or descending order). Use column names rather than column titles. Assigning the value to null (isfsort=“) sorts the panel using the fixed field (the first column). See the SORT command in the online help for the syntax.

ISFTIMEOUT

specifies the response timeout value for sysplex requests. See the SET TIMEOUT command in the online help.

ISFTITLES / SDSFTITLES

contains the column titles for the columns on the panel. The titles are listed in the same order as the column names in the ISFCOLS variable. The titles are enclosed in single quotation marks and separated by blanks.

When working with a secondary panel, accessed with an action character, use the ISFTITLES2 variable. See [“Special variables for secondary panels” on page 412](#) for more information.

ISFTLINE

contains the title line from the tabular panel being processed.

ISFUCOLS / SDSFUCOLS

contains the list of modifiable columns for the panel. All modifiable columns are included, regardless of whether the user is authorized to modify them.

When working with a secondary panel, accessed with an action character, use the ISFUCOLS2 variable. See [“Special variables for secondary panels” on page 412](#) for more information.

ROWACTIVE

is a stem variable that indicates whether the object (for example, the job or the printer) is active. The value is either Y (active) or N (inactive). ROWACTIVE.0 contains a count of the number of stem variables that follow.

SDSFROW

contains the panel data, when you specified the COMPACT option. For details, refer to [“Panel data returned” on page 403](#).

SDSFCOLSTART

contains the start of the column, for use with SDSFROW. For details, refer to [“Panel data returned” on page 403](#).

SDSFCOLLEN

contains the length of the data for the column, for use with SDSFROW. For details, refer to [“Panel data returned” on page 403](#).

SDSFCOLCOUNT

contains the number of values associated with the column

Issuing WHO and QUERY commands with ISFEXEC

You can issue the WHO and QUERY commands with ISFEXEC:

- WHO provides information about the user and the environment
- QUERY lists SDSF data such as the commands for which you are authorized.

Responses are returned in the ISFRESP stem variable. For the WHO command, the responses are in *keyword=value* format, for example, USERID=RJONES. For more information on using special REXX variables, see [“Using special variables to invoke SDSF function”](#) on page 430.

For a description of the WHO and QUERY commands, see the online help.

For an example, see [“Issue the WHO command”](#) on page 469.

Issuing system commands with ISFEXEC

Although using ISFSLASH is the recommended method, you can use ISFEXEC to issue slash (/) commands.

To preserve lowercase and special characters in the command text, enclose it in single quotation marks, being sure that the quotation marks are passed to SDSF and not removed by REXX, for example:

```
Address SDSF "ISFEXEC '/f test,''abc'''"
```

The W and I prefix parameters of the slash (/) command are not supported. Use the WAIT and INTERNAL options instead. See [“Options for slash \(/\) commands”](#) on page 429 for more information.

For a description of special variables to use with slash (/) commands, see [“Special variables for slash \(/\) commands”](#) on page 429.

For information on using ISFSLASH, see [“Issuing system commands with ISFSLASH”](#) on page 428.

Issuing action characters and modifying columns with ISFACT

You invoke SDSF action characters and modify column values using the ISFACT host environment command, as follows:

►► Address SDSF "ISFACT *command* Token — PARM — (— *parms* —) — (— *options* —)

◀ — " — ▶

Token

►► TOKEN — (— (*stem-name*) —) — token-list — ▶

command

is the command for the panel. It must be the same SDSF command, including any parameters, that was previously entered with the ISFEXEC command. When referencing the PARM panel, enclose PARM in single quotes to avoid ambiguity with the PARM option.

stem-name

is the name of a stem variable that identifies the rows to be acted upon. The stem variable contains one or more row tokens previously set by ISFEXEC or ISFACT in the returned TOKEN. stem variable and must correspond to the panel accessed with *command*. The tokens must not be folded to upper case or enclosed in single quotation marks. For more information on tokens, see [“Using tokens”](#) on page 410. The variable *stem-name* should:

- End with a period, to allow the commands to be put into compound variables
- Not begin with the characters ISF

- Be no longer than 128 characters

The 0 variable in the stem must contain a count of the number of variables in the stem.

token-list

is one or more tokens that identifies the row to be acted upon, in the format '*token1*', '*token2*', ..., '*tokenN*'. Each token was previously set by ISFEXEC or ISFACT in the returned TOKEN. stem variable and must correspond to the panel accessed with *command*. Enclose the token in single quotation marks that are not removed by REXX.

For more information, see [“Using tokens” on page 410](#).

parms

is the list of parameters that specifies the action characters and modifications, in the form:

column1 value1 column2 value2 ... columnN valueN

where

column1, column2, columnN

are either:

- NP, when issuing an action character
- column names, when modifying values. The column names are different than the titles that are displayed when using SDSF interactively. They are the same names that you use on FLD statements in ISFPARMS. For a list of column names, see [z/OS SDSF Operation and Customization](#), or, when running SDSF under ISPF, issue the COLSHELP command.

The column must be in the current field list for the panel; use column-related options on the ISFACT command, such as ALTERNATE, if necessary. For more information, see [“Controlling the columns included on panels” on page 402](#).

If you name a column multiple times, SDSF processes only the last one.

value1, value2, valueN

are either:

- an action character, when the column is NP. The SDSF action characters are described in the online help. Most of the action characters are supported with REXX. Table 361 on page 436 shows the exceptions. The action characters for browsing and printing output have special restrictions and requirements. See [“Browsing output” on page 414](#) and [“Printing output” on page 419](#).
- a value, when modifying a value in a column other than NP. If the value contains special characters, you must enclose it in quotation marks. Lowercase characters are folded to upper case, even if they are enclosed in quotation marks.

The fields that can be modified, or overtyped, are described in the help for each panel.

For information on modifying sets of related fields, see [“Modifying related fields” on page 409](#).

The resulting command cannot exceed the maximum allowed by z/OS.

options

is an optional list of options. See [“Options for action characters and overtypeable fields” on page 411](#) for more information.

Modifying related fields

When working with sets of related fields, such as the four selection destinations on the Printer panel, add a plus (+) before the column name to indicate that the value is in addition to any other values for the same column. Use this syntax for each value. When using SDSF interactively, you work with related fields through the overtype extension pop-up, which you access by typing the + character in the overtypeable column.

For example, PARM(SDESTN1 D1 +SDESTN1 D2 +SDESTN1 D3) indicates that the SDESTN1 column is to be modified with the values D1,D2,D3.

SDSF accepts a + sign for the first column in the set of columns, for example, PARM(+SDESTN1 D1 +SDESTN1 D2). This is equivalent to PARM(SDESTN1 D1 +SDESTN1 D2). However, subsequently specifying the first column in the set without a + sign resets the values. For example, PARM(SDESTN1 D1 +SDESTN1 D2 SDESTN1 D11) would result in the column being modified with the single value D11. This is because SDSF processes the last occurrence of the column name. Since the last occurrence does not have the + sign, it is interpreted as a complete replacement.

If the same column is specified more than once, the last occurrence is used for the action except when the + sign is used with the column name.

Special variables ISFRCOLS and ISFRCOL2 contain lists of columns with related fields for the current panel and a secondary panel, respectively.

Using tokens

A token consists of a variable-length string that may contain special characters. You must not modify it.

A token cannot be shared by different users. The user who references a token with a host command must be the same user who created it.

When a token references a secondary panel (such as JDS), all subsequent tokens must also refer to the secondary panel using the same row from the primary panel.

Tokens represent jobs at the time that they are generated and are intended to be used soon after they are generated, rather than saved for later use. If the row to be acted upon no longer exists when the host command is issued, SDSF considers the row token invalid. You should not change the associated panel, for example, by changing filtering.

The format of tokens may change incompatibly with service or new releases of SDSF.

Examples of using ISFACT

The following examples illustrate how to issue an action character and modify a column, after having first issued the appropriate panel command with ISFEXEC. For more complete examples, see [“Examples of REXX execs”](#) on page 455.

1. Issue the P action character for row 4 on the H panel.

```
Address SDSF "ISFACT H TOKEN('"TOKEN.4"') PARM(NP P)"
```

2. Issue the P action character for rows 1 and 2 on the H panel.

```
Address SDSF "ISFACT ST TOKEN('"TOKEN.1"', '"TOKEN.2"') PARM(NP P)"
```

3. Issue the P action character for the row the number of which is represented by variable *ix* on the H panel.

```
Address SDSF "ISFACT H TOKEN('"TOKEN.ix"') PARM(NP P)"
```

4. Modify the priority of multiple jobs.

```
Address SDSF "ISFACT ST TOKEN((TOKEN.)) PARM(JPRIO 10)"
```

For this type of usage, you would use command parameters or special variables to limit the panel to just those jobs you want to modify. For a complete example, see [“Modify a value for a set of jobs”](#) on page 459.

5. Issue the P action character for rows that are identified by tokens in the stem variable JSTEM.

```
Address SDSF "ISFACT ST TOKEN((JSTEM.)) PARM(NP P)"
```

For this type of usage, you would use logic to set the values in the stem variable JSTEM. to the tokens, in stem variable TOKEN., for those jobs you want to modify. For a complete example, see [“Modify a value for a set of jobs”](#) on page 459.

6. For row 2 on the O panel, modify the class to A and the forms to 1234.

```
Address SDSF "ISFACT 0 TOKEN('"TOKEN.2"') PARM(OCCLASS A FORMS 1234)"
```

7. Allocate all data sets in the job represented by row 5 on the ST panel.

```
Address SDSF "ISFACT ST TOKEN('"TOKEN.5"') PARM(NP SA)"
```

Return codes for ISFACT

After the ISFACT host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFACT command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Options for action characters and overtypable fields

You can use the following options with ISFACT. Options related to field lists and columns apply to panels that you access with action characters, such as JDS.

ALTERNATE

requests the alternate field list. For a discussion of primary and alternate field lists, see [z/OS SDSF Operation and Customization](#).

ALTERNATE2

requests the alternate field list for the secondary panel

COMPACT

specifies that column data for each row be returned in the SDSFROW stem variable, rather than in a separate stem variable for each column. For more information, refer to [“Panel data returned” on page 403](#).

Note that when working with a panel that you accessed with an action character, you use special variables ISFCOLS2 and ISFTITLES2 rather than ISFCOLS and ISFTITLES. For more information, refer to [“Special variables for secondary panels” on page 412](#).

DELAYED

specifies that delayed-access columns be included. Delayed-access columns require I/O to retrieve the data. If you do not include this option, delayed-access columns are omitted. Omitting delayed-access columns may improve performance. For information on which columns are delayed-access, see

- [z/OS SDSF Operation and Customization](#)
- The COLSHELP command in SDSF

DELAYED2

specifies that delayed-access columns be included on the secondary panel

NOMODIFY2

specifies that row tokens for use in modifying rows should not be returned on the secondary panel. Use this to improve performance if you will not be modifying any values.

PRIMARY

requests the primary field list.

If you specify both PRIMARY and ALTERNATE, or neither PRIMARY nor ALTERNATE, the primary and alternate field lists are merged. For a discussion of primary and alternate field lists, see [z/OS SDSF Operation and Customization](#).

PRIMARY2

requests the primary field list for a secondary panel.

If you specify both PRIMARY2 and ALTERNATE2, or neither PRIMARY2 nor ALTERNATE2, the primary and alternate field lists are merged, and all the column variables for the panel are available.

PREFIX value

specifies a prefix, *value*, to be added to the beginning of:

- Column name variables
- Token variables
- Variables with names that begin with SDSF, such as SDSFROW.

The prefix is not added to the beginning of other special variable names.

Use PREFIX when you want to ensure that variable names do not conflict, for example, when accessing a secondary panel with an action character from another panel. The default is no prefix. The prefix can be up to 24 characters long, and should not begin with ISF.

VERBOSE

adds diagnostic messages to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.

WAIT

specifies that SDSF should wait the full delay interval before retrieving responses to a command. This option is strongly recommended to ensure the responses are accessible in the ISFULOG special variable. The delay interval is specified with the ISFDELAY variable.

Special variables for secondary panels

Secondary panels are accessed with action characters from other panels. For example, when you use the ? action character from the Status panel to access the Job Data Set (JDS) panel, JDS is a secondary panel. For secondary panels, ISFACT returns column and row data in the same way that ISFEXEC does. See [“Panel data returned” on page 403](#) for more information.

Many of the special variables for panels that you access with commands have corresponding special variables for secondary panels. The names of the special variables for secondary panels end with a 2. For example, ISFCOLS applies to primary panels, and ISFCOLS2 applies to secondary panels. In addition, there is another set of variables with names beginning with SDSF that perform the same function, but are affected by the PREFIX option, so that their names include the prefix that you specify. When there is a secondary panel or a sequence of secondary panels (for example, JDS accessed from JS accessed from ST) the SDSFxxxx and ISFxxxx2 variables apply to the last panel (JDS, in the example).

In the following list of special variables, the variable name that begins with ISF is followed by the name that begins with SDSF, when one exists.

ISFACTIONS

specifies whether the action characters for the current panel should be returned in the ISFRESP stem variable. The values in the ISFRESP variable are in this format: ACTION=*action*, where *action* is the action character or the action character and a description, depending on the option specified

on ISFACTIONS. See the SET ACTION command for the valid options. See [“List action characters”](#) on page 466 for an example.

ISFAPPC

specifies whether transaction data should be included on the panel. See the APPC command.

ISFCOLS2 / SDSFICOLS (input) and SDSFOCOLS (output)

Input: Specifies the set of columns on the secondary panel for which SDSF should create variables, in this format:

'column-name column-name...'

The column names are different than the column titles that are displayed when using SDSF interactively. They are the names used in the FLD statements in ISFPARMS. For a list of column names, see [z/OS SDSF Operation and Customization](#), or, when running SDSF under ISPF, issue the COLSHELP command.

Each column name you specify must exist in the current field list. Any name specified in the ISFCOLS2 variable that is not in the current field list will be ignored.

The fixed field (the first column on each SDSF panel when using SDSF interactively) is optional, since it will always be included regardless of the setting of ISFCOLS2.

If the ISFCOLS2 variable is not defined, SDSF creates variables for each column on the secondary panel that is in the field list and is not delayed-access, including the fixed field.

Output: Lists the columns on the secondary panel that were processed, in this format:

column-name column-name...

The names are separated by a blank. The fixed field is always listed first.

Note: the column names do not include the prefix.

ISFDCOLS2 / SDSFDCOLS

contains the list of delayed-access columns for the secondary panel, in this format:

column-name column-name...

ISFDISPLAY

contains the filtering and sorting criteria, for example,

PREFIX=* DEST=(ALL) OWNER=* SYSNAME=SYS1

See the SET DISPLAY command.

ISFDISPLAYMODE

sets the format of the ISFDISPLAY special variable. See the SET DISPLAY command in the online help. The OFF parameter is not valid in REXX.

ISFFILTER2 / SDSFFILTER

specifies filter criteria to be applied to the returned variables. Use column names rather than column titles. See the FILTER command in the online help.

ISFRCOLS2 / SDSFRCOLS

contains the list of related fields (such as Address-Line1 through 4) for the secondary panel, in this format:

column-name column-name...

ISFROWS2

contains the number of rows created for the secondary panel. (This is also found in the column variables, for example, DDNAME.0.)

ISFSORT2 / SDSFSORT

specifies the sort criteria (up to 10 columns, with ascending or descending order). Use column names rather than column titles. Assigning the value to null sorts the panel using the fixed field (the first column). See the SORT command for other syntax.

ISFTIMEOUT

specifies the response timeout value for sysplex requests. See the SET TIMEOUT command. (JES2 only)

ISFTITLES2 / SDSFTITLES

contains the column titles for the secondary panel. The titles are listed in the same order as the column names in the ISFCOLS2 variable. Each title is enclosed in single quotation marks and separated by a blank.

ISFTLINE

contains the title line from the tabular panel being processed

ISFUCOLS2 / SDSFUCOLS

contains the list of modifiable columns for the secondary panel. All modifiable columns are included, regardless of whether the user is authorized to modify them.

ISFULOG

is a stem variable that contains the command echo and responses for system commands generated by action characters, including SAF authorization messages (if supported by the external security manager). Use the WAIT option on the ISFACT command to ensure that the command responses are available in the ISFULOG stem variable.

For more information on special REXX variables, see [“Using special variables to invoke SDSF function”](#) on page 430 and [“Special variables reference”](#) on page 441.

Browsing output

To browse the output of jobs and checks, you use a combination of host commands, action characters and special REXX variables. For details, refer to the appropriate topic:

- [“Browsing output with ISFBROWSE”](#) on page 414. You can use this approach to browse the output of jobs and checks. The output data is returned in the ISFLINE stem variable.
- [“Browsing jobs with an external utility”](#) on page 417. You can use this approach to browse job output. You allocate the output data sets with special REXX-only action characters, then browse the data sets using EXECIO or a similar utility.
- [“Browsing checks with the S action character”](#) on page 418. You can use this approach to browse the output of checks. The output data is returned in the ISFLINE stem variable.

Browsing output with ISFBROWSE

You can browse the output of jobs and checks using the ISFBROWSE host command, as follows:

►► Address SDSF "ISFBROWSE *sdsf-command* TOKEN(*token*) (— *options* —)"

sdsf-command

is the command for the panel. It must be the same SDSF command, including any parameters, that was previously entered with the ISFEXEC command.

token

is a token that identifies the row to be acted upon. The token was previously set by ISFEXEC or ISFACT and must correspond to the panel accessed with *sdsf-command*. Enclose the token in single quotation marks that are not removed by REXX.

For more information, see [“Using tokens”](#) on page 410.

options

is an optional list of options. The closing parenthesis is optional.

JCL

Browse just the JCL (jobs only)

NOCLOSE

Leave the data set open for subsequent requests, to avoid the overhead of closing, unallocating, re-allocating, and re-opening the data set. To undo the allocations, use ISFBROWSE without NOCLOSE and set special variable ISFSTARTLINETOKEN.

The following conditions apply to NOCLOSE:

- When the user has destination operator authority, SDSF ignores NOCLOSE. The user may be authorized to the job through either destination operator authority or access to the corresponding JESSPOOL resource.
- When the special ddname ISFMIGRN is allocated, NOCLOSE will be processed, but the user must be authorized to the JESSPOOL resources for the job. Destination operator authority will not be used in this case.

VERBOSE

Add diagnostic messages to stem variable isfmsg2. The messages describe each variable created by SDSF. This can be useful for troubleshooting as you develop REXX execs.

Examples of using ISFBROWSE

The following examples show ISFBROWSE commands you would use after having first issued the appropriate panel command with ISFEXEC. For more complete examples, see [“Examples of REXX execs”](#) on page 455.

1. Browse the output for a check on the CK panel. The number of the row is represented by ix.

```
Address SDSF "ISFBROWSE CK TOKEN('TOKEN.ix')"
```

2. Browse just the JCL for a job on the ST panel. The number of the row is represented by x.

```
Address SDSF "ISFBROWSE ST TOKEN('TOKEN.x') (JCL)"
```

3. Browse the output for a job on the DA panel. Leave the data sets open for subsequent browse requests. The number of the row is represented by ix.

```
Address SDSF "ISFBROWSE DA TOKEN('TOKEN.ix') (NOCLOSE)"
```

Special variables for use with the ISFBROWSE command

There are a number of special variables that you can use with the ISFBROWSE command. For information on special REXX variables, see [“Using special variables to invoke SDSF function”](#) on page 430 and [“Special variables reference”](#) on page 441.

Several of the special variables provide function that corresponds to scrolling through the data, including repositioning to the next or previous data set. For example, you might specify a number of lines that you want to retrieve with each browse request, using ISFLINELIM, then use logic and other special variables to advance through the data, as shown below:

```
isflinelim = 500
do until isfnxtlinetoken=''
  Address SDSF "ISFBROWSE ST "TOKEN('token.x')""
  /*****
  /* Loop through the lines */
  /*****/
  do ix=1 to isfline.0
    say isfline.ix
  end
  isfstartlinetoken = isfnxtlinetoken
end
```

Use these special variables with the ISFBROWSE command:

ISFDUPDS

controls whether duplicate SYSOUT data sets are included. Values are ON and OFF.

ISFFIRSTLINEDSID

is the data set identifier of the data set associated with the first line that was returned.

ISFFIRSTLINERECNO

is the record number within the data set of the first line that was returned.

ISFFIRSTLINETOKEN

is a token corresponding to the first line of the data that was returned.

ISFINPUT

controls whether SYSIN data sets are included. Values are ON and OFF.

ISFLASTLINEDSID

is the data set identifier of the data set associated with the last line that was returned.

ISFLASTLINERECNO

is the record number within the data set of the last line that was returned.

ISFNEXTLINETOKEN

is a token corresponding to the next unread line of the data that was returned. It is null when an end-of-file condition is encountered.

ISFLINE

contains the data that is returned. It is a stem variable. ISFLINE.0 contains the number of variables.

ISFLINELIM

limits the number of ISFLINE stem variables that may be created. The valid values are 0-99999999. A value of zero indicates no limit.

Note: You should limit the number of lines that are read by using the ISFLINELIM variable. When no limit is specified, it is likely that storage will be exhausted because an excessive number of REXX variables are created. You can balance the number of lines to read based on storage availability and performance. When fewer lines are read, more invocations of SDSF occur. When more lines are read in a single invocation, more storage is required.

ISFSTARTLINETOKEN

specifies the starting line for the data to be returned. Assign a value by setting the variable to either the ISFFIRSTLINETOKEN or ISFNEXTLINETOKEN special variable.

Use these special variables with the ISFBROWSE command for find and scroll functions:

ISFFIND

contains a string to be found, up to 255 characters. The find operation is not sensitive to case. Use this with a value of FINDNEXT or FINDPREV in the ISFSCROLLTYPE special variable.

ISFFINDENDCOL

specifies the column by which the string specified with the ISFFIND special variable must end. It must be less than ISFFINDSTARTCOL.

ISFFINDLIM

specifies the maximum number of lines to search for the string specified with the ISFFIND special variable. Valid values are 1000 through 9999999.

ISFFINDSTARTCOL

specifies the column in which the string specified with the ISFFIND special variable must start.

ISFSCROLL

is used to reposition the first line of data that is returned.

- For repositioning a number of lines, specify an integer to be used as an offset from the value in the ISFSTARTLINETOKEN special variable. Then, specify a value of UP or DOWN for the ISFSCROLLTYPE special variable. If ISFSTARTLINETOKEN is not specified, the offset is applied to the top of the data set.
- For repositioning to another data set, specify a number to be used as the number of data sets and specify a value of NEXT or PREV for the ISFSCROLLTYPE special variable. The data returned begins with the first line of the data set. ISFSCROLL defaults to 1 and can be omitted when you specify ISFSCROLLTYPE with NEXT or PREV.

ISFSCROLLTYPE

is used to reposition the first line of data that is returned. Specify one of these values:

UP or DOWN

is used with the value in the ISFSCROLL special variable to reposition a number of lines. DOWN is the default.

NEXT or PREV

is used with the value in the ISFSCROLL special variable to reposition a number of data sets.

TOP

specifies that the first record returned is the first record of the data. This is the default.

BOT

requests the bottom, or most recent, data. The last line returned is the last line of data. The first line returned is a function of the value of the ISFLINELIM special variable. For example, if you use BOT with a value of 100 for ISFLINELIM, the last 100 lines of data are returned.

FINDNEXT

is used with the value in the ISFFIND special variable to reposition to the next line that contains that string. If the ISFSTARTLINETOKEN special variable is not specified, the search begins with the top line.

FINDPREV

is used with the value in the ISFFIND special variable to reposition to the previous line that contains that string. If the ISFSTARTLINETOKEN special variable is not specified, the search begins with the top line, wraps to the bottom and then searches from there.

Return codes for ISFBROWSE

After the ISFBROWSE host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred in parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFBROWSE command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Browsing jobs with an external utility

To browse job output from the DA, H, I, JDS, O and ST panels using EXECIO or similar utility, you first allocate the output data sets with special REXX-only action characters. The action characters are:

SA

Allocate all data sets associated with the item. On the DA, I or ST panels, this will be all data sets in the job. On the O and H panels, it will be all data sets in the output group. On the JDS panel, it will be a single data set.

SJA

Allocate the JCL data set

The following special variables describe the results of the allocation that you use with EXECIO or a similar utility:

ISFDDNAME

is a stem variable that contains the system-generated DDNAME returned by allocation that is referenced on EXECIO or other utility. It is not the application specified DDNAME that is contained in the DDNAME.x stem variable returned by ISFACT. ISFDDNAME.0 contains a count of the number of variables that follow.

ISFDSNAME

is a stem variable that contains the application-specified data set name that has been allocated by SDSF. The variables have a one-to-one correspondence with the variables in ISFDDNAME. Thus, the REXX caller can associate the data set being processed with the system generated DDNAME that has been allocated. ISFDSNAME.0 contains a count of the number of variables that follow.

ISFLRECL

is a stem variable that contains the logical record length for the allocated data set and corresponds to the DDNAME listed in ISFDDNAME. ISFLRECL.0 contains a count of the number of variables that follow.

ISFRECFM

is a stem variable that contains the record format for the allocated data set and corresponds to the DDNAME listed in ISFDDNAME. ISFRECFM.0 contains a count of the number of variables that follow.

You can also use these special variables:

ISFDUPDS

controls whether duplicate SYSOUT data sets are included.

ISFINPUT

controls whether SYSIN data sets are included.

Usage notes

- SDSF allocates SYSOUT data sets using the FREE=CLOSE attribute. This causes the system to free the allocation when the data set is closed by the application. If an application causes a data set to be allocated but does not open it, it should free the allocation explicitly. Failure to free the data sets may result in the allocation limit being reached and further allocations being rejected.
- The REXX caller should also ensure that the DYNAMNBR JCL keyword is set to a high enough limit to accommodate all of the expected allocations done by the exec.
- You can use the FINIS option of EXECIO to close the data set when EXECIO completes.

Browsing checks with the S action character

To browse check output from the CK or CKH panel, you can use the S action character on the ISFACT command, along with the following special variable:

ISFLINE

is a stem variable that contains lines of data in response to a browse request. ISFLINE.0 contains the number of stem variables that follow.

Examples of browsing output

See [“Browse job output with EXECIO”](#) on page 459 and [“Browse check output from the CK panel”](#) on page 464.

Printing output

To print the output of jobs and checks through REXX, you use a combination of the X action character, with ISFACT, and special REXX variables. The PRINT command is not supported in the REXX environment.

The forms of the X action character are:

X and XC

Print all data sets using default settings; XC closes the print file after printing.

XS and XSC

Print all data sets to SYSOUT using attributes specified in special variables; XSC closes the print file after printing.

The special variables define the attributes of the SYSOUT print file. They correspond to the fields on the Open Print pop-up. The special variables are:

Table 358. Special REXX Variables for Printing to SYSOUT

Variable	Purpose
ISFPRTCCASA	How SDSF handles carriage control for printing: ON Always insert ASA carriage control characters OFF Handle carriage control based on the record format of the data set being printed: <ul style="list-style-type: none">• If the record format includes A, then the print function uses ASA (ANSI) carriage control.• If the record format includes M, then the print function uses machine carriage control.• Otherwise, SDSF removes carriage control characters if they are present in the source.
ISFPRTCLASS	SYSOUT class
ISFPRTCOPIES	Copies class
ISFPRTDEST	Destination
ISFPRTFCB	FCB
ISFPRTFORMDEF	FORMDEF
ISFPRTFORMS	Forms
ISFPRTLRECL	Logical record length
ISFPRTOUTDESNAME	Output descriptor name to be used when creating the file
ISFPRTPAGEDEF	PAGEDEF
ISFPRTPRTMODE	Process mode
ISFPRTRECFM	Record format
ISFPRTSOURCEATTS	Whether to use attributes of the source for printing
ISFPRTUCS	UCS
ISFPRTWRITER	Writer name

XD and XDC

Print all data sets to a data set using attributes specified in special variables; XDC closes the print file after printing.

The special variables name attributes of the data set. They correspond to the fields on the Open Print Data Set pop-up.

Table 359. Special REXX Variables for Printing to a Data Set

Variable	Purpose	Default
ISFPRTCCASA	How SDSF handles carriage control for printing. For details, refer to the description of ISFPRTCCASA in Table 358 on page 419 .	
ISFPRTBLKSIZE	Block size for new data sets	0
ISFPRTDATACLAS	Data class for new data sets	
ISFPRTDIRBLKS	Number of directory blocks for new data sets	
ISFPRTDISP	Allocation disposition for data sets	
ISFPRTDSNAME	Data set name. If the name is not enclosed in quotation mark, the name begins with the current user ID.	
ISFPRTDSNTYPE	Data set name type: LIBRARY or LIB allocates a partitioned data set extended (PDSE) PDS allocates a partitioned data set LARGE allocates a large format data set EXTREQ indicates that an extended sequential data set is required EXTPREF indicates that an extended sequential data set is preferred BASIC indicates that neither an extended nor a large format data set is to be allocated.	A partitioned or sequential data set is allocated based on the data set characteristics that are provided.
ISFPRTTEXTATTR	Extended attributes option: NO The data set cannot have extended attributes and reside in EAS OPT The data set can have extended attributes and reside in EAS.	Based on the data type
ISFPRTLRECL	LRECL for new data sets	0000240
ISFPRTMEMBER	Member name	
ISFPRTMGMTCLAS	Management class for new data sets	
ISFPRTPRIMARY	Primary space allocation for new data sets	00000500

Table 359. Special REXX Variables for Printing to a Data Set (continued)

Variable	Purpose	Default
ISFPRTRECFM	Record format	VBA
ISFPRTSECONDARY	Secondary space allocation for new data sets	00000500
ISFPRTSPACETYPE	Space units for allocating for new data sets	BLKS
ISFPRTSTORCLAS	Storage class for new data sets	
ISFPRTUNIT	Unit for new data sets	
ISFPRTVOLSER	Volume serial for new data sets	

XF and XFC

Print all data sets to a file (DDNAME) using attributes specified in special variables; XFC closes the print file after printing. The special variables name attributes of the file.

Table 360. Special Variables for Printing to a File

Variable	Purpose
ISFPRTDDNAME	DDNAME

In the event of an error, such as the data being invalid or missing, SDSF issues a message that is available in the ISFMSG2 stem variable. In addition, the ISFMSG variable may contain a short error message.

Note that the print data set is always closed after the request regardless of whether the X action character includes the C option. This is because all SDSF requests are independent; the print data set is closed when SDSF terminates.

Examples of printing

See [“Print to SYSOUT”](#) on page 465.

Getting all of the values for a single row

You can request all of the column values for a specific row using the ISFGET host environment command, as follows:

```
➤➤ Address SDSF — " — ISFGET — command — Token — ( — options — ) — " — ➤➤
```

Token

```
➤➤ TOKEN — (" — token — ") — ➤➤
```

command

is the command for the panel. It must be the same SDSF command, including any parameters, that was previously entered with the ISFEXEC command.

token

identifies the row to be acted upon. The token was previously set by ISFEXEC or ISFACT for the panel accessed with *command*. Enclose the token in single quotation marks. For more information on tokens, see [“Using tokens”](#) on page 410.

option

is an optional list of options for the command. The closing parenthesis is optional. The options that you use depend on the type of the command you issue, and are explained in the topics that follow.

Return codes for ISFGET

After the ISFGET host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFGET command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Data returned for ISFGET

When you use an action character to access a secondary panel, such as JDS, ISFGET returns column and row data in the same way that ISFEXEC does. See [“Panel data returned” on page 403](#) for more information.

Options for getting all of the values for a row

You can use the following options with ISFGET:

ALTERNATE

requests the alternate field list for the panel

ALTERNATE2

requests the alternate field list for the secondary panel

COMPACT

specifies that column data for each row be returned in the SDSFROW stem variable, rather than in a separate stem variable for each column. This can dramatically reduce the number of variables, and therefore the amount of storage, required to satisfy a request for a panel. For more information, refer to [“Panel data returned” on page 403](#).

DELAYED

specifies that delayed-access columns be included on the panel

DELAYED2

specifies that delayed-access columns be included on the secondary panel

NOMODIFY2

specifies that row tokens for use in modifying rows should not be returned on the secondary panel. Use this to improve performance if you will not be modifying any values.

PRIMARY

requests the primary field list.

If you specify both PRIMARY and ALTERNATE, or neither PRIMARY nor ALTERNATE, the primary and alternate field lists are merged, and all the column variables for the panel are available.

PRIMARY2

requests the primary field list for a secondary panel.

If you specify both PRIMARY2 and ALTERNATE2, or neither PRIMARY2 nor ALTERNATE2, the primary and alternate field lists are merged, and all the column variables for the panel are available.

PREFIX value

specifies a prefix for column name and TOKEN variables that are created; use this to ensure that variable names do not conflict. The prefix can be up to 24 characters long, and should not begin with ISF.

VERBOSE

adds diagnostic messages to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.

Special variables with ISFGET

For information on special REXX variables, see [“Using special variables to invoke SDSF function”](#) on page 430 and [“Special variables reference”](#) on page 441.

