

z/OS  
3.2

*SDSF Operation and Customization*



**Note**

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## About this document

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This document is for use with z/OS® System Display and Search Facility (SDSF). It is intended primarily for system programmers and operators, and assumes you are familiar with the z/OS operating system, including JES. This document contains information about migration, customization, security, operation, maintenance and problem determination, including explanations of SDSF messages.

This book assumes that readers have a working knowledge of:

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

This document also describes how to use SDSF's application services to write REXX execs or Java™ programs that exploit SDSF function. It includes a quick introduction to SDSF function and terminology for people who are not already experienced users of SDSF but want to exploit SDSF's application services.

Complete information about using SDSF, such as commands, action characters and messages, is provided in the online help for z/OS SDSF. In addition, introductory information is available on the Internet at <http://www.ibm.com/systems/z/os/zos/features/sdsf/>.

To find information on all z/OS topics, go to [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).





## z/OS information

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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).



## How to provide feedback to IBM

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# Summary of changes

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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](http://www.ibm.com/docs/en/zos/latest?topic=zos-product-documentation-update-policy)).

## Summary of changes for SDSF for z/OS 3.2

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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 244](#) displays address space activity summarized by WLM class name and type.
- The “[Catalog Data Sets panel \(CAT\)](#)” on [page 100](#) displays information about the ICF catalogs that have been used since the system was IPLed.
- The “[Common Memory Objects panel \(CMO\)](#)” on [page 108](#) panel displays the 64-bit common storage (HVCOMM) memory objects.
- The “[Device Space panel \(DEVS\)](#)” on [page 113](#) lists device space information for all or a subset of DASD volumes.
- The “[Function Registry panel \(FXE\)](#)” on [page 125](#) 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 141](#) displays critical JES2 resources summarized by the user ID of the job owner.
- The “[Module Fetch Paths panel \(MFP\)](#)” on [page 177](#) displays module fetch statistics from z/OS UNIX file system paths.
- The “[Main Group panel \(MGRP\)](#)” on [page 171](#) 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 182](#) displays TCP/IP network activity summarized by the port number used by the connection.
- The “[RACF Data Sets panel \(RACD\)](#)” on [page 207](#) displays RACF data sets currently defined to the system.
- The “[RACF Information panel \(RACF\)](#)” on [page 208](#) displays RACF general configuration information, along with the entry point addresses of each known RACF exit.
- The “[RACF RRSF Nodes panel \(RACR\)](#)” on [page 211](#) displays the RACF remote sharing facility (RRSF) nodes currently defined to the system.
- The “[RACF Log panel \(RLOG\)](#)” on [page 209](#) 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 223](#) shows information about defined log streams that are recording SMF records.

- The “SMF Real Time Resources panel (SMFR)” on page 225 shows information about the size and usage of in-memory buffers.

### New secondary panels

- The “UNIX Threads panel” on page 241 displays z/OS UNIX thread information.
- The Process Details panel shows attributes about a process, including the invocation command.
- The “VTOC panel (VTOC)” on page 242 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  |
| FS  | PDEVICE      | PDevice           | 7     | Parent device number  |

| <i>Table 1. New non-overtimeable columns (continued)</i> |             |                   |       |  |
|--|-------------|-------------------|-------|--|
| Panel  | Column Name | Title (Displayed) | Width | Description  |
| 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   |
| JRJC   | LIMITPCTVAL | LimitVal          | 8     | Current limit percent value  |

| <i>Table 1. New non-overtypable columns (continued)</i> |                    |                          |              |  |
|---|--------------------|--------------------------|--------------|--|
| <b>Panel</b>  | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>   |
| 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> |                    |                          |              |  |
|---|--------------------|--------------------------|--------------|--|
| <b>Panel Name</b>                       | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                         |
| JC                                      | PROCNAME           | ProcName                 | 8            | Default procedure library name (JES2 only) |



| <i>Table 2. New overtypable columns (continued)</i> |             |                   |       |  |
|---|-------------|-------------------|-------|--|
| Panel Name  | Column Name | Title (Displayed) | Width | Description  |
| 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. |
| 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.   |

| <i>Table 3. New action characters (continued)</i> |                         |   |
|---|-------------------------|---|
| <b>Panel</b>                                      | <b>Action Character</b> | <b>Description</b>  |
| 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.  |
| 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. |

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

| <i>Table 3. New action characters (continued)</i> |                  |   |
|---|------------------|---|
| Panel   | Action Character | Description   |
| 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 and information

- SDSF can save user settings in the z/OS UNIX file system as an alternative to the ISPF profile. For more information, see [“Group function parameters reference”](#) on page 14 and [“Using the z/OS UNIX file system for session settings”](#) on page 449. A new generic tracker was added for this functionality in the topic [“SDSF generic trackers”](#) on page 454.
- The new MAPGEN utility generates the MAP and MAPENT statements needed to map a control block. The utility eliminates the need to code the MAP and MAPENT for every field in a control block. Whenever a control block changes, you can rerun the MAPGEN utility to replace existing MAP and MAPENT statements with new ones. The topics [“Custom memory maps”](#) on page 48 and [“Using the MAPGEN utility”](#) on page 50 were added, and the topic [“MAPOPT and MAPDEF statement syntax”](#) on page 47 was modified.
- The ELOG HELP command was added to display a list of event names that can be used in the ELOG feature FEATENT statement. The topics [“The Event Log \(ELOG\) feature”](#) on page 39 and [“ELOG feature syntax”](#) on page 40 were updated.
- A new generic tracker event was added for batch and AFD usage. The topic [“SDSF generic trackers”](#) on page 454 was added.
- A description of SDSF health checks was added in the topic [Chapter 13, “SDSF health checks,”](#) on page 443.
- Additional controls are available when activating SDSF client trace. The topic [“Server tracing”](#) on page 75 was added and the topic [“Protecting SDSF authorized functions”](#) on page 265 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 143.
- Instructions for enabling SDSF were added to [“Configuring SDSF for the first time”](#) on page 445.
- New reason code 0808 was added to abend code 0201 in the topic [“SDSF user abend codes”](#) on page 593.

### New custom properties

The following new custom properties were added to topic [“PROPLIST syntax”](#) on page 53:

- Browse.Enhanced.DisableAttrs controls color and highlighting on the ULOG and CK browse panels. Also, a new generic tracker was added to the topic [“SDSF generic trackers”](#) on page 454.
- Panel.Confirm.DisableRetain controls the default action on the Confirm Action pop-up.
- Panel.Local.JESplexScope adds JESplex scoping support to panels that gather sysplex wide data locally. The panels that are supported are CFC, CFSA, EMCS, ENQ, SR, and XCFA.
- Panel.Main.DisableGroup controls whether the SDSF main menu can be displayed as a list of groups.
- Panel.Main.DisableUlog controls suppression of the ULOG option on the SDSF main menu.
- Panel.DA.ShowTitlezAAPUtil controls whether zAAP or zIIP utilization is shown in the title line on the DA panel.
- Profile.FileSys.NoTSO enables or disables use of the z/OS UNIX file system profiles.

## Changed

The following content is changed.