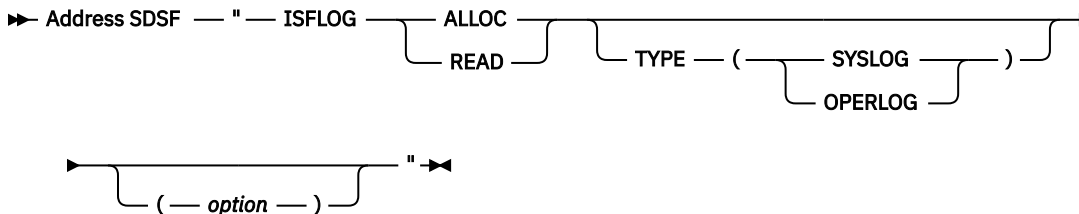
Browsing the system log with ISFLOG

You browse both the single-system SYSLOG and the sysplex-wide OPERLOG using the ISFLOG host environment command.

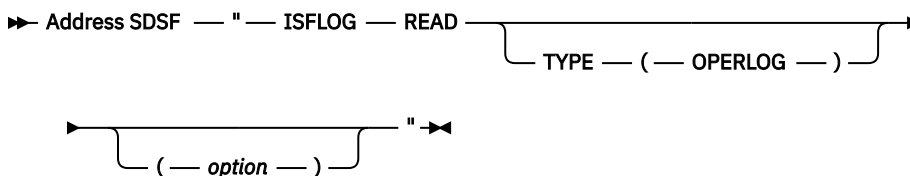
When used with the SYSLOG, the ISFLOG command processes the JES logical log.

The syntax of the ISFLOG command is as follows:

SYSLOG



OPERLOG



ALLOC

indicates that the logical SYSLOG is to be allocated for use with a utility such as EXECIO. The allocation is done with the FREE=CLOSE option so that the file is automatically de-allocated when closed.

Use ALLOC with these special stem variables:

- ISFDDNAME contains the ddname that is returned
- ISFDSNAME contains the data set name that is returned

READ

indicates that the system log is to be read. The records are returned in the ISFLINE stem variable. ISFLINE.0 contains the number of variables.

By default, SDSF retrieves the records for the current day. You can customize the results with these special variables:

- ISFLINELIM sets a limit on the number of variables created.
- ISFLOGSTARTTIME, ISFLOGSTARTDATE, ISFLOGSTOPTIME and ISFLOGSTOPDATE define the date and time range for the records. Use them to ensure that your date and time range is reasonable, so that an excessive number of variables is not created.

Note: Due to the precision of this field, positioning within the log will be approximate.

When these special variables are used, SDSF positions the SYSLOG as near as possible to the requested record. However, due to the precision used for time stamps and the time the record is actually written to SYSLOG, it is possible that this may be several lines away from the desired record.

- Variables that allow you to simulate scrolling through the data. These include ISFSCROLL, ISFSCROLLYPE, ISFNEXTLINETOKEN and ISFSTARTLINETOKEN.

For details on the special variables, refer to [“Special variables for use with the ISFLOG command” on page 425.](#)

TYPE(SYSLOG | OPERLOG)

is optional and names the type of system log to be used:

SYSLOG

specifies the single-system SYSLOG. Use the special variable ISFSYSID to indicate the member to be processed.

OPERLOG

specifies the sysplex-wide OPERLOG.

option

is optional. See [“Options for the ISFLOG command” on page 424.](#)

Use the special variable ISFSYSID to indicate the member to be processed.

Examples of using ISFLOG

The following examples illustrate how to use the ISFLOG command.

1. Allocate the logical SYSLOG for use with EXECIO.

```
Address SDSF "ISFLOG ALLOC TYPE(SYSLOG) "
```

2. Read the logical SYSLOG into the ISFLINE special variable.

```
Address SDSF "ISFLOG READ TYPE(SYSLOG) "
```

3. Read the OPERLOG into the ISFLINE special variable.

```
Address SDSF "ISFLOG READ TYPE(OPERLOG) "
```

4. Read the logical SYSLOG into the ISFLINE special variable and the WTORS into the ISFWTOR special variable.

```
Address SDSF "ISFLOG READ TYPE(SYSLOG) (WTOR) "
```

See also [“Work with the last 24 hours of SYSLOG” on page 467](#) and [“Work with the current day of the system log” on page 467.](#)

Options for the ISFLOG command

VERBOSE

adds diagnostic messages to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.

WTOR

causes any WTORS to be returned in the ISFWTOR. stem variable.

Special variables for use with the ISFLOG command

There are a number of special variables that you can use with the ISFLOG command. For information on special REXX variables, see [“Using special variables to invoke SDSF function” on page 430](#) and [“Special variables reference” on page 441](#).

Several of the special variables provide function that corresponds to scrolling through the data. For example, you might specify a number of lines that you want to retrieve with each browse request, using ISFLINELIM, then use logic and other special variables to advance through the data, as shown below:

```
isflinelim = 500
do until isfnnextlinetoken=' '
  Address SDSF "ISFLOG READ TYPE(SYSLOG)"
  /*****
  /* Loop through the lines
  /*****
  do ix=1 to isfline.0
    say isfline.ix
  end
  isfstartlinetoken = isfnnextlinetoken
end
```

Use these special variables with the ISFLOG command:

ISFCOLOR

is a stem variable containing a single-character abbreviation for the color for each line. The possible values come from first letter of these colors: Red, Green, Blue, White, Yellow, Turquoise, Pink. OPERLOG only.

ISFDATE

specifies the date format, including the separator character, for special variables that take a date as input. It accepts any format valid with the SET DATE command. See the SET DATE command in the online help for the valid formats.

ISFDESCODE

is a stem variable containing the descriptor codes for each line. When there are multiple descriptor codes, they are turned in a list, separated by blanks. OPERLOG only.

ISFFIRSTLINE DATE

is the date associated with the first line that was returned.

ISFFIRSTLINE DSID

is the data set identifier of the data set associated with the first line that was returned. SYSLOG only.

ISFFIRSTLINE JOBID

is the job ID associated with the first line that was returned. SYSLOG only.

ISFFIRSTLINE RECNO

is the record number within the data set of the first line that was returned. SYSLOG only.

ISFFIRSTLINE TIME

is the time associated with the first line that was returned.

ISFFIRSTLINE TOKEN

is a token corresponding to the first line of the data that was returned.

ISFHIGHLIGHT

is a stem variable containing a single-character abbreviation for the highlighting for each line. The possible values come from the first letter of these highlight values: Blink, Reverse, Underline and None. OPERLOG only.

ISFINTENSITY

is a stem variable containing a single-character abbreviation for the intensity for each line. The possible values come from the first letter of these intensities: High and Low. OPERLOG only.

ISFLASTLINE DATE

is the date associated with the last line that was returned.

ISFLASTLINE DSID

is the data set identifier of the data set associated with the last line that was returned. SYSLOG only.

ISFLASTLINEJOBID

is the job ID associated with the last line that was returned. SYSLOG only.

ISFLASTLINERECNO

is the record number within the data set of the last line that was returned. SYSLOG only.

ISFLASTLINETIME

is the time associated with the last line that was returned.

ISFLINE

contains the data that is returned. It is a stem variable. ISFLINE.0 contains the number of variables.

ISFLINELIM

limits the number of ISFLINE stem variables that may be created. The valid values are 0-999999999. A value of zero indicates no limit.

Note: You should limit the number of lines that are read by using the ISFLINELIM variable. When no limit is specified, it is likely that storage will be exhausted because an excessive number of REXX variables are created. You can balance the number of lines to read based on storage availability and performance. When fewer lines are read, more invocations of SDSF occur. When more lines are read in a single invocation, more storage is required.

ISFLOGSTARTDATE

specifies the starting date for records returned by the ISFLOG command, in the current date format (see the ISFDATE special variable) or *yyyy.ddd*. Leading zeros are not required. It must be less than the ending date. The default is the current day. Due to the precision of these fields, positioning within the log will be approximate.

ISFLOGSTARTTIME

specifies the starting time for records returned by the ISFLOG command, in *hh:mm:ss.th* format. Only *hh:mm* is required. Leading zeros are not required. This is the local time corresponding to the first record to be returned. It must be less than the ending time. The default is 00:00:00.00. Due to the precision of these fields, positioning within the log will be approximate.

ISFLOGSTOPDATE

specifies the ending date for records returned by the ISFLOG command, in the current date format (see the ISFDATE special variable) or *yyyy.ddd*. Leading zeros are not required. The default is the current day. Due to the precision of these fields, positioning within the log will be approximate.

ISFLOGSTOPTIME

specifies the ending time for records returned by the ISFLOG command, in *hh:mm:ss.th* format. Only *hh:mm* is required. Leading zeros are not required. This is the local time corresponding to the last record to be returned. The default is 23:59:59.99. Due to the precision of these fields, positioning within the log will be approximate.

ISFNEXTLINETOKEN

is a token corresponding to the next unread line of the data that was returned. It is null when an end-of-file condition is encountered.

ISFSTARTLINETOKEN

specifies the starting line for the data to be returned. Assign a value by setting the variable to either the ISFFIRSTLINETOKEN or ISFNEXTLINETOKEN special variable.

ISFSYSID

with the SYSLOG, names the member to be processed by the ISFLOG command. See the SYSID command in the online help.

ISFWTOR

is a stem variable that contains the WTORS, if requested with the WTOR option. ISFWTOR.0 contains the number of variables.

Use these special variables with the ISFLOG command for find and scroll functions:

ISFFIND

contains a string to be found, up to 255 characters. The find operation is not sensitive to case. Use this with a value of FINDNEXT or FINDPREV in the ISFSCROLLTYPE special variable.

ISFFINDENDCOL

specifies the column by which the string specified with the ISFFIND special variable must end. It must be less than ISFFINDSTARTCOL.

ISFFINDLIM

specifies the maximum number of lines to search for the string specified with the ISFFIND special variable. Valid values are 1000 through 9999999.

ISFFINDSTARTCOL

specifies the column in which the string specified with the ISFFIND special variable must start.

ISFSCROLL

is used to reposition the first line of data that is returned. Specify an integer to be used as an offset from the value in the ISFSTARTLINETOKEN special variable. Then, specify a value of UP or DOWN for the ISFSCROLLTYPE special variable. If ISFSTARTLINETOKEN is not specified, the offset is applied to the top of the data set.

ISFSCROLLTYPE

is used to reposition the first line of data that is returned. Specify one of these values:

UP or DOWN

is used with the value in the ISFSCROLL special variable. DOWN is the default.

TOP

specifies that the first record returned is the first record of the data. This is the default.

BOT

requests the bottom, or most recent, data. The last line returned is the last line of data. The first line returned is a function of the value of the ISFLINELIM special variable. For example, if you use BOT with a value of 100 for ISFLINELIM, the last 100 lines of data are returned.

FINDNEXT

is used with the value in the ISFFIND special variable to reposition to the next line that contains that string. If the ISFSTARTLINETOKEN special variable is not specified, the search begins with the top line.

FINDPREV

is used with the value in the ISFFIND special variable to reposition to the previous line that contains that string. If the ISFSTARTLINETOKEN special variable is not specified, the search begins with the top line, wraps to the bottom and then searches from there.

Return codes for ISFLOG

After the ISFLOG host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

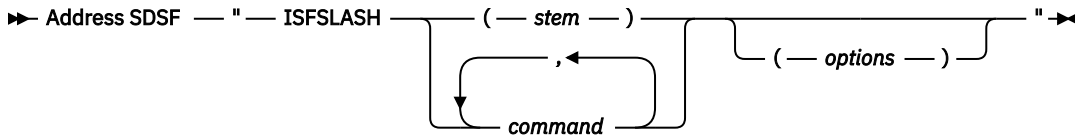
Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFLOG command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG

and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Issuing system commands with ISFSLASH

You issue system commands using the ISFSLASH host environment command as follows:



stem

is the name of a stem variable containing the list of system commands to be issued. The 0 variable of the stem must contain a count of the variables in the stem. The variable *stem* should:

- End in a period, to allow the commands to be put into compound variables
- Be enclosed in parentheses, to indicate that it is a stem variable
- Be 1 to 128 characters long
- Not start with the characters ISF

command

is one or more system commands to be issued, separated by commas (or blanks).

Enclose a command in single quotation marks, whether you are issuing it directly through ISFSLASH or using a stem variable, if the command:

- Contains special characters or embedded blanks
- Requires mixed case. Although SDSF preserves the case of the command text, Consoles folds the text to uppercase in issuing the command, unless it is enclosed in single quotation marks.

The W and I prefix parameters of the slash (/) command are not supported. Use the WAIT and INTERNAL options instead. See [“Options for slash \(/\) commands” on page 429](#) for more information.

The system commands can be up to 126 characters in length (the maximum length allowed by Consoles).

Examples of using ISFSLASH

The following examples illustrate how to issue a command with ISFSLASH.

1. Issue a single command. Wait the full delay interval (specified with variable ISFDELAY) for responses, rather than returning when the first response is received.

```
isfdelay="5"  
Address SDSF "ISFSLASH $da (WAIT)"
```

2. Issue a single command using a stem variable.

```
cmd.0=1  
cmd.1='d r,1'  
Address SDSF "ISFSLASH (cmd.)"
```

3. Issue multiple commands. Because the commands contain blanks, enclose them in single quotation marks.

```
Address SDSF "ISFSLASH $da , 'd a,1' 'd t'"
```

4. Issue multiple commands using a stem variable. SDSF will wait the full delay interval for the response.

```
mycmd.0=2  
mycmd.1='$DA'  
mycmd.2='d t'
```

```
isfdelay="5"  
Address SDSF "ISFSLASH (mycmd.) (WAIT)"
```

See also [“Issue system commands using ISFSLASH” on page 466.](#)

Options for slash (/) commands

INTERNAL

specifies that console ID 0 (INTERNAL) should be used to issue the command

WAIT

specifies that SDSF should wait the full delay interval before retrieving responses. This option is strongly recommended to ensure the responses are accessible in the ISFULOG special variable. The delay interval is specified with the ISFDELAY variable.

Special variables for slash (/) commands

Use special variables to set options such as the delay limit and the console name. Where the variable is associated with an SDSF command, the parameters for the variable are the same as for the command, with the exception that the ? parameter is not supported in REXX. Substitute the variable for the command, for example:

Command: SET DELAY 5

Variable: isfdelay="5"

For the syntax of commands, see the online help. For information on special REXX variables, see [“Using special variables to invoke SDSF function” on page 430](#) and [“Special variables reference” on page 441.](#)

ISFCMDLIM

limits the number of commands that may be issued through ISFSLASH. The limit is a value from 0-99999999 where 0 means no limit. The default is 0. If the number of stem variables exceeds the limit, all commands up to and including the limit are issued.

ISFCONMOD

controls console name modification. By default it is on, which means that when SDSF needs to activate an extended console and the default console name is already in use, SDSF attempts to activate a new console with a modified name. The default console name must be less than 8 characters, or SDSF cannot activate a new console. For more information, refer to the SET CONMOD command in the online help and [z/OS SDSF Operation and Customization](#).

If you run a REXX exec while using SDSF interactively, you should not disable console modification, to avoid an activation failure caused by the required console already being in use.

ISFCONS

specifies a name for the extended console for the user session log (ISFULOG stem variable). Refer to the SET CONSOLE command in the online help for more information.

If you run a REXX exec while using SDSF interactively and you have disabled console modification, you should specify a unique console name with ISFCONS, to avoid an activation failure caused by the required console already being in use.

ISFDELAY

specifies the response delay limit for system commands. Specify ISFDELAY="timeout-value", where *timeout-value* specifies the default timeout value (in seconds) for which SDSF will wait for message responses to the slash / command. The timeout value must be in the range of 0 to 9999 seconds, where 0 indicates that SDSF will neither wait nor display message responses on the message line.

The message responses are still written to the user session log. The default timeout value is 1 second. SDSF waits until the timeout value has passed or the first response is received.

ISFULOG

is a stem variable that contains the MVS system command echo and any responses generated during the session, including SAF authorization messages (if supported by the external security manager). ISFULOG.0 contains a count of the number of stem variables that follow.

For more information, see [“Issuing commands with ISFEXEC” on page 400](#).

Retrieving command responses

SDSF activates an EMCS console when issuing commands using ISFSLASH. Responses to the commands are sent to the console asynchronously. The console must stay activated to receive the responses and SDSF can only retrieve responses that are sent back to the console.

SDSF deactivates the console during termination. Responses that occur after the console is deactivated are not returned to SDSF. As a result, it is necessary to add a delay so that command responses can be retrieved prior to the console being deactivated.

You can use the `isfdelay` special variable and the ISFSLASH (WAIT option to control how SDSF manages the response delay. The `isfdelay` special variable specifies the delay limit in seconds. This is the time to wait until the first command response is received by SDSF. The interval must be high enough between when the command is issued until the first response is expected. If no response is received within the delay interval, the time expires and SDSF terminates.

When a command results in multiple single line messages, the `isfdelay` interval is satisfied when the first response is received. SDSF might terminate before all responses are sent to the console. Multi-line messages are received as a group and the delay interval is satisfied when the entire message is received.

To ensure that all responses to a command are received, you can add the (WAIT option to the ISFSLASH command. The WAIT option causes SDSF to wait the full delay interval for responses regardless of when the first response is received.

Return codes for ISFSLASH

After the ISFSLASH host environment command completes, a return code is set in the REXX variable RC. The values are:

00

The request completed successfully.

04

The request completed successfully but not all functions were performed.

08

An incorrect or invalid parameter was specified for an option or command.

12

A syntax error occurred in parsing a host environment command.

16

The user is not authorized to invoke SDSF.

20

A request failed due to an environmental error.

24

Insufficient storage was available to complete a request.

Note that a return code of 0 indicates that SDSF successfully processed the ISFEXEC command. It does not indicate that specific functions were authorized or that commands were executed. Check the ISFMSG and ISFMSG2 variables to determine if a request completed. See [“Messages” on page 401](#) for more information.

Using special variables to invoke SDSF function

Much of the function that SDSF commands provide when you use SDSF interactively is supported in the REXX environment by special REXX variables.

The special variables use the following format:

➤ *variable-name* — '=' — *parameters* — '—➤

The parameters for the variable are the same as for the associated command, with the exception that the ? parameter is not supported in REXX. The values of special variables are not saved across sessions (or invocations) in the REXX environment. The special variable names that begin with SDSF are affected by the PREFIX option of ISFEXEC or ISFACT, but no others are affected.

Special variable names are not case-sensitive.

Values specified with special variables do not have the 42-character (or, in the case of slash commands, 126-character) limit that commands entered with ISFEXEC have.

Where the variable is associated with an SDSF command, the parameters for the variable are the same as for the command, with the exception that the ? parameter is not supported in REXX. Substitute the variable for the command, for example:

Command: PREFIX RJONES*
Variable: isfprefix="RJONES*"

For the syntax of commands, see the online help. For a complete list of special REXX variables, see [“Special variables reference” on page 441](#).

To drop SDSF special variables (that is, unassign the variables and restore them to their original undefined state) use the ISFRESET() function. The option to use with ISFRESET corresponds to the variable type (Input, InOut or Output), indicated in the table. The variables for printing are all type Input. For more information, see [“Dropping special variables with ISFRESET” on page 433](#).

The variables are grouped here by command type:

- [“SDSF command” on page 431](#)
- [“Filter commands” on page 431](#)
- [“Options commands” on page 432](#)
- [“Trace commands” on page 433](#)

SDSF command

Use the following special variables for function that is equivalent to the parameters on the SDSF command.

ISFJESNAME

names the JES2 subsystem to process. See the JESNAME parameter in [z/OS SDSF Operation and Customization](#).

ISFJES3NAME

names the JES3 subsystem to process. See the JES3NAME parameter in [z/OS SDSF Operation and Customization](#).

Filter commands

Use the following special variables for function that is equivalent to the filter commands.

For some variables with names that begin with ISF, there are corresponding variables with names that begin with SDSF. These perform the same function, but are affected by the PREFIX option, so that their names include the prefix that you specify. In addition, if one or more secondary panels exists, these variables apply to the last secondary panel, rather than the panel that was accessed with a command. In the list that follows, these variable names are shown after the names that begin with ISF.

ISFDEST

specifies up to four destinations to be used for filtering. Each destination can be up to the maximum acceptable length for a destination. See the DEST command in the online help for syntax, but note these differences:

- The length of the value specified with ISFDEST can exceed the 42-character limit of the DEST command

- When specifying multiple destinations with ISFDEST, separate the destinations with a blank. Do not use the + operand used with the command.

ISFFILTER / SDSFFILTER

specifies filter criteria to be applied to the returned variables. Use the column names rather than the column titles. See the FILTER command in the online help. Use ISFFILTERMODE to specify the AND or OR relationship between filters.

ISFFILTERMODE / SDSFFILTERMODE

specifies a relationship between filters, both within a column and between columns. The relationship can be either AND or OR.

ISFINPUT

controls whether SYSIN data sets are returned. See the INPUT command in the online help.

ISFOWNER

specifies the owner to be used to limit the returned variables. See the OWNER command in the online help.

ISFPREFIX

specifies the job name to be used to limit the returned variables. See the PREFIX command in the online help.

ISFSYSNAME

specifies the system to be used to limit sysplex requests. See the SYSNAME command in the online help.

Options commands

Use the following special variables for function that is equivalent to the options commands, such as the SET commands.

ISFACTIONS

specifies whether the action characters for the current panel should be returned in the ISFRESP stem variable. The values in the ISFRESP variable are in this format: ACTION=*action*, where *action* is the action character or the action character and a description, depending on the option specified on ISFACTIONS. See the SET ACTION command in the online help for the valid options. See [“List action characters” on page 466](#) for an example.

ISFCKLIM

specifies the limit for the number of instances of a check to be shown on the CKH panel.

ISFCONMOD

controls console name modification. By default it is on, which means that when SDSF needs to activate an extended console and the default console name is already in use, SDSF attempts to activate a new console with a modified name. The default console name must be less than 8 characters, or SDSF cannot activate a new console. For more information, refer to the SET CONMOD command in the online help and [z/OS SDSF Operation and Customization](#).

If you run a REXX exec while using SDSF interactively, you should not disable console modification, to avoid an activation failure caused by the required console already being in use.

ISFCONS

specifies a name for the extended console for the user session log (ISFULOG stem variable). Refer to the SET CONSOLE command in the online help for more information.

If you run a REXX exec while using SDSF interactively and you have disabled console modification, you should specify a unique console name with ISFCONS, to avoid an activation failure caused by the required console already being in use.

ISFDATE

specifies the date format, including the separator character, for special variables used with the ISFLOG command that take a date as input. See the SET DATE command in the online help for the valid formats.

ISFDELAY

specifies the timeout for command responses. See the SET DELAY command in the online help.

ISFDISPLAY

contains the filtering and sorting criteria, for example,

PREFIX=* DEST=(ALL) OWNER=* SYSNAME=

See the SET DISPLAY command in the online help.

ISFDISPLAYMODE

sets the format of the ISFDISPLAY special variable. See the SET DISPLAY command in the online help. The OFF parameter is not valid in REXX.

ISFDUPDS

controls whether duplicate SYSOUT data sets are included.

ISFINPUT

controls whether SYSIN data sets are returned. See the INPUT command in the online help.

ISFSCHARS

specifies generic and placeholder characters used for pattern matching. See the SET SCHARS command in the online help.

ISFTIMEOUT

specifies the timeout interval for sysplex data. See the SET TIMEOUT command in the online help.

Trace commands

Use the following special variables for function that is equivalent to the SET SECTRACE command.

ISFSECTRACE

specifies an option to be used when enabling SDSF security trace

ISFMSG2

contains security trace messages, if you specified ISFSECTRACE ON

ISFULOG

contains security trace messages, if you specified ISFSECTRACE WTP

For more information, refer to [z/OS SDSF Operation and Customization](#).

Use the following special variables for function that is equivalent to the TRACE command.

ISFTRACE

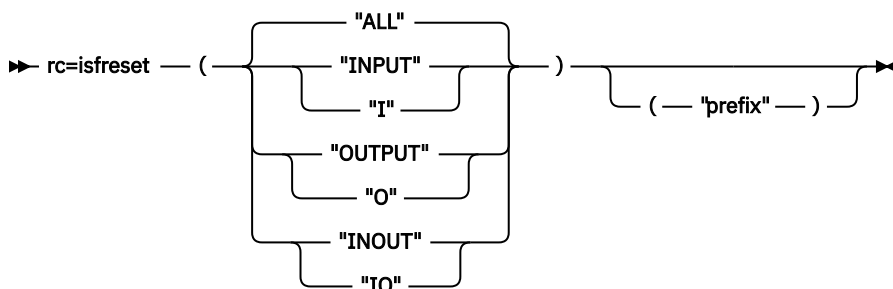
specifies a trace option to be used when enabling SDSF trace

ISFTRMASK

specifies a trace mask to be used when enabling SDSF trace

Dropping special variables with ISFRESET

You drop special variables using the ISFRESET() function. This unassigns the variables and restores them to their original undefined state. The syntax of ISFRESET is as follows:



ALL

all special variables. ALL is the default.

INPUT or I

all input special variables.

OUTPUT or O

all output special variables.

INOUT or IO

all input/output special variables.

prefix

is the prefix for the special variables that are to be dropped. Only special variables with that prefix for the specified type are dropped.

ISFRESET does not require access to SDSF and so no authorization is required to use it. ISFRESET is not dependent on ISFCALLS and can be issued at any point in the exec. However, it is most useful when issued prior to an Address SDSF command.

For a complete list of special variables, refer to [“Special variables reference” on page 441](#).

Result codes for ISFRESET

After the ISFRESET completes, a result code is set in the REXX variable RC. The values are:

0

The request completed successfully.

1

Environment error (for example, REXX is not running).

2

Syntax error occurred, for example, invalid parameter.

Invoking a REXX exec with an action character

Use the % action character to invoke a REXX exec from a tabular panel. The syntax is:

```
%(exec-name user-arguments)
```

Under ISPF, % by itself, or with a trailing +, displays a pop-up on which you can type the exec name and arguments. The pop-up preserves the case of the arguments. You can expand the NP column with +*n*, where *n* is 4-20.

% is not valid from the command line.

The exec must be in a data set that is allocated to DDNAME SYSEXEC or SYSPROC.

When creating an exec to be run with the % action character, you use the same statements and special variables as you do for an exec that runs outside of SDSF. However, there are some key differences. For example, an exec to be used with the % action character doesn't need an ISFEXEC statement to access the current panel, and it obtains the row token as an argument, rather than in the TOKEN. stem variable.

Execs generated by the RGEN command are intended to be run outside of SDSF, and not with the % action character.

Arguments

All execs invoked with the % action character are passed fixed arguments:

1. Current panel name (such as ST or DA)
2. Primary panel name (needed if the current panel is a secondary panel, accessed with an action character)
3. Token of the row for which you issued the % action character

4. Command that accessed the primary panel, including parameters as character hex because the argument may contain embedded blanks. Use the REXX built-in function x2c to restore to the original value.

5. Open left parenthesis

The panel names for primary panels are the command names (for example, ST or DA). For panels that can be accessed only with action characters, the names are the same as the panel name that is displayed when COLSHELP is issued (such as JS for the Job Step panel).

You pass additional arguments to the exec by typing them following the exec name, for example:

```
NP          JOBNAME JobID
%myexec x y SRB21FLI JOB17391
```

This invokes exec myexec against the row, with user arguments x and y, passed as a string. The exec must parse the string to obtain x and y.

Querying the environment

You can use isfquery to query the environment and return the associated REXX special variables. The syntax is isfquery("option"), where *option* is:

none

Test if the environment allows special variables to be provided. Code this is rc=isfquery(), with no value in the parentheses. rc=0 indicates the environment allows special variables to be provided.

ALL

All special variables

INIT

Special variables for SDSF settings, such as filters: ISFDEST, ISFJESNAME, ISFOWNER, ISFPREFIX, ISFSERVER

variable,variable,...

List of special variables. Enclose each in quotation marks, for example, "ISFPREFIX", "ISFOWNER"

WHO

Special variables corresponding to the WHO command:

ISFGLOBAL

JES3 global

ISFGLOBALREL

Global level

ISFGRPINDEX

Group index

ISFGRPNAME

Group name

ISFISPFREL

ISPF level

ISFJESNAME

JES name

ISFJESREL

JES level

ISFJESTYPE

JES type

ISFJES3NAME

JES3 name

ISFMEMBER

JES member

ISFMVSREL

MVS level

ISFPROCNAME

Logon procedure

ISFREL

SDSF level

ISFRMFREL

RMF/DA

ISFSECLABEL

Security label

ISFSERVER

Obsolete as of z/OS V2R3. Only a single SDSF address space can be active at a time.

ISFSYSPLEX

Sysplex name

ISFSYSTEM

System name

ISFTERMINAL

Terminal ID

ISFUSERID

User ID

For a complete example, refer to [“Invoking an exec with the % action character”](#) on page 469.

SDSF with REXX reference

This topic describes the REXX support for SDSF function.

SDSF commands reference

The SDSF commands and their use in REXX are described on the CMDH and ACTH panels.

- For ISFEXEC, enter **CMDH REXX** from the SDSF command line to list the valid commands that can be used with ISFEXEC.
- For ISFACT, enter **ACTH ALL REXX** from the SDSF command line to list the valid action characters that can be used with ISFACT.

For the syntax of the SDSF REXX commands, enter **HELP *command-name*** from the SDSF command line.

Action character reference

The action characters that are available when you use SDSF interactively are available when you use SDSF with REXX. The exceptions are described in [Table 361 on page 436](#). You can enter the ACTH command on any panel to display information about the available action characters.

Table 361. Action Characters Not Supported with REXX

Panel	Not supported	Comments
ACTH	./, /, //, %, =, +	
AD	./, /, //, %, =, +	
APF	./, /, //, %, =, +, S, SB, SE, SV	
AS	./, /, //, %, =, +, J	
AW	./, /, //, %, =, +	
CAT	./, /, //, %, =, +, LV	

Table 361. Action Characters Not Supported with REXX (continued)

Panel	Not supported	Comments
CDE (job modules)	./, +, /, %, =	
CFC	./, /, //, %, =, +	
CFD	./, /, //, %, =, +	
CFS	./, /, //, %, =, +	
CFSA	./, /, //, %, =, +, L	
CK (checks for IBM Health Checker for z/OS)	./, /, //, %, =, +, SB, SBI, SBO, SE, SEI, SEO, SV, SVI, SVO	Results for S (browse) are returned in the ISFLINE stem variable. For more information, see “Browsing checks with the S action character” on page 418.
CKH (history of a check)	./, /, //, %, =, +, SB, SE, SV	Results for S (browse) are returned in the ISFLINE stem variable. For more information, see “Browsing checks with the S action character” on page 418.
CKPT	./, /, //, %, =, +	
CMDH	./, /, //, %, =, +, A, C, H	
CMO	./, /, //, %, =, +	
COLH	./, /, //, %, =, +	
CS	./, /, //, %, =, +	
CSI	./, /, //, %, =, +, S	
CSR	./, /, //, %, =, +, J	
DA (active jobs)	./, /, //, %, =, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
DEV	./, /, //, %, =, +	
DEVS	./, /, //, %, =, +, LV	
DYNX	./, /, //, %, =, +	
EDT	./, /, //, %, =, +	
ELOG	./, /, //, %, =, +, L	
EMCS	./, /, //, %, =, +	
ENC (WLM enclaves)	./, /, //, %, =, +, I, M	
ENQ and ENQD	./, /, //, %, =, +	
FS	./, /, //, %, =, +	
FXE	./, /, //, %, =, +, S	
GT	./, /, //, %, =, +	

Table 361. Action Characters Not Supported with REXX (continued)

Panel	Not supported	Comments
H (held output queue)	./, /, //, %, =, +, J, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
HELP	./, //, %, =, +, S	
I (input queue)	./, /, //, =, +, I, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
INIT (initiators)	./, /, //, %, =, +, J	
JC (job classes)	./, /, //, %, =, +	
JCM	./, /, //, %, =, +	
JCS	./, /, //, %, =, +, S	
JD (job devices)	./, /, //, %, =, +	
JDDN	./, /, //, %, =, +, S, SB, SE, SV	
JDS (job data sets)	./, /, //, %, =, +, S, SB, SE, SJ, SV, V	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
JES	./, /, //, %, =, +, J	
JG (job group)	./, /, //, %, =, +, J, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
JM	./, /, //, %, =, +	
JMO	./, /, //, %, =, +	
Job Dependency	./, /, //, %, =, +	
JRI	./, /, //, %, =, +	
JRJ	./, /, //, %, =, +, D	
JRJC	./, /, //, %, =, +	
Job Resource Limit	./, /, //, %, =, +	
JRG	./, /, //, %, =, +	
JRU	./, /, //, %, =, +	
JS (job steps)	./, /, //, %, =, +, S, SB, SE, SJ, SV	

Table 361. Action Characters Not Supported with REXX (continued)

Panel	Not supported	Comments
Job Delay	./, /, //, %, =, +	
J0 (JES3 job 0)	./, /, //, %, =, +, S, SB, SE, SJ, SV	Use the ISFBROWSE command.
LI (lines)	./, /, //, %, =, +	
LLS	./, /, //, %, =, +	
LNK	./, /, //, %, =, +, S, SB, SE, SV	
LPA	./, /, //, %, =, +, S, SB, SE, SV	
LPAR	./, /, //, %, =, +	
LPD	./, /, //, %, =, +	
MAIN	S	
MAS (members in the MAS)	./, /, //, %, =, +	
MEM	./, /, //, %, =, +, Dn, Gn, M, RC, S	
MFD	./, /, //, %, =, +, S, SB, SV	
MFJ	./, /, //, %, =, +, S, SB, SV	
MFM	./, /, //, %, =, +, S, SB, SV	
MFP	./, /, //, %, =, +	
MGRP	., ..., ..A, .A, /, S	
NA	./, /, //, %, =, +, D	
NAP	./, /, //, %, =, +, L	
NC (network connections)	./, /, //, %, =, +	
NO (nodes)	./, /, //, %, =, +	
NS (network servers)	./, /, //, %, =, +, J	
O (output Queue)	./, /, //, %, =, +, J, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414.
OMVS	./, /, //, %, =, +, D	
PAG	./, /, //, %, =, +	
PARM	./, /, //, %, =, +, S, SB, SE, SV	
PC	./, /, //, %, =, +	
PLEX	./, /, //, %, =, +, V	
PPT	./, /, //, %, =, +	
PR (printers)	./, /, //, %, =, +	
PROC	./, /, //, %, =, +, S, SB, SE, SV	
PROD	./, /, //, %, =, +	

Table 361. Action Characters Not Supported with REXX (continued)

Panel	Not supported	Comments
PS (z/OS UNIX processes)	./, /, //, %, =, +	
PUN (punches)	./, /, //, %, =, +	
RAC	./, /, //, %, =, +	
RACF Access	./, /, //, %, =, +	
RACF Connects	./, /, //, %, =, +	
RACF Data Sets (RACD)	./, /, //, %, =, +	
RACF Information (RACF)	./, /, //, %, =, +, L	
RACP	./, /, //, %, =, +	
RACF RRSF Nodes (RACR)	./, /, //, %, =, +	
RDR (readers)	./, /, //, %, =, +	
REPC	./, /, //, %, =, +	
RES (WLM Resources)	./, /, //, %, =, +	
RGRP	./, /, //, %, =, +	
RLOG	./, ./, /, //, %, =, +, L	
RM (JES2 resources)	./, /, //, %, =, +	
RMA	./, /, //, %, =, +	
SE (WLM scheduling environments)	./, /, //, %, =, +	
SEARCH	./, /, //, %, =, +, S	
SMFD	./, /, //, %, =, +	
SMFL	./, /, //, %, =, +	
SMFO	./, /, //, %, =, +	
SMFR	./, /, //, %, =, +	
SMFS	./, /, //, %, =, +	
SMSG	./, /, //, %, =, +, V	
SMSV	./, /, //, %, =, +, V	
SO (spool offloaders)	./, /, //, %, =, +	
SP (spool volumes)	./, /, //, %, =, +	
SR (system requests)	./, /, //, %, =, +	
SRCH	./, /, //, =, +, S, SB, SE, SV	
SRVC	./, /, //, %, =, +	
SSI	./, /, //, %, =, +, I	

Table 361. Action Characters Not Supported with REXX (continued)

Panel	Not supported	Comments
ST (status of all jobs)	./, /, //, %, =, +, I, S, SB, SE, SJ, SV	For browse, use SA (browse allocate) and SJA (browse allocate JCL) or the ISFBROWSE command. For more information, see “Browsing output” on page 414 .
SVC	./, /, //, %, =, +	
SYM	./, /, //, %, =, +	
SYS	./, /, //, %, =, +	
SYSP	./, /, //, %, =, +, L	
TCB (Job Tasks)	./, /, //, %, =, +	
UCB	./, /, //, %, =, +	
UNIX Threads	./, /, //, %, =, +	
USI	./, /, //, %, =, +, S	
VMAP	./, /, //, %, =, +	
VTOC	./, /, //, %, =, +, S, SB, SE, SV	
WKLD	./, /, //, %, =, +	
WLM	./, /, //, %, =, +	
XCFA	./, /, //, %, =, +	
XCFM	./, /, //, %, =, +	
XCFP	./, /, //, %, =, +	

Special variables reference

Table 362 on page 441 shows the special REXX variables, with the exception of the variables for printing, which are shown in [“Printing output” on page 419](#).