### September 2025 release

- When ISFPRMxx contains MAPDEF statements that define custom memory maps, SDSF now reads the member name defined by the MAPDEF statement from the MAPPARM ddname instead of from the SDSFPARM ddname. When no MAPPARM DD statement is present, SDSF reads the member from the system logical parmlib. The topics [“ISFPARMS format” on page 7](#), [“Memory maps \(MAPOPT and MAPDEF\)” on page 47](#), and the REFRESH ISFPARMS syntax [“Format” on page 86](#) were updated.
- A correction was made to the example generic profile for protecting JES resource groups. The topic [“Example of protecting JES resource groups” on page 299](#) was updated.

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

| Table 4. Changed non-overtypable 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. |

## Message changes

The following lists indicate the messages that are new, changed, or no longer issued in SDSF for z/OS 3.2 and its updates.

- New messages:
  - COMMAND NOT ACCEPTED
  - NOT ISSUED - NO CMDCHAR
  - HSF0068W
  - HSF0102E
  - HSF0103I
  - HSF0104W
  - HSF0105W
  - HSF0106W
  - HSF0107W
  - ISF016I

- ISF062I
- ISF114I
- ISF135E
- ISF136I
- ISF157E
- ISF158E
- ISF159E
- ISF164E
- ISF322E
- ISF375I
- ISF511E
- ISF697I
- ISF698I
- ISFH1033E
- ISF4000E
- ISF4001E
- ISF4002E
- ISF4003E
- ISF4004E
- ISF4005E
- ISF4007E
- ISF4008E
- ISF4009E
- ISF4010E
- ISF4011E
- ISF4099E
- Modified messages:
  - ISF051I
  - ISF059I
  - ISF452E
  - ISF727I
  - ISF728I
  - ISF729I
  - ISF732E
  - ISF733E
  - ISF734I
  - ISF739I
- Deleted messages:
  - ISFH1010R
  - ISFH1011R
  - ISFH1012R
  - ISFH1013R
  - ISFH1014R

- ISFH1018R
- ISFH1019R
- ISFH1020R
- ISFH1021R
- ISFH1026R
- ISFH1028R
- ISFH1029R
- ISFH1030R
- ISFH1031R
- ISFH1032E

## 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 Browse.Enhanced.DisableAttrs custom property was added to control color and highlighting on the ULOG and CK browse panels. The topic “PROPLIST syntax” on page 53 was updated and a new generic tracker was added to the topic “SDSF generic trackers” on page 454.

The Panel.Confirm.DisableRetain custom property was added to control the default action on the Confirm Action pop-up. The topic “PROPLIST syntax” on page 53 was updated.

Additional controls are available when activating SDSF client trace. The topic “Server tracing” on page 75 was added and topic “Protecting SDSF authorized functions” on page 265 was updated.

The new overtypable column PROCNAME on the Job Class panel was added to the topics “Tables of overtypable fields” on page 387 and Appendix B, “SDSF resource names for SAF security,” on page 607.

Information about RACF documentation was added to Chapter 6, “SDSF and RACF,” on page 257.

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

| Table 5. New non-overtypable columns |             |                   |       |                               |
|--------------------------------------|-------------|-------------------|-------|-------------------------------|
| 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)      |

| <i>Table 5. New non-overtypable columns (continued)</i> |             |                   |       |  |
|---|-------------|-------------------|-------|--|
| Panel   | Column Name | Title (Displayed) | Width | Description                                  |
| 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) |

#### **October 2024**

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

| <i>Table 7. New non-overtypable columns</i> |             |                   |       |                          |
|---|-------------|-------------------|-------|--------------------------|
| Panel                                       | Column Name | Title (Displayed) | Width | Description              |
| JRJJC                                       | ACTIONVAL   | ActionVal         | 9     | Show action value        |
| JRJJC                                       | LIMITPCTVAL | LimitVal          | 8     | Show limit percent value |
| JRJJC                                       | ACTIONVAL   | ActionVal         | 9     | Show action value        |
| JRJJC                                       | LIMITPCTVAL | LimitVal          | 8     | Show limit percent value |

#### **May 2024**

##### **New custom properties**

The new custom property Panel.Main.DisableUlog controls suppression of the ULOG option on the SDSF main menu. The topic [“PROPLIST syntax” on page 53](#) was updated.

The new custom property Panel.Local.JESplexScope adds JESplex scoping support to panels that gather sysplex wide data locally. The panels that are supported are CFC, CFSA, EMCS, ENQ, SR, and XCFA. The topic [“PROPLIST syntax” on page 53](#) was updated.

**Note:** For compatibility, the existing custom property Panel.All.JESplexScope does not include the panels affected by Panel.Local.JESplexScope. Therefore, if you want all SDSF panels to be JESplex scoped, you must set both custom properties to TRUE.



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

| <i>Table 8. New non-overtypable columns</i> |              |                   |       |   |
|---|--------------|-------------------|-------|---|
| 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) |

## **September 2023**

### **New program panels**

- The [“Product Enablement panel \(PROD\)”](#) on page 201 displays information about products that have been registered and their current status.
- The [“Module Fetch Data Sets panel \(MFD\)”](#) on page 175 shows information about load module fetch activity summarized by data set name.
- The [“Module Fetch Job Names panel \(MFJ\)”](#) on page 176 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 177 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 201 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 118 provides information about the installation-defined I/O devices that are eligible for allocation.
- The [“Unit Control Blocks panel \(UCB\)”](#) on page 240 displays status and information for static and dynamic UCBs.

### **New JES panels**

- The [“JES Resource Group panel \(JRG\)”](#) on page 160 displays information for resource groups that are defined in JES.
- The [“Class Resource Limit panel \(JRJC\)”](#) on page 101 provides details of resource usage by JES class.
- The [“Job Resource Limit panel ”](#) on page 160 displays resource limits and usage for a job.

### **New and enhanced memory panels**

- The [“Memory Chain panel \(MEMC\)”](#) on page 174 displays storage for control block chains that are linked together.
- The [“MAP panel”](#) on page 171 is enhanced to show the storage content for a structure.

### **New security panels**

- The [“RACF Classes panel \(RAC\)”](#) on page 205 shows the defined RACF classes and provides the ability to list all profiles for a class.
- The [“RACF Profiles panel \(RACP\)”](#) on page 210 shows the RACF profiles for a class and provides the ability to view the access list for each profile.
- The RACF Options (RACO) panel displays current RACF options. For more information about this panel, see [z/OS SDSF User's Guide](#).

- The “[RACF Access panel](#)” on [page 205](#) panel shows the access lists entries for a specific RACF profile.
- The RACF Browse panel shows detailed information from all segments of a RACF profile. For more information about this panel, see [z/OS SDSF User's Guide](#).
- The “[RACF Connects panel](#)” on [page 206](#) lists all connected groups for a user.

### New sysplex panels

- The “[Coupling Facilities panel \(CF\)](#)” on [page 101](#) displays information about all of the coupling facilities that are defined in the sysplex.
- The “[CF Structure Activity panel \(CFSA\)](#)” on [page 105](#) displays coupling facility structure activity using RMF as the data source.
- The “[Sysplex panel \(PLEX\)](#)” on [page 234](#) shows information about the sysplex.
- The “[XCF Application Servers panel \(XCFA\)](#)” on [page 248](#) shows details about the XCF application servers in the sysplex.
- The “[XCF Signaling Paths panel \(XCFP\)](#)” on [page 251](#) displays signaling path information for XCF connections.