Table 362. Special REXX Variables

Variable	Type	Associated Command	Description	Comments
ISFACTIONS	Input	SET ACTION	Controls the display of action characters for current panel	Action characters and optional descriptions are returned in the ISFRESP stem variables.
ISFAPPC	Input	APPC	Controls the display of APPC transactions	
ISFCMDLIM	Input	Slash (/)	Limits the number of commands that may be issued through ISFSLASH	

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFCKLIM	Input	SET CKLIM	Sets the maximum number of instances of a check to display on the CKH panel	
ISFCOLOR	Output		Stem variable containing the color of each line. The possible values are the first letters of the colors Red, Green, Blue, White, Yellow, Turquoise, Pink.	OPERLOG only
ISFCOLS	InOut		Input: sets the list of columns to be returned Output: contains list of columns that are returned	Limits the columns (and so the variables) that are created
ISFCOLS2	InOut		Input: sets the list of columns to be returned for a secondary panel Output: contains the list of columns that are returned for a secondary panel	Limits the columns (and so the variables) that are created
ISFCOLUMNGROUPS	Output		Lists column grouping information for the columns listed in the ISFCOLS variable.	
ISFCONMOD	Input	SET CONMOD	Controls the automatic modification of the extended console name when SDSF needs to activate a console (for issuing system commands and for the ULOG) and the default console name is in use	
ISFCONS	Input	SET CONSOLE	Sets the console name	If you have disabled console modification, you should change the console name when running a REXX exec while running SDSF interactively, to avoid an activation failure because the console is already in use.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFDATE	Input	SET DATE	Sets the date format for input on special variables	Does not affect the date format for returned stem variables
ISFDCOLS	Output		Contains the list of delayed access columns for the panel	
ISFDCOLS2	Output		Contains the list of delayed access columns for the secondary panel	
ISFDDNAME	Output, Stem		Stem variable that contains the system-generated DDNAME of an allocated SYSOUT data set. ISFDDNAME.0 contains a count of the number of variables that follow.	Set in response to a browse allocation action character, such as SA and SJA
ISFDELAY	Input	SET DELAY	Sets the response delay limit for system commands	
ISFDESCODE			Stem variable containing the descriptor codes for each line. When there are multiple descriptor codes, they are returned in a list, separated by blanks.	OPERLOG only
ISFDEST	Input	DEST	Sets the destinations to be used for filtering	Allows up to four destinations, with each being up to the maximum acceptable length for a destination
ISFDIAG	Output		Intended for use by IBM service personnel	See “ Diagnosing errors in a REXX exec ” on page 485.
ISFDISPLAY	Output		Contains the SET DISPLAY response for tabular panels	
ISFDISPLAYMODE	Input	SET DISPLAY	Sets the format of the ISFDISPLAY special variable	The value OFF is not valid with REXX.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFDSNAME	Output, Stem		Stem variable that contains the application-specified data set name (that is, the data set name as shown on the Job Data Set panel). Corresponds to the DDNAME listed in ISFDDNAME. The variables have a one-to-one correspondence with the ISFDDNAME stem variables. ISFDSNAME.0 contains a count of the number of variables that follow.	Set in response to a browse allocation action character, such as SA and SJA
ISFDUPDS	Input	SET DUPDS	Controls whether duplicate SYSOUT data sets are included when browsing or printing	
ISFFILTER	Input	FILTER	Sets filter criteria	Use column names rather than column titles. Supported with tabular panels.
ISFFILTER2	Input	FILTER	Sets filter criteria for a secondary panel	Use column names rather than column titles.
ISFFILTERMODE	Input	FILTER	Sets the relationship between filters	
ISFFILTERMODE2	Input	FILTER	Sets the relationship between filters for a secondary panel	
ISFFIND	Input	FIND	String to be found (up to 255 characters).	Use when browsing with ISFBROWSE or ISFLOG.
ISFFINDENDCOL	Input	FIND	Column in which the string specified with ISFFIND must end.	Use when browsing with ISFBROWSE or ISFLOG.
ISFFINDLIM	Input	FINDLIM	Maximum number of lines to search for the string specified with ISFFIND. 1000 to 9999999.	Use when browsing with ISFBROWSE or ISFLOG.
ISFFINDSTARTCOL	Input	FIND	Column in which the string specified with ISFFIND must start.	Use when browsing with ISFBROWSE or ISFLOG.
ISFFIRSTLINE DATE	Output		Date associated with the first line that was returned.	Use when browsing the log.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFFIRSTLINEDSID	Output		Data set identifier of the data set associated with the first line that was returned.	Use when browsing. Not valid with OPERLOG.
ISFFIRSTLINEJOBID	Output		Job ID associated with the first line that was returned.	Use when browsing the SYSLOG.
ISFFIRSTLINERECNO	Output		Record number within the data set of the first line that was returned.	Use when browsing. Not valid with OPERLOG.
ISFFIRSTLINETIME	Output		Time associated with the first line that was returned.	Use when browsing the log.
ISFFIRSTLINETOKEN	Output		Token corresponding to the first line of the data that was returned.	Use when browsing with ISFBROWSE or ISFLOG.
ISFHIGHLIGHT	Output		Stem variable containing the highlighting of each line. The possible values are the first letters of Blink, Reverse, Underline and None.	OPERLOG only
ISFINPUT	Input	INPUT	Controls which data sets will be returned	
ISFINTENSITY	Output		Stem variable containing the intensity of each line. The possible values are the first letters of High and Low.	OPERLOG only
ISFJESNAME	Input		Sets the JES subsystem to be processed	Equivalent to the value specified on the JESNAME option of the SDSF command (JES2 only).
ISFJES3NAME	Input		Sets the JES subsystem to be processed	Equivalent to the value specified on the JES3NAME option of the SDSF command (JES3 only).
ISFLASTLINE DATE	Output		Date associated with the last line that was returned.	Use when browsing the log.
ISFLASTLINEDSID	Output		Data set identifier of the data set associated with the last line that was returned.	Use when browsing. Not valid with OPERLOG.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFLASTLINEJOBID	Output		Job ID associated with the last line that was returned.	Use when browsing the SYSLOG.
ISFLASTLINERECNO	Output		Record number within the data set of the last line that was returned.	Use when browsing. Not valid with OPERLOG.
ISFLASTLINETIME	Output		Time associated with the last line that was returned.	Use when browsing the log.
ISFLINE	Output, Stem		Stem variable that contains the result of a browse request. ISFLINE.0 contains a count of the number of variables that follow.	Use when browsing the log or a check.
ISFLINELIM	Input		Limits the number of ISFLINE stem variables that may be created. The valid range is 0-99999999. A value of zero indicates no limit.	If the variable is not defined or null, there is no limit.
ISFLOGSTARTTIME	Input		Specifies the starting time for records returned by the ISFLOG command, in <i>hh:mm:ss.th</i> format. Only <i>hh:mm</i> is required. This is the local time corresponding to the first record to be returned.	If the variable is not defined or the value is null, the starting time is 00:00:00.00.
ISFLOGSTARTDATE	Input		Specifies the starting date for records returned by the ISFLOG command, in the current date format or either of these formats: <i>yyyy.ddd</i> or <i>yy.ddd</i> .	The default is the current day.
ISFLOGSTOPTIME	Input		Specifies the ending time for records returned by the ISFLOG command, in <i>hh:mm:ss.th</i> format. Only <i>hh:mm</i> is required. This is the local time corresponding to the last record to be returned.	If the variable is not defined or the value is null, the ending time is 23:59:59.99.
ISFLOGSTOPDATE	Input		Specifies the ending date for records returned by the ISFLOG command, in the current date format or either of these formats: <i>yyyy.ddd</i> or <i>yy.ddd</i> .	The default is the current day.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFLRECL	Output, Stem		Stem variable that contains the logical record length for the allocated data set and corresponds to the DDNAME listed in ISFDNAME. ISFLRECL.0 contains a count of the number of variables that follow.	
ISFMENU	Input	SET MENU	Specifies the type of entries returned by the MENU command.	See the topic “ SET MENU ” on page 512.
ISFMSG	Output		Contains the SDSF short message, if any, set on the completion of each request	Check at the completion of each request.
ISFMSG2	Output, Stem		Stem variable that is set to any numbered messages that may have been issued in response to the request. ISFMSG2.0 contains the count of message variables that follow. The message variables contain the oldest message first.	Check at the completion of each request.
ISFNEXTLINETOKEN	Output		Token corresponding to the next unread line of the data. It is null when an end-of-file condition is encountered.	Use when browsing with ISFBROWSE or ISFLOG.
ISFOWNER	Input	OWNER	Sets the owner to be used for filtering	Use the default SDSF generic characters unless you change them with the ISFSCHARS variable.
ISFPREFIX	Input	PREFIX	Sets the job name prefix to be used for filtering	Uses the default SDSF generic characters unless you change them with the ISFSCHARS variable.
ISFPRTBLKSIZE	Input		Block size for new data sets	Use with XD and XDC action characters.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFPRTCCASA	Input	SET PRTCCASA	Sets how SDSF handles carriage control for printing	Use with ISFPRTRECFM.
ISFPRTCLASS	Input		SYSOUT class	Use with X, XC, XS and XSC action characters.
ISFPRTCOPIES	Input		Copies class	Use with X, XC, XS and XSC action characters.
ISFPRTDATACLAS	Input		Data class for new data sets	Use with XD and XDC action characters.
ISFPRTDDNAME	Input		DDNAME	Use with XF and XFC action characters.
ISFPRTDEST	Input		Destination	Use with X, XC, XS and XSC action characters.
ISFPRTDIRBLKS	Input		Number of directory blocks for new data sets	Use with XD and XDC action characters.
ISFPRTDISP	Input		Allocation disposition for data sets	Use with XD and XDC action characters.
ISFPRTDSNAME	Input		Data set name. If the name is not enclosed in quotation mark, the name begins with the current user ID.	Use with XD and XDC action characters.
ISFPRTFCB	Input		FCB	Use with X, XC, XS and XSC action characters.
ISFPRTFORMDEF	Input		FORMDEF	Use with X, XC, XS and XSC action characters.
ISFPRTFORMS	Input		Forms	Use with X, XC, XS and XSC action characters.
ISFPRTLRECL	Input		Logical record length	Use with XD, XDC, XS and XSC action characters.
ISFPRTMEMBER	Input		Member name	Use with XD and XDC action characters.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFPRTMGMTCLAS	Input		Management class for new data sets	Use with XD and XDC action characters.
ISFPRTOUTDESNAME	Input		Output descriptor name to be used when creating the file	Use with X, XC, XS and XSC action characters.
ISFPRTPAGEDEF	Input		PAGEDEF	Use with X, XC, XS and XSC action characters.
ISFPRTPRIMARY	Input		Primary space allocation for new data sets	Use with XD and XDC action characters.
ISFPRTPRTMODE	Input		Process mode	Use with X, XC, XS and XSC action characters.
ISFPRTRECFM	Input		Record format	Use with XD, XDC, XS and XSC action characters.
ISFPRTSECONDARY	Input		Secondary space allocation for new data sets	Use with XD and XDC action characters.
ISFPRTSOURCEATTS	Input		Whether to use attributes of the source for printing	Use with the XS and XSC action characters.
ISFPRTSPACETYPE	Input		Space units for allocating for new data sets	Use with XD and XDC action characters.
ISFPRTSTORCLAS	Input		Storage class for new data sets	Use with XD and XDC action characters.
ISFPRTUCS	Input		UCS	Use with X, XC, XS and XSC action characters.
ISFPRTUNIT	Input		Unit for new data sets	Use with XD and XDC action characters.
ISFPRTVOLSER	Input		Volume serial for new data sets	Use with XD and XDC action characters.
ISFPRTWRITER	Input		Writer name	Use with the XS and XSC action characters.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFRCOLS	Output		Contains a list of columns with related fields	Related fields are sets of related columns, such as SFORMS and SFORM2-8 on the Printer panel.
ISFRCOLS2	Output		Contains a list of columns with related fields for a secondary panel	
ISFRECFM	Output, Stem		Stem variable that contains the record format for the allocated data set and corresponds to the DDNAME listed in ISFDDNAME. ISFRECFM.0 contains a count of the number of variables that follow.	
ISFRESP	Output, Stem		Stem variable that contains responses from commands. ISFRESP.0 contains the count of the response variables that follow.	Commands such as WHO use the ISFRESP stem variables to provide the command response.
ISFROWS	Output		Contains the number of rows created by a request for a tabular panel	Equivalent to the zero stem for each of the column variables
ISFROWS2	Output		Contains the number of rows created by a request for a secondary panel	Equivalent to the zero stem for each of the column variables
ISFSCHARS	Input	SET SCHARS	Sets the generic and placeholder characters to be used in pattern matching	
ISFSCROLL	Input	Scrolling commands	Repositions the first line of data that is returned	Use when browsing with ISFBROWSE or ISFLOG.
ISFSCROLLTYPE	Input	Scrolling commands	Repositions the first line of data that is returned	Use with ISFSCROLL.
ISFSECTRACE	Input	SET SECTRACE	Controls tracing of SDSF security	Use with ISFMSG2 or ISFULOG.
ISFSERVER	Input		Obsolete as of z/OS V2R3. Only a single SDSF address space can be active at a time.	Corresponds to the SERVER option on the SDSF command

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFSORT	Input	SORT	Sets the sort criteria	Use the column names instead of the column titles. To sort using the fixed field, assign the value to null.
ISFSORT2	Input	SORT	Sets the sort criteria for a secondary panel	Use the column names instead of the column titles. To sort using the fixed field, assign the value to null.
ISFSTARTLINETOKEN	Input		Starting line for the data to be returned.	Specify this value by setting the variable to either ISFFIRSTLINETOKEN or ISFNEXTLINETOKEN.
ISFSYSID	Input	SYSID	Specifies the member to be processed by the ISFLOG command	
ISFSYSNAME	Input	SYSNAME	Sets the system name to be used for filtering sysplex requests	Use the default SDSF generic characters unless you have changed them with the ISFSCHARS variable.
ISFTIMEOUT	Input	SET TIMEOUT	Sets the response timeout value for sysplex requests	JES2 only
ISFTITLES	Output		Contains the column titles associated with the variables that are returned	The titles are listed in the same order as the column names in the ISFCOLS variable. Titles are enclosed by single quotation marks and separated by blanks.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFTITLES2	Output		Contains the column titles associated with the variables that are returned for the secondary panel	The titles are listed in the same order as the column names in the ISFCOLS2 variable. Titles are enclosed by single quotation marks and separated by blanks.
ISFTLINE	Output		Contains the title line from the tabular panel	The title line frequently contains dynamic data related to the panel being accessed. The format of the data may vary and is subject to change at any time.
ISFTRACE	Input	TRACE	Sets the trace option to be used when enabling SDSF trace	This variable is intended to be used for the trace option since two trace commands are necessary to enable tracing. However, any operand acceptable to the trace command will be accepted for this variable.
ISFTRMASK	Input	TRACE	Sets the trace mask to be used when enabling SDSF trace	This variable is intended to be used for a trace mask since two trace commands are necessary to enable tracing: one to enable trace and the other for the mask. However, any non-blank operand acceptable to the trace command will be accepted for this variable. This variable is ignored if the value is null.

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
ISFUCOLS	Output		Contains the list of modifiable columns for the panel	Contains the columns defined as modifiable, but you may not necessarily be authorized to modify them. Authorization is not determined until you attempt to modify a column.
ISFUCOLS2	Output		Contains the list of modifiable columns for the secondary panel	Contains the columns defined as modifiable, but you may not necessarily be authorized to modify them. Authorization is not determined until you attempt to modify a column.
ISFULOG	Output, Stem		Stem variable that contains the MVS system command echo and any responses generated during the session, including SAF authorization messages. The ISFULOG.0 stem variable contains a count of the variables that follow.	The ISFULOG stem variables are formatted in the same manner as the ULOG panel. Use the WAIT option on the ISFACT command to ensure that the command responses are available in the ISFULOG stem variable.
ROWACTIVE	Output, Stem		Stem variable that indicates whether the object (for example, the job or the printer) is active. The value is either Y (active) or N (inactive). ROWACTIVE.0 contains a count of the number of stem variables that follow.	
SDSFCOLLEN	Output		Contains the lengths of column data in SDSFROW	
SDSFCOLCOUNT	Output		Contains the number of values associated with the column	

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
SDSFCOLSTART	Output		Contains the starting positions of column data in SDSFROW	
SDSFCOLUMNGROUPS	Output		Lists column grouping information for the columns	Like ISFCOLUMNGROUPS, but affected by the PREFIX option and applies to the last secondary panel, if any
SDSFDCOLS	Output		Contains the list of delayed columns for the panel	Like ISFDCOLS, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFFILTER	Input		Sets filter criteria	Like ISFFILTER, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFFILTERMODE	Input		Sets the relationship between filters	Like ISFFILTERMODE, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFICOLS	Input		Sets the list of columns to be returned	Like ISFCOLS, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFOCOLS	Output		Contains list of columns that are returned	Like ISFCOLS, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFRCOLS	Output		Contains the list of columns with related fields for the panel	Like ISFRCOLS, but affected by the PREFIX option, and applies to the last secondary panel, if any

Table 362. Special REXX Variables (continued)

Variable	Type	Associated Command	Description	Comments
SDSFROW	Output, Stem		Stem variable that contains the data when you use the COMPACT option when accessing a panel	
SDSFSORT	Input		Sets the sort criteria	Like ISFSORT, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFTITLES	Output		Contains the column titles associated with the variables that are returned	Like ISFTITLES, but affected by the PREFIX option, and applies to the last secondary panel, if any
SDSFUCOLS	Output		Contains the list of modifiable columns for the panel	Like ISFUCOLS, but affected by the PREFIX option, and applies to the last secondary panel, if any

Examples of REXX execs

Note: Use the RGEN X command to display a list of examples that you can select and open in ISPF Edit.

The examples in this topic contain just the SDSF-specific portions of the execs.

For information about other examples, see [“Other sources of information” on page 394](#).

Access an SDSF panel

1. Access the ST panel, creating variables for each column, then list the column variables.

```

/* REXX */
rc=isfcalls('ON')
/* Access the ST panel */
Address SDSF "ISFEXEC ST"
if rc<>0 then
  Exit rc
/* Get fixed field name from first word */
/* of isfcols special variable */
fixedField = word(isfcols,1)
Say "Number of rows returned:" isfrows
/* Process all rows */
do ix=1 to isfrows
  Say "Now processing job:" value(fixedField"."ix)
  /* List all columns for row */
  do jx=1 to words(isfcols)
    col = word(isfcols,jx)
    Say " Column" col"."ix "has the value:" value(col"."ix)
  end
end
rc=isfcalls('OFF')

```

2. Use the ISFCOLS special variable to limit the columns to Job Name and Owner, then access the ST panel. Add the following statement to the exec in example 1, prior to the ISFEXEC command.

```
ISFCOLS = 'JNAME OWNERID'
```

3. Access the ST panel using the COMPACT option, creating the SDSFROW stem variable for panel data, then list the column data.

```
/* REXX */
rc = isfcalls("ON")
Address SDSF 'ISFEXEC ST ( COMPACT PREFIX ST_'
Do ix=1 to st_sdsfrow.0
  Say '***** ROW' ix '*****'
  Do jx=1 to words(st_sdsfocls) /* For each column */
    w1 = word(st_sdsfocls,jx) /* Get the column name */
    w2 = word(st_sdsfcolstart,jx) /* Get the corresponding data start index */
    w3 = word(st_sdsfcollen,jx) /* Get the corresponding data length */
    w4 = word(st_sdsfcolcount,jx) /* Get the number of related fields */
    /* Use substr function to parse the value from sdsfrow variable for row */
    Do kx=1 to w4
      Say w1 '=' substr(st_sdsfrow.ix,w2,w3)
      w2=w2+w3 /* Add the column length to get the next related value */
    End
  End
End
rc = isfcalls("OFF")
```

Cancel a job

Cancel all jobs with a certain job name using the P action character. First, access the ST panel to create the row variables for each job and the associated tokens. Loop through the rows, checking the job name for each in the JNAME variables. When the desired job name is found, use the ISFACT command to issue the P action character.

```
/* REXX */
rc=isfcalls('ON')
/* Set the jobname prefix and owner */
isfprefix="**"
isfowner="*"
/* Access the ST panel. A TOKEN variable is */
/* created for each row which is subsequently */
/* needed to perform actions */
Address SDSF "ISFEXEC ST"
lrc=rc
call msgtrn /* List any error messages */
if lrc<>0 then
  exit 20
/* Find all jobs starting with RJONES and cancel them */
numrows=isfrows
do ix=1 to numrows /* Loop for all rows returned */
  if pos("RJONES",JNAME.ix) = 1 then /* If this is desired row */
  do
    /* Issue the P action character for the job */
    /* identified by the token variable. Note */
    /* the token must be enclosed in single quotes */
    Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP P)"
    lrc=rc
    call msgtrn
    if lrc<>0 then
      exit 20
  end
end
rc=isfcalls('OFF')
exit
/* Subroutine to list error messages */
msgtrn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>"" then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
  do ix=1 to isfmsg2.0
    Say "isfmsg2."ix "is:" isfmsg2.ix
```

```

end
return

```

Cancel a set of jobs

After setting the special variables `isfprefix` and `isfowner` to limit the jobs returned, use `ISFEXEC` to access the ST panel. Then use `ISFACT` to issue the P action character for all of the jobs returned.

```

/* REXX */
rc=isfcalls('ON')
/* Set the jobname prefix and owner */
isfprefix="ctest*"
isfowner="weber"
/* Access the ST panel. A TOKEN variable is */
/* created for each row which is subsequently */
/* needed to perform actions */
Address SDSF "ISFEXEC ST"
lrc=rc
call msggrtn /* List any error messages */
if lrc<>0 then
  exit 20
/* The tokens have already been assigned to the TOKEN stem */
/* by ISFEXEC. TOKEN.0 has the count of tokens. All rows */
/* returned by ISFEXEC will be canceled with the single */
/* invocation of ISFACT. */
Address SDSF "ISFACT ST TOKEN((TOKEN.)) PARM(NP P)"
lrc=rc
call msggrtn
if lrc<>0 then
  exit 20
rc=isfcalls('OFF')
Exit

/* Subroutine to list error messages */
msggrtn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>"" then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end
return

```

List job data sets

Access the ST panel to create the row variables and the associated tokens. Loop through the rows, checking the job name (JNAME) variables. When the desired job name is found, use the `ISFACT` command to issue the ? action character. Then, loop through the rows to list the data sets.

```

/* REXX */
rc=isfcalls('ON')
/* Access the ST panel. A TOKEN variable is */
/* created for each row which is subsequently */
/* needed to perform actions */
Address SDSF "ISFEXEC ST"
lrc=rc
call msggrtn /* List any error messages */
if lrc<>0 then
  exit 20
/* Find a job starting with RJONES and list data sets */
numrows=isfrows
do ix=1 to numrows /* Loop for all rows returned */
  if pos("RJONES",JNAME.ix) = 1 then /* If this is desired row */
  do
    /* Issue the ? action character for the job */
    /* identified by the token variable. Note */
    /* the token must be enclosed in single quotes */
    /* Use the prefix option to ensure unique */
    /* variables are created, beginning with JDS_ */
    Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP ?)",
    ("prefix JDS_
    lrc=rc
    call msggrtn
    if lrc<>0 then

```

```

        exit 20
    do jx=1 to JDS_DDNAME.0 /* loop for all rows returned */
        say "DDNAME is " JDS_DDNAME.jx
    end
    lrc=rc
    call msggrtn
    if lrc<>0 then
        exit 20
    end
end
rc=isfcalls('OFF')
Exit
/* Subroutine to list error messages */
msggrtn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>"" then
    Say "isfmsg is:" isfmsg
    /* The isfmsg2 stem contains additional descriptive */
    /* error messages */
    do ix=1 to isfmsg2.0
        Say "isfmsg2."ix "is:" isfmsg2.ix
    end
end
return

```

Modify values in columns

Modify a value

Using ISFEXEC, access the O panel. Then, for jobs with a particular owner (RJONES), use ISFACT to change the class to A and forms to 1234.

```

/* REXX */
rc=isfcalls('ON')
/* Access the O display */
Address SDSF "ISFEXEC O"
lrc=rc
call msggrtn
if lrc<>0 then
    exit 20
/* Find all jobs owned by RJONES */
do ix=1 to OWNERID.0
    if OWNERID.ix = "RJONES" then /* If this is desired row */
        do
            /* Issue the action against the row identified by */
            /* the token. The PARM contains the column name */
            /* to be modified and the data to use. */
            Address SDSF "ISFACT O TOKEN('TOKEN.ix')",
                "PARM(OCCLASS A FORMS 1234)"
            lrc=rc
            call msggrtn
            if lrc<>0 then
                exit 20
            end
        end
    end
rc=isfcalls('OFF')
Exit
/* Subroutine to list error messages */
msggrtn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
/*****
if isfmsg<>"" then
    Say "isfmsg is:" isfmsg
    /* The isfmsg2 stem contains additional descriptive */
    /* error messages */
    do ix=1 to isfmsg2.0
        Say "isfmsg2."ix "is:" isfmsg2.ix
    end
end
return

```

Modify a set of values

When a column has a set of related values, you use a +column syntax on the ISFACT statement to show that you are supplying multiple values. This example shows the ISFACT statement to supply multiple

values for SDESTN1 on the PR column. You could use it with an exec like the one in the first example. Note that if you queried the contents of the columns, SDESTN1 would contain only the first value. The second value would be in SDESTN2.

```
Address "SDSF ISFACT PR TOKEN('"TOKEN.ix"')",  
        "PARM(SDESTN1 D1 +SDESTN1 D2)"
```

Modify a value for a set of jobs

After setting the special variables isfprefix and isfowner to limit the jobs returned, use ISFEXEC to access the ST panel. Then use ISFACT to change the priority of those jobs to 10.

```
/* REXX */  
rc=isfcalls("on")  
isfprefix="**"  
isfowner="ken"  
Address SDSF "ISFEXEC ST"  
if rc=0 then  
  do  
    /* The tokens have already been assigned to the TOKEN stem */  
    /* by ISFEXEC. TOKEN.0 has the count of tokens. All rows */  
    /* returned by ISFEXEC will be changed with the single */  
    /* invocation of ISFACT. */  
    Address SDSF "ISFACT ST TOKEN((token.)) PARM(JPRIO 10)"  
    /* List messages returned by ISFACT */  
    do ix=1 to isfmsg2.0  
      Say isfmsg2.ix  
    end  
    /* List returned command responses */  
    do ix=1 to isfulog.0  
      Say isfulog.ix  
    end  
  end  
rc=isfcalls("off")
```

Browse job output with EXECIO

Using ISFEXEC, access the ST panel to create the row variables for jobs. Then, for each job with a name that matches a desired string (RJONES1), use ISFACT to issue the SA action character. SA allocates the job data sets and sets the ISFDDNAME special variable to the DDNAME for each data set that has been allocated. Use the ISFDDNAME variable as input on the EXECIO command and list the contents of the data sets.

```
/* REXX */  
rc=isfcalls('ON')  
/* Access the ST display */  
Address SDSF "ISFEXEC ST"  
lrc=rc  
call msggrtn  
if lrc<>0 then  
  exit 20  
/* Loop for all RJONES jobs */  
do ix=1 to JNAME.0  
  if JNAME.ix = "RJONES" then  
    do  
      /* Issue the SA action against the row to */  
      /* allocate all data sets in the job. */  
      Address SDSF "ISFACT ST TOKEN('"TOKEN.ix"') PARM(NP SA)"  
      lrc=rc  
      call msggrtn  
      if lrc<>0 then  
        exit 20  
      /* The data set name for each allocated data */  
      /* set is contained in the isfdsname stem. The */  
      /* ddname returned by allocation is contained */  
      /* in the isfddname stem. */  
      Say "Number of data sets allocated:" value(isfdsname".0")  
      /* Read the records from each data set and list them */  
      do jx=1 to isfddname.0  
        Say "Now reading" isfdsname.jx  
        "EXECIO * DISKR" isfddname.jx "(STEM line. FINIS"  
        Say " Lines read:" line.0  
        do kx = 1 to line.0
```

```

        Say "  line."kx "is:" line.kx
      end
    end
  end
end
rc=isfcalls('OFF')
exit
/* Subroutine to list error messages */
msggrtn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>" " then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
  do ix=1 to isfmsg2.0
    Say "isfmsg2."ix "is:" isfmsg2.ix
  end
end
return

```

Browse job output with ISFBROWSE (basic)

Using ISFEXEC, access the ST panel to create the row variables for jobs. Then, for each job with a name that matches a desired string (RJONES), use the ISFBROWSE command to display the output for that job.

```

/* REXX */
rc=isfcalls("on")

/*****
/* Access the ST display */
*****/
Address SDSF "ISFEXEC ST"
lrc=rc
call msggrtn
if lrc>0 then
  exit 20
/*****
/* Loop for all RJONES jobs */
*****/
do ix=1 to JNAME.0
  if JNAME.ix = "RJONES" then
    do
      Address SDSF "ISFBROWSE ST TOKEN('token.ix')"
      call msggrtn
      if rc>4 then
        exit 20
/*****
/* Loop through the lines */
*****/
      do jx=1 to isfline.0
        say isfline.jx
      end
    end
  end
end

rc=isfcalls("off")

exit

/*****
/* Subroutine to list error messages */
*****/
msggrtn: procedure expose isfmsg isfmsg2.
/*****
/* The isfmsg variable contains a short message */
*****/
if isfmsg<>" " then
  Say "isfmsg is:" isfmsg
  /*****
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
  *****/
  do ix=1 to isfmsg2.0
    Say "isfmsg2."ix "is:" isfmsg2.ix
  end
end
return

```

Browse job output with ISFBROWSE

From the ST panel, for each job with the name RJONES, use the ISFBROWSE command to display the output. Use the isflinelim variable to limit the number of REXX variables returned by SDSF. Set the isfstartlinetoken variable to the returned value isfnextlinetoken, to allow the browse to continue with the next line in the display.

```
/* REXX */
rc=isfcalls("on")
/*****
/* Access the ST display */
*****/
Address SDSF "ISFEXEC ST"
lrc=rc
call msgtrn
if lrc<>0 then
  exit 20
/*****
/* Loop for all RJONES jobs */
*****/
do ix=1 to JNAME.0
  if JNAME.ix = "RJONES" then
    do
      isflinelim = 500
      do until isfnextlinetoken=''
        Address SDSF "ISFBROWSE ST TOKEN('token.ix')"
        if rc>4 then
          do
            call msgtrn
            exit 20
          end
        /*****
        /* Loop through the lines */
        *****/
        do jx=1 to isfline.0
          say isfline.jx
        end
        /*****
        /* Set start for next browse */
        *****/
        isfstartlinetoken = isfnextlinetoken
      end
    end
  end
end
rc=isfcalls("off")
exit
/*****
/* Subroutine to list error messages */
*****/
msgtrn: procedure expose isfmsg isfmsg2.
/*****
/* The isfmsg variable contains a short message */
*****/
if isfmsg<>"" then
  Say "isfmsg is:" isfmsg
  /*****
  /* The isfmsg2 stem contains additional messages */
  *****/
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end
return
```

Browse a single data set with EXECIO

Using ISFEXEC, access the ST panel to create the row variables for jobs. Then, find an active job named RJONES. Use ISFACT to issue the ? action character and list the job's data sets, adding the prefix option to ensure that you create unique variables. Find the message log data set, allocate it, and read it using EXECIO.

```
/* REXX */
rc=isfcalls('ON')
/* Access the ST display */
Address SDSF "ISFEXEC ST"
lrc=rc
```

```

call msggrtn
if lrc<>0 then
  exit 20
  /* Loop for all running RJONES jobs */
do ix=1 to JNAME.0
  if JNAME.ix = "RJONES" & ,
    QUEUE.ix = "EXECUTION" & ,
    ACTSYS.ix <> "" then
    do
      /* Issue the ? (JDS) action against the */
      /* row to list the data sets in the job. */
      Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP ?)" ,
        "( prefix jds_"
      lrc=rc
      call msggrtn
      if lrc<>0 then
        exit 20
        /* Find the JESMSGGLG data set and allocate it */
        /* using the SA action character */
        do jx=1 to jds_DDNAME.0
          if jds_DDNAME.jx = "JESMSGGLG" then
            do
              Address SDSF "ISFACT ST TOKEN('jds_TOKEN.jx')" ,
                "PARM(NP SA)"
              lrc=rc
              call msggrtn
              if lrc<>0 then
                exit 20
                /* Read the records from the data set and list them. */
                /* The ddname for each allocated data set will be in */
                /* the isfddname stem. Since the SA action was done */
                /* from JDS, only one data set will be allocated. */
                do kx=1 to isfddname.0
                  Say "Now reading" isfddsname.kx
                  "EXECIO * DISKR" isfddname.kx "(STEM line. FINIS"
                  Say " Lines read:" line.0
                  do lx = 1 to line.0
                    Say " line."lx "is:" line.lx
                  end
                end
              end
            end
          end
        end
      end
    end
  end
end
rc=isfcalls('OFF')
exit
/* Subroutine to list error messages */
msggrtn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>"" then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
  do ix=1 to isfmsg2.0
    Say "isfmsg2."ix "is:" isfmsg2.ix
  end
end
return

```

Browse a single data set with ISFBROWSE

Using ISFEXEC, access the ST panel to create the row variables for jobs. Then, find an active job named RJONES. Use ISFACT to issue the ? action character and list the job's data sets, adding the prefix option to ensure that you create unique variables. Find the message log data set, and read it using ISFBROWSE.

```

/* REXX */

rc=isfcalls('ON')

      /******
      /* Access the ST display */
      /******
Address SDSF "ISFEXEC ST"
lrc=rc
call msggrtn
if lrc<>0 then
  exit 20

      /******

```



```

/* Loop for all running RJONES jobs */
/*****
do ix=1 to JNAME.0

if JNAME.ix = "RJONES" & ,
  QUEUE.ix = "EXECUTION" & ,
  ACTSYS.ix <> "" then
do
  /*****
  /* Issue the ? (JDS) action against the */
  /* row to list the data sets in the job. */
  /*****
  Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP ?)" ,
  "( prefix jds_"
  lrc=rc
  call msggrtn
  if lrc<>0 then
    exit 20

  /*****
  /* Find the JESMSGGLG data set and read it */
  /* using ISFBROWSE. Use isflinelim to limit */
  /* the number of REXX variables returned. */
  /*****
  isflinelim=500
  do jx=1 to jds_DDNAME.0

    if jds_DDNAME.jx = "JESMSGGLG" then
      do
        /*****
        /* Read the records from the data set. */
        /*****
        total_lines = 0
        do until isfnnextlinetoken=''

          Address SDSF "ISFBROWSE ST TOKEN('jds_TOKEN.jx')"

          do kx=1 to isfline.0
            Say "Line" total_lines+kx "is:" isfline.kx
          end

          total_lines = total_lines + isfline.0
          /*****
          /* Set start for next browse */
          /*****
          isfstartlinetoken = isfnnextlinetoken

        end

        Say " Lines read:" total_lines
      end
    end
  end
end

rc=isfrcalls('OFF')

exit

/*****
/* Subroutine to list error messages */
/*****
msggrtn: procedure expose isfmsg isfmsg2.

/*****
/* The isfmsg variable contains a short message */
/*****
if isfmsg<>"" then
  Say "isfmsg is:" isfmsg

  /*****
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
  /*****
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end

return

```

Browse check output from the CK panel

Using ISFEXEC, access the CK panel with the E parameter, which requests only exception checks. For the RACF_GRS_RNL check on SY1, which found an exception, use ISFACT to issue the S action to browse the check. Browsing a check causes the ISFLINE special variable stem variables to be created. List the contents of ISFLINE.

```
/* REXX */
rc=isfcalls('ON')
/* Access the CK panel and filter by exceptions */
Address SDSF "ISFEXEC CK E"
lrc=rc
call msgtrn
if lrc<>0 then
  exit 20
found=0
/* Find the RACF_GRS_RNL check that is running on SY1 */
do ix=1 to NAME.0 while found=0
  if NAME.ix = "RACF_GRS_RNL" & SYSNAME.ix = "SY1" then
    do
      found=1
      /* Issue the S action against the check. This will */
      /* return the check output in the isfln stem. */
      Address SDSF "ISFACT CK TOKEN('TOKEN.ix') PARM(NP S)"
      lrc=rc
      call msgtrn
      if lrc<>0 then
        exit 20
      /* List each line of check output */
      do jx=1 to isfln.0
        Say "Check line" jx ":" isfln.jx
      end
    end
  end
end
if found=0 then
  say "Check not found"
rc=isfcalls('OFF')
exit
/* Subroutine to list error messages */
msgtrn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>" " then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end
return
```

Browse check output from the CK panel using ISFBROWSE

Using ISFEXEC, access the CK panel with E parameter, which requests only exception checks. For the RACF_GRS_RNL check on SY1, use ISFBROWSE to browse the check. Browsing a check causes the ISFLINE special variable stem variables to be created. List the contents of ISFLINE.

```
/* REXX */
rc=isfcalls('ON')
/*****
/* Access the CK panel and filter by exceptions */
*****/
Address SDSF "ISFEXEC CK E"
lrc=rc
call msgtrn
if lrc<>0 then
  exit 20
found=0
/*****
/* Find the RACF_GRS_RNL check that is running on SY1 */
*****/
do ix=1 to NAME.0 while found=0
  if NAME.ix = "RACF_GRS_RNL" & SYSNAME.ix = "SY1" then
    do
      found=1
```

```

/*****
/* Issue ISFBROWSE against the check. This will */
/* return the check output in the isfline stem. */
*****/
Address SDSF "ISFBROWSE CK TOKEN('TOKEN.ix')"
lrc=rc
call msgrtn
if lrc<>0 then
  exit 20
/*****
/* List each line of check output */
*****/
do jx=1 to isfline.0
  Say "Check line" jx ":" isfline.jx
end
end
end
if found=0 then
  say "Check not found"
rc=isfcalls('OFF')
exit
/*****
/* Subroutine to list error messages */
*****/
msgrtn: procedure expose isfmsg isfmsg2.
/*****
/* The isfmsg variable contains a short message */
*****/
if isfmsg<>" then
  Say "isfmsg is:" isfmsg
/*****
/* The isfmsg2 stem contains additional descriptive */
/* error messages */
*****/
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end
return

```

Browse check output from the CKH panel

Use ISFEXEC to access the CK panel, then, for a check with owner IBMSDSF, use ISFACT to display the history. From the history, for any instance with a non-zero result (an exception), use ISFACT to browse the check output.

```

/* REXX */
isfcklim = 999 /* set the limit of checks returned to 999 */
rc=isfcalls("on")
Address SDSF "ISFEXEC CK"
do ix=1 to name.0 /* Loop for all checks */
  if pos("IBMSDSF",owner.ix) > 0 then /* If desired check */
    do
      Address SDSF "ISFACT CK PARM(NP L) TOKEN('token.ix') (PREFIX",
        " CK_)"
      do jx=1 to ck_name.0
        if ck_result.jx <> 0 then
          do
            Address SDSF "ISFACT CK PARM(NP S) TOKEN('ck_token.jx')",
              "(PREFIX CKH_)"
            say "Now processing check" ck_name.jx " Run " ck_count.jx
            do mx = 1 to isfline.0
              say isfline.mx
            end /* done with history text */
          end
        end
      end
    end
  end
end
rc=isfcalls("off")

```

Print to SYSOUT

Using ISFEXEC, access the ST panel. Then, prior to printing, set SYSOUT-related special variables to control the attributes of the output SYSOUT file (class, copies, dest, and forms). Using ISFACT, issue the

XSC action character against the desired row (row 1) to print all data sets represented by that row. XSC prints to SYSOUT and closes the print file after printing.

```

/* REXX */
rc=isfcalls('ON')
/* Access the ST panel */
Address SDSF "ISFEXEC ST"
lrc=rc
call msgtrn
if lrc<>0 then
  exit 20
/* Assign the special variables that correspond to */
/* the attributes of the print file. Unassigned */
/* variables will use defaults. */
isfprtclass="U"
isfprtcopies="2"
isfprtdest="ken"
isfprtformdef="ffff"
isfprtforms="8888"
isfprtpagedef="pppp"
isfprtprmode="pmode"
/* Issue an XSC action against the row to be printed */
do ix=1 to JNAME.0
  if JNAME.ix = "RJONES" then
    do
      Address SDSF "ISFACT ST TOKEN('TOKEN.ix') PARM(NP XSC)"
      lrc=rc
      call msgtrn
      if lrc<>0 then
        exit 20
    end
  end
end
exit
/* Subroutine to list error messages */
msgtrn: procedure expose isfmsg isfmsg2.
/* The isfmsg variable contains a short message */
if isfmsg<>" " then
  Say "isfmsg is:" isfmsg
  /* The isfmsg2 stem contains additional descriptive */
  /* error messages */
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end
return

```

List action characters

Set the ISFACTIONS special variable to ON, which causes the action characters to be returned in the ISFRESP variables. Then access the ST panel, and list the valid action characters for that panel.

```

/* REXX */
rc=isfcalls('ON')
/* Set isfactions special variable to */
/* the equivalent of SET ACTION ON */
isfactions="ON"
/* Invoke the ST panel */
Address SDSF "ISFEXEC ST"
if rc<>0 then
  Exit rc
/* List each of the valid action characters */
/* for the panel. */
Say "Actions valid on the panel are:"
do ix=1 to isfresp.0
  Say " " isfresp.ix
end
rc=isfcalls('OFF')

```

Issue system commands using ISFSLASH

```

/* REXX */
rc=isfcalls('ON')
mycmd.0=3
mycmd.1="$DSPL"
mycmd.2="$D JOBQ,JM=S*"

```

```

mycmd.3="$D I"
Address SDSF ISFSLASH ("mycmd.") (WAIT)
/* List any error messages */
Say "isfmsg is:" isfmsg
Say "isfmsg2.0 is:" isfmsg2.0
if datatype(isfmsg2.0) = "NUM" then
  do ix=1 to isfmsg2.0
    Say "isfmsg2."ix "is:" isfmsg2.ix
  end
rc=isfcalls('OFF')

```

Work with the last 24 hours of SYSLOG

Use special variables and the REXX DATE and TIME functions to specify the member to process, the date format, date range, and the limit for the number of records in the stem variable ISFLINE. Then use the ISFLOG command to read the SYSLOG to ISFLINE.

```

/* REXX */
rc=isfcalls('ON')
isfsysid="sy2" /* Member to process */
isfdate="mmdyyyy /" /* Date format for special variables */
currdays=date("C")
currdays=currdays-1 /* yesterday */
isflogstartdate=date("U",currdays,"C") /* yesterday in mm/dd/yy */
isflogstarttime=time("N") /* current time */
isflogstopdate=date("U") /* current date in mm/dd/yy */
isflogstoptime=time("N") /* current time */
isflinelim=10000
Address SDSF "ISFLOG READ TYPE(SYSLOG)"
do ix=1 to isfmsg2.0
  say isfmsg2.ix
end
do ix=1 to isflin.0 /* Process the returned variables */
  say isflin.ix
end
rc=isfcalls('OFF')

```

Work with the current day of the system log

Use the ISFLOG command to read the system log for the current day to the ISFLINE stem variable. This example is for the SYSLOG. To work with the OPERLOG, you would specify TYPE(OPERLOG) with the ISFLOG command.

```

/* REXX */
rc=isfcalls('ON')
isflinelim=100000
Address SDSF "ISFLOG READ TYPE(SYSLOG)"
do ix=1 to isfmsg2.0
  say isfmsg2.ix
end
do ix=1 to isflin.0 /* Process the returned variables */
  say isflin.ix
end
rc=isfcalls('OFF')

```

Find a message in the system log

Use the ISFLOG command to read the system log. Use the ISFFIND and ISFSCROLLTYPE special variables to find message \$HASP100.

```

/* REXX */
rc=isfcalls('ON')
isfsysid="sy1" /* Member to process */
isfdate="mmdyyyy /" /* Date format for special variables */
currdays=date("C")
currdays=currdays-2 /* yesterday */
isflogstartdate=date("U",currdays,"C") /* yesterday in mm/dd/yy */
isflogstarttime=time("N") /* current time */
isflogstopdate=date("U") /* current date in mm/dd/yy */
isflogstoptime=time("N") /* current time */

```

```

isffind = '$HASP100'
isffindlim = 9999999
isfscrolltype = 'FINDNEXT'
isflinelim = 1

do until isfnnextlinetoken=''
  Address SDSF "ISFLOG READ TYPE(SYSLOG)"

  lrc=rc
  if lrc>4 then
    do
      call msggrtn
      exit 20
    end
  do ix=1 to isfline.0      /* Process the returned variables */
    say isfline.ix
  end

  /*****
  /* Continue reading SYSLOG where we left off */
  *****/
  isfstartlinetoken = isfnnextlinetoken
end
rc=isfcalls("off")

exit

/*****
/* Subroutine to list error messages */
*****/
msggrtn: procedure expose isfmsg isfmsg2.

/*****
/* The isfmsg variable contains a short message */
*****/
if isfmsg <> "" then
  Say "isfmsg is:" isfmsg

/*****
/* The isfmsg2 stem contains additional descriptive
/* error messages
*****/
do ix=1 to isfmsg2.0
  Say "isfmsg2."ix "is:" isfmsg2.ix
end

return

```

Work with the last 24 hours of OPERLOG

This example shows reading the last 24 hours of OPERLOG. Use special variables and the REXX DATE and TIME functions to specify the member to process, the date format, date range, and the limit for the number of records in the stem variable ISFLINE. Then use the ISFLOG command to read the SYSLOG to ISFLINE. Print a subset of messages which were either highlighted, have descriptor code 12, or colored in red when they were issued.

```

/* REXX */
rc=isfcalls('ON')

isfsysid="sy2"          /* Member to process */
isfdate="mmddyyyy /"   /* Date format for special variables */
currrday=date("C")
currrday=currrday-1     /* yesterday */
isflogstartdate=date("U",currrday,"C") /* yesterday in mm/dd/yy */
isflogstarttime=time("N") /* current time */
isflogstopdate=date("U") /* current date in mm/dd/yy */
isflogstoptime=time("N") /* current time */
isflinelim=1000

do until isfnnextlinetoken=''
  Address SDSF "ISFLOG READ TYPE(OPERLOG)"
  do ix=1 to isfmsg2.0
    say isfmsg2.ix
  end
  do ix=1 to isfline.0    /* Process the returned variables */

```

```

desccodematch = 0
do jx=1 to words(isfdesccode.ix)
  if word(isfdesccode.ix,jx)='12' then desccodematch=1
end

if isfhighlight.ix = 'h' |, /* if hilighted */
  isfcolor.ix = 'r' |, /* if red */
  desccodematch = 1 then
    say isfline.ix

end
/*****
/* Continue reading OPERLOG where we left off */
*****/
isfstartlinetoken = isfnextlinetoken
end
rc=isfcalls("off")

```

Issue the WHO command

Issue the WHO command and echo back the response.

```

/* REXX */
rc=isfcalls('ON')
/* Issue the WHO command */
Address SDSF "ISFEXEC WHO"
/* The responses are returned in the isfresp stem */
do ix=1 to isfresp.0
  Say "isfresp."ix "is:" isfresp.ix
end
rc=isfcalls('OFF')
exit

```

Invoking an exec with the % action character

This example shows an exec that can be invoked with the % action character.

```

/* REXX */
Parse Arg pSDSFParms "(" pUserParms
Parse var pSDSFParms pCurrentPanel pPrimaryPanel pRowToken pPrimaryCmd .
Say "Current panel is:" pCurrentPanel
Say "Primary panel is:" pPrimaryPanel
primaryCmd=x2c(pPrimaryCmd) /* Restore original command and parms */
Say "Primary command is:" primaryCmd
Say "User arguments are:" pUserParms

trace o

/*-----*/
/* Check for debug mode */
/*-----*/
verbose=""
do ix=1 to words(pUserParms)
  if translate(word(pUserParms,ix))="DEBUG" then
    verbose="verbose"
end

/*-----*/
/* Determine if exec invoked under SDSF */
/*-----*/
rc=isfquery()
if rc<>0 then
  do
    Say "** SDSF environment does not exist, exec ending."
    Exit 20
  end

rc=isfcalls('ON')

/*-----*/
/* Initialize SDSF special variables */
/*-----*/
rc=isfquery("INIT")
Say "isfprefix was set to:" isfprefix

```

```

Say "isfowner was set to:" isfowner
Say "isfdest was set to:" isfdest

/*-----*/
/* Retrieve the column values for the row being processed */
/*-----*/
Address SDSF "ISFGET" pPrimaryPanel "TOKEN('pRowToken')",
              " (" verbose ")"
lrc=rc

call msggrtn "ISFGET"
if lrc<>0 then
  Exit 20

/*-----*/
/* List all column values for the row */
/*-----*/
if pCurrentPanel<pPrimaryPanel then /* If on secondary */
  numRows=isfrows2
else
  numRows=isfrows

call colsrtn numRows . sdsfocols

rc=isfcalls('OFF')

Exit 0

/*****
*
* NAME =
*   msggrtn
*
* FUNCTION =
*   List all messages in the isfmsg and isfmsg2. variables
*
* INPUT =
*   req - Request being processed
*
* EXPOSED VARIABLES =
*   isfmsg - Short message
*   isfmsg2. - Numbered messages
*
* OUTPUT =
*   Messages written to terminal
*
*****/
msggrtn: Procedure expose isfmsg isfmsg2.
Arg req

/*-----*/
/* Process numbered messages */
/*-----*/
Say "** Numbered messages associated with" req "follow ..."
do ix=1 to isfmsg2.0
  Say isfmsg2.ix
end

if isfmsg<>"" then /* If short message present */
  do
    Say "** Short message associated with the request is:" isfmsg
  end

return

/*****
*
* NAME =
*   colsrtn
*
* FUNCTION =
*   List all rows and their column values
*
* INPUT =
*   numRows - number of rows to process
*   pfx - column variable prefix or "." if none
*   ocols - word delimited column names to process
*
* EXPOSED VARIABLES =
*   None
*****/

```



```

*
* OUTPUT =
*   Responses written to terminal
*
*****/
colsrtn:
Arg numrows pfx ocols
Say "Number of rows to process: " numrows

do rowix=1 to numrows /* Loop for all rows */
  Say "Now processing row" rowix "..."

  do colix=1 to words(ocols) /* Loop for all columns */

    if pfx="." then /* If no prefix */
      pfx=""

    varname=pfx|word(ocols,colix)||'.'||rowix

    Say "   Column" varname '=' value(varname)
  end /* For all columns */
end /* For all rows
*/

return

```

Calling ISPF services

Due to the way ISPF manages variable pools, you might not be able to invoke ISPF services directly in the same exec that is run using the % action character.

Some ISPF services, such as TBQUERY, create variables that are returned to the caller. However, when the calling exec is invoked with the % action character, the variable pool will be different than the one used by the % exec. Any variables created by the ISPF service will not be accessible to the caller even though the service completes with a return code 00.

This problem can be resolved by splitting the % exec and invoking the ISPF services from a second exec that is invoked from the first. The second exec is called using the ISPF SELECT CMD service, and any parameters needed by the second exec are passed as arguments from the first exec.

For example, suppose exec AR1 is invoked using the % action character, and AR2 is an exec that invokes ISPF table services. The following examples shows how the execs could be organized.

The following code shows how AR1 could be organized:

```

/* REXX */

parse source opsys command_type exec_name .
mid = "<"exec_name">"

Parse Arg pSDSFParms "(" pUserParms
Parse var pSDSFParms pCurrentPanel pPrimaryPanel pRowToken pCommand .

Say mid "Current panel is: " pCurrentPanel
Say mid "Primary panel is: " pPrimaryPanel
Say mid "Parm command is: " pCommand

PCommand = X2C(PCommand)
Say mid "Command is now: " PCommand

Address ISPEXEC "SELECT CMD(%AR2" pCurrentPanel)"
Say mid "SELECT rc="rc"."

Exit 0

```

The following code shows how AR2 could be organized:

```

/* REXX */

Arg command

parse source opsys command_type exec_name .

```

```

mid = "<"exec_name">"

Say mid "Command is:" command

Address ISPEXEC "TBCREATE MYTAB NOWRITE REPLACE"
Say mid "tbcreate rc="rc

Do ix = 1 to 3
  name = "row_"ix
  Address ISPEXEC "TBADD MYTAB SAVE(NAME)"
  Say mid "tbadd rc="rc
End

Address ISPEXEC "TBQUERY MYTAB ROWNUM(numrows)"
Say mid "tbquery rc="rc
Say mid "numrows="numrows

address ISPEXEC "TBCLOSE MYTAB"
Say mid "tbclose rc="rc

exit 0

```

Invoking an exec with the % action character to send output to email

This example shows an exec that can be invoked with the % action character to send output to email. The email address is sent as a parameter to the exec via an **email=** parameter. Invoke the exec against a row using the % action character to capture and send the output to email.

```

/* REXX */
Parse Arg pSDSFParms "(" pUserParms
Parse var pSDSFParms pCurrentPanel pPrimaryPanel pRowToken pPrimaryCmd .

primaryCmd=x2c(pPrimaryCmd) /* Restore original command and parms */
trace o

/*-----*/
/* Check for          */
/* Debug mode         */
/* User email address */
/*-----*/
verbose=""
userEmail = ""
do ix=1 to words(pUserParms)
  Select
    When translate(word(pUserParms,ix))="DEBUG" then
      do
        verbose="verbose"
      end /*When */
    When substr(translate(word(pUserParms,ix)),1,6)="EMAIL=" &,
      length(word(pUserParms,ix))> 6 then
      do
        userEmail = substr(word(pUserParms,ix),7,,
          length(word(pUserParms,ix))-6)
      end /*When */
    Otherwise
      NOP
  End /*End Select*/
end
if userEmail = "" then
  Do
    Say "** Email address is required."
    Exit 20
  end

/*-----*/
/* Determine if exec invoked under SDSF */
/*-----*/
rc=isfquery()
if rc>0 then
  do
    Say "** SDSF environment does not exist, exec ending."
    Exit 20
  end

rc=isfcalls('ON')

/*-----*/
/* Initialize SDSF special variables */

```

```

/*-----*/
rc=isfquery("INIT")

/*-----*/
/* Retrieve the column values for the row being processed */
/*-----*/
Address SDSF "ISFGET '"primaryCmd"' TOKEN('"pRowToken"')" ,
              " (" verbose ")"
lrc=rc

if lrc<>0 then
  Exit 20

/*-----*/
/* Get data for subject line */
/*-----*/
if JNAME.1 <> 'JNAME.1' then /*ST, I, DA etc */
  do
    ljob =JNAME.1
    lid=JobID.1
  end
else if DSNAME.1 <> 'DSNAME.1' then /*JDS */
  do
    parse var DSNAME.1 . '.' ljob '.' lid '.' .
  end
else if JOBGROUP.1 <> 'JOBGROUP.1' then /*JG*/
  do
    ljob = JOBGROUP.1
    lid = JOBGRPID.1
  end
else
  do
    ljob = ''
  end
if ljob <> '' then
  SublineData = 'SYSOUT data for Job 'ljob' ID 'lid
else
  SublineData = ''

/*-----*/
/* Setup email header */
/*-----*/
mix = 0
maxMailLine = 100
Call buildEmailheader
mix = buildemail.0

/*-----*/
/* Set browse limit */
/*-----*/
isflinelim = 0

/*-----*/
/* Loop for all lines */
/*-----*/
do until isfstartlinetoken=''

  /*-----*/
  /* Issue ISFBROWSE for the row identified by the token variable */
  /*-----*/
  Address SDSF "ISFBROWSE '"primaryCmd"' TOKEN('"pRowToken"') (" ,
                verbose ")"
  lrc=rc

  if lrc<>0 then /* If request failed */
    Exit 20
  isfstartlinetoken=isfnextlinetoken /* Set up for next request */

  /*-----*/
  /* Add returned lines */
  /*-----*/
  do lineix=1 to isfline.0 /* Loop for all lines returned */
    buildemail.mix = isfline.lineix
    maxMailLine = max(maxMailLine,length(buildemail.mix))
    mix = mix + 1
  end
end

rc=isfcalls('OFF')
Call EmailClosingTags

```

```

Call SendEmailViaSMTP

Say "Email sent to "userEmail

Exit 0

/*-----
*
* NAME =
*   buildEmailheader
*
* FUNCTION =
*   Add email header
*
* INPUT =
*   None
* EXPOSED VARIABLES =
*   userEmail buildemail.
*
* OUTPUT =
*   Add email header in buildemail.
*
*-----*/
buildEmailheader: procedure expose userEmail SublineData buildemail.
/*Change this to your domain or lpar name*/
heloCommand = MVSVAR(sysname)
/*Change this to your from email address*/
mailfrom = userEmail
bix = 1
buildemail.bix = 'helo 'heloCommand
bix = bix + 1
buildemail.bix = 'mail from:<'mailfrom'>'
bix = bix + 1
buildemail.bix = 'rcpt to:<'strip(userEmail)'>'
bix = bix + 1
buildemail.bix = 'data'
bix = bix + 1
buildemail.bix = 'From:'mailfrom
bix = bix + 1
buildemail.bix = 'To: 'strip(userEmail)
bix = bix + 1
buildemail.bix = 'Subject: 'SublineData
bix = bix + 1
buildemail.bix = 'MIME-Version: 1.0'
bix = bix + 1
buildemail.bix = 'Content-type: multipart/mixed;'
bix = bix + 1
buildemail.bix = '                boundary="simple boundary"'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = SublineData
bix = bix + 1
buildemail.bix = '--simple boundary'
bix = bix + 1
buildemail.bix = 'Content-type: text/html'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = '<body>'
bix = bix + 1
buildemail.bix = '<pre>'
bix = bix + 1
buildemail.bix = '<font face="Courier New" size="1" >'
bix = bix + 1
buildemail.0 = bix
return
/*-----
*
* NAME =
*   EmailClosingTags
*
* FUNCTION =
*   Write closing control statement for email
*
* INPUT =
*
* EXPOSED VARIABLES =
*   buildemail. mix
*
* OUTPUT =
*   Data writen to buildemail stem

```

```

*   mix updated
*
*-----*/
EmailClosingTags: procedure expose mix buildemail.
buildemail.mix = '</font>'
mix = mix + 1
buildemail.mix = '</pre>'
mix = mix + 1
buildemail.mix = '</body>'
mix = mix + 1
buildemail.mix = ' '
mix = mix + 1
buildemail.mix = '--simple boundary--'
buildemail.0 = mix
return
/*-----*/
*
* NAME =
*   SendEmailViaSMTP
*
* FUNCTION =
*   Write email data to SYSOUT SMTP writer
*
* INPUT = buildemail.
*
* EXPOSED VARIABLES =
*   buildemail. maxMailLine
*
* OUTPUT =
*   Data written to SYSOUT
*
*-----*/
SendEmailViaSMTP: procedure expose buildemail. maxMailLine
x = address tso listdsi("ISFSMTP" "FILE")
if sysreason = 0 then
do
address TSO "FREE F(ISFSMTP)"
end
/*Change to your sysout class instead of B*/
mailLrecl = maxMailLine + 4
address TSO "ALLOC F(ISFSMTP) SYSOUT(B) WRITER(SMTP) LRECL("mailLrecl")"
if rc <> 0 then
do
Say 'Error allocating SYSOUT for SMTP. RC = 'rc
exit 20
end
address TSO "EXECIO "buildemail.0||",
" DISKW ISFSMTP (STEM buildemail. FINIS"
if rc <> 0 then
do
say 'Error writing mail to SMTP. RC = 'rc
address TSO "FREE F(ISFSMTP)"
Exit 20
End
address TSO "FREE F(ISFSMTP)"
return

```

Invoking an exec with the % action character to email SMP/E error messages

This example shows an exec that can be invoked with the % action character to send GIMnnnnE or GIMnnnnnE messages in output to email. The email address is sent as parameter to exec via an **email=** parameter. Invoke the exec against a row using the % action character to capture and send a GIMnnnnE or GIMnnnnnE message in output to email. The first occurrence of a GIMnnnnE or GIMnnnnnE is captured and sent.

```

/* REXX */
Parse Arg pSDSFParms "(" pUserParms
Parse var pSDSFParms pCurrentPanel pPrimaryPanel pRowToken pPrimaryCmd .

primaryCmd=x2c(pPrimaryCmd) /* Restore original command and parms */
trace o

/*-----*/
/* Check for
/* Debug mode
/* User email address
/*-----*/

```

```

verbose=""
userEmail = ""
do ix=1 to words(pUserParms)
  Select
    When translate(word(pUserParms,ix))="DEBUG" then
      do
        verbose="verbose"
      end /*When */
    When substr(translate(word(pUserParms,ix)),1,6)="EMAIL=" &
      length(word(pUserParms,ix))> 6 then
      do
        userEmail = substr(word(pUserParms,ix),7,,
          length(word(pUserParms,ix))-6)
      end /*When */
    Otherwise
      NOP
  End /*End Select*/
end
if userEmail = "" then
  Do
    Say "** Email address is required."
    Exit 20
  end

/*-----*/
/* Determine if exec invoked under SDSF */
/*-----*/
rc=isfquery()
if rc<>0 then
  do
    Say "** SDSF environment does not exist, exec ending."
    Exit 20
  end

rc=isfcalls('ON')

/*-----*/
/* Initialize SDSF special variables */
/*-----*/
rc=isfquery("INIT")

/*-----*/
/* Retrieve the column values for the row being processed */
/*-----*/
Address SDSF "ISFGET "primaryCmd" TOKEN("pRowToken") " ,
  " (" verbose ")"
lrc=rc

if lrc<>0 then
  Exit 20

/*-----*/
/* Get data for subject line */
/*-----*/
if JNAME.1 <> 'JNAME.1' then /*ST, I, DA etc */
  do
    ljob =JNAME.1
    lid=JobID.1
  end
else if DSNAME.1 <> 'DSNAME.1' then /*JDS */
  do
    parse var DSNAME.1 . '.' ljob '.' lid '.' .
  end
else if JOBGROUP.1 <> 'JOBGROUP.1' then /*JG*/
  do
    ljob = JOBGROUP.1
    lid = JOBGRPID.1
  end
else
  do
    ljob = ''
  end
if ljob <> '' then
  SublineData = 'Scan result for GIM messages in Job 'ljob' ID 'lid
else
  SublineData = ''

/*-----*/
/* Setup email header */
/*-----*/
maxMailLine = 100
mix = 0