### New system information panels

- The “[Dashboard panel \(DASH\)](#)” on [page 111](#) displays system configuration information along with utilization and top consumers of various system resources.
- The “[Event Log panel \(ELOG\)](#)” on [page 122](#) displays important system events and, if the data is available, provides fast access to the OPERLOG around the time that the event occurred.
- The “[Logical Partitions panel \(LPAR\)](#)” on [page 169](#) shows information about system LPARs.
- The “[SMF Data Sets panel \(SMFD\)](#)” on [page 223](#) displays details for SMF data sets.
- The “[SMF Options panel \(SMFO\)](#)” on [page 224](#) panel shows SMFPRMxx parameters in the SMF parmlib member in use.
- The “[SMF Subsystems panel \(SMFS\)](#)” on [page 225](#) 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  | STDAT       | 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)          |

| <i>Table 9. New non-overtimeable columns (continued)</i> |                    |                          |              |   |
|--|--------------------|--------------------------|--------------|---|
| <b>Panel</b>   | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>  |
| 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            | Overtime authorization level  |
| DA   | ELAPSED            | ElapsedTime              | 12           | Address space elapsed time in ddd:hh:mm:ss format   |
| 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   |

| <i>Table 9. New non-overtimeable columns (continued)</i> |                    |                          |              |   |
|--|--------------------|--------------------------|--------------|---|
| <b>Panel</b>   | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>  |
| 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  |
| 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)  |

| <i>Table 9. New non-overtimeable columns (continued)</i> |                    |                          |              |   |
|--|--------------------|--------------------------|--------------|---|
| <b>Panel</b>   | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                                |
| SYS  | DMEMPCT            | DMem%                    | 5            | Percentage of dedicated memory in use             |
| SYS  | DMEMSYS            | 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> |                    |                          |              |   |
|---|--------------------|--------------------------|--------------|---|
| <b>Panel Name</b>                         | <b>Column Name</b> | <b>Title (Displayed)</b> | <b>Width</b> | <b>Description</b>                        |
| 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> |                         |                        |
|--|-------------------------|------------------------|
| <b>Panel</b>                           | <b>Action Character</b> | <b>Description</b>     |
| 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      |

| <i>Table 11. New action characters (continued)</i> |                         |  |
|--|-------------------------|--|
| <b>Panel</b>                                       | <b>Action Character</b> | <b>Description</b>                                 |
| 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                                     |
| 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, in the following view categories:**

**Jobs**

System symbols

**Sysplex**

CF connections

CF structure activity

Coupling facilities

Extended consoles

XCF application servers

XCF groups and members

XCF signaling paths

### **System**

Generic trackers

Subsystems

### **Devices**

Unit control blocks

### **JES devices**

Initiators

### **JES resources**

JES resource information

JES resource information by job

Proclib

Resource monitoring

Resource monitoring alerts

### **Memory**

Common storage remaining

Virtual storage maps

### **Workload management**

Service classes

WLM policy

WLM report classes

WLM resource groups

WLM workloads

### **Program**

Link pack directory

Module fetch data sets

Module fetch job names

Module fetch statistics

PC routines

Product enablement

Program properties

SVC routines

### **Security**

RACF classes

### **Logs**

Event log

For more information, see the topic [“z/OSMF considerations”](#) on page 455.

### **Other new information**

#### **• SDSF optional features**

SDSF provides optional features that can be enabled and customized in the active ISFPRMxx member. Optional features can collect and provide data for specific SDSF primary panels and panels that result from actions against rows on existing tabular displays. See [“Optional SDSF features \(FEATURE\)”](#) on page 38 for more information.

#### **• MAP statements for customized memory mapping**

New MAPOPT and MAPDEF statements in ISFPRMxx point to MAP and MAPENT statements that define mapping structures for any control block. To display raw content, use the SDSF MEM command. To format the memory map, use the M action character on the MEM panel. For more information, see the topic [“Memory maps \(MAPOPT and MAPDEF\)” on page 47](#).

- A new generic tracker event was added for batch and AFD usage. The topic [“SDSF generic trackers” on page 454](#) was added.

## Changed

The following content is changed.

### May 2024

- When ISFPRMxx contains MAPDEF statements that define custom memory maps, SDSF now reads the member name defined by the MAPDEF statement from the MAPPARM ddname instead of from the SDSFPARM ddname. When no MAPPARM DD statement is present, SDSF reads the member from the system logical parmlib. The topics [“ISFPARMS format” on page 7](#), [“Memory maps \(MAPOPT and MAPDEF\)” on page 47](#), and the REFRESH ISFPARMS syntax [“Format” on page 86](#) topics were updated.
- A correction was made to the example generic profile for protecting job resource groups. The topic [“Example of protecting JES resource groups” on page 299](#) was updated.

### 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.
- The REUSASID and ASCBV31 startup parameters were added to the SDSF server START command. The topic [“Format” on page 76](#) in the section [“Start the SDSF server” on page 75](#) was updated.
- Updates were made to the topic [“Address Space Diagnostics panel \(AD\)” on page 96](#).
- Because SDSFAUX is responsible for data collection, it should be placed into a higher priority WLM service class. The topic [Chapter 3, “Using the SDSF server,” on page 73](#) was updated.
- Installation exit return code descriptions were changed for SAF security. The topic [“Return codes” on page 442](#) was updated.
- The user exit field that was listed for Panel.NA.JESplexScope was corrected in [“PROPLIST syntax” on page 53](#).
- RMF Monitor III must be started for the CFSA and LPAR panels. The topic [“RMF considerations” on page 453](#) was updated.

## Deleted

The following content was deleted.

### February 2025

The ASCBV31 startup parameter was removed from the SDSF server START command. The topic [“Format” on page 76](#) in the section [“Start the SDSF server” on page 75](#) was updated.

### September 2023

- As of SDSF 3.1, ISFPARMS parameters can only be specified through the ISFPRMxx member of parmlib. The previous format of ISFPARMS using assembler macros was removed in SDSF 3.1. Information was updated in the topic [Chapter 2, “Using ISFPARMS for customization,” on page 7](#) and the following changes apply:
  - The macros that are related to assembling ISFPARMS been removed from SISFMAC. Information that describes assembler-based ISFPARMS and ISFPMAC, ISFGRP, ISFFLD, and ISFTR macros and their parameters is no longer valid.
  - The ISFACP tool (shipped in SISFEXEC) that was used to convert ISFPARMS to ISFPRMxx has been removed. You can run the conversion tool on a down-level release before starting SDSF 3.1.



- The server startup option NOPARM still applies. However, the server will fall back to all parameter defaults, instead of falling back to ISFPARMS. The ISFPARMS source and load module is no longer shipped in the product.
- Support was removed for fallback to the non-scrollable main SDSF panel and for compatibility mode using either the custom property (Panel.Main.DisableTable) or the special ddname (ISFMIGMN). You should remove the Panel.Main.DisableTable custom property from ISFPRMxx. In addition, the generic tracker event SDSF MENU TABLE DISABLED: ISFMIGMN ALLOCATED, which alerts when fallback occurs, was removed. The topics [“PROPLIST syntax” on page 53](#) and [“Initialization exit point” on page 438](#) were updated, and the topic that described the fallback process was removed.
- The ISF.SISFLINK and ISF.SISFMIG data sets are no longer used by SDSF and have been removed. Sample jobs ISF.SISFJCL(ISFISALC) and ISF.SISFJCL(ISFISDDD) have been updated to remove the allocations and associated SMP/E DDDEFs.
- Sample member ISF.SISFJCL(ISFSPROG) has been removed, because the SDSF server is required and thus this member is no longer needed.