```

```

Call buildEmailheader
mix = buildemail.0

/*-----*/
/* Set browse limit */
/*-----*/
isflinelim = 0

/*-----*/
/* Loop for all lines */
/*-----*/
do until isfstartlinetoken=''

    /*-----*/
    /* Issue ISFBROWSE for the row identified by the token variable */
    /*-----*/
    Address SDSF "ISFBROWSE 'primaryCmd' TOKEN('pRowToken') (" ,
        verbose ")"
    lrc=rc

    if lrc<>0 then /* If request failed */
        Exit 20
    isfstartlinetoken=isfnextlinetoken /* Set up for next request */

    /*-----*/
    /* Add returned lines */
    /*-----*/
    do lineix=1 to isfline.0 /* Loop for all lines returned */
        gimPos = pos('GIM',isfline.lineix)
        if gimPos > 0 then
            do
                pattern = Translate(,
                    word(,
                        substr(isfline.lineix,gimpos,,
                            length(isfline.lineix) + 1 - gimpos),,
                            1),,
                    ' ','0123456789')
                if pattern = 'GIM E' | pattern = 'GIM E' then
                    do
                        buildemail.mix = isfline.lineix
                        maxMailLine = max(maxMailLine,length(buildemail.mix))
                        mix = mix + 1
                    end
                end
            end
        end
    end

rc=isfcalls('OFF')

if buildemail.0 >= mix then
    do
        buildemail.mix = '** Message GIMnnnnE or GIMnnnnnE not found'
        mix = mix + 1
    end

Call EmailClosingTags
Call SendEmailViaSMTP
Say "Email sent to "userEmail
Exit 0

/*-----*/
*
* NAME =
*   buildEmailheader
*
* FUNCTION =
*   Add email header
*
* INPUT =
*   None
* EXPOSED VARIABLES =
*   userEmail buildemail.
*
* OUTPUT =
*   Add email header in buildemail.
*
/*-----*/
buildEmailheader: procedure expose userEmail SublineData buildemail.
/*Change this to your domain or lpar name*/

```

```

heloCommand = MVSVAR(sysname)
/*Change this to your from email address*/
mailfrom = userEmail
bix = 1
buildemail.bix = 'helo 'heloCommand
bix = bix + 1
buildemail.bix = 'mail from:<'mailfrom'>'
bix = bix + 1
buildemail.bix = 'rcpt to:<'strip(userEmail)'>'
bix = bix + 1
buildemail.bix = 'data'
bix = bix + 1
buildemail.bix = 'From:'mailfrom
bix = bix + 1
buildemail.bix = 'To: 'strip(userEmail)
bix = bix + 1
buildemail.bix = 'Subject: 'SublineData
bix = bix + 1
buildemail.bix = 'MIME-Version: 1.0'
bix = bix + 1
buildemail.bix = 'Content-type: multipart/mixed;'
bix = bix + 1
buildemail.bix = '                boundary="simple boundary"'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = SublineData
bix = bix + 1
buildemail.bix = '--simple boundary'
bix = bix + 1
buildemail.bix = 'Content-type: text/html'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = '<body>'
bix = bix + 1
buildemail.bix = '<pre>'
bix = bix + 1
buildemail.bix = '<font face="Courier New" size="1" >'
bix = bix + 1
buildemail.0 = bix
return
/*-----
*
* NAME =
*   EmailClosingTags
*
* FUNCTION =
*   Write closing control statement for email
*
* INPUT =
*
* EXPOSED VARIABLES =
*   buildemail. mix
*
* OUTPUT =
*   Data written to buildemail stem
*   mix updated
*
*-----*/
EmailClosingTags: procedure expose mix buildemail.
buildemail.mix = '</font>'
mix = mix + 1
buildemail.mix = '</pre>'
mix = mix + 1
buildemail.mix = '</body>'
mix = mix + 1
buildemail.mix = ' '
mix = mix + 1
buildemail.mix = '--simple boundary--'
buildemail.0 = mix
return
/*-----
*
* NAME =
*   SendEmailViaSMTP
*
* FUNCTION =
*   Write email data to SYSOUT SMTP writer
*
* INPUT = buildemail.
*

```



```

* EXPOSED VARIABLES =
*   buildemail. maxMailLine
*
* OUTPUT =
*   Data written to SYSOUT
*
*-----*/
SendEmailViaSMTP: procedure expose buildemail. maxMailLine
x = address tso listdsi("ISFSMTP" "FILE")
if sysreason = 0 then
  do
    address TSO "FREE F(ISFSMTP)"
  end
/*Change to your sysout class instead of B*/
mailLrecl = maxMailLine + 4
address TSO "ALLOC F(ISFSMTP) SYSOUT(B) WRITER(SMTP) LRECL("mailLrecl")"
if rc <> 0 then
  do
    Say 'Error allocating SYSOUT for SMTP. RC = 'rc
    exit 20
  end
address TSO "EXECIO "buildemail.0||,
            " DISKW ISFSMTP (STEM buildemail. FINIS"
if rc <> 0 then
  do
    say 'Error writing mail to SMTP. RC = 'rc
    address TSO "FREE F(ISFSMTP)"
    Exit 20
  End
address TSO "FREE F(ISFSMTP)"
return

```

Invoking an exec with the % action character to send job group status to email

This example shows an exec that can be invoked with the % action character to send the job group status to email. The email address is sent as parameter to the exec via an **email=** parameter. Invoke the exec against a row using the % action character to capture and send to email the job group status and job step details for each job in the job group.

```

/* REXX */
Parse Arg pSDSFParms "(" pUserParms
Parse var pSDSFParms pCurrentPanel pPrimaryPanel pRowToken pPrimaryCmd .

primaryCmd=x2c(pPrimaryCmd) /* Restore original command and parms */
trace 0

/*-----*/
/* Check for          */
/* Debug mode         */
/* User email address */
/*-----*/
verbose=""
userEmail = ""
do ix=1 to words(pUserParms)
  Select
    When translate(word(pUserParms,ix))="DEBUG" then
      do
        verbose="verbose"
      end /*When */
    When substr(translate(word(pUserParms,ix)),1,6)="EMAIL=" &
      length(word(pUserParms,ix))> 6 then
      do
        userEmail = substr(word(pUserParms,ix),7,,
                          length(word(pUserParms,ix))-6)
      end /*When */
    Otherwise
      NOP
  End /*End Select*/
end
if userEmail = "" then
  Do
    Say "** Email address is required."
    Exit 20
  end
/*-----*/

```

```

/* Determine if exec invoked under SDSF */
/*-----*/
rc=isfquery()
if rc<>0 then
  do
    Say "** SDSF environment does not exist, exec ending."
    Exit 20
  end

rc=isfcalls('ON')

/*-----*/
/* Initialize SDSF special variables */
/*-----*/
rc=isfquery("INIT")

/*-----*/
/* Retrieve the column values for the row being processed */
/*-----*/
Address SDSF "ISFGET 'primaryCmd' TOKEN('pRowToken')",
              " (" verbose ")"

lrc=rc

if lrc<>0 then
  Exit 20

/*-----*/
/* Setup email */
/*-----*/
mix = 0
maxMailLine = 100
SublineData = 'Status and Job step details for jobs in',
              'Job Group 'JOBGROUP.1' Group ID 'JOBGRPID.1
Call buildEmailheader
mix = buildemail.0
/*-----*/
/* Issue ST action with JobGrpID as filter */
/*-----*/
ISFFILTER2 = "JOBGRPID EQ "JOBGRPID.1

Address SDSF "ISFACT 'primaryCmd' TOKEN('pRowToken')",
              "PARM(NP 'ST')",
              "(PREFIX ST_)"

lrc=rc

if lrc<>0 then
  Exit 20

if isfrows2 = 0 then
  Exit 20
/*-----*/
/* Build summary status of job in job group */
/*-----*/
numrows=isfrows2
buildemail.mix='** Status summary of job in Job Group 'JOBGROUP.1
mix = mix + 1
/*-----*/
/* Start of table */
/*-----*/
buildemail.mix = "<table style='font-family:||,
                  'Courier New',Courier;'||font-size:80%'||,
                  ' border="1">"

mix = mix + 1
buildemail.mix = '<tr><td>JOBNAME</td>'||,
                  '<td>JobID</td>'||,
                  '<td>Max-RC</td></tr>'

mix = mix + 1
do ix = 1 to numrows /*For each Status row*/
  /*-----*/
  /* Build table rows */
  /*-----*/
  buildemail.mix = '<tr><td>'ST_JNAME.ix'</td>'
  buildemail.mix = buildemail.mix'<td>'ST_JOBID.ix'</td>'
  buildemail.mix = buildemail.mix'<td>'ST_RETCODE.ix'</td></tr>'
  mix = mix + 1
end /*For each Status row*/
/*-----*/
/* End of table */
/*-----*/
buildemail.mix = '</table>'
mix = mix + 1
buildemail.mix = '

```

```

mix = mix + 1

/*-----*/
/* Ensure no residual data */
/*-----*/
ISFFILTER2 = ''
drop isfcols2

/*-----*/
/* For each status row get job step details */
/*-----*/
do ix = 1 to numrows /*For each Status row*/
  /* Issue the JS action for each row */
  Address SDSF "ISFACT 'JG' " ,
               "TOKEN('ST_TOKEN.ix')" ,
               "PARM(NP 'JS') " ,
               "(PREFIX JS_)"

  lrc=rc
  if lrc<>0 then
    do
      Say '** ISFACT failed for action JS with rc = 'lrc,
        'for job 'ST_JNAME.ix
    end
  else if isfrows2 = 0 then
    do
      buildemail.mix = '** No Job step details for '||,
        'Job 'ST_JNAME.ix' JobID 'ST_JOBID.ix
      mix = mix + 1
    end
  else
    do /*Process JS row */
      /*-----*/
      /* Add job details and title before writing step details */
      /*-----*/
      buildemail.mix = '** Job step details for '||,
        'Job 'ST_JNAME.ix' JobID 'ST_JOBID.ix
      if ST_RETCODE.ix <> '' then do
        buildemail.mix = buildemail.mix' Max-RC = 'ST_RETCODE.ix
      end
      mix = mix + 1
      /*-----*/
      /* Start of table build */
      /*-----*/
      buildemail.mix = "<table style='font-family:\"",
        "\"Courier New\",Courier;\"",
        "font-size:80%\"",
        "border=1">"

      mix = mix + 1
      /*-----*/
      /* Add column name to table */
      /*-----*/
      buildemail.mix = addColumnName(isftitles2)
      maxMailLine = max(maxMailLine,length(buildemail.mix))
      mix = mix + 1
      /*-----*/
      /* Add column values to table */
      /*-----*/
      do jsrowix = 1 to isfrows2
        buildemail.mix = addColumnValue(jsrowix,JS_,JS_sdsfocols)
        maxMailLine = max(maxMailLine,length(buildemail.mix))
        mix = mix + 1
      end
      /*-----*/
      /* End of table build */
      /*-----*/
      buildemail.mix = '</table>'
      mix = mix + 1
    end /*Process JS row */
  end /*For each Status row*/

rc=isfcalls('OFF')

Call EmailClosingTags

Call SendEmailViaSMTP

Say "Email sent to "userEmail

Exit 0

/*-----*/

```

```

*
* NAME =
*   addColumnName
*
* FUNCTION =
*   Add column name to table
*
* INPUT =
*   Column names seprated by space
*
* EXPOSED VARIABLES =
*   None
*
* OUTPUT =
*   Return build data
*
*-----*/
addColumnName:
Arg ocols
/*-----*/
/*Start row data */
/*-----*/
rowData = '<tr>'
do colix=1 to words(ocols) /* Loop for all columns */
  varname=translate(word(ocols,colix),"","")
  /*-----*/
  /*Skip token column */
  /*-----*/
  if translate(varname) = "TOKEN" then
    iterate
  rowData = rowData'<td>'strip(varname)'</td>'
end /* For all columns */
/*-----*/
/*End row data */
/*-----*/
rowData = rowData'</tr>'
return rowData

/*-----*/
*
* NAME =
*   addColumnValue
*
* FUNCTION =
*   Build and return a single row using column data
*
* INPUT =
*   rownum - number of rows to process
*   pfx - column variable prefix or "." if none
*   ocols - word delimited column names to process
*
* EXPOSED VARIABLES =
*   None
*
* OUTPUT =
*   Return row information
*
*-----*/
addColumnValue:
/*-----*/
/*Get arguments */
/*-----*/
rownum = arg(1)
pfx = arg(2)
ocols = arg(3)
/*-----*/
/*Set var prefix */
/*-----*/
if pfx="." then /* If no prefix */
  pfx=""
  /*-----*/
  /*Start of row */
  /*-----*/
  rowData = '<tr>'
  do colix=1 to words(ocols) /* Loop for all columns */
    /*-----*/
    /*Skip token column */
    /*-----*/
    if word(ocols,colix) = "TOKEN" then
      iterate
    varname=pfx||word(ocols,colix)||'.'||rownum
    rowData = rowData'<td>'value(varname)'</td>'

```

```

end      /* For all columns */
/*-----*/
/*end of row      */
/*-----*/
rowData = rowData'</tr>'
return rowData

/*-----*/
*
* NAME =
*   buildEmailheader
*
* FUNCTION =
*   Add email header
*
* INPUT =
*   None
* EXPOSED VARIABLES =
*   userEmail buildemail.
*
* OUTPUT =
*   Add email header in buildemail.
*
/*-----*/
buildEmailheader: procedure expose userEmail SublineData buildemail.
/*Change this to your domain or lpar name*/
heloCommand = MVSVAR(sysname)
/*Change this to your from email address*/
mailfrom = userEmail
bix = 1
buildemail.bix = 'helo 'heloCommand
bix = bix + 1
buildemail.bix = 'mail from:<'mailfrom'>'
bix = bix + 1
buildemail.bix = 'rcpt to:<'strip(userEmail)'>'
bix = bix + 1
buildemail.bix = 'data'
bix = bix + 1
buildemail.bix = 'From:'mailfrom
bix = bix + 1
buildemail.bix = 'To: 'strip(userEmail)
bix = bix + 1
buildemail.bix = 'Subject: 'SublineData
bix = bix + 1
buildemail.bix = 'MIME-Version: 1.0'
bix = bix + 1
buildemail.bix = 'Content-type: multipart/mixed;'
bix = bix + 1
buildemail.bix = '          boundary="simple boundary"'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = SublineData
bix = bix + 1
buildemail.bix = '--simple boundary'
bix = bix + 1
buildemail.bix = 'Content-type: text/html'
bix = bix + 1
buildemail.bix = ' '
bix = bix + 1
buildemail.bix = '<body>'
bix = bix + 1
buildemail.bix = '<pre>'
bix = bix + 1
buildemail.bix = '<font face="Courier New" size="1" >'
bix = bix + 1
buildemail.0 = bix
return
/*-----*/
*
* NAME =
*   EmailClosingTags
*
* FUNCTION =
*   Write closing control statement for email
*
* INPUT =
*
* EXPOSED VARIABLES =
*   buildemail. mix
*
* OUTPUT =

```

```

*   Data written to buildemail stem
*   mix updated
*
*-----*/
EmailClosingTags: procedure expose mix buildemail.
buildemail.mix = '</font>'
mix = mix + 1
buildemail.mix = '</pre>'
mix = mix + 1
buildemail.mix = '</body>'
mix = mix + 1
buildemail.mix = ' '
mix = mix + 1
buildemail.mix = '--simple boundary--'
buildemail.0 = mix
return
/*-----
*
* NAME =
*   SendEmailViaSMTP
*
* FUNCTION =
*   Write email data to SYSOUT SMTP writer
*
* INPUT = buildemail.
*
* EXPOSED VARIABLES =
*   buildemail. maxMailLine
*
* OUTPUT =
*   Data written to SYSOUT
*
*-----*/
SendEmailViaSMTP: procedure expose buildemail. maxMailLine
x = address tso listdsi("ISFSMTP" "FILE")
if sysreason = 0 then
do
address TSO "FREE F(ISFSMTP)"
end
/*Change to your sysout class instead of B*/
mailLrecl = maxMailLine + 4
address TSO "ALLOC F(ISFSMTP) SYSOUT(B) WRITER(SMTP) LRECL("mailLrecl")"
if rc <> 0 then
do
Say 'Error allocating SYSOUT for SMTP. RC = 'rc
exit 20
end
address TSO "EXECIO "buildemail.0||,
" DISKW ISFSMTP (STEM buildemail. FINIS"
if rc <> 0 then
do
say 'Error writing mail to SMTP. RC = 'rc
address TSO "FREE F(ISFSMTP)"
Exit 20
End
address TSO "FREE F(ISFSMTP)"
return

```

System REXX and SDSF

If you invoke SDSF's REXX using System REXX, you need to be aware of the following:

- You must set up the ISFJESNAME variable to identify the JES2 subsystem, or the ISFJES3NAME variable to identify the JES3 subsystem.
- You must be authorized to invoke SDSF functions from REXX, as described in [“Security and REXX” on page 484](#).

For more information on System REXX (SYSREXX), see [z/OS MVS System Commands](#).

Security and REXX

Using SDSF function from a REXX exec is protected just as using SDSF interactively is protected, with the same SAF resources. Where special REXX variables correspond to SDSF commands, the authorization for those special variables is the same as for the associated command. In some cases, using a special

variable when you are not authorized to the associated command will cause the exec to fail and the invocation of SDSF to end.

SAF allows users to be assigned to the same group regardless of the environment from which they invoke SDSF (interactive, batch, REXX or Java™). You can issue the SDSF **WHO** command to display the group to which you are assigned.

To determine group membership, SDSF checks the SAF resource GROUP.*group-name.server-name* in the SDSF class. This is explained in detail in [z/OS SDSF Operation and Customization](#).

Diagnosing errors in a REXX exec

To diagnose errors in a REXX exec:

- Examine the contents of the special variables that contain the SDSF messages, ISFMSG and ISFMSG2. ISFMSG2 is a stem variable.
- If the SDSF messages do not provide enough information to resolve the errors, try adding the VERBOSE option to the ISFEXEC and ISFACT host commands, then examining the contents of the ISFMSG2 stem variable. VERBOSE causes diagnostic messages to be added to the ISFMSG2 stem variable. The messages describe each row variable created by SDSF.
- For problems related to security, use the ISFSECTrace special variable along with the contents of the ISFMSG2 or ISFULOG variables. For more information, refer to [z/OS SDSF Operation and Customization](#).
- For problems associated with authorization to system commands, see the contents of the ISFULOG special variable, which includes SAF authorization messages. Note that SAF authorization messages will not be preceded by the system command. That is because SDSF checks the SAF resource for the command in advance and does not issue the command if the user is not authorized to it.
- If you need to call IBM for service, prepare documentation by printing the contents of these special variables:
 - ISFMSG and ISFMSG2
 - ISFDIAG. This variable is intended for use by IBM service personnel. It contains internal reason codes associated with a request.

If IBM requests that you run a trace, include the following special variables in your exec prior to the ISFEXEC or ISFACT commands:

```
isftrace="ON"  
isftmask="ALL"
```

You must be authorized to the TRACE command to trace all modules, including the server. Otherwise, only client modules are traced.

If jobs that you expect to see are missing from a panel, or you are not authorized to function that you expect to be authorized to, the problem may be with the group in ISFPARMS that you are being assigned to. To see if you are being assigned to a different group when you use SDSF REXX than when you use SDSF interactively, issue the WHO command from a REXX exec and from the command line, and compare the values for group index. If you believe you are being assigned to the wrong group, contact your security administrator. Security and SDSF REXX is described in [“Security and REXX” on page 484](#).

Chapter 7. Using SDSF with the Python programming language

pySDSF is a scripting environment that exploits the usability of the Python programming language with the significant data gathering capabilities of SDSF. pySDSF is included with SDSF.

With pySDSF, you can:

- Retrieve data about jobs in the system
- Perform actions such as canceling jobs
- Filter results
- Sort results
- Browse job output
- Browse the system log
- Issue free-form system commands

You must be authorized to use SDSF from Python and you must be authorized to the SDSF functions that you invoke from Python.

System programmers should define group membership using SAF to ensure that SDSF users have the proper authorization when invoking SDSF with Python. For more information, see [z/OS SDSF Operation and Customization](#).

Installation

pySDSF is installed using the Python **pip** command.

By default, pySDSF is distributed in the `/usr/lpp/sdsf/python` directory. Note that your installation might have changed the default path name.

All documentation related to the installation, usage, and samples is contained in the `/usr/lpp/sdsf/python/doc` directory. The README file contains the prerequisites necessary to run pySDSF, installation steps, and links to reference information.

Getting started

To get started with pySDSF, review the documentation in the `pySDSF.md` file in `/usr/lpp/sdsf/python/doc`. You can also use the provided sample scripts or enter the PGEN command to generate sample scripts for Python-enabled panels as a starting point.

API documentation

The documentation for pySDSF is described in `pySDSF.md` in `/usr/lpp/sdsf/python/doc`. This file shows you how to develop pySDSF scripts to retrieve and modify data obtained from SDSF. You may find it more convenient to download `pySDSF.md` to your workstation so you can browse it with a markdown editor.

Sample scripts

pySDSF includes several working samples to get you started. After the `pysdsf` package is installed, the sample scripts are in the `pysdsf` directory.

Sample snippets are also included in the `pySDSF.md` documentation.

The SDSF PGEN command can be used to generate a sample Python script. When running SDSF interactively under ISPF, enter the **PGEN** command on a panel. PGEN generates a sample script that navigates to that panel.

Note: Not all SDSF panels are available through Python. The PGEN command should only be entered on supported panels. To see if a panel is supported by pySDSF, access SDSF under ISPF and enter the command **CMDH PYTHON** from the main panel. All commands valid in the Python environment are listed.

Security and tracing

Using SDSF function from a Python program is protected the same as using SDSF interactively, or from a REXX exec, with the same SAF resources.

Your security administrator can assist you in obtaining access to SDSF functions.

Refer to the following documentation for more information:

- For information about security and tracing for pySDSF, see the documentation file pySDSF.md in the /usr/lpp/sdsf/python/doc directory.
- For general information about security and tracing for SDSF, refer to SDSF's interactive online help, or see [*z/OS SDSF Operation and Customization*](#).

Chapter 8. Using SDSF with the Java programming language

This topic provides an overview of accessing SDSF function with the Java programming language.

Using SDSF with Java allows you to create Java applications that exploit SDSF function. It provides a more powerful alternative to using SDSF in batch, which is described in [Chapter 5, “Using SDSF in batch,”](#) on page 385, and complements SDSF's support for REXX, which is described in [Chapter 6, “Using SDSF with the REXX programming language,”](#) on page 393.

You must be authorized to use SDSF from Java and you must be authorized to the SDSF functions that you invoke from Java.

System programmers should define group membership using SAF to ensure that SDSF users have the proper authorization when invoking SDSF with Java. For more information, see [z/OS SDSF Operation and Customization](#).

Note: SDSF no longer distributes files in `/usr/include/java_classes` and `/usr/lib/java_runtime64`. You should change the following references:

- `/usr/include/java_classes`

change to:

```
/usr/lpp/sdsf/java/classes
```

- `/usr/lib/java_runtime64`

change to:

```
/usr/lpp/sdsf/java/lib_64
```

Where to look for information

The principal source of information for using Java with SDSF is the Javadoc supplied with SDSF. To use the Javadoc:

1. Download the `isfjcallDoc.jar` file, in binary, to an empty directory on your workstation. By default, this file is installed into `/usr/lpp/sdsf/java/classes/isfjcallDoc.jar`.
2. If you have the Java SDK installed, use this command:

```
jar -xf isfjcallDoc.jar
```

Otherwise, use another utility to unzip the file.

3. Navigate to the `index.html` file and open it with a Web browser. Once the `index.html` file is displayed, links allow you to navigate to specific classes or topics, such as:

Overview

Display an overview to using SDSF with Java

Package

Display a list of classes

Tree

Display a hierarchical view of classes

Index

Display an index to the Javadoc

See the following for further information.

- Using SDSF, including descriptions of panels, action characters, overtypeable columns and commands: refer to SDSF's online help. For a brief introduction, see [z/OS SDSF Operation and Customization](#).
- Columns on SDSF panels: to display a list of columns and other column attributes, use the COLSHELP command. The columns are also described in [z/OS SDSF Operation and Customization](#).
- SDSF provides several sample classes to show how to use SDSF Java. The samples are installed by default under the `/usr/lpp/sdsf/java/samples` path.

Installation verification

You can use the ISFAbout class to verify that SDSF Java has been configured correctly. It produces a report that includes the service levels of the SDSF Java classes and other information about the runtime environment. A successful run of ISFAbout shows that your classpath and libpath are acceptable to SDSF and that SDSF can be used to retrieve data.

To run ISFAbout, use a command similar to the following:

```
java -cp classpath -jar /usr/lpp/sdsf/java/classes/isfjcall.jar
```

Alternatively, you can invoke ISFAbout with this command:

```
java -cp classpath com.ibm.zos.sdsf.core.ISFAbout
```

ISFAbout is controlled through arguments. By default, a report is written to stdout. You can use arguments to write the report to a file. The arguments are as follows:

-m:modnames

Names a list of SDSF module names, separated by commas, for which module level information is desired. These names will be provided by IBM service personnel when diagnosing problems.

-help or -?

Requests the usage text to be displayed.

Security and Java

Using SDSF function from a Java program is protected just as using SDSF interactively, or from a REXX exec, is protected, with the same SAF resources. For example, when a Java method corresponds to an SDSF action character, the authorization for that method is the same as for the action character. See [“Protecting Java methods” on page 490](#) for more information.

Determining which group in ISFPARMS a user is assigned to

SAF is used to control which group in ISFPARMS a user is assigned to.

The WHO command displays the group to which you are assigned.

To determine group membership, SDSF checks the SAF resource `GROUP.group-name.server-name` in the SDSF class. This is explained in detail in [z/OS SDSF Operation and Customization](#).

Protecting Java methods

You protect the Java methods in the same way that you protect the corresponding action characters and overtypeable fields. The SDSF ACTH panel displays the relationship of Java methods to action characters for each panel, as well as the required SAF resources to protect the action characters, on the SDSF ACTH panel. For additional information about the SAF resources, including the SAF resources that you use to protect overtyping fields with the `requestPropertyChange` method, see [z/OS SDSF Operation and Customization](#).

Chapter 9. SDSF command reference

Commands for SDSF can be entered in ISPF on panels. Some commands can be run in ISPF by selecting the **Options** action bar pull-down.

How to read syntax diagrams

The syntax diagram defines syntax diagram symbols, items that might be contained within the diagrams (keywords, variables, delimiters, operators, fragment references, operands) and provides syntax examples that contain these items.

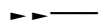
Syntax diagrams pictorially display the order and parts (options and arguments) that comprise a command statement. They are read from left to right and from top to bottom, following the main path of the horizontal line.

For users accessing the IBM Documentation using a screen reader, syntax diagrams are provided in dotted decimal format.

Symbols

The following symbols might be displayed in syntax diagrams:

Symbol	Definition
--------	------------



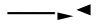
Indicates the beginning of the syntax diagram.



Indicates that the syntax diagram is continued to the next line.



Indicates that the syntax is continued from the previous line.



Indicates the end of the syntax diagram.

Syntax items

Syntax diagrams contain many different items. Syntax items include:

- Keywords - a command name or any other literal information.
- Variables - variables are italicized, appear in lowercase, and represent the name of values you can supply.
- Delimiters - delimiters indicate the start or end of keywords, variables, or operators. For example, a left parenthesis is a delimiter.
- Operators - operators include add (+), subtract (-), multiply (*), divide (/), equal (=), and other mathematical operations that may need to be performed.
- Fragment references - a part of a syntax diagram, separated from the diagram to show greater detail.
- Separators - a separator separates keywords, variables or operators. For example, a comma (,) is a separator.

Note: If a syntax diagram shows a character that is not alphanumeric (for example, parentheses, periods, commas, equal signs, a blank space), enter the character as part of the syntax.

Keywords, variables, and operators may be displayed as required, optional, or default. Fragments, separators, and delimiters may be displayed as required or optional, as follows:

Required

Required items are displayed on the main path of the horizontal line.

Optional

Optional items are displayed below the main path of the horizontal line.

Default

Default items are displayed above the main path of the horizontal line.

Syntax examples

Table 363 on page 492 provides explanations and examples of syntax diagrams.

Table 363. Syntax examples	
Item	Syntax example
Required item. Required items appear on the main path of the horizontal line. You must specify these items.	►► KEYWORD — required_item ►►
Required choice. A required choice (two or more items) appears in a vertical stack on the main path of the horizontal line. You must choose one of the items in the stack.	►► KEYWORD — { required_choice1 required_choice2 } ►►
Optional item. Optional items appear below the main path of the horizontal line.	►► KEYWORD — { optional_item } ►►
Optional choice. An optional choice (two or more items) appears in a vertical stack below the main path of the horizontal line. You may choose one of the items in the stack.	►► KEYWORD — { optional_choice1 optional_choice2 } ►►
Default. Default items appear above the main path of the horizontal line. The remaining items (required or optional) appear on (required) or below (optional) the main path of the horizontal line. The following example displays a default with optional items.	►► KEYWORD — { default_choice1 optional_choice2 optional_choice3 } ►►
Variable. Variables appear in lowercase italics. They represent names or values.	►► KEYWORD — <i>variable</i> ►►
Repeatable item. An arrow returning to the left above the main path of the horizontal line indicates an item that can be repeated. A character within the arrow means you must separate repeated items with that character. An arrow returning to the left above a group of repeatable items indicates that one of the items can be selected, or a single item can be repeated.	►► KEYWORD — { repeatable_item } ►► ►► KEYWORD — { repeatable_item , } ►►

Table 363. Syntax examples (continued)	
Item	Syntax example
<p>Fragment.</p> <p>The fragment symbol indicates that a labeled group is described below the main syntax diagram. Syntax is occasionally broken into fragments if the inclusion of the fragment would overly complicate the main syntax diagram.</p>	<p>►► KEYWORD — fragment ◄◄</p> <p>fragment</p>

Search and scroll commands

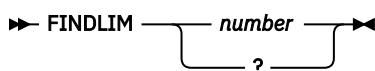
FINDLIM

FINDLIM resets the maximum number of lines searched by the FIND command on the Log, ULOG, and Output Data Set panels. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>number</i>	Any number between 1000 and 9999999.
?	Displays the current value on the command line or pop-up panel.

Under ISPF, the value is saved across sessions.

Example

```
FINDLIM 20000
```

Resets the maximum number of lines searched to 20,000.

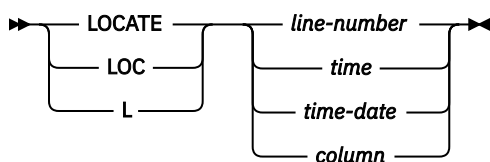
LOCATE

LOCATE scrolls a panel to a specific line or column in tabular panels.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>line-number</i>	Up to 8 digits (Log and Output Data Set panels).
<i>time</i>	A time of day in the form <i>hh:mm:ss</i> or <i>hh.mm.ss</i> (Log panels).
<i>time-date</i>	The time and date in the current format (Log panels).
<i>column-heading</i>	The heading of the column to be located (tabular panels). The panel is scrolled horizontally so that the specified column is the first column after the fixed field.

Examples

```
L 13:30:00
```

Scrolls the SYSLOG to 1:30 p.m. of the date being displayed.

```
L CRDATE
```

Scrolls the tabular panel to make CRDATE the first column after the JOBNAME column.

Additional information

For SYSLOG and output data sets, the line number is relative to the beginning of the current SYSLOG or output data set, not to all of the data being displayed. If there are not enough lines in a data set, LOCATE searches for the next line number of any subsequent data set.

When locating by time, the log is positioned as near as possible to the specified time. For instance, when displaying midnight, the SYSLOG panel is positioned at either the beginning or end of the physical spool that contains midnight. This might be many lines away from the actual records for midnight. In a JES3 environment, the log data must have been created by a z/OS V1R11 or later system.

Time parameters are processed using the current local time. As a result, when you issue a LOCATE command with a time that is prior to a time change, such as an adjustment for Daylight Saving Time, you will need to adjust the value to obtain the desired position in the SYSLOG.

The OPERLOG panel is positioned using the time the block of records was written to the log stream, rather than the time that the message was issued.

LOG

The LOG command displays the SYSLOG or OPERLOG panel. You must be authorized to use this command.

Where used

Any SDSF panel except help and tutorial panels.

Syntax and parameters



Parameter	Description
OPER	Displays the OPERLOG panel.
SYSLOG	Displays the SYSLOG panel.
No parameters	Displays the OPERLOG panel if the OPERLOG component is active on the system that you are logged on to. Otherwise, the SYSLOG panel is displayed.

Examples

```
LOG 0
```

Displays the OPERLOG panel.

```
LOG SYSLOG
```

Displays the SYSLOG panel.

```
LOG
```

Displays the OPERLOG panel if the OPERLOG component is active on the system that you are logged on to. Otherwise, the SYSLOG panel is displayed.

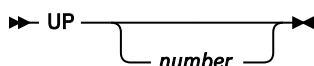
UP

The UP command scrolls up toward the top of the data.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters



Parameter	Description
<i>number</i>	<i>number</i> is a number or (ISPF only) MAX, PAGE, HALF, DATA or CSR.
No parameters	The default is the scroll amount (ISPF) or 1 (TSO).

Example

```
UP 5
```

Scrolls up 5 lines.

Additional information

For information about the values that can be used with scroll commands, see [“Using scroll commands with the SCROLL field”](#) on page 497.

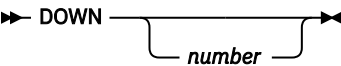
DOWN

The DOWN command scrolls toward the bottom of the data.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters



Parameter	Description
<i>number</i>	<i>number</i> is a number or (ISPF only) MAX, PAGE, HALF, DATA or CSR.
No parameters	The default is the scroll amount (ISPF) or 1 (TSO).

Example

```
DOWN 100
```

Scrolls down 100 lines.

Additional information

For information about the values that can be used with scroll commands, see [“Using scroll commands with the SCROLL field”](#) on page 497.

LEFT

The LEFT command scrolls the data to the left.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters



Parameter	Description
<i>number</i>	<i>number</i> is a number or (ISPF only) MAX, PAGE, HALF, DATA or CSR.
No parameters	The default is the scroll amount (ISPF) or 1 (TSO).

Example

```
LEFT
```

Under TSO, scrolls one position to the left. Under ISPF, scrolls the scroll amount to the left.

Additional information

For information about the values that can be used with scroll commands, see [“Using scroll commands with the SCROLL field” on page 497](#).

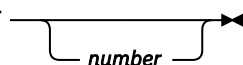
RIGHT

The RIGHT command scrolls the data to the right.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters

➤ RIGHT 

Parameter	Description
<i>number</i>	<i>number</i> is a number or (ISPF only) MAX, PAGE, HALF, DATA or CSR.
No parameters	The default is the scroll amount (ISPF) or 1 (TSO).

Example

```
RIGHT 25
```

Scrolls 25 positions to the right.

Additional information

For information about the values that can be used with scroll commands, see [“Using scroll commands with the SCROLL field” on page 497](#).

Using scroll commands with the SCROLL field

You can use the UP, DOWN, LEFT, and RIGHT commands (or PF keys) with the SCROLL field.

Under ISPF, you can use the following values with scroll commands to override the current ISPF scroll amount:

Parameter	Description
<i>number</i>	Scroll a number of lines or characters. The maximum supported by ISPF varies and may be up to 9999999.
MAX	Scroll to the right margin.
PAGE	Scroll a page (one screen).
HALF	Scroll half a page.
DATA	Scroll 1 line or character less than the screen.
CSR	Scroll to the cursor.

Under TSO, you can use 1-99999999 with the scroll commands.

TOP

The TOP command scrolls the data directly to the first line.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters

➤ TOP ➤

Example

```
TOP
```

Scrolls to the top of the data.

BOTTOM

The BOTTOM command scrolls the data directly to the last screen of data.

Where used

Any SDSF panel except the Primary Option Menu.

Syntax and parameters

➤ BOTTOM ➤
BOT

Example

```
BOTTOM
```

Scrolls to the last line of the data.

NEXT

The NEXT command scrolls the Output Data Set (ODS) panel to the next data set, or scrolls the OPERLOG panel to the next hour or day.

Where used

Output Data Set panel (not available when ODS is accessed from JDS or CK) and the OPERLOG panel.

Syntax and parameters

On Output Data Set panel

➤ NEXT ➤
N { 1 | number }

Parameter	Description
<i>number</i>	<i>number</i> is the number of data sets to be scrolled. If 0 is specified, the panel is scrolled to the beginning of the current data set.
No parameters	The default is 1 data set.

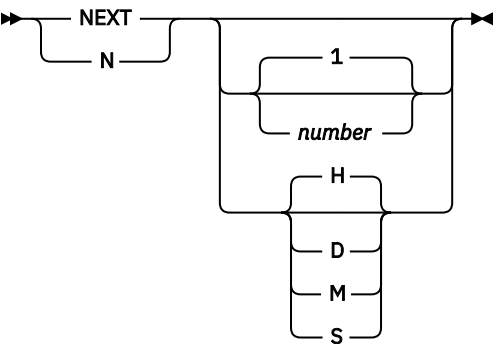
Example: Output Data Set Panel

```
NEXT
```

Scrolls the ODS panel forward to the next data set.

On OPERLOG panel

The OPERLOG panel is positioned using the time the block of records was written to the log stream, rather than the time the message was issued.



Parameter	Description
<i>number</i>	<i>number</i> is the number of days, hours, minutes, or seconds (1-99) to scroll forward.
D H M S	Indicates the unit for number is days, hours, minutes, or seconds respectively. Hours is the default.
No parameters	The default is 1 hour.

Example: OPERLOG panel

```
NEXT 2 H
```

Scrolls the OPERLOG panel forward 2 hours. The first log record for that hour is at the top of the screen.

PREV

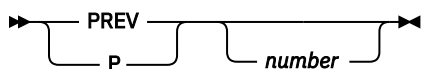
The PREV command scrolls the Output Data Set (ODS) panel to the previous data set, or scrolls the OPERLOG panel to the previous hour or day.

Where used

Output Data Set panel (not available when ODS is accessed from JDS or CK) and the OPERLOG panel.

Syntax and parameters

On Output Data Set panel



Parameter	Description
<i>number</i>	<i>number</i> is the number of data sets to be scrolled. If 0 is specified, the panel is scrolled backwards to the beginning of the current data set.
No parameters	The default is 1 data set.

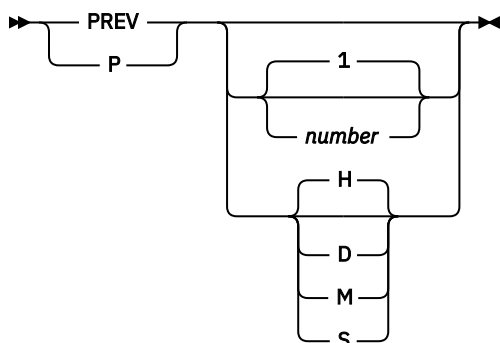
Example: Output Data Set panel

PREV

Scrolls the ODS panel backward to the previous data set.

On OPERLOG panel

The OPERLOG panel is positioned using the time the block of records was written to the log stream, rather than the time the message was issued.



Parameter	Description
<i>number</i>	<i>number</i> is the number of days, hours, minutes, or seconds (1-99) to scroll backward.
D H M S	Indicates the unit for number is days, hours, minutes, or seconds respectively. Hours is the default.
No parameters	The default is 1 hour.

Example: OPERLOG panel

PREV 2 H

Scrolls the OPERLOG panel backward 2 hours. The first log record for that hour is at the top of the screen.

SET commands

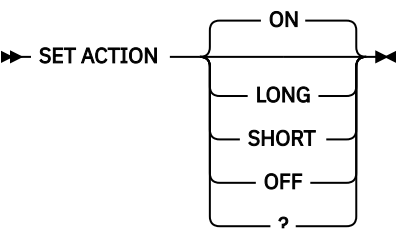
SET ACTION

SET ACTION controls the display of action characters on the tabular panels.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON LONG	(Default) Displays the action characters with their descriptions. When there are many possible parameters that can be combined, they will be listed following a +, for example: E+ADHJLMRTX.
SHORT	Displays the action characters without descriptions.
OFF	Ends the display of action characters.
?	Displays the current setting on the command line or pop-up panel.
No parameters	Displays the action characters with their descriptions (same as SET ACTION ON).

Under ISPF, the value is saved across sessions.

Example

```
SET ACTION ON
```

Displays the action characters with descriptions.

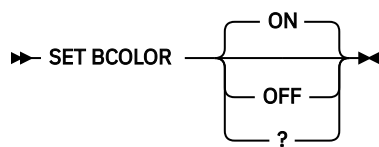
SET BCOLOR

SET BCOLOR controls the use of color and highlighting on SDSF browse panels CK, CKH, and ULOG.

Where used

Any SDSF panel, but only affects CK, CKH, and ULOG panels.

Syntax and parameters



Parameter	Description
ON	(Default) Color and highlighting will be used on SDSF browse panels
OFF	Color and highlighting will be not used on SDSF browse panels
?	Displays the current setting
No parameters	Color and highlighting will be used on SDSF browse panels (same as SET BCOLOR ON)

Example

```
SET BCOLOR ON
```

Causes SDSF to use color and highlighting when displaying output.

Additional information

Color and highlighting are only available when browsing health check output on the CK and CKH panels, as well as when browsing the ULOG. Additionally, color is only available when SDSF is running as an ISPF dialog. Highlighting is available in both the ISPF and TSO environments.

The colors and highlighting that is used varies depending on the messages being shown.

Under ISPF, **SET BCOLOR** is also available from the **Options** action bar pull-down.

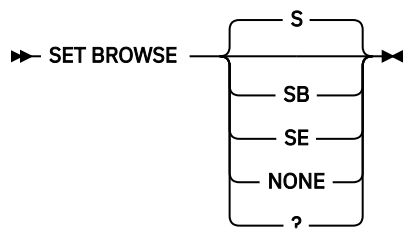
SET BROWSE

SET BROWSE controls the default browse action character (S, SB, or SE) that is issued when on some panels you place the cursor in the NP column and press Enter. Note that when SDSF is not running under ISPF, the SB and SE action characters are converted to S.

Where used

Any SDSF panel, but affects only job and output panels and the CK panel.

Syntax and parameters



Parameter	Description
S	(Default) SDSF browse
SB	ISPF browse

Parameter	Description
SE	ISPF edit
NONE	No action character is issued by default
?	Displays the current setting on the command line or pop-up panel
No parameters	No action character is issued by default (same as SET BROWSE NONE)

Note: If you set a default browse action character, you might want to ensure that SET CURSOR is set to OFF.

Under ISPF, the value is saved across sessions.

Example

```
SET BROWSE SB
```

Specifies that SB (ISPF browse) will be issued by default

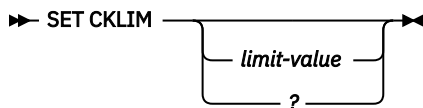
SET CKLIM

SET CKLIM sets the number of instances of a check to be displayed on the CKH panel.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>limit-value</i>	The maximum number of instances of a check to display on the CKH panel. It must be in the range of 1-999999.
?	Displays the current setting.
No parameters	Sets the limit value to 10.

Under ISPF, the value is saved across sessions.

Example

```
SET CKLIM 20
```

Limits the number of checks displayed to 20.

SET CONFIRM

SET CONFIRM controls whether SDSF requests confirmation of destructive action characters.

When confirmation is on, SDSF requests confirmation of action characters for the following:

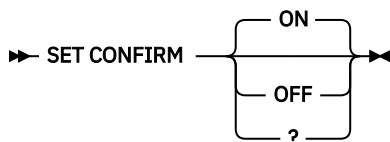
- Cancel, purge, restart, and system stop on job-oriented panels (DA, H, I, JDS, JG, O, ST, and PS)
- Drain and halt on the SP panel

- Quiesce on the ENC panel
- Refresh, delete, and delete categories on the CK panel
- Vary on the DEV panel
- Delete and undefine on the DYNX panel
- Reset and remove on the EMCS panel
- Cancel and force on the NS panel
- Vary on the PLEX panel
- Delete on the SSI panel
- Vary on the UCB panel

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Confirmation will be requested
OFF	No confirmation will be requested
?	Displays the current setting
No parameters	Confirmation will be requested (same as SET CONFIRM ON)

Example

```
SET CONFIRM ON
```

Enables confirmation of action characters.

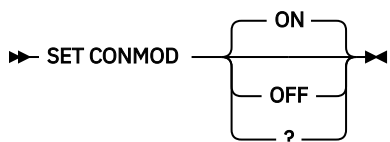
SET CONMOD

SET CONMOD controls whether SDSF uses a modified name if the extended console cannot be activated because the name is already in use. To modify the name, SDSF adds \$, #, @, 1, 2, 3, 4, or 5.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Enables console name modification. The name cannot already be 8 characters.
OFF	Disables console name modification.
?	Displays the current setting.
No parameters	Enables console name modification (same as SET CONMOD ON).

Example

```
SET CONMOD OFF
```

Disables console name modification.

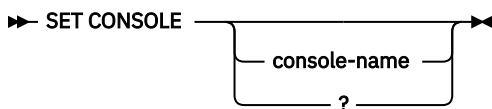
SET CONSOLE

SET CONSOLE sets the name of the extended console to be used by SDSF for the ULOG panel.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>console-name</i>	Specifies the console name (2-8 characters) to be used when an extended console is activated for the ULOG panel. The console must have been activated by SDSF, and it cannot have been activated in another address space.
?	Displays the current setting on the command line or pop-up panel.
No parameters	Resets the console name to your user ID.

Under ISPF, the value is saved across sessions.

Example

```
SET CONSOLE TAPE
```

Specifies that an extended console name of TAPE will be used.

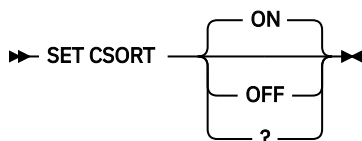
SET CSORT

SET CSORT controls whether SDSF cursor-sensitive sorting is enabled. When enabled, column titles are point-and-shoot fields. You place the cursor on the column title and press Enter to sort the panel.

Where used

Any SDSF panel except the Output Descriptors (OD) panel.

Syntax and parameters



Parameter	Description
ON	(Default) Enables cursor-sensitive sorting.
OFF	Disables cursor-sensitive sorting. Column titles are not point-and-shoot fields.
?	Displays the current setting.
No parameters	Enables cursor-sensitive sorting (same as SET CSORT ON).

Example

```
SET CSORT OFF
```

Disables cursor-sensitive sorting.

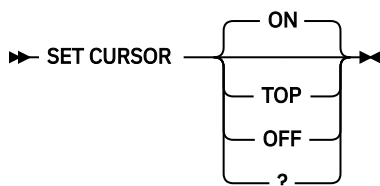
SET CURSOR

SET CURSOR controls how SDSF positions the cursor on tabular panels after you enter an action character or overwrite a field.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Returns the cursor to the NP column for the row. When the row is no longer visible, or when you press Enter without typing an action character or overtyping a field, the cursor returns to the command line.
TOP	Scrolls the row to the top of the panel. The cursor returns to the command line. Note: This setting might be preferable when a default browse action is in use.
OFF	Returns the cursor to the command line.
?	Displays the current setting.
No parameters	Returns the cursor to the NP column for the row (same as SET CURSOR ON).

Example

```
SET CURSOR ON
```

Causes the cursor to remain on the last row you worked with.

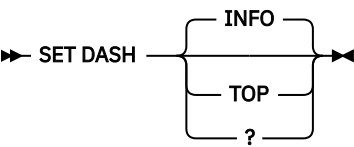
SET DASH

SET DASH sets the default order of information on the DASH panel.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
INFO	(Default) Displays the system information section first. This section contains summary information about the system and various usage measurements.
TOP	Lists the top consumers of spool, real storage, ECSA, ESQA, CSA, and SQA first.
?	Displays the current setting.
No parameters	Displays the system information section first (same as SET DASH INFO).

Under ISPF, the value is saved across sessions.

Example

```
SET DASH TOP
```

Sets the DASH panel to show the top consumers of spool and storage.

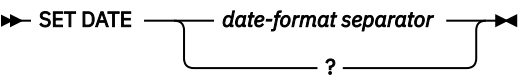
SET DATE

SET DATE selects the format for displaying dates on tabular panels and on the title line of the log panels, and for date parameters with SDSF functions.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>date-format</i>	Sets the date format. Enter one of the following: <ul style="list-style-type: none"> • MMDDYYYY: <i>month day year</i> • DDMMYYYY: <i>day month year</i> • YYYYMMDD: <i>year month day</i> Note: Unless the separator is a period, you can enter years as 2 or 4 digits. SDSF prefixes the 2 digits with first 2 digits of the current year.
<i>separator</i>	Specifies the separator character, which can be one of the following: / . -
?	Displays the current settings in a pop-up panel.

Only dates stored in GMT format are affected. Columns that reflect values stored in SMF format are not affected.

Example

```
SET DATE DDMMYYYY .
```

Sets the date format to day . month . year .

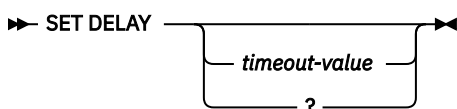
SET DELAY

SET DELAY sets the timeout value for awaiting responses to the / command and the D and L action characters.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>timeout-value</i>	Specifies the default timeout value (in seconds) for which SDSF will wait for message responses to the slash (/) command. The timeout value must be in the range of 0-9999 seconds, where 0 indicates that SDSF will neither wait nor display message responses on the message line. The message responses are still written to the user session log. The default timeout value is 1 second. SDSF waits until the timeout value has passed or the first response is received.
?	Displays the current setting on the command line or pop-up panel.
No parameters	Specifies a timeout value of 1 second.

Under ISPF, the value is saved across sessions.

Example

```
SET DELAY 5
```

Sets the timeout value to 5 seconds.

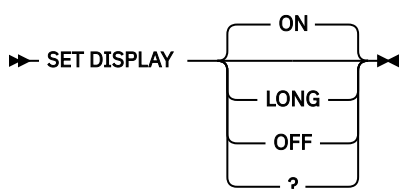
SET DISPLAY

SET DISPLAY controls the display of values for PREFIX, DEST, OWNER, SORT, FILTER, and SYSNAME above the tabular data.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Displays the values. For Sort, it shows up to two criteria, column/order or column//order (for delayed access), plus a count of additional columns. For Filter, its shows a count.
LONG	Shows complete sort and filter criteria.
OFF	Ends the display of values.
?	Displays the current setting on the command line or pop-up panel.
No parameters	Displays the values (same as SET DISPLAY ON).

Example

```
SET DISPLAY ON
```

Displays current values.

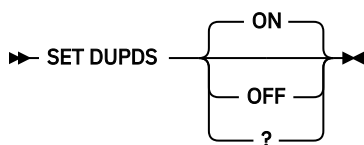
SET DUPDS

SET DUPDS controls whether SDSF displays duplicate SYSOUT data sets when you browse or print a job. Duplicate data sets result from DD statements referencing more than one OUTPUT JCL control card.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Allows duplicate SYSOUT data sets
OFF	Suppresses duplicate SYSOUT data sets
?	Displays the current setting
No parameters	Allows duplicate SYSOUT data sets (same as SET DUPDS ON)

Example

```
SET DUPDS OFF
```

Suppresses duplicate SYSOUT data sets.

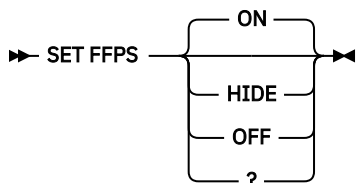
SET FFPS

SET FFPS controls whether the fixed field should be enabled for point-and-shoot on those tabular panels that support it.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Enables point-and-shoot for the fixed field
HIDE	Enables point-and-shoot for the fixed field, but does not change the color or highlighting for the fixed field
OFF	Disables point-and-shoot for the fixed field
?	Displays the current setting
No parameters	Enables point-and-shoot for the fixed field (same as SET FFPS ON)

Example

```
SET FFPS ON
```

Enables point-and-shoot for the fixed field on those panels that support it.

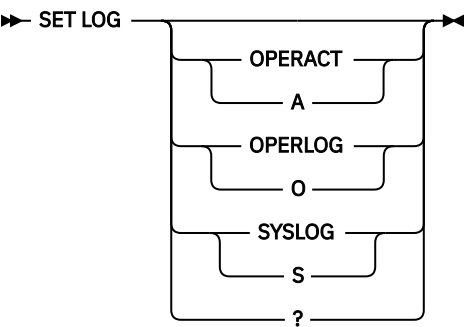
SET LOG

SET LOG specifies the panel that is displayed when you enter the LOG command with no parameters, or when you select a log from the **Display** action bar pull-down.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
OPERACT A	Specifies that the OPERLOG panel is displayed if the Operlog component is active on the system you are logged on to; otherwise, the SYSLOG panel is displayed
OPERLOG O	Specifies that the OPERLOG panel is displayed
SYSLOG S	Specifies that the SYSLOG panel is displayed
?	Displays the current setting
No parameters	Specifies that the OPERLOG panel is displayed if the Operlog component is active on the system you are logged on to; otherwise, the SYSLOG panel is displayed (same as same as SET LOG OPERACT)

Example

```
SET LOG OPERLOG
```

Sets the default to OPERLOG. The OPERLOG panel will be displayed even if the Operlog component is not active on your system.

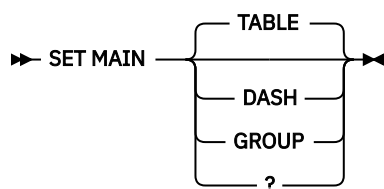
SET MAIN

SET MAIN controls the main panel that is shown on entry to SDSF.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
TABLE	(Default) Shows the main panel as a table of SDSF commands
DASH	Shows the main panel as the system dashboard, as configured by the DASH command
GROUP	Shows the main panel as a table of SDSF command groups
?	Displays the current setting
No parameters	Shows the main panel as a table of SDSF commands (same as SET MAIN TABLE)

Example

```
SET MAIN DASH
```

Configures SDSF to display the system dashboard whenever the main panel is shown.

Additional information

You must be authorized to the DASH command when **SET MAIN DASH** is issued. If you are not authorized to DASH, the main panel is displayed as a table of commands.

When the dashboard is shown as the main panel, you can use the **MENU** command to temporarily revert to the table format of the main panel.

When running under ISPF, the value of **SET MAIN** is saved across SDSF sessions.

Under ISPF, **SET MAIN** is also available from the **Options** action bar pull-down.

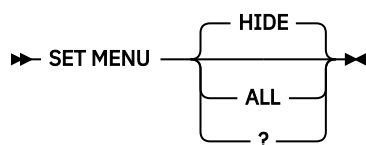
SET MENU

SET MENU controls whether all options are shown on the main menu or only those that are available in the current environment.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
HIDE	(Default) Hides all options not currently available

Parameter	Description
ALL	Shows all options regardless of whether they are available
?	Displays the current setting
No parameters	Hides all options not currently available (same as SET MENU HIDE)

Example

```
SET MENU HIDE
```

Hides all options not currently available.

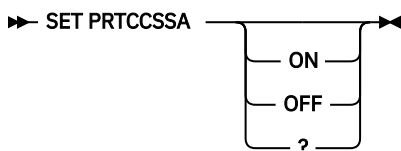
SET PRTCCASA

SET PRTCCASA controls how the print function handles carriage control.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	Always inserts ASA carriage control
OFF	Inserts carriage control based on the record format (RECFM) for the output data set
?	Displays the current setting
No parameters	Always inserts ASA carriage control (same as SET PRTCCASA ON)

Example

```
SET PRTCCASA OFF
```

Inserts carriage control based on the RECFM of the output data set.

Additional information

By default, the print function inserts ASA carriage control, or converts machine carriage control, if present, to ASA, unless:

- You use the PRINT FILE command or the XF or XFC action character.
- The data is page-mode. SYSOUT files containing both page-mode data and machine character data are not defined as page-mode in JES.

The print function can be customized to use the record format of the output data set to determine carriage control, as follows.

- If the record format includes A, SDSF uses ASA carriage control.

- If the record format includes M, SDSF uses machine carriage control.
- Otherwise, SDSF does not insert carriage control and removes carriage control if it is present in the output data set.

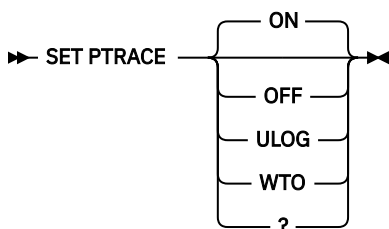
SET PTRACE

SET PTRACE can be used to diagnose problems related to z/OS UNIX file system profiles.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	(Default) Enables profile tracing and adds messages to ULOG.
OFF	Disables profile tracing.
ULOG	Enables profile tracing and adds messages to ULOG.
WTO	Enables profile tracing and issues write-to-programmer messages.
?	Displays the current profile tracing setting.
No parameters	Enables profile tracing and adds messages to ULOG (same as SET PTRACE ON).

Under ISPF, the value is saved across sessions.

Example

```
SET PTRACE ON
```

Enables profile tracing and adds messages to ULOG.

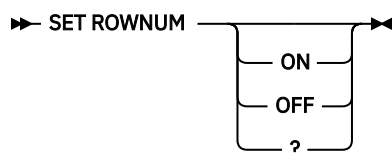
SET ROWNUM

SET ROWNUM controls row numbering on tabular panels. Row numbers appear after the NP column, in a column with the title #.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	Displays row numbers
OFF	Turns row numbering off
?	Displays the current setting
No parameters	Displays row numbers (same as SET ROWNUM ON)

Under ISPF, the value is saved across sessions.

Example

```
SET ROWNUM ON
```

Displays row numbers.

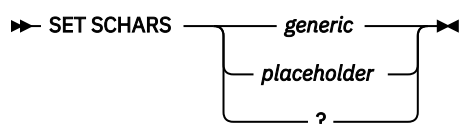
SET SCHARS

SET SCHARS sets the characters for pattern matching.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>generic</i>	(Required) The character that stands for any string of characters. See the note that follows for character limitations.
<i>placeholder</i>	The character that stands for any single character. See the note that follows for character limitations.
?	Displays the current setting.

Note: The generic and placeholder characters cannot be:

- Alphabetic characters
- Numeric characters
- National characters (@, #, \$)
- Blanks
- & or _ o

- The same as the ISPF end-of-line character
- The same as SDSF's query character
- Equal to each other

In addition, the values ():. cause symbols to work incorrectly.

Under ISPF, the value is saved across sessions.

Example

```
SET SCHARS *
```

Sets the generic character to *.

SET SCREEN

SET SCREEN displays a panel for changing the appearance of SDSF panels.

Where used

Any SDSF panel.

Syntax and parameters

➤ SET SCREEN ➤

Example

```
SET SCREEN
```

Displays a panel for changing screen characteristics.

SET SECTRA

SET SECTRA controls the handling of messages related to security.

Where used

Any SDSF panel.

Syntax and parameters

➤ SET SECTRA { ON | OFF | WTP | ? } ➤

Parameter	Description
ON	(Default) Sends messages to the user log.
OFF	Ends security tracing.

Parameter	Description
WTP	Issues write-to-programmer messages. Use this value if you do not have access to ULOG.
?	Displays the current setting.
No parameters	Sends messages to the user log (same as SET SECTRACE ON).

Under ISPF, the value is saved across sessions.

Security tracing can also be enabled when special ddnames are allocated. The ddnames are as follows:

- ISFSECTR: Equivalent to SET SECTRACE ON
- ISFSECTW: Equivalent to SET SECTRACE WTP

In the TSO environment, the following command can be used to allocate the ddname:

```
alloc fi(isfsectr) dummy reus
```

Allocation of the ddnames can be useful when initialization security tracing is needed. Similarly, use of the ddnames in the SDSF/REXX environment precludes the need to modify your exec to set the isfsectrace special variable.

Example

```
SET SECTRACE ON
```

Sends messages for security tracing to the user log.

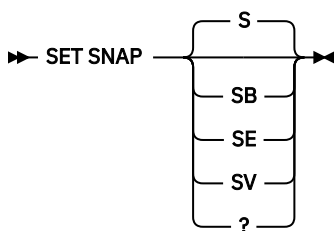
SET SNAP

SET SNAP sets a default browse option for displaying the output of a SNAPSHOT command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
S	(Default) SDSF browse
SB	ISPF browse
SE	ISPF edit
SV	ISPF view
?	Displays the current setting

Parameter	Description
No parameters	SDSF browse (same as SET SNAP S)

Under ISPF, the value is saved across sessions.

Example

```
SET SNAP SE
```

Sets the default browse option for displaying the output of a SNAPSHOT command to ISPF edit.

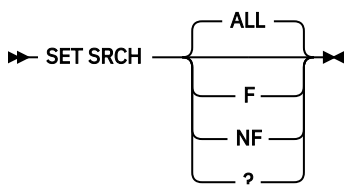
SET SRCH

SET SRCH sets a default option for displaying the results of the SRCH command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ALL	(Default) Show all data sets
F	Only show data sets where the member pattern was found
NF	Only show data sets where the member pattern was not found
?	Displays the current setting
No parameters	Show all data sets (same as SET SRCH ALL)

Example

```
SRCH IEA* F
```

Displays SRCH results for member pattern IEA*.

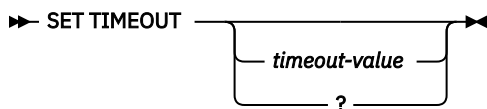
SET TIMEOUT

SET TIMEOUT sets the timeout value for awaiting sysplex data on the device and browse panels.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>timeout-value</i>	Specifies the default timeout value (in seconds). The timeout value must be in the range of 0-9999, where 0 indicates that SDSF does not wait; that is, the sysplex support for device panels is disabled. When the sysplex support is disabled, the device panels show only the devices for the system you are logged on to.
?	Displays the current setting on the command line or pop-up.
No parameters	Sets the timeout value to the value that is specified in ISFPARMS.

Under ISPF, the value is saved across sessions.

Example

```
SET TIMEOUT 20
```

Sets the timeout value to 20 seconds.

Filter commands

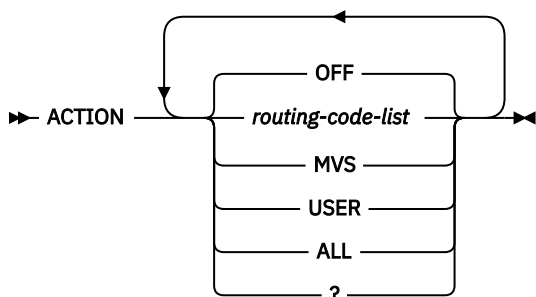
ACTION

The ACTION command specifies which write to operator with reply (WTOR) messages are displayed at the bottom of the Log panel. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters



You can use up to 4 parameters. The *routing-code-list*, MVS, and USER parameters may be combined. ACTION commands are cumulative.

Parameter	Description
<i>routing-code-list</i>	Up to four routing codes separated by blanks (1-28).
MVS	All routing codes reserved for MVS (1-12).

Parameter	Description
USER	All routing codes reserved for customer use (13-28).
ALL	Requests the display of WTORs for all routing codes.
OFF	Requests the display of no WTORs. This is the default.
?	Displays the current setting for ACTION on the message line.

Example

```
ACTION 1 2 3 USER
```

Displays WTORs for routing codes 1, 2, and 3 and for routing codes reserved for customer use.

Additional information

Under ISPF, the value for ACTION is saved across sessions.

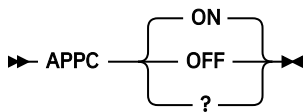
APPC

The APPC command controls the display of APPC transactions on the H and O panels.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	Displays APPC transactions on the H and O panels. This is the default.
OFF	Ends the display of APPC transactions on the H and O panels.
?	Displays the current setting for APPC.

Example

```
APPC OFF
```

Prevents the display of APPC transactions on the H and O panels.

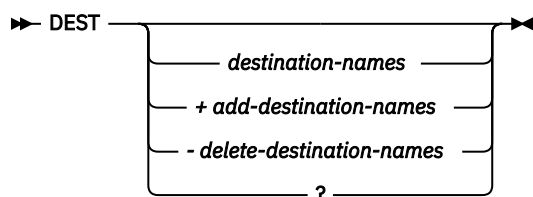
DEST

The DEST command limits jobs displayed by destination. You must be authorized for the command and for the destination.

Where used

Any SDSF panel, but affects only the H, I, JO, O, ST, PR, and PUN panels.

Syntax and parameters



Parameter	Description
<i>destination-names</i>	Destination names of up to 18 characters. Enter up to 4 destination names.
<i>+ add-destination-names</i>	Adds 1 to 3 destination names to the current destination list. The total cannot exceed 4.
<i>- delete-destination-names</i>	Deletes 1 to 3 destination names from the current destination list.
<i>?</i>	Displays the current setting on the command line or pop-up. Under TSO, if the destination names do not fit on the command line, they are formatted on the message line and cannot be modified.
No parameters	Specify all destinations for which you are authorized.

Example

```
DEST CHICAGO OMAHA
```

Displays jobs with a destination of CHICAGO or OMAHA.

Destination format

Enter the destination name in any format acceptable to JES. If you enter the node name without a user ID, you will see all jobs and output destined for the node.

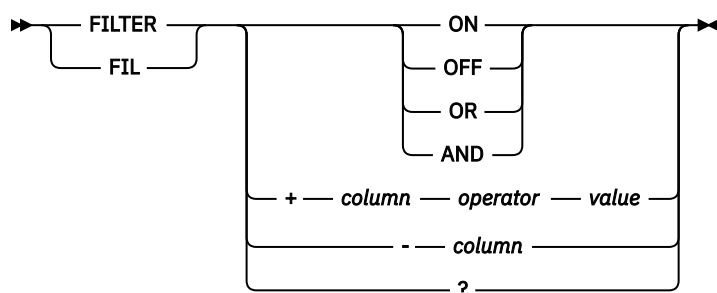
FILTER

The FILTER command filters data on the current SDSF panel. Under ISPF, filters are saved (one set for each JES type).

Where used

Any tabular panel or the OPERLOG panel.

Syntax and parameters



Parameter	Description
ON	Turns filtering on.
OFF	Turns filtering off, but retains filter criteria.
OR AND	Specify the relationship between filters, both within a column and between columns.
+ <i>column operator value</i>	<p>Adds the specified <i>column</i> to any previous filters and turns filtering on. There is a limit of 25 filters under ISPF, but no limit with ISFFILTER under REXX. When you use this with ISFFILTER, you must specify an operator.</p> <p><i>column</i> can be abbreviated to the shortest unique column name.</p> <p><i>operator</i> is one of the following:</p> <p>EQ or = Equal (the default)</p> <p>LT or < Less than</p> <p>LE or <= Less than or equal</p> <p>NE or != Not equal</p> <p>GT or > Greater than</p> <p>GE or >= Greater than or equal</p> <p>Operators with less than or greater than are valid only when the value does not contain pattern matching characters (by default, * and %).</p> <p><i>value</i> can contain pattern matching characters or system symbols. If it includes embedded blanks, enclose it in quotation marks.</p>
- <i>column</i>	Discards all filters for the column (ISPF only).
?	Displays filters and their current state. Under ISPF, it displays the Filter pop-up.