## Message changes

The following lists indicate the messages that are new, changed, or no longer issued in SDSF for z/OS 3.1 and its updates.

### September 2023

- New messages:
  - CHAIN LIMIT REACHED
  - CIRCULAR LIST
  - MULTI-ACTION UNAVAILABLE
  - PRINT CRITERIA OBSOLETE
  - HSF0066W
  - ISF043I
  - ISF061I
  - ISF165E
  - ISF168E
  - ISF169E
  - ISF362I
  - ISF363I
  - ISF364I
  - ISF365I
  - ISF366I
  - ISF367I
  - ISF368E
  - ISF446I
  - ISF699W
  - ISF705I
  - ISF719W
  - ISF798I
  - ISF871I
  - ISF872E
  - ISF873E
  - ISF895E

- ISF897I
- ISF899E
- ISF2013E
- ISFH1028R
- ISFH1029R
- ISFH1030R
- ISFH1031R
- ISFH1032E
- Modified messages:
  - ISF051I
  - ISF059I
  - ISF727I
  - ISF728I
  - ISF729I
  - ISF732E
  - ISF733E
  - ISF734I
  - ISF739I
- Deleted messages:
  - None.

# Chapter 1. Exploiting new functions

Migration information is in [z/OS Upgrade Workflow](#). This topic contains information about exploiting new functions in this release. It describes changes to the security and customization of SDSF and is intended for system programmers. Information about using the new functions can be found in the What's New topic of SDSF's online help.

## Exploiting new functions for z/OS 3.2

Before implementing the new functions in SDSF 3.2, the SDSF server must be started. For information, see [Chapter 3, "Using the SDSF server,"](#) on page 73.

## Exploiting the WLM Class Activity panel (AW)

The WLM Class Activity (AW) panel displays address space activity summarized by WLM class name and type.

*Table 12. Exploitation tasks for the AW panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the AW command with the ISFCMD.ODSP.AW.sysname resource.</b> | <a href="#">"Protecting SDSF authorized functions" on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                         | <a href="#">"Address space by WLM class (AW panel)" on page 274</a> |

## Exploiting the Catalog Data Sets panel (CAT)

The Catalog Data Sets (CAT) panel displays the ICF catalogs that have been used since the system was IPLed.

*Table 13. Exploitation tasks for the CAT panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the CAT command with the ISFCMD.ODSP.CATALOG.sysname resource.</b> | <a href="#">"Protecting SDSF authorized functions" on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                               | <a href="#">"Catalog data sets panel (CAT panel)" on page 275</a> and <a href="#">"Action characters" on page 371</a> |

## Exploiting the Common Memory Objects panel (CMO)

The Common Memory Objects panel displays the 64-bit common storage (HVCOMM) memory objects.

*Table 14. Exploitation tasks for the CMO panel*

| Task   | Reference Information  |
|--|--|
| <b>Control use of the CMO command with the ISFCMD.ODSP.STORAGE.sysname resource.</b> | <a href="#">"Protecting SDSF authorized functions" on page 265</a> |

## Exploiting the Device Space panel (DEVS)

The Device Space (DEVS) panel displays the device space information for all or a subset of DASD volumes.

Table 15. Exploitation tasks for the DEVS panel

| Task   | Reference Information  |
|--|--|
| <b>Control use of the DEVS command with the ISFCMD.ODSP.DEVSPACE.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                                 | <a href="#">“Device space activity information (DEVS panel)” on page 286</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the Function Registry panel (FXE)

The Function Registry (FXE) panel displays the entries from the z/OS function registry.

Table 16. Exploitation tasks for the FXE panel

| Task   | Reference Information   |
|--|---|
| <b>Control use of the FXE command with the ISFCMD.ODSP.FXE.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                           | <a href="#">“Function registry (FXE panel)” on page 290</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the 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.

Table 17. Exploitation tasks for the JRU panel

| Task  | Reference Information  |
|---|--|
| <b>Control use of the JRU command with the ISFCMD.ODSP.JRU.jesx resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                        | <a href="#">“JES resource by userid (JRU panel)” on page 301</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the Module Fetch Paths panel (MFP)

The Module Fetch Paths (MFP) panel displays module fetch statistics from z/OS UNIX file system paths.

Table 18. Exploitation tasks for the MFP panel

| Task   | Reference Information  |
|--|--|
| <b>Control use of the MFP command with the ISFCMD.ODSP.MFP.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                           | <a href="#">“Module fetch paths (MFP panel)” on page 311</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the 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.

The SET MAIN GROUP command can optionally be used to set the MGRP panel as the default SDSF main menu. For syntax and other information, refer to the command reference in the [z/OS SDSF User's Guide](#).

## Exploiting the 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.

*Table 19. Exploitation tasks for the NAP panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the NAP command with the ISFCMD.ODSP.NETPORT.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                               | <a href="#">“Network port activity (NAP panel)” on page 312</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the RACF Data Sets panel (RACD)

The RACF Data Sets (RACD) panel displays RACF data sets currently defined to the system.

*Table 20. Exploitation tasks for the RACD panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the RACD command with the ISFCMD.ODSP.RACD.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                             | <a href="#">“RACF data sets (RACD panel)” on page 331</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the 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.

*Table 21. Exploitation tasks for the RACF panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the RACF command with the ISFCMD.ODSP.RACF.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                             | <a href="#">“RACF information (RACF panel)” on page 331</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the RACF RRSF Nodes panel (RACR)

The RACF RRSF Nodes (RACR) panel displays the RACF remote sharing facility (RRSF) nodes currently defined to the system.

*Table 22. Exploitation tasks for the RACR panel*

| Task   | Reference Information  |
|--|--|
| <b>Control use of the RACR command with the ISFCMD.ODSP.RACR.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                             | <a href="#">“RACF RRSF nodes (RACR panel)” on page 332</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the RACF log panel (RLOG)

The RACF Log (RLOG) panel displays logged RACF access attempts.

*Table 23. Exploitation tasks for the RLOG panel*

| Task   | Reference Information  |
|--|--|
| <b>Control use of the RLOG command with the ISFCMD.ODSP.RLOG.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a> |
| <b>Control use of the action characters using SAF.</b>                             | <a href="#">“RACF log (RLOG panel)” on page 336</a>                |

## Exploiting the SMF Log Streams panel (SMFL)

The SMF Log Streams (SMFL) panel shows information about defined log streams that are recording SMF records.

*Table 24. Exploitation tasks for the SMFL panel*

| Task  | Reference Information  |
|---|--|
| <b>Control use of the SMFL command with the ISFCMD.ODSP.SMFDATA.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                                | <a href="#">“SMF log streams (SMFL panel)” on page 340</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the 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.

*Table 25. Exploitation tasks for the SMFR panel*

| Task  | Reference Information  |
|---|--|
| <b>Control use of the SMFR command with the ISFCMD.ODSP.SMFDATA.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>   |
| <b>Control use of the action characters using SAF.</b>                                | <a href="#">“SMF real-time resources (SMFR panel)” on page 341</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the UNIX Threads panel

The UNIX Threads panel displays z/OS UNIX thread information.

*Table 26. Exploitation tasks for the UNIX Threads panel*

| Task   | Reference Information   |
|--|---|
| <b>Control use of the LT action character with the ISFCMD.ODSP.THREADS.sysname resource.</b> | <a href="#">“Protecting SDSF authorized functions” on page 265</a>  |
| <b>Control use of the action characters using SAF.</b>                                       | <a href="#">“UNIX System Services threads (Unix Threads panel)” on page 369</a> and <a href="#">“Action characters” on page 371</a> |

## Exploiting the VTOC panel

The VTOC panel displays the volume table of contents for a single DASD volume.

Table 27. Exploitation tasks for the VTOC panel

| Task  | Reference Information  |
|---|--|
| Control use of the LVT action character with the ISFCMD.ODSP.VTOC. <i>sysname</i> resource. | <a href="#">“Protecting SDSF authorized functions” on page 265</a> |





# Chapter 2. Using ISFPARMS for customization

This topic describes SDSF's configuration parameters, ISFPARMS, and explains how to use ISFPARMS to customize SDSF.



**Attention:** As of SDSF 3.1, ISFPARMS parameters can only be specified through the ISFPRMxx member of parmlib. The previous format of ISFPARMS using assembler macros was removed in SDSF 3.1. The following changes apply:

- The macros that are related to assembling ISFPARMS been removed from SISFMAC. Information that describes assembler-based ISFPARMS and ISFPMAC, ISFGRP, ISFFLD, and ISFTR macros and their parameters is no longer valid.
- The ISFACP tool (shipped in SISFEXEC) that was used to convert ISFPARMS to ISFPRMxx has been removed. You can run the conversion tool on a down-level release before starting SDSF 3.2.
- The server startup option NOPARM still applies. However, the server will fall back to all parameter defaults, instead of falling back to ISFPARMS. The ISFPARMS source and load module is no longer shipped in the product.

Throughout this documentation, the term *ISFPARMS* refers to the configuration parameters specified through ISFPRMxx.

**Important:** As of SDSF 2.5, all security decisions are made through the Security Authorization Facility (SAF) with an External Security Manager (ESM) such as RACF, ACF2, or TSS. The security-related definitions in ISFPRMxx from prior releases are no longer used and the keywords are obsolete. If those keywords are specified, SDSF ignores them. IBM recommends that you remove the obsolete keywords from ISFPRMxx. For information about migrating from using SDSF security with ISFPARMS (ISFPRMxx or ISFPARMS with assembler macros) to RACF security, refer to [z/OS SDSF Security Migration Guide](#).

## ISFPARMS overview

ISFPARMS defines global and group options and the format of the panels. The options include things like the name of the JES subsystem to process, what generic and wildcard characters to allow in SDSF commands, and whether to display the action bar on SDSF panels. The format of the panels includes the order and titles of the columns.

As of SDSF 2.5, all SDSF security decisions are provided through SAF. The ISFPARMS keywords that are related to SAF are obsolete and are ignored. For more information, see [Chapter 5, “Using SAF for security,”](#) on page 253.

## ISFPARMS format

The ISFPRMxx member of PARMLIB must be used to define ISFPARMS settings. The statements in ISFPRMxx are processed by the SDSF server, which is controlled by MVS operator commands. The server and associated commands are described in detail in [Chapter 3, “Using the SDSF server,”](#) on page 73.

To assist you in defining your ISFPARMS, SDSF provides sample ISFPRMxx members. You can modify the sample to meet the needs of your installation.

The statements that make up ISFPARMS are summarized in [Table 28 on page 7](#).

Table 28. Summary of ISFPARMS Statements

| Statement | Required | Description                                    | Refer to  |
|-----------|----------|--|---|
| GROUP     | Yes      | Defines a group of users and their attributes. | <a href="#">“Group authorization parameters (GROUP)” on page 13</a> |

Table 28. Summary of ISFPARMS Statements (continued)

| Statement                  | Required | Description   | Refer to  |
|----------------------------|----------|---|---|
| <b>OPTIONS</b>             | No       | Defines global initialization parameters for SDSF.  | <a href="#">“Global initialization parameters (OPTIONS)” on page 33</a> |
| <b>CONNECT</b>             | No       | Defines server connection properties, SDSFAUX options, and the XCF application server name.   | <a href="#">“CONNECT statement” on page 37</a>                          |
| <b>FEATURE + FEATENT</b>   | No       | Defines optional features of SDSF that can be separately enabled, disabled, and configured.   | <a href="#">“Optional SDSF features (FEATURE)” on page 38</a>           |
| <b>FLD + FLIDENT</b>       | No       | Customizes the fields shown on an SDSF primary or alternate panel for members of a group. Associated with an ISFGRP macro or GROUP statement.   | <a href="#">“Variable field lists (FLD)” on page 41</a>                 |
| <b>MAPOPT + MAPDEF</b>     | No       | Define mapping structures for control blocks to display raw content using MEM command, and to format the memory map to your specifications when you use the M action character from MEM.<br><br>The statements that define the mapping structure are read from the MAPDEF member name defined in the MAPPARM DD statement in the SDSF server JCL. When no MAPPARM DD statement is present, SDSF reads the member from the system logical parmlib. | <a href="#">“Memory maps (MAPOPT and MAPDEF)” on page 47</a>            |
| <b>NTBL + NTBLENT</b>      | No       | Defines include/exclude lists of jobs associated with a group. Associated with an ISFGRP macro or GROUP statement.  | <a href="#">“Name tables (NTBL)” on page 52</a>                         |
| <b>PROPLIST + PROPERTY</b> | No       | Specifies a property to customize. Provides an alternative to a user exit routine. Associated with a GROUP statement.   | <a href="#">“Customized properties (PROPLIST)” on page 53</a>           |
| <b>WHEN</b>                | No       | Provides conditional processing of statements   | <a href="#">“Conditional processing” on page 11</a>                     |

## NOPARM fallback

NOPARM fallback occurs when the SDSF server has been started in NOPARM mode. Fallback occurs to a default ISFPARMS that is equivalent to sample member ISFPRM00 in ISF.SISFJCL.

A generic tracker event is created for this condition to alert you that fallback is occurring. See [“SDSF generic trackers” on page 454](#) for details about the generic tracker. You can use the [“Generic Tracker panel \(GT\)” on page 126](#) to view the generic tracker event.

See [z/OS MVS Diagnosis: Tools and Service Aids](#) for information on generic tracker events.

## Samples

SDSF supplies the following samples in the ISF.SISFJCL data set:

- ISFPRM00, which contains a minimal set of configuration parameters using SDSF defaults. ISFPRM00 might be appropriate for most installations.

- ISFPRM01, which is the same as ISFPRM00 with the addition of field lists for the tabular displays and optional feature statements.

## Auditing ISFPARMS

When your ISFPRMxx is processed, SDSF provides an audit trail of all statements that have been processed. The statements and any associated error messages are written to the SDSFLOG ddname allocated in the SDSF address space.

## Diagnosing security

SDSF's security trace function helps you understand and diagnose SDSF security using SAF. In response to the actions that you take, such as issuing commands or overtyping columns, it issues messages that describe the associated SAF resources. You control security trace with commands, REXX variable or Java methods.