Examples

```
FILTER STATUS EQ A*
```

Displays only jobs with a status that begins with A.

```
FIL +SYSN SY1
```

Adds filtering on the SYSNAME column and makes filters active.

Additional information

When using the FILTER command, follow these guidelines for entering filter values, including symbols.

Pattern matching

Use pattern matching characters (* and % by default) to test for an inexact or partial match. For example:

Table 364. Examples of filter patterns and matches	
Command	Matches
FILTER JOBNAME EQ A	Jobs named A
FILTER JOBNAME EQ A*	Jobs with a name that begins with A
FILTER JOBNAME EQ *A*	Jobs with a name that contains A
FILTER JOBNAME EQ %A*	Jobs with a name that has A in the second position

You can change the pattern matching characters with the [“SET SCHARS” on page 515](#) command.

Numerics

Numerics cannot exceed the length of the field or accept pattern matching. For fields that use extended abbreviations for scaling (such as KB, MB, and GB), enter the value using the abbreviation. For example, for 4096 use 4MB. Use greater than and less than comparisons with these fields, rather than equals.

Date and time format

In general, use the same date format as is displayed on the panel. Dates can be abbreviated; for example, 5/8/22. However, when using a period to separate month, day, and year, you must enter a 4-digit year. You can change the date format with the [“SET DATE” on page 507](#) command or associated **Options** pull-down choice. The time format is hh:mm:ss.th or hh.mm.ss.th. Only the hours are required.

In time columns or date/time columns, the precision of the time makes an exact match unlikely. Instead of using the EQ operator, use operators with < or >. With date/time fields, the time defaults to all 0s if you omit it.

On the OPERLOG panel, the DATETIME column is in date/time format and accepts the date format set with SET DATE. The DATE and TIME columns are in character format; enter values in the format that is displayed. When using the EQ operator, use the DATE and TIME columns.

Addresses

Addresses can be specified in the format xxxxxxxx_yyyyyyyy, where xxxxxxxx are hexadecimal digits for the address high half and yyyyyyyy are hexadecimal digits for the address low half.

Specifying the high half is optional, as well as leading zeros in either the high or low half. At least one digit for the high and one digit for the low half are required with the underscore.

The table that follows shows examples of address filters.

Table 365.	
Address filter entry	Represents
00000050_1234ABCD	000000501234ABCD
50_1234ABCD	000000501234ABCD
10_20	0000001000000020
ABCD	000000000000ABCD

Symbols

Symbols are in the form &name; for example, &SYSNAME. They are resolved on tabular panels when you access or refresh the panel (by pressing Enter), and on the OPERLOG panel when you access the panel or use the FILTER command. If a symbol is not found, &value. is treated as a literal. You can use the system symbols for date and time, &LYMMDD and &LHHMMSS, for the DATETIME column on

the OPERLOG panel and for columns on tabular panels that show values stored in GMT format (the same columns affected by SET DATE), regardless of the format of dates and times displayed on the panel.

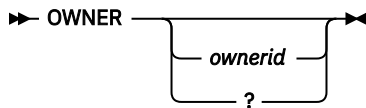
OWNER

The OWNER command limits jobs displayed to the user ID that owns the job. You must be authorized to use this command.

Where used

Any SDSF panel, but affects only the DA, H, I, JO, O, PS and ST panels.

Syntax and parameters



Parameter	Description
<i>ownerid</i>	The user ID that owns the job, or the IDTF (netmail) ID. It can be up to 8 characters including * (any string of characters) or % (any single character).
?	Displays the current setting on the command line or pop-up.
No parameters	Displays all jobs.

Examples

```
OWNER KENJON2
```

With no other filtering in effect, displays only jobs for that owner.

```
OWNER *
```

With no other filtering in effect, displays all jobs for all owner IDs.

Additional information

Under ISPF, OWNER remains in effect across SDSF sessions.

Related reference

[“SET DISPLAY” on page 509](#)

SET DISPLAY controls the display of values for PREFIX, DEST, OWNER, SORT, FILTER, and SYSNAME above the tabular data.

[“SET SCHARS” on page 515](#)

SET SCHARS sets the characters for pattern matching.

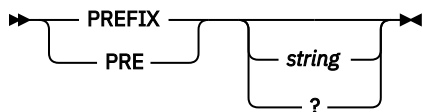
PREFIX

The PREFIX command limits the jobs that are displayed by job name. This may involve a column other than JOBNAME.

Where used

Any SDSF panel, but affects only the DA, I, O, H, PS, and ST panels.

Syntax and parameters



Parameter	Description
<i>string</i>	The name of the job, up to 8 characters, including * (any string of characters) or % (any single character)
?	Displays the current setting on the command line or pop-up
No parameters	Displays all jobs, except on the Held Output Queue panel, where it displays all jobs with names that begin with your user ID

Examples

```
PREFIX IEB
```

Displays only jobs with the name IEB.

```
PRE IEB*
```

Displays only jobs whose names begin with IEB.

Additional information

Under ISPF, PREFIX remains in effect across sessions.

If you use the FILTER command or pop-up to filter on job name, only the JOBNAME column is used to determine which jobs are displayed.

With the PREFIX command, for jobs that entered the system through the TSO/E Interactive Data Transmission Facility (netmail), SDSF compares the value for the PREFIX command with a value that is displayed as part of the value in the Dest column (JES print destination name).

Related reference

[“FILTER” on page 521](#)

The FILTER command filters data on the current SDSF panel. Under ISPF, filters are saved (one set for each JES type).

[“SET DISPLAY” on page 509](#)

SET DISPLAY controls the display of values for PREFIX, DEST, OWNER, SORT, FILTER, and SYSNAME above the tabular data.

[“SET SCHARS” on page 515](#)

SET SCHARS sets the characters for pattern matching.

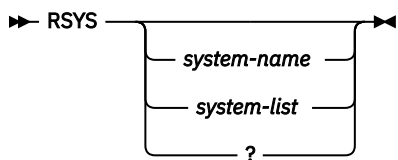
RSYS

The RSYS command limits WTORs displayed at the bottom of the Log panels. You must be authorized for this command.

Where used

Any SDSF panel, but affects only the SYSLOG and OPERLOG panels.

Syntax and parameters



Parameter	Description
<i>system-name</i>	The MVS system name, up to 8 characters, including * (any string of characters) or % (any single character)
<i>system-list</i>	The sysname list name as specified in ISFPRMxx.
?	Displays the current setting on the command line or pop-up
No parameters	Displays only WTORS from the system you are logged on to

Examples

```
RSYS SYS1
```

Displays only those WTORS with an originating system of SYS1.

```
RSYS
```

Displays only WTORS from the system the user is logged on to.

Related reference

“SET SCHARS” on page 515

SET SCHARS sets the characters for pattern matching.

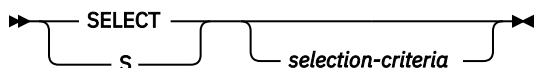
SELECT

The SELECT command temporarily limits data displayed on a tabular panel, overriding any filters until you exit the panel.

Where used

Any tabular panel.

Syntax and parameters



Parameter	Description
<i>selection-criteria</i>	Specifies the rows to be selected. The selection criteria is the fixed field, with the additional panel-specific criteria listed in Table 366 on page 527 and Table 367 on page 527 .
No parameters	Removes any filtering done with SELECT.

Table 366. Queue panels (DA, I, O, H, ST, and AS)

Panels	Additional SELECT criteria
DA, I, O, H, ST, and AS panels	<ul style="list-style-type: none"> • <i>jobname (jobid)</i>. The <i>jobid</i> is as follows: <ul style="list-style-type: none"> – JES2: JOB, TSU or STC (or J, T, S) followed by the job number. – JES3: JOB or INIT (or J, I) followed by the job number. • <i>jobname (job number)</i> • <i>job number</i>

Note: You do not need leading zeros with the job number.

Table 367. Other panels

Panel	Additional SELECT criteria
JDS panel	<i>ddname (stepname)</i> <i>ddname (dsid)</i> <i>dsid</i>
Job Dependency panel	<i>jobname (jobid)</i> This criteria may match JOBNAME (JobID) or DJobName (DJobID) columns.
Job Device panel	<i>fixedfield (datasetname, cfstructurename, or ipaddress)</i>
Job Group panel	<i>groupname (groupid)</i>
Job Step	<i>stepname (procstep)</i>
CK panel	<i>checkname (checkowner)</i>
APF, LNK, LPA, PAG, PARM panels	<i>datasetname</i>
ENQ panel	<i>minorname</i>
DYNX panel	<i>exitname</i>
PROC panel	<i>ddname</i>
SSI panel	<i>subsystemname</i>
CDE panel	<i>modulename</i>
FS panel	<i>devicenum</i>
SMSG panel	<i>groupname</i>
SMSV panel	<i>volser</i>
CFC panel	<i>connectionname</i>
CFS panel	<i>structurename</i>
VMAP panel	<i>areaname</i>
CSR panel	<i>jobname jobid</i>
GT panel	<i>owner</i>
NA panel	<i>jobname</i>
EMCS panel	<i>consolenam</i>

Table 367. Other panels (continued)

Panel	Additional SELECT criteria
BPXO panel	<i>optionname</i>
SRVC panel	<i>classname</i>
WLM panel	<i>optionname</i>
Main panel	<i>commandname groupname</i>
REPC panel	<i>classname</i>
RRGP panel	<i>resgroupname</i>
XCFM panel	<i>groupname</i>
JMO panel	<i>objecttype</i>
JCM panel	<i>membername</i>
JDDN panel	<i>ddname datasetname</i>
RMA panel	<i>messagetype</i>
JRI panel	<i>resourcenname</i>
JRJ panel	<i>jobname jobid</i>

Note: You may use special characters (* and %), except with *jobid*.

Examples

```
SELECT IEB
```

Displays only jobs with the name IEB.

```
S BILLJ JOB00011
```

Displays only jobs with the jobname BILLJ and the jobid JOB00011.

Related reference

[“SET SCHARS” on page 515](#)

SET SCHARS sets the characters for pattern matching.

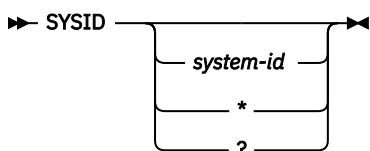
SYSID

The SYSID command specifies which of the system's logical SYSLOG data sets is displayed on the SYSLOG panel. You must be authorized to use this command.

Where used

Any SDSF panel, but affects only the SYSLOG panel.

Syntax and parameters



Parameter	Description
<i>system-id</i>	A member name, 1 - 4 characters (JES2) or 1 - 8 characters (JES3).
*	Specifies the JES3 global system, which is always processed, even if no records have been written to the SYSLOG for the local system.
?	Displays the SYSID setting on the command line, and a list of the members defined in the MAS or JESPLEX, beginning on the message line. The member you are logged on to is shown in parentheses.
No parameters	Requests the system you are logged on to.

Example

```
SYSID IP01
```

Causes the SYSLOG panel to display the SYSLOG for member IP01.

Additional information

Under ISPF, the value is saved across sessions.

In a JES3 environment, using the SYSID command to specify a local system may mean that when you access the SYSLOG panel, you see only the messages that were issued before the system began sending messages to the global system. Or, you may see an error message. To avoid either of these results, issue the command **SYSID *** to specify the global system.

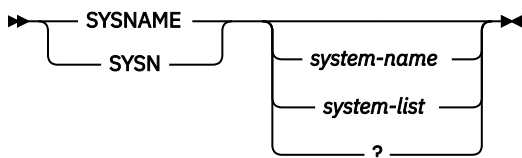
SYSNAME

The SYSNAME command specifies the systems in the sysplex that are included on the CK, DA, ENC, INIT, LI, NC, NS, NO, PR, PS, PUN, RDR, RM, and SO panels. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
<i>system-name</i>	A member name, 1 - 4 characters (JES2) or 1 - 8 characters (JES3).
*	Specifies the JES3 global system, which is always processed, even if no records have been written to the SYSLOG for the local system.
<i>system-list</i>	The sysname list name as specified in ISFPRMxx.
?	Displays the SYSID setting on the command line, and a list of the members defined in the MAS or JESPLEX, beginning on the message line. The member you are logged on to is shown in parentheses.
No parameters	Displays only data for the system you are logged on to.

Examples

SYSNAME SYS1

Displays only data for SYS1 on the affected SDSF panels.

SYSN

Displays only data for the system you are logged on to.

Additional information

Under ISPF, SYSNAME remains in effect across sessions.

View commands

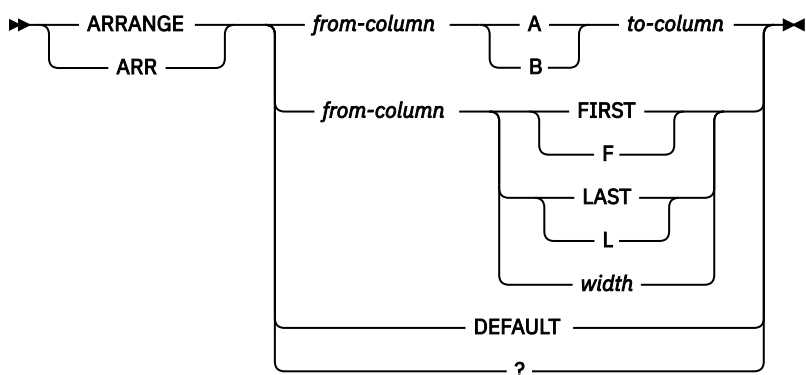
ARRANGE

The ARRANGE command reorders, hides, and changes the widths of columns on the current panel.

Where used

Any tabular panel.

Syntax and parameters



Parameter	Description
<i>from-column, to-column</i>	These parameters specify columns on an SDSF panel. A column can be abbreviated to the shortest name that is unique for that panel. The special column .END can be used to hide columns.
A B	A moves <i>from-column</i> after <i>to-column</i> . B moves <i>from-column</i> before <i>to-column</i> .
FIRST F	FIRST or F makes <i>from-column</i> the first column after the fixed field (the first column). The fixed field cannot be moved.
LAST L	LAST or L makes <i>from-column</i> the last visible column (furthest to the right prior to the .END column).
<i>width</i>	Sets the width of <i>from-column</i> ; it is 4-20 for the NP column and 1-127 for other columns.
DEFAULT	Resets the column arrangement to the default.
?	Under ISPF, displays the Arrange pop-up.

Under ISPF, ARRANGE criteria are saved (one set for each JES type).

Examples

```
ARRANGE SIO A DP
```

Moves the SIO column after the DP column on the current panel.

```
ARR DEST 8
```

Makes the DEST column 8 characters wide.

Additional information

Arranging some columns to the first screen of columns may impact SDSF performance. Where this is true, the help for the panel's fields indicates that the fields have delayed access.

Specifying a *from-column* or *to-column* of .END can be used to hide columns on the panel. All columns following .END (the end of column list marker) will not appear on the panel. Although the columns are hidden, you can still sort and filter the columns, and show the column value using the Show Column Values pop-up accessed with the / action character.

When .END is the last column, all columns are visible.

The special column .END cannot be used on the OD panel.

?

The ? command either displays the alternate form of a tabular panel, or on the Output Data Set panel displays the attributes of the data set being displayed.

Where used

Any tabular panel and the Output Data Set panel.

Syntax and parameters



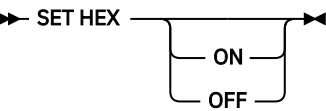
SET HEX

The SET HEX command controls display in hexadecimal for this session.

Where used

Affects only the Output Data Set and Log panels.

Syntax and parameters



Parameter	Description
ON OFF	Sets or turns off the hexadecimal format on supported panels. The format is: <ul style="list-style-type: none">Line 1 - translated byte in EBCDIC

Parameter	Description
	<ul style="list-style-type: none"> Line 2 - zone field (left half byte) Line 3 - numeric field (right half byte) Line 4 - dashes <p>The ISPF PRINT-HI command and the SDSF PRINT SCREEN command will print data in hexadecimal format. Other forms of the SDSF PRINT command will not print data in hexadecimal.</p>
No parameters	Turns on the hexadecimal format on supported panels (same as SET HEX ON).

Example

```
SET HEX ON
```

Displays the Output Data Set or Log panel in hexadecimal.

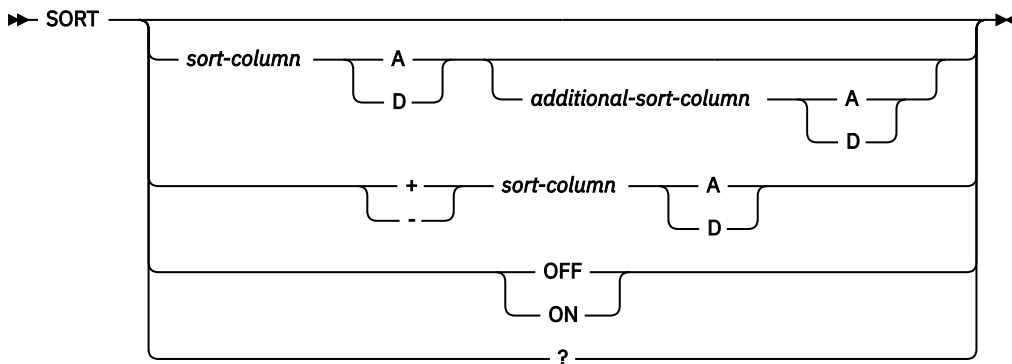
SORT

The SORT command sorts data on the current tabular panel, including its alternate form (displayed with the ? command).

Where used

Any tabular panel.

Syntax and parameters



Parameter	Description
<i>sort-column, additional-sort-column</i>	The title of the column to be sorted. Specify the title as it appears on the panel, or abbreviate it to a name that is unique on the panel. If the title contains blanks, either use an abbreviation that contains no blanks or enclose the title in quotation marks. You can sort on up to two columns in one command.
A D	Specifies that the sort order is either to be ascending (A) or descending (D). A is the default. When you enter two columns on a single command, you must specify either A or D for the first column.
+ - <i>sort-column</i>	Adds (+) or removes (-) sort criteria for a column. You can sort on up to 10 columns.

Parameter	Description
OFF ON	OFF turns sorting off for the current panel but retains the sort criteria. ON turns sorting on.
?	Displays the sort criteria on the command line or pop-up. Under TSO, if the criteria do not fit on the command line, they are displayed on the message line.

Under ISPF, the sort criteria for each panel are saved.

Examples

```

SORT

```

Sorts using the fixed output field (for example, JOBNAME on the DA panel), ascending.

```

SORT FO A TOT-REC D

```

Sorts using the FORMS column, ascending, and then the TOT-REC column, descending.

Additional information

To sort on a single column, ascending, place the cursor on the column title and press Enter. Repeat this to sort descending. Repeat it again to remove this sort criteria. The cursor-sensitive sort may be ignored if you use it at the same time as a function that causes the cursor to move. The beginning of the title must be visible.

The titles for the same column on the primary and alternate form of a panel may be different. If so, SDSF recognizes the difference and sorts both the primary and alternate forms of the panel.

SDSF does not distinguish between duplicate column names that vary only by case.

Related reference

[“SET DISPLAY” on page 509](#)

SET DISPLAY controls the display of values for PREFIX, DEST, OWNER, SORT, FILTER, and SYSNAME above the tabular data.

[“SET CSORT” on page 505](#)

SET CSORT controls whether SDSF cursor-sensitive sorting is enabled. When enabled, column titles are point-and-shoot fields. You place the cursor on the column title and press Enter to sort the panel.

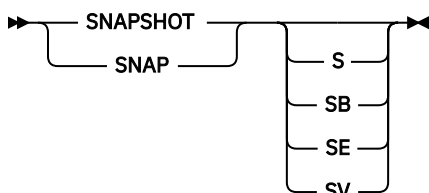
SNAPSHOT

The SNAPSHOT command displays tabular data using browse or edit and can be printed.

Where used

Any tabular panel.

Syntax and parameters



Parameter	Description
S	Displays the data using SDSF browse. This is the default. From there, you might use SDSF's PRINT command.
SE	Displays the data using ISPF Edit. From there, you might use the CREATE command to copy the data to a data set.
SB	Displays the data using ISPF Browse.
SV	Displays the data using ISPF View.
No parameters	Displays the data using SDSF browse (same as SNAP S).

Example

```
SNAPSHOT SE
```

Displays the current table data using ISPF Edit.

Additional information

You can change the default for SNAPSHOT with the SET SNAP command or the associated choice in the **Options** action bar pull-down.

Related reference

[“SET SNAP” on page 517](#)

SET SNAP sets a default browse option for displaying the output of a SNAPSHOT command.

WHO

The WHO command displays information about the user and the system that the user is logged on to.

Where used

Any SDSF panel.

Syntax and parameters

➤ WHO ➤

Parameter	Description
WHO	<p>Displays the following information at the top of the current panel:</p> <ul style="list-style-type: none"> • The user ID • TSO logon procedure • Terminal identification • Index number and name of the group in ISFPARMS • Job ID • Seclabel (if the SECLABEL class is active) • The levels of MVS, JES, SDSF, ISPF and RMF • Whether the SDSF server is in use • The server name • The JES type

Parameter	Description
	<ul style="list-style-type: none"> • Subsystem name, member name (JES2) or system name (JES3) • Whether this is the JES3 global processor • The sysplex name • The MVS system name • Which profile type is in use (ISPF or z/OS UNIX file system)

Additional information

The fields for MVS, JES, and ISPF show the levels of each, or N/A to indicate not available.

The field for RMF/DA shows the RMF level or one of the following:

- NOTACC if DA has not yet been accessed in the current session
- DISABLED if use of RMF has been disabled by the user exit
- NOTINST if RMF is not installed
- HSF if SDSFAUX is being used to gather the data
- HSF/NORMF if SDSFAUX is being used but RMF is not available

The field for SDSF level shows the SDSF FMID.

The field for JES name is appended with "/E" when you are logged in to the JES emergency subsystem.

The field for the server usage displays one of the following:

- YES or NO to indicate whether SDSF connected to the server when SDSF initialized
- NOTCOMPAT if the server level is incompatible with the client

A separate field shows the server name.

The field for server communications (COMM=) is not supported and always displays NOTAVAIL.

The field for XCF communications (COMMX=) shows one of the following about XCF communications between SDSF servers:

- NOTAVAIL if XCF is not configured
- DISABLED if XCF is configured but not being used due to a prior error
- ENABLED if XCF is being used
- SUSPENDED if XCF is temporarily not being used (SET TIMEOUT is set to zero)
- UNKNOWN if XCF status cannot be determined

The field for the type of profile in use (PROFILE=) shows one of the following:

- ISPF when ISPF profiles are in use
- FILESYS when z/OS UNIX file system profiles are in use
- NONE when session settings are not being saved

Print commands

Overview of the PRINT command

The PRINT command prints output data or the screen image. It can be issued from the SDSF panel, but prints data only on the Log, ULOG, and Output Data Set panels. To print tabular panels, use the SNAP command.

Printing data

To print data, follow these general steps:

1. Open a print data set to specify the target of the output, either SYSOUT, a DASD data set, or a preallocated ddname. This step is optional except when printing the screen. The default target is SYSOUT.
2. Print the output data, log data, or screens to the print data set.
3. Close the print data set. This step frees the SYSOUT data set and makes it available for printing (if printing to SYSOUT), or closes the data set or print file.

Example

```
PT ODSN SDSF.PRINT * MOD
PT 06.00.00 04/15/2023 10.00.00 04/15/2023
PT CLOSE
```

Prints part of the SYSLOG to a pre-allocated data set, then closes the data set.

Related concepts

[“Printing from SDSF panels” on page 42](#)

You can print output data, data from the Log or ULOG, or screen images. The print output can go to SYSOUT, a data set, or a print file (specified with a DDNAME).

Related reference

[“PRINT: Opening a print data set” on page 536](#)

The PRINT command prints output data or the screen image.

[“PRINT: Printing the data” on page 538](#)

The PRINT command prints output data or the screen image.

[“PRINT: Closing a print data set” on page 540](#)

The PRINT CLOSE command either frees the SYSOUT data set and makes it available for printing (if printing to SYSOUT), or closes the data set or print file.

[“SET PRTCCASA” on page 513](#)

SET PRTCCASA controls how the print function handles carriage control.

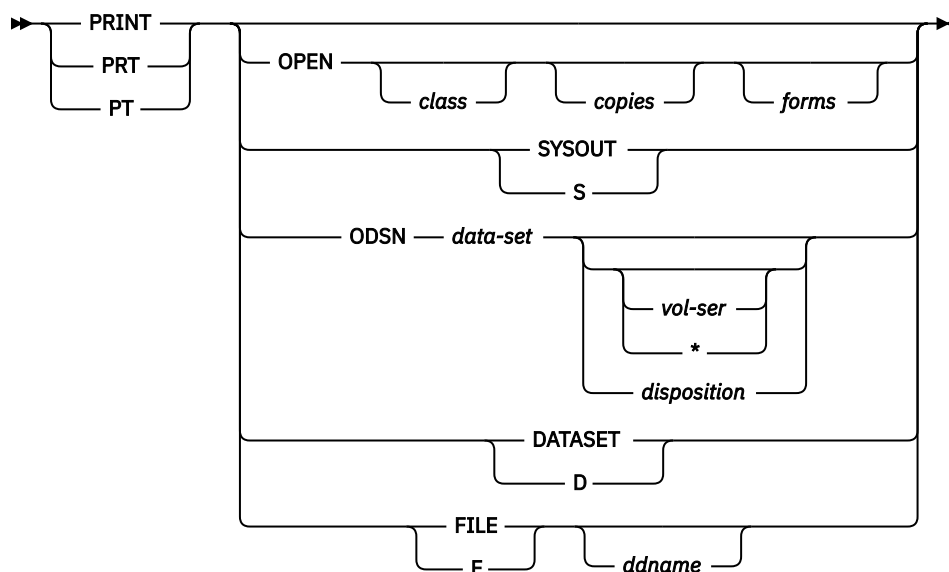
PRINT: Opening a print data set

The PRINT command prints output data or the screen image.

Where used

Any SDSF panel. Prints data only on the Log, ULOG, and Output Data Set panels. Use the SNAP command for tabular panels.

Syntax and parameters



Parameter	Description
OPEN	Specifies that a SYSOUT data set will receive the output.
<i>class</i>	The SYSOUT class. The default is selected by your systems programmer.
<i>copies</i>	The number of copies.
<i>forms</i>	The forms identifier for the output. The default is your installation's default for the class.
SYSOUT S	Displays a panel for specifying attributes of the SYSOUT, including a destination.
ODSN	Specifies that a DASD data set will receive the output.
<i>data-set</i>	Follows standard TSO data set naming conventions.
<i>vol-ser</i> *	<i>vol-ser</i> is the volume serial number of the data set. * specifies that no volume serial number is to be used. Either * or <i>vol-ser</i> is required when you specify a disposition.
<i>disposition</i>	<p>The data set disposition.</p> <p>OLD Specifies that the data set already exists, will be overwritten, and that you require exclusive use of the data set. OLD is the default.</p> <p>SHR Specifies that the data set already exists, will be overwritten, and that you do not require exclusive use of the data set.</p> <p>MOD Specifies that you want to append the data to a sequential data set. If the data set does not already exist, one is created.</p> <p>NEW Indicates that the data set is to be created.</p>
DATASET D	Displays a panel for specifying attributes of the data set.
FILE F	Specifies that a preallocated ddname will receive the output. With no other parameters, it displays a panel for specifying the ddname. SDSF will print the data without inserting ANSI control characters.

Parameter	Description
<i>ddname</i>	The preallocated ddname.
No parameters	PRINT with no parameters opens a default SYSOUT data set, if the print data set is not already open. On the Output Data Set panel, it also prints the entire data set.

Examples

```
PRINT
```

When issued from the Output Data Set panel, prints an entire output data set to SYSOUT with default attributes.

```
PRINT D
```

Displays the panel to open a print data set.

```
PRINT ODSN 'RPT2.PRINT' * NEW
```

Opens a new print data set with the default attributes.

Additional information

When allocating a data set to use for printing, you must specify a data set organization of sequential (DSORG=PS) or partitioned (DSORG=PO).

When allocating a data set for printing a SYSOUT file that does not contain printer carriage control, be sure the data set has an LRECL at least 1 byte greater than the SYSOUT's LRECL. SDSF PRINT commands generate ANSI control characters in output data sets of line-mode data. If the DASD data set has an LRECL less than that of the SYSOUT data set, the data is truncated and no message is issued.

By using a disk data set, you can print output that has more than 236 characters. If the disk data set has an LRECL that is less than that of the SYSOUT data set, the data is truncated and no message is issued.

Related concepts

[“Printing from SDSF panels” on page 42](#)

You can print output data, data from the Log or ULOG, or screen images. The print output can go to SYSOUT, a data set, or a print file (specified with a DDNAME).

Related reference

[“SET PRTCCASA” on page 513](#)

SET PRTCCASA controls how the print function handles carriage control.

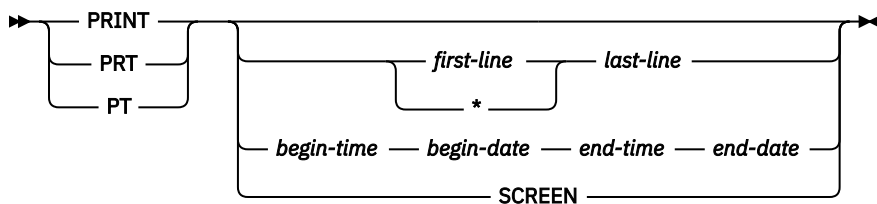
PRINT: Printing the data

The PRINT command prints output data or the screen image.

Where used

Any SDSF panel. Prints data only on the Log, ULOG, and Output Data Set panels. Use the SNAP command for tabular panels.

Syntax and parameters



Parameter	Description
<i>first-line</i>	The first line to be printed, in the current data set. To specify a quantity rather than a range of lines, use * for the first line. You must use * with the OPERLOG.
<i>last-line</i>	The last line to be printed. If * is used for <i>first-line</i> , this is a quantity of lines.
<i>begin-time</i>	The beginning time for a range of lines on the log, in the form hh:mm:ss or hh.mm.ss.
<i>begin-date</i>	The beginning date for a range of lines on the log, in the current date format. The default is the date of the current top line.
<i>end-time</i>	The ending time for the range of lines.
<i>end-date</i>	The ending date for the range of lines. The default is the date of the current top line.
SCREEN	Prints the screen image. (Under ISPF, use the ISPF PRINTL command.)
No parameters	PRINT with no parameters opens a default SYSOUT data set if the print data set is not already open. On the Output Data Set panel, it also prints the entire data set.

Example

```

PT ODSN SDSF.PRINT * MOD
PT 06.00.00 04/15/2023 10.00.00 04/15/2023
PT CLOSE

```

Prints part of the SYSLOG to a pre-allocated data set, then closes the data set.

Additional information

When printing with a time/date range, SDSF starts and ends with records as near as possible to the times specified. However, the output may contain a few records outside of the specified range. When you print the OPERLOG by time and date, the time applies to the time the message was recorded to OPERLOG, not the time the message was issued.

Related concepts

[“Printing from SDSF panels” on page 42](#)

You can print output data, data from the Log or ULOG, or screen images. The print output can go to SYSOUT, a data set, or a print file (specified with a DDNAME).

Related reference

[“SET DATE” on page 507](#)

SET DATE selects the format for displaying dates on tabular panels and on the title line of the log panels, and for date parameters with SDSF functions.

[“SET PRTCCASA” on page 513](#)

Removes the line and column number display.

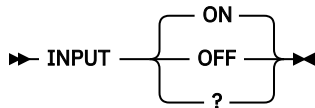
INPUT

The INPUT command specifies whether SYSIN data sets are to be included when you list or browse the data sets for a job from the DA, I, or ST panels. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	Specifies that SYSIN data sets should be displayed. This is the default.
OFF	Specifies that SYSIN data sets should not be displayed.
?	Displays the current setting for INPUT.

Under ISPF, the sort criteria for each panel are saved.

Example

```
INPUT
```

SYSIN data sets should be included in browse.

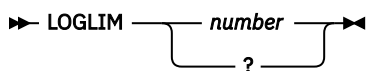
LOGLIM

The LOGLIM command limits the amount of OPERLOG data SDSF searches for records that meet filter criteria.

Where used

The OPERLOG panel.

Syntax and parameters



Parameter	Description
<i>number</i>	The number of hours to use as the limit, from 0-999, where 0 indicates that there is no limit
?	Displays the current setting

Under ISPF, the sort criteria for each panel are saved.

Example

LOGLIM 2

Causes SDSF to search not more than two hours of OPERLOG data for records that match the current filters.

Additional information

SDSF stops searching when it has found a screen's worth of data, or when it reaches the limit, whichever comes first.

When scrolling causes SDSF to resume searching, SDSF calculates the limit from the date of the top line on the screen. For calculating the limit when no date line is available, SDSF uses the date and time of the current OPERLOG record. If no records are available, SDSF uses the current date.