- With the **SET SECTRACE** command, you turn security tracing on and specify how the associated messages are handled.
  - **SET SECTRACE ON** causes the trace messages to be sent to the ULOG.
  - **SET SECTRACE WTP** causes the messages to be issued as write-to-programmer messages. Use this if security prevents you from accessing SDSF or the user log.
- With the **SECTRACE** option on the **SDSF** command, you can turn security tracing on as soon as you access SDSF.
- When SDSF SECTRACE is active, SDSFAUX SECTRACE is also activated. SDSFAUX uses SECTRACE to record the results of security calls for diagnosis.
- With the ISFSECTRACE REXX special variable, you can control security tracing from a REXX exec.
- With ISFRequestSettings methods addISFSecTrace and removeISFSecTrace, you can control security tracing from a Java program.

### Using the SECTRACE special ddnames

SDSF checks for the presence of the special ddnames shown in [Table 29 on page 9](#). If the ddname is allocated, SECTRACE is enabled. This simplifies getting a SECTRACE, particularly in the SDSF/REXX environment because there is no need to modify a script to set the ISFSECTRACE special variable. In the z/OSMF ISPF classic interface, SECTRACE is automatically enabled when early trace is enabled.

| Table 29. Special DDNames for SECTRACE |   |
|--|---|
| DDName                                 | Description   |
| ISFSECTR                               | Equivalent to SECTRACE(ON). SECTRACE messages are written to the ULOG or ISFMSG2 variables.   |
| ISFSECTW                               | Equivalent to SECTRACE(WTP). SECTRACE messages are written as write-to-programmer (WTP) and ULOG. WTP messages are returned to the TSO user PROFILE WTPMSG is in effect. WTP messages are also written to the job log and syslog. |

For example, the following TSO commands allocate and free the special ddname. Allocate the ddname before accessing SDSF.

```
alloc fi(isfsectw) dummy reus
free fi(isfsectw)
```

For more information about the commands, refer to the online help. You could use the SEARCH command, for example, SEARCH SET SECTRACE. For more information about the REXX special variable and Java, refer to [z/OS SDSF User's Guide](#).

## Rules for coding ISFPARMS

---

This section describes the rules for syntax and implementation of ISFPARMS.

### Statements

Enter statements as card images in a data set that you create with any editor. The data set is identified to the SDSF server through the server startup JCL.

The ISFPARMS statements use a *keyword(value)* format. For example, a GROUP statement might look like this:

```
GROUP NAME(ISFPROG),  
CONFIRM(ON)
```

The complete set of rules for specifying ISFPARMS statements follows.

### General rules for coding statements

- A statement is 80 characters long. Use columns 1 through 71 for the statement; columns 72 through 80 are ignored.
- A statement can span any number of lines. To indicate that the statement continues on the next line, use a trailing comma.
- Enclose comments in a */\*\*/* pair, for example, */\*\* comment \*/*. You can include comments anywhere in a record that a blank is valid. A comment cannot span lines; it must be closed on the line on which it begins.
- When you use a trailing comma to continue a statement, the only thing that can follow the comma on that line is a comment.
- Completely blank lines (in columns 1 through 71) are ignored; you can intersperse them freely with statements.

### Rules for statement types, keywords, and values

The exact syntax of each of the statements is defined in the remainder of this topic. However, the following general rules apply to the statements and their keywords:

- Parameters must be separated from one another by a comma or a blank. Any number of blanks may appear between keywords, values, and commas, and parentheses.
- Each statement must have at least one keyword on the same line.
- Values are translated to uppercase. If the value contains embedded blanks or is case-sensitive, enclose it in single quotes.
- Parameters can be in any order in a statement.
- Statements can appear in any order; however, FLDENT statements must appear after an FLD statement and NTBLEN statements must appear after an NTBL statement.
- To specify a value of blanks, enclose one or more blanks in single quotation marks, for example, ' '.
- Unquoted blank characters inside keyword values are implicitly treated as comma separators and could appear as commas in SDSF syntax error messages.

### Duplicate statements

In general, when SDSF encounters a duplicate statement, it uses the values from the last statement. However, duplicate FLDENT and NTBLEN statements are processed multiple times. For example, a duplicate field appears twice in the list.

## Conditional processing

To facilitate using a common ISFPARMS for multiple systems, SDSF provides support for:

- A WHEN statement that allows you to identify statements that apply to a particular system
- System symbols in the ISFPARMS statements.

Note that, even with conditional processing, if you want to use a common ISFPARMS with different levels of SDSF, you must ensure that the ISFPARMS does not include support (such as new keywords or values) that was introduced in the higher level of SDSF unless SDSF toleration APARs are applied.

### WHEN Statement

The WHEN statement can be used to conditionally process an entire ISFPARMS statement (OPTIONS, GROUP, and so on). The WHEN statement specifies one or more conditions which are compared to the current environment. All of the conditions must be true for the statements that follow to be processed.

In processing a WHEN statement, SDSF checks each of the values against the current system. If all values match the current system, the statements that follow the WHEN statement are processed until the next WHEN is encountered, or until the end of the file is reached. If any of the values do not match the current system, the statements that follow the WHEN statement are checked for syntax but not processed, until the next WHEN is encountered.

The WHEN statement cannot be used to conditionally process a single parameter within a statement. For example, use WHEN to conditionally process an entire OPTIONS statement with all of its parameters, not to conditionally process just the TIMEOUT parameter of OPTIONS. This means that if even a few parameters in a statement vary between systems, multiple versions of the statement may be required. (System symbols, described in [“System symbols” on page 13](#), can be used to replace the value for a single parameter.)

Messages logged by the server indicate which initialization statements are being processed.

WHEN and all of its parameters are optional. WHEN with no parameters causes the statements that follow (until the next WHEN) to be selected; this can be used to end a preceding WHEN.

The parameters are in the format *keyword(value)*. The value for *value* can be any text string, including standard pattern matching characters:

- \*, which represents any string of characters
- %, which represents any single character.

The SYMBOL keyword lets you specify an expression for the value.

### WHEN parameters

The following parameters describe the processing conditions.

| Parameter                                 | Description                                       |
|---|---|
| <b>LPARNAME</b> ( <i>lpar-name</i> )      | Name of the LPAR                                  |
| <b>SYSNAME</b> ( <i>system-name</i> )     | Name of the system                                |
| <b>SYSPLEX</b> ( <i>sysplex-name</i> )    | Name of the sysplex                               |
| <b>HWNAME</b> ( <i>processor-name</i> )   | Name of the CPC                                   |
| <b>VMUSERID</b> ( <i>vm-userid</i> )      | User ID of a VM system under which MVS is running |
| <b>SERVER</b> ( <i>sdsf-server-name</i> ) | Name of the SDSF server                           |
| <b>SYMBOL</b> ( <i>expression</i> )       | Evaluate an expression using one or more symbols  |

These parameters are described in the text that follows.

**LPARNAME (*lpar-name*)**

Names a logical partition that is defined to a processor, which is one of the following: the partition name specified on the 'add partition' panel in HCD, or the partition name specified on the resource or chpid statement that is input to the I/O configuration program (IOCP). The maximum length is 8 characters. Specify a value of ' ' (one or more blanks enclosed by single quotation marks) to indicate a processor that is not initialized in lpar mode.

**SYSNAME (*system-name*)**

Specifies the name assigned to an MVS system. The maximum length is 8 characters.

**SYSPLEX (*sysplex-name*)**

Names the sysplex this MVS system is in. The maximum length is 8 characters.

**HWNAME (*processor-name*)**

Names the central processor complex (CPC) as defined to HCD. The maximum length is 8 characters. Specify a value of ' ' (one or more blanks enclosed by single quotation marks) to indicate a processor with no name.

**VMUSERID (*vm-userid*)**

Specifies the user ID of a VM system under which MVS is running as a guest. The maximum length is 8 characters. Specify a value of ' ' (one or more blanks enclosed by single quotation marks) to indicate a system not running as a guest under VM.

**SERVER (*sdsf-server-name*)**

Names the SDSF server processing the statements.

**SYMBOL (*expression*)**

Checks for a value for any system static symbol. These are defined in the IEASYMxx parmlib member. The maximum length is 128 characters.

The format is WHEN SYMBOL(*x* = | ^=*y*,...) where the operands *x* and *y* can be either strings or symbols. The comparison is either equal or not equal. A symbol is expressed as &*name*. The operands can be specified in either order (for example, &SYSNAME=SYS1 or SYS1=&SYSNAME). If an operand does not evaluate to a symbol, the string is checked as is.

**Note:** Pattern matching operations (using \* and % ) are not supported for the SYMBOL keyword.

For the "equal" condition, the strings must match in length and content. Strings are case sensitive. To specify a "not equal" condition, use ^=, /= or \=.

You can specify any number of conditions, separated by a comma; all must be true for the statement to be accepted.

You can combine the SYMBOL keyword with any other WHEN keyword; all keywords must evaluate to true to be accepted.

If more than one SYMBOL keyword is present, the last one replaces any prior ones regardless of the previous conditions that were processed (that is, conditions cannot be replaced individually).

**Examples of the WHEN statement****1. WHEN SYMBOL(&SYSNAME ^=SY1)**

This is accepted when the value of symbol SYSNAME is not equal to SY1. Note that this will also be accepted if SYSNAME is not a defined symbol, as the character string &SYSNAME is not equal to the string SY1.

**2. WHEN SYMBOL(&SYSNAME=SY1, &SYSPLEX=PLEX1)**

This is accepted when the value of symbol SYSNAME is equal to SY1, and the value of symbol SYSPLEX is equal to PLEX1.

**3. WHEN SYMBOL(&SYSPLEX=PLEX1) SYSNAME(SY1)**

This example shows a WHEN with two conditions, one of which uses a symbol. This WHEN is accepted when the value of the symbol SYSPLEX is PLEX1 and the sysname is SY1.

## System symbols

Statements can include system symbols for keyword values. Symbols in ISFPARMS are identified by an initial ampersand (&). They also have an ending period, though the period is required only if omitting it would cause ambiguity. It is required if the character that follows is a period.

For example, the MENUS data set name may vary by system. A system symbol can be used to substitute the data set name when ISFPARMS is processed. To define the MENUS data set, you might use:

```
MENUS(&SYSPFX . . ISF . SISFPLIB)
```

where &SYSPFX is a symbol for the system name. When ISFPARMS is processed, the system name is substituted for &SYSPFX, resulting in a MENUS data set name that is correct for the system. Note that in this example, the ending period for &SYSPFX is required, so that the period used to separate data set qualifiers is preserved. The server initialization log will show the actual value used when the statement was processed.

## Group authorization parameters (GROUP)

---

A GROUP statement defines:

- A group of users
- Customization values, such as columns on SDSF panels, and date format

## Using SAF to control group membership

You define membership in the groups in ISFPARMS with SAF.

SDSF scans ISFPARMS from the beginning and assigns users to the first group for which they are qualified. This means that the order of the group definitions is important: Arrange them from most selective to least selective.

A user must be assigned to a group in order to use SDSF. Users can display the name of the group to which they belong with the WHO command. When a user tries to access SDSF but is not assigned to any group, SDSF issues message ISF024I. For more information, see [Chapter 7, “Access to SDSF,” on page 263](#).

To define who belongs to an ISFPARMS group using SAF, you:

1. Assign a name to each group with a GROUP statement, using the NAME parameter.
2. Define SAF profiles *GROUP.group-name.server-name*, in the SDSF class, and permit users to them as appropriate. For more information, see [“Membership in groups” on page 263](#).

SDSF works through the groups in ISFPARMS, checking for READ access to the SAF resource *GROUP.group-name.server-name* in the SDSF class. If the user is authorized to the group through the SAF profile, then the user is assigned to the group, regardless of whether he may be authorized to groups that occur later in ISFPARMS. If the user is not authorized to the group through the SAF profile, SDSF goes on to the next group.

If you do not assign a name to a group, SDSF generates one: ISF plus the index value of the group, in the format *ISFnnnnn*. However, because this name will change when you add or subtract groups from ISFPARMS, it is not suitable for use with SAF. To avoid conflicts with the SDSF-generated names, you should *not* assign names in the format *ISFnnnnn*.

The ISFPARMS and statements shipped with SDSF use the following names:

- ISFSPROG for group 1
- ISFOPER for group 2
- ISFUSER for group 3

## Group function

SAF is used to map a user to a group. Once a user is mapped to a group, various default options can be associated with the group.

## Group function parameters reference

All parameters apply in the JES2 environment; those parameters that apply in the JES3 environment are indicated in the table.

**Note:** As of SDSF 3.1, all configuration options are supported only through ISFPRMxx. In addition, alternate field lists are no longer implemented; new panels support only a primary field list.

| GROUP parameter   | Description                                    |
|---|--|
| <b>ACTION (NONE)   (ALL)   (<i>routing-code-list</i>)</b> | Display of outstanding WTORs in LOG            |
| <b>ACTIONBAR (YES)   (NO)</b>                             | Display of the action bar                      |
| <b>ADFLDS(<i>FLD-name</i>)</b>                            | Primary field list for AD                      |
| <b>APFFLDS (<i>FLD-name</i>)</b>                          | Primary field list for APF                     |
| <b>APFFLD2 (<i>FLD-name</i>)</b>                          | Alternate field list for APF                   |
| <b>APPC (ON)   (OFF)</b>                                  | Display of APPC transaction SYSOUT (JES2 only) |
| <b>ASFLDS (<i>FLD-name</i>)</b>                           | Primary field list for AS                      |
| <b>ASFLD2 (<i>FLD-name</i>)</b>                           | Alternate field list for AS                    |
| <b>AUPDT (2)   (<i>interval</i>)</b>                      | Minimum auto update interval                   |
| <b>BROWSE (S   SB   SE   NONE)</b>                        | Default browse action character                |
| <b>CDEFLDS (<i>FLD-name</i>)</b>                          | Primary field list for job modules panel       |
| <b>CFCFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CFC                     |
| <b>CFDFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CFD                     |
| <b>CFSFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CFS                     |
| <b>CKFLDS (<i>FLD-name</i>)</b>                           | Primary field list for CK                      |
| <b>CKFLD2 (<i>FLD-name</i>)</b>                           | Alternate field list for CK                    |
| <b>CKHFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CKH                     |
| <b>CKHFLD2 (<i>FLD-name</i>)</b>                          | Alternate field list for CKH                   |
| <b>CKPTFLDS (<i>FLD-name</i>)</b>                         | Primary field list for CKPT                    |
| <b>CMDAUTH (<i>auth-list</i>)</b>                         | Action characters, overtypes, / commands       |
| <b>CMDLEV (0)   (<i>level</i>)</b>                        | Command authorization level (JES2 only)        |
| <b>CONFIRM (ON)   (OFF)   (ALWAYS)</b>                    | Confirmation of action characters              |
| <b>CPUFMT(LONG)   (SHORT)</b>                             | Format of CPU on DA title line                 |
| <b>CSIFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CS                      |
| <b>CSRFLDS (<i>FLD-name</i>)</b>                          | Primary field list for CSR                     |
| <b>CTITLE (ASIS)   (UPPER)</b>                            | Case of text, such as column titles            |
| <b>CURSOR (ON)   (OFF)   TOP</b>                          | Cursor placement                               |
| <b>CUSTOM(<i>proplist-name</i>)</b>                       | Customization of properties                    |