Some SDSF functions reposition the OPERLOG regardless of the setting for LOGLIM: NEXT, PREV, LOCATE, PRINT (with date and time parameters) and scrolling with max UP or max DOWN.

Other commands

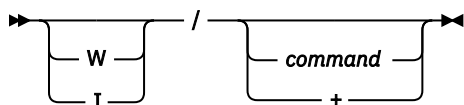
/ (Slash)

The / command allows authorized users to issue MVS or JES system commands from the SDSF command line, or to display the system command extension pop-up.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
W	Waits the full delay interval before displaying messages. The delay interval is specified with the SET DELAY command.
I	Uses console ID 0 (INTERNAL) to issue the command.
<i>command</i>	Any MVS or JES command. Note: Commands are converted to upper case. To preserve the case of command parameters, use the system command extension pop-up under ISPF, and enclose the command parameters in single quotation marks.
+	Displays the system command extension pop-up.
No parameters	Displays the system command extension pop-up, primed with the text of the previous slash command.

Examples

/D A,L

Causes SDSF to issue the command D A,L.


```
/SETPROG APF,ADD +
```

Displays the system command extension pop-up with SETPROG APF,ADD primed in the input field.

Additional information

The system command extension pop-up lets you enter longer commands and select commands from a list of recently issued commands. You can also assign commands to groups, and add comments to describe commands.

Related concepts

[“Issuing MVS or JES commands” on page 27](#)

& (Ampersand)

The & command reissues an SDSF command at a specified interval.

Where used

Any SDSF panel.

Syntax and parameters

➤ command &*seconds* ➤

Parameter	Description
<i>command</i>	Any SDSF command. If <i>command</i> is omitted, the current panel is refreshed. With some commands, do not leave a blank between the command and &.
<i>seconds</i>	The interval in seconds (up to 999).

Example

```
&3
```

Refreshes the panel every 3 seconds.

Additional information

To cancel the & command, press the RESET key, then PA1 (BSC terminals); or the Attn keys (SNA terminals).

ABEND

The ABEND command causes SDSF toabend with a user 222 abend code. An SDUMP is taken.

Where used

Any SDSF panel.

Syntax and parameters

➤ ABEND ➤

ABOUT

The ABOUT command displays the SDSF version and copyright information.

Where used

Any SDSF panel.

Syntax and parameters

➤ ABOUT ➤

DIAG

The DIAG command invokes SDSF diagnostic functions under the direction of IBM service personnel. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters

➤ DIAG — *parameters* ➤

Parameter	Description
<i>parameters</i>	The parameters are determined by IBM service personnel when performing diagnostics. The parameters may change based on the release and level of SDSF.

END

The END command exits a panel. If used on the Primary Option Menu, END terminates SDSF and returns to ISPF or TSO.

Where used

Any SDSF panel.

Syntax and parameters

➤ END ➤

MENU

The MENU command displays the SDSF main menu.

Where used

Any SDSF panel.

Syntax and parameters

➤ MENU ➤

RETRIEVE

The RETRIEVE command places the previous command on the command input line. Under ISPF, RETRIEVE does not retrieve HELP, TUTOR, or scroll commands (UP, DOWN, LEFT, RIGHT). Instead of using RETRIEVE, using the ISPF system command **CRETREIEV** is recommended.

Where used

Any SDSF panel.

Syntax and parameters



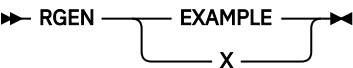
RGEN

The RGEN command generates a REXX exec for the current panel and displays it with ISPF Edit.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
EXAMPLE X	Displays a menu of examples.

Example

```
RGEN
```

Generates an exec that accesses the current panel and shows how to use special variables.

Additional information

Copy the REXX exec to your own data set before editing. The exec includes statements for accessing the SDSF panel and special variables as appropriate, such as those for filtering. Tip and note lines provide more information, but are not actually present in the exec. Hide them with RESET.

QUERY

The QUERY command displays SDSF data.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
AUTH	Displays a list of the commands that you are authorized to use. Only commands that require authorization are included.
LONG	Adds the JES for which the command is valid (JES2, JES3, or ANYJES). For the slash command, COND indicates the command is conditionally authorized based on command level.
FILTER	Displays the values of these filters: APPC, DEST, INPUT OWNER, PREFIX and SYSNAME.
MEMBER	Displays the members in the MAS or JESplex.
MOD	Displays service-level and compile information about an SDSF client module. For use by IBM service. The module must be loaded.
SYSID	Displays the current value for SYSID: DEFAULT (the system you are logged on to), GLOBAL (global system, under JES3), or member name.
TRACE	Indicates if tracing is active.

Examples

```
QUERY AUTH
```

Displays the SDSF commands for which you are authorized.

```
QUERY MOD ISFDAR
```

Displays the module name, FMID for the release, FMID or APAR level for the module, compile date and time for the module, the JES2 level, and the entry address.

Related reference

[“MODIFY DISPLAY” on page 547](#)

The MODIFY DISPLAY command shows general information about the SDSF server.

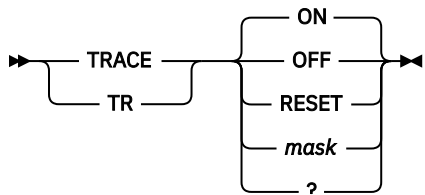
TRACE

The TRACE command controls the trace facility. You must be authorized to use this command.

Where used

Any SDSF panel.

Syntax and parameters



Parameter	Description
ON	Starts tracing at the point tracing left off. This is the default.
OFF	Stops tracing.
RESET	Starts tracing at the beginning of the trace data set, if it is a DASD data set. If it is a SYSOUT data set, the data is appended to the existing data, but the record count and sequence numbers are reset.
<i>mask</i>	This parameter is obsolete and is no longer used. If a value is provided for this parameter, the value is accepted but has no effect.
?	Displays the current setting for TRACE on the command line.

Example

```
TRACE ON
```

Starts tracing at the point it left off.

Additional information

If no ISFTRACE data set is allocated, SDSF dynamically allocates a SYSOUT file for you.

Server commands

MODIFY DISPLAY

The MODIFY DISPLAY command shows general information about the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```

  >> MODIFY proc-name , DISPLAY >>
      F      D

```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.

Examples

```
F SDSF,D
```

Displays server status and information.

MODIFY DISPLAY ALL

The MODIFY DISPLAY ALL command outputs the results of issuing all possible display commands.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
ALL	Displays all information about the SDSF server.

Examples

```
F SDSF,D
```

Displays status information.

```
F SDSF,D,ALL
```

Displays all information about the server.

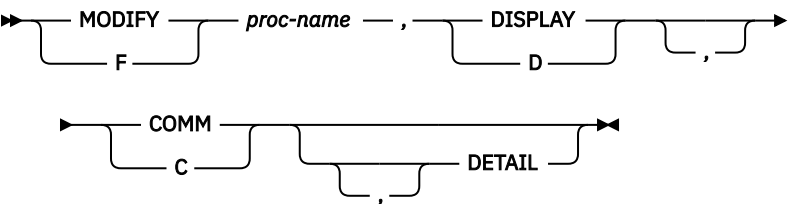
MODIFY DISPLAY COMM

The MODIFY DISPLAY COMM command shows information about XCF communications between servers.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
COMM C	Displays information for servers, including server ID, status, and the system being processed.
DETAIL	Displays detailed information about each XCF task.

Examples

```
F SDSF,D COMM
```

Displays information about the servers.

```
F SDSF,D,C,DETAIL
```

Displays information about each XCF task.

MODIFY DISPLAY ENV

The MODIFY DISPLAY ENV command shows information about SDSF invocation environments.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ MODIFY proc-name , DISPLAY ENV ➤
 F D ,

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
ENV	Displays information about SDSF invocation environments.

Examples

```
F SDSF,DISPLAY ENV
```

Displays information about SDSF invocation environments.

MODIFY DISPLAY EXIT

The MODIFY DISPLAY EXIT command shows invocation counts for the various system exits and ENF listener routines that have been installed by the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ MODIFY proc-name , DISPLAY EXIT ➤
 F D ,

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.

Parameter	Description
EXIT	Display invocation counts for system exits and ENF listener routines that have been installed by the SDSF server.

Examples

```
F SDSF,D EXIT
```

This command lists invocation counts for system exits and ENF listener routines that have been installed by the SDSF server.

MODIFY DISPLAY *feature*

The MODIFY DISPLAY *feature* command shows the current duration and limit of a feature and statistics about the data collection for the feature.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```

➤ MODIFY proc-name , DISPLAY feature ➤
  F      D

```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
<i>feature</i>	Names the feature to be displayed. Valid values are: ELOG Display information about the event log feature. If the ELOG is active, shows the current duration and limit of the ELOG feature and statistics about the data collection. MFM Display information about the module fetch monitor feature. If the MFM feature is active, shows the current duration and limit of the MFM feature and statistics about the data collection. If the feature is not active, message ISF367I is issued.

Examples

```
F SDSF,D ELOG
```

Displays information about the ELOG feature (if active).

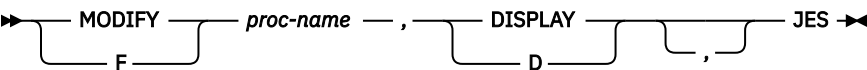
MODIFY DISPLAY JES

The MODIFY DISPLAY JES command shows known systems in the sysplex and JES subsystems in the MAS.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
JES	Shows known systems in the sysplex and JES subsystems in the MAS. Note: It is possible to get a line for a z/OS system without any JES information, as well as another line with JES information populated. This is because the source of the JES and system information comes from two sources: sysplex systems and the MAS.

Examples

```
F SDSF,D JES
```

This command lists the known systems in the sysplex and JES subsystems in the MAS.

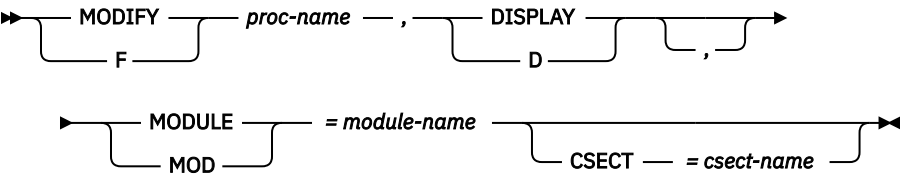
MODIFY DISPLAY MOD

The MODIFY DISPLAY MOD command shows service-level information about an SDSF server module.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
SYS	Lists the systems in the sysplex, their versions, and their statuses.

Examples

```
F SDSF,D SYS
```

Displays information about the systems in the sysplex.

MODIFY DISPLAY TASK

The MODIFY DISPLAY TASK command shows the CPU consumption for subtasks in the SDSF and SDSFAUX server address spaces.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```
➤ MODIFY proc-name , DISPLAY TASK ➤
  F      D      ,
```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
TASK	Displays CPU consumption for both the SDSF and SDSFAUX address spaces by task name.

Examples

```
F SDSF,D TASK
```

Displays information about CPU consumption for SDSF and SDSFAUX address spaces.

MODIFY DISPLAY USER

The MODIFY DISPLAY USER command shows the active connected users of the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```
➤ MODIFY proc-name , DISPLAY USER ➤
  F      D      ,
```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
DISPLAY D	Displays information, including status.
USER	Displays the active connected users of the SDSF server.

Examples

```
F SDSF,D USER
```

Displays active connected users of the SDSF server.

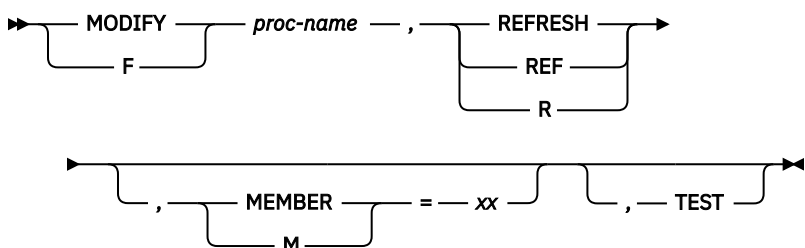
MODIFY REFRESH

The MODIFY REFRESH command selects the ISFPRMxx member to be processed and activates it. You can specify a test mode to cause the syntax of the statements to be checked without activating the statements.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
REFRESH	Refreshes the ISFPARMS statements.
MEMBER M =xx	Specifies the suffix of the suffix of member name ISFPRMxx, which contains the statements. The default is the member processed when the server was started. The data set is defined in the server JCL using ddname SDSFPARM.
TEST	Checks the syntax of the statements without activating them.

Examples

```
F SDSF,REFRESH
```

Activates a new ISFPARMS for server SDSF.

```
F SDSF,REFRESH,TEST
```

Causes the syntax of ISFPARMS statements to be checked for server SDSF. The statements will not be activated.

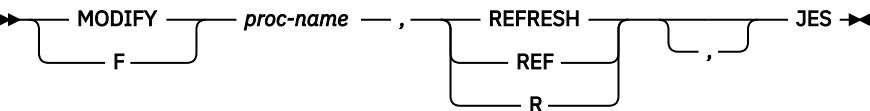
MODIFY REFRESH JES

The MODIFY REFRESH JES command manually refreshes the SDSF server list of known JES subsystems.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
REFRESH	Indicates the action is refresh.
JES	Specifies that the JES subsystems list is to be updated.

Examples

```
F SDSF,R JES
```

Requests a manual update of the known JES subsystem list.

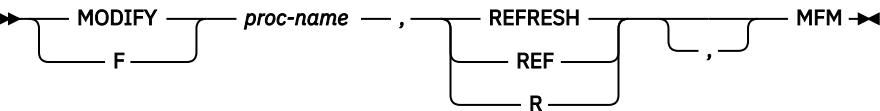
MODIFY REFRESH MFM

The MODIFY REFRESH MFM command resets and clears all existing MFM data that has been collected.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
REFRESH	Indicates the action is refresh.
MFM	Specifies the MFM feature is to be refreshed.

Examples

```
F SDSF,R MFM
```

refreshes and clears all existing MFM data that has been collected.

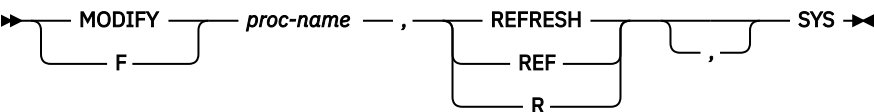
MODIFY REFRESH SYS

The MODIFY REFRESH SYS command manually refreshes the SDSF server list of known z/OS systems in the sysplex.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
REFRESH	Indicates the action is refresh.
SYS	Specifies that the z/OS systems list is to be updated.

Examples

```
F SDSF,R SYS
```

Requests a manual update of the known z/OS systems list.

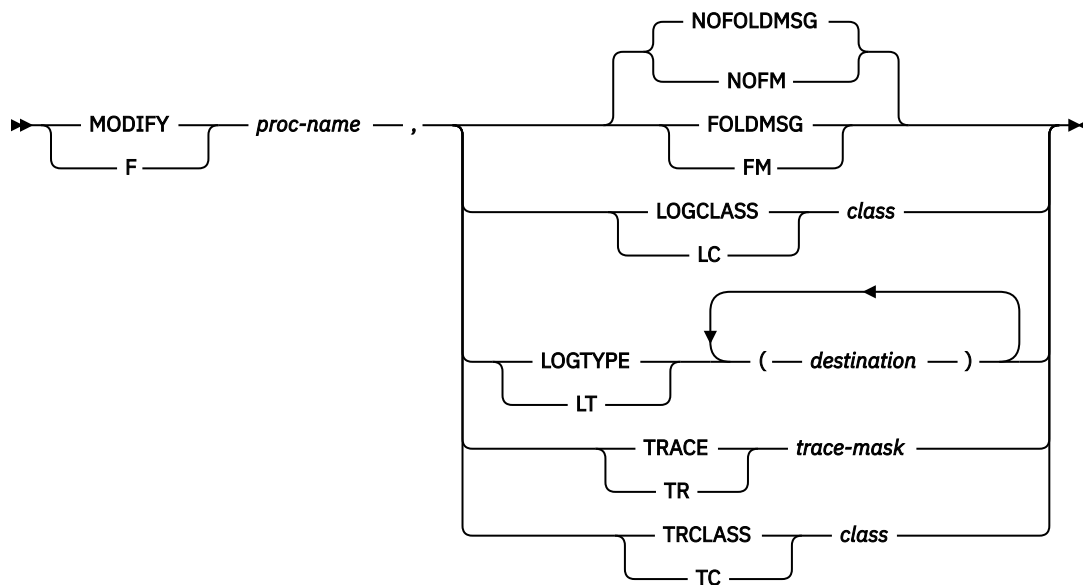
MODIFY SET *server options*

The MODIFY SET server options command dynamically changes options for the SDSF server address space.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server to be modified.
FOLDMSG FM	Folds server messages to upper case.
NOFOLDMSG NOFM	Causes server messages to be in mixed case. This is the default.
LOGCLASS LC= <i>class</i>	Specifies the default SYSOUT class for the server log. If no SDSFLOG is defined in the JCL, SDSF will allocate a log to this class. The default is A.
LOGTYPE LT=(<i>destination</i>)	Specifies the destination of the server log. The options are as follows: FILE FI Causes the server log to be written to the file with the ddname SDSFLOG. HARDCPY HA Causes messages issued during processing of ISFPARMS to be written to the hardcopy log (syslog). To use both parameters, separate them with commas, for example LT=(FI,HC) . Changes to logtype take effect the next time the log is opened.
TRACE TR= <i>trace-mask</i>	Specifies the default trace mask. Valid trace masks are the same as for the TRACE command, with the addition of NONE (equivalent to X'00000000').
TRCLASS TC= <i>class</i>	Specifies the SYSOUT class to use when dynamically allocating a trace file, if there is no DD in the server JCL.

Example

```
F SDSF,T LC=H
```

Changes the default SYSOUT class for the server log to H.

Note: The command accepts either = or () syntax. F SDSF,T LC(H) is also valid.

MODIFY SET LINGER

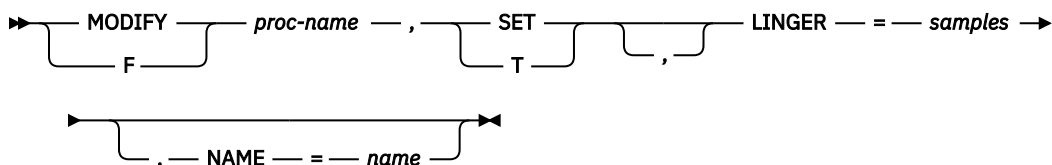
The MODIFY SET LINGER command changes the number of samples that are taken when the data collection agent resumes after being quiesced due to inactivity.

Important: Use this command only under the direction of IBM support personnel.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SET T	Indicates that the action is SET.
LINGER= <i>samples</i>	The number of samples. Valid values are 0-99.
NAME= <i>name</i>	The name of the SDSF data collection task.

Examples

```
F SDSF,T LINGER(2),NAME(HSFASDMN)
```

Note: The command accepts either = or () syntax. F SDSF,T LINGER=2,NAME=HSFASDMN is also valid.

Sets the number of samples to be taken to 2 when the SDSF data collection task HSFASDMN resumes after a quiesce.

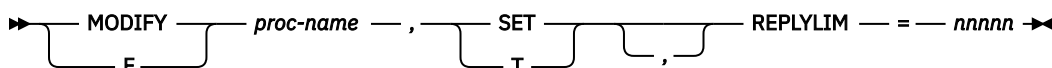
MODIFY SET REPLYLIMIT

The MODIFY SET REPLYLIMIT command sets the maximum number of response lines returned from a multiline WTO reply to an SDSF operator display command.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SET T	Indicates that the action is SET.
REPLYLIM= <i>nnnnn</i>	Sets the maximum number of response lines returned from a multiline WTO reply to an SDSF operator display command. Valid values are 10-99999999; the default is 1000.

Examples

```
F SDSF,T REPLYLIM(20000)
```

Note: The command accepts either = or () syntax. F SDSF,T REPLYLIM=20000 is also valid.

Specifies that no more than 20,000 lines are to be returned from a multiline WTO reply to an SDSF operator display command.

MODIFY SET SAMPLE

The MODIFY SET SAMPLE command overrides the sampling interval for one or more data collection agents running in the SDSF server address spaces.

Important: Use this command only under the direction of IBM support personnel.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ MODIFY proc-name , SET SAMPLE = nn ➤
 F T ,

 NAME = mask ➤

Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SET T	Indicates that the action is SET.
SAMPLE= <i>nn</i>	Specifies the number of seconds between each data gathering sample.
NAME= <i>mask</i>	Specifies the name mask for the affected data gathering agents. An asterisk (*) can be used to specify zero or more masking characters. A percent sign (%) can be used to specify a single masking character.

Examples

```
F SDSF,T SAMPLE(3),NAME(HSFASD*)
```

Note: The command accepts either = or () syntax. F SDSF,T SAMPLE=3,NAME=HSFASD* is also valid.

This command sets all agents that start with HSFASD to have a sampling interval of 3 seconds.

MODIFY SET TRACE

The MODIFY SET TRACE command overrides the trace level for one or more data collection agents running in the SDSF server address spaces.

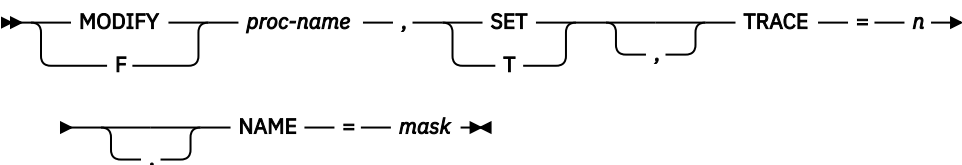
Note: Activating tracing in SDSF agents might impact SDSF performance and might generate a large amount of output.

Important: Use this command only under the direction of IBM support personnel.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SET T	Indicates that the action is SET.
TRACE = <i>n</i>	Specifies the trace level for the SDSF server agent. A value of 0 disables all tracing. A value from 1 - 9 enables tracing at the specified detail level.
NAME = <i>mask</i>	Specifies the name mask for the affected data gathering agents. An asterisk (*) can be used to specify zero or more masking characters. A percent sign (%) can be used to specify a single masking character.

Examples

```
F SDSF,T TRACE(9),NAME(HSFASD*)
```

Note: The command accepts either = or () syntax. `F SDSF,T TRACE=9,NAME=HSFASD*` is also valid. This command sets all agents that start with HSFASD to have the maximum trace level.

```
F SDSF,T TRACE=0,NAME=*
```

This command turns off tracing in all agents.

MODIFY SET WAKEUP

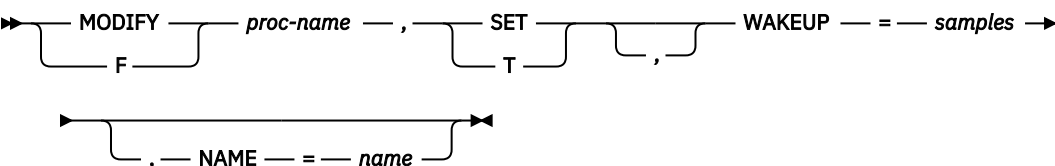
The `MODIFY SET WAKEUP` command changes the number of consecutive inactive samples that are taken before the data collection subtask resumes collection.

Important: Use this command only under the direction of IBM support personnel.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Note: The command accepts either = or () syntax.

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SET T	Indicates that the action is SET.
WAKEUP= <i>samples</i>	The number of samples. Valid values are 0-99.
NAME= <i>name</i>	The name of the SDSF data collection task.

Examples

```
F SDSF,T WAKEUP(60),NAME(HSFDEVNM)
```

Note: The command accepts either = or () syntax. F SDSF,T WAKEUP=60,NAME=HSFDEVNM is also valid.

Changes the number of consecutive inactive samples to be taken to 60 before the data collection subtask HSFDEVNM resumes collection.

MODIFY START AUX

The MODIFY START AUX command starts the SDSFAUX address space.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```
➤ MODIFY proc-name , START s , AUX ➤
```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
START S	Indicates that the action is START.
AUX	Starts the SDSFAUX address space using the AUXNAME and AUXPROC settings from the CONNECT statement in ISFPRMxx. If the SDSFAUX address space is still active, message ISF453I is issued. During normal SDSF server startup, SDSFAUX is automatically started if the ISFPRMxx member has been successfully parsed and processed.

Examples

```
F SDSF,S,AUX
```

Starts the SDSFAUX address space using the AUXNAME and AUXPROC settings from the CONNECT statement in ISFPRMxx.

MODIFY START COMM

The MODIFY START COMM command logically starts communications between SDSF servers. You might use this command if a server has been previously stopped with the STOP command, or if XCF has been stopped.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
START S	Indicates that the action is START.
COMM C	Causes communication between servers to be started.

Examples

```
F SDSF,S,COMM
```

Starts communication between SDSF servers.

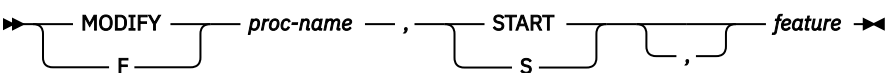
MODIFY START *feature*

The MODIFY START *feature* command starts an SDSF feature.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
START S	Indicates that the action is START.
<i>feature</i>	Names the feature to be started. Valid values are: ELOG Starts the event log feature. MFM Starts the module fetch monitor feature. Message ISF304I is issued after the START command is successfully submitted. If the feature was already active, message ISF363I is issued.

Examples

```
F SDSF,S ELOG
```

Starts the ELOG feature (if active).

MODIFY STOP AUX

The MODIFY STOP AUX command stops the SDSFAUX address space.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ MODIFY proc-name , STOP AUX ➤
 F P ,

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
STOP P	Indicates that the action is STOP.
AUX	Stops the SDSFAUX address space. If the address space is not active, message ISF454I is issued. Stopping the SDSFAUX address space terminates certain data collectors, and sample displays in SDSF clients will not be able to show any data. XCF data communication services run in the SDSFAUX address space and are therefore available only when SDSFAUX is active. Stopping the main SDSF server address space automatically stops the SDSFAUX address space.

Examples

```
F SDSF,P,AUX
```

Stops the SDSFAUX address space using the AUXNAME and AUXPROC settings from the CONNECT statement in ISFPRMxx.

MODIFY STOP COMM

The MODIFY STOP COMM command stops communications between servers.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ MODIFY proc-name , STOP COMM ➤
 F P C ,

➤ NAME = proc , SYSTEM = system ➤
 N SYS

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
STOP P	Indicates that the action is STOP.
COMM C	Causes communication between servers to be stopped.
NAME= <i>proc</i> , SYSTEM= <i>system</i>	Identifies the target server. <i>proc</i> and <i>system</i> can be a pattern.

Examples

```
F SDSF,P,C
```

Stops communication between servers.

MODIFY STOP *feature*

The MODIFY STOP *feature* command stops an SDSF feature.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

```

  ► MODIFY proc-name , STOP feature ►
    └── F ─┘      └── P ─┘

```

Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
STOP P	Indicates that the action is STOP.
<i>feature</i>	Names the feature to be stopped. Valid values are: ELOG Stops the event log feature. MFM Stops the module fetch monitor feature. Message ISF304I is issued after the STOP command is successfully submitted. If the feature was not active, message ISF364I is issued.

Examples

```
F SDSF,P ELOG
```

Stops the ELOG feature (if active).

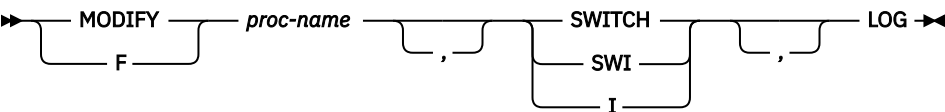
MODIFY SWITCH LOG

The MODIFY SWITCH LOG command closes and reopens the HSFLOG ddname allocated to the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SWITCH SWI I	Switches the log.
LOG	Closes and reopens the HSFLOG ddname allocated to the SDSF server. This allows previous output queued to HSFLOG to be spun.

Examples

```
F SDSF,SWITCH,LOG
```

Closes and reopens the HSFLOG ddname allocated to the SDSF server.

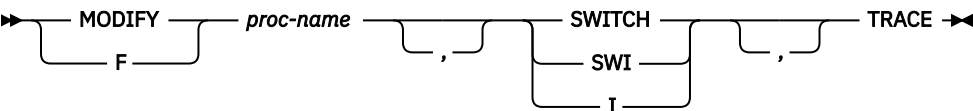
MODIFY SWITCH TRACE

The MODIFY SWITCH TRACE command closes and reopens the HSFTRACE ddname allocated to the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters



Parameter	Description
<i>proc-name</i>	The name of the SDSF server.
SWITCH SWI I	Switches the log.
TRACE	Closes and reopens the HSFTRACE ddname allocated to the SDSF server. This allows previous output queued to HSFTRACE to be spun.

Examples

F SDSF, SWITCH, TRACE

Closes and reopens the HSFTRACE ddname allocated to the SDSF server.

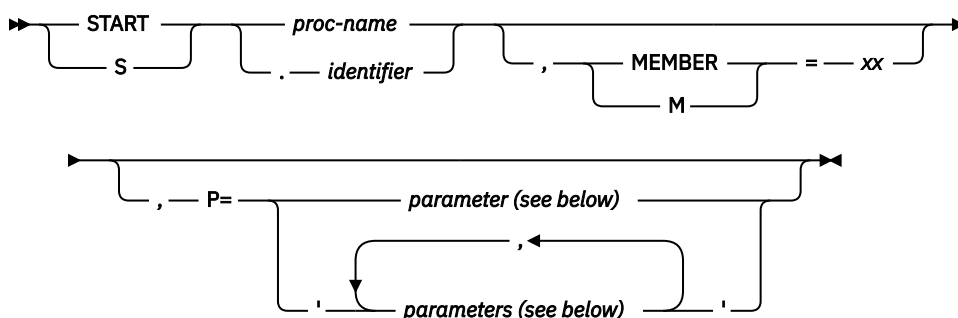
START

The START command initializes the SDSF server address space and controls server options.

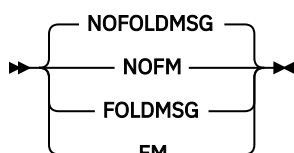
Where used

Any MCS or EMCS operator console.

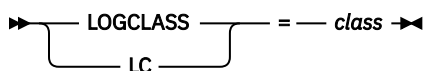
Syntax and parameters



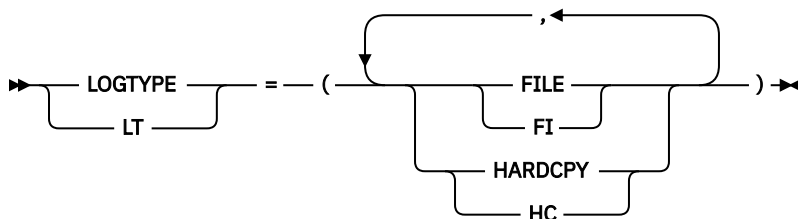
Message Folding



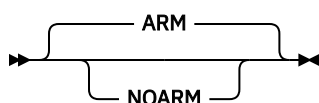
Log Class



Log Type



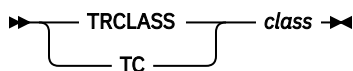
ARM



Trace



Trace Class



Parameter	Description
<i>proc-name</i>	The name of the SDSF server to be started. The SDSF server name is the same as the procedure name. The server must run as a started task.
<i>id</i>	An identifier used as the server name, instead of <i>proc-name</i> .
<i>xx</i>	The suffix of member name ISFPRMxx. ISFPRMxx is the member containing initialization statements to be read. The default for <i>xx</i> is 00. The data set is defined in the server JCL using ddname SDSFPARM.
FOLDMSG FM	Folds server messages to upper case.
NOFOLDMSG NOFM	Causes server messages to be in mixed case.
LOGCLASS LC= <i>class</i>	Specifies the default SYSOUT class for the server log. If no SDSFLOG is defined in the JCL, SDSF allocates a log to this class. The default is A.
LOGTYPE LT=(<i>destination</i>)	Specifies the destination of the server log. The options are as follows: FILE FI Causes the server log to be written to the file with the ddname SDSFLOG. HARDCPY HA Causes messages issued during processing of ISFPARMS to be written to the hardcopy log (syslog). To use both parameters, separate them with commas, for example LT=(FI,HC) . Changes to logtype take effect the next time the log is opened.
ARM	Specifies that ARM registration will be done if ARM is active on the system.
NOARM	Specifies that ARM registration will not be done.
TRACE TR= <i>trace-mask</i>	Specifies the default trace mask. Valid trace masks are the same as for the TRACE command, with the addition of NONE (equivalent to X'00000000').
TRCLASS TC= <i>class</i>	Specifies the SYSOUT class to use when dynamically allocating a trace file, if there is no DD in the server JCL.

Examples

```
S SDSF
```

Starts the SDSF server address space, with the name SDSF.

```
S SDSF,M=01,P='FM,LC=H'
```

Starts the SDSF server address space, with the name SDSF. Statements will be read from PARMLIB member ISFPRM01. Server messages will be folded to uppercase. The default SYSOUT class for the server log is H.

STOP

The STOP command ends the SDSF server.

Where used

Any MCS or EMCS operator console.

Syntax and parameters

➤ STOP *proc-name* ➤
P

Parameter	Description
<i>proc-name</i>	The name of the SDSF server to be stopped. The SDSF server name is the same as the procedure name.

Example

```
P SDSF
```

Stops the SDSF server address space with the name SDSF.

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Product Number: 5655-ZOS

SC27-9028-70