| GROUP parameter                                  | Description                                       |
|--|---|
| <b>DADFLT</b> ( <i>types-and-pos</i> )           | Types of jobs on DA                               |
| <b>DATE</b> (MMDDYYYY)   (DDMMYYYY)   (YYYYMMDD) | Date format                                       |
| <b>DATESEP</b> (/)   (-)   (.)                   | Date separator                                    |
| <b>DEST</b> (NTBL-name)                          | Destinations                                      |
| <b>DEVFLDS</b> (FLD-name)                        | Primary field list for DEV                        |
| <b>DFIELDS</b> (FLD-name)                        | Primary field list for DA                         |
| <b>DFIELD2</b> (FLD-name)                        | Alternate field list for DA                       |
| <b>DISPLAY</b> (OFF)   (ON)                      | Display of current values                         |
| <b>DSPAUTH</b> (auth-list)                       | Types of jobs the group can browse                |
| <b>DYNXFLDS</b> (FLD-name)                       | Primary field list for DYNX                       |
| <b>DYNXFLD2</b> (FLD-name)                       | Alternate field list for DYNX                     |
| <b>EMCSFLDS</b> (FLD-name)                       | Primary field list for EMCS                       |
| <b>EMCSAUTH</b> (MASTER   ALL)                   | Authority used with the EMCS console              |
| <b>EMCSREQ</b> (YES   NO)                        | EMCS required for system commands                 |
| <b>ENCFLDS</b> (FLD-name)                        | Primary field list for ENC                        |
| <b>ENCFLD2</b> (FLD-name)                        | Alternate field list for ENC                      |
| <b>ENQFLDS</b> (FLD-name)                        | Primary field list for ENQ                        |
| <b>ENQFLD2</b> (FLD-name)                        | Alternate field list for ENQ                      |
| <b>FSFLDS</b> (FLD-name)                         | Primary field list for FS                         |
| <b>GPLEN</b> (prefix-length)                     | Length of the group prefix                        |
| <b>GPREF</b> (group-prefix)                      | Group prefix string                               |
| <b>GQEFLDS</b> (group-prefix)                    | Primary field list for GQE (action character JCS) |
| <b>GTFLDS</b> (FLD-name)                         | Primary field list for GT                         |
| <b>HFIELDS</b> (FLD-name)                        | Primary field list for H                          |
| <b>HFIELD2</b> (FLD-name)                        | Alternate field list for H                        |
| <b>ICMD</b> (NTBL-name)                          | Jobs to be included with CMDAUTH                  |
| <b>IDEST</b> (NTBL-name)                         | Initial list of destinations                      |
| <b>IDSP</b> (NTBL-name)                          | Jobs to be included with DSPAUTH                  |
| <b>IDSPD</b> (NTBL-name)                         | Jobs for which messages can be displayed          |
| <b>IFIELDS</b> (FLD-name)                        | Primary field list for I                          |
| <b>IFIELD2</b> (FLD-name)                        | Alternate field list for I                        |
| <b>ILOGCOL</b> (1)   (position)                  | Starting column for LOG                           |
| <b>INPUT</b> (OFF)   (ON)                        | SYSIN data sets shown with browse                 |
| <b>INTFLDS</b> (FLD-name)                        | Primary field list for INIT                       |
| <b>INTFLD2</b> (FLD-name)                        | Alternate field list for INIT                     |

| <b>GROUP parameter</b>                      | <b>Description</b>                      |
|---|---|
| <b>ISTATUS (NTBL-name)</b>                  | Jobs included on DA, H, I, O, PS and ST |
| <b>ISYS (LOCAL)   (NONE)</b>                | Systems shown on sysplex panels         |
| <b>JCFLDS (FLD-name)</b>                    | Primary field list for JC               |
| <b>JCFLD2 (FLD-name)</b>                    | Alternate field list for JC             |
| <b>JDDFLDS (FLD-name)</b>                   | Primary field list for JD               |
| <b>JDDFLD2 (FLD-name)</b>                   | Alternate field list for JD             |
| <b>JDDNFLDS (FLD-name)</b>                  | Primary field list for JDDN             |
| <b>JDMFLDS (FLD-name)</b>                   | Primary field list for JM               |
| <b>JDMFLD2 (FLD-name)</b>                   | Alternate field list for JM             |
| <b>JDPFLDS (FLD-name)</b>                   | Primary field list for Job Dependency   |
| <b>JDPFLD2 (FLD-name)</b>                   | Alternate field list for Job Dependency |
| <b>JDSFLDS (FLD-name)</b>                   | Primary field list for JDS              |
| <b>JDSFLD2 (FLD-name)</b>                   | Alternate field list for JDS            |
| <b>JDYFLDS (FLD-name)</b>                   | Primary field list for JY               |
| <b>JDYFLD2 (FLD-name)</b>                   | Alternate field list for JY             |
| <b>JESFLDS (FLD-name)</b>                   | Primary field list for JES              |
| <b>JGFLDS (FLD-name)</b>                    | Primary field list for JG               |
| <b>JGFLD2 (FLD-name)</b>                    | Alternate field list for JG             |
| <b>JMOFLDS (FLD-name)</b>                   | Primary field list for JMO              |
| <b>JRIFLDS (FLD-name)</b>                   | Primary field list for JRI              |
| <b>JRJFLDS (FLD-name)</b>                   | Primary field list for JRJ              |
| <b>JSFLDS (FLD-name)</b>                    | Primary field list for JS               |
| <b>JSFLD2 (FLD-name)</b>                    | Alternate field list for JS             |
| <b>JOFLDS (FLD-name)</b>                    | Primary field list for JO (JES3 only)   |
| <b>JOFLD2 (FLD-name)</b>                    | Alternate field list for JO (JES3 only) |
| <b>LINEFLDS (FLD-name)</b>                  | Primary field list for LI               |
| <b>LINEFLD2 (FLD-name)</b>                  | Alternate field list for LI             |
| <b>LNKFLDS (FLD-name)</b>                   | Primary field list for LNK              |
| <b>LNKFLD2 (FLD-name)</b>                   | Alternate field list for LNK            |
| <b>LOG (OPERACT)   (OPERLOG)   (SYSLOG)</b> | Default Log panel                       |
| <b>LPAFLDS (FLD-name)</b>                   | Primary field list for LPA              |
| <b>LPAFLD2 (FLD-name)</b>                   | Alternate field list for LPA            |
| <b>LPDFLDS (FLD-name)</b>                   | Primary field list for LPD              |
| <b>MASFLDS (FLD-name)</b>                   | Primary field list for MAS and JP       |
| <b>MASFLD2 (FLD-name)</b>                   | Alternate field list for MAS and JP     |

| GROUP parameter  | Description                           |
|--|---------------------------------------|
| <b>MEMFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for MEM            |
| <b>NAFLDS</b> ( <i>FLD-name</i> )                                    | Primary field list for NA             |
| <b>NCFLDS</b> ( <i>FLD-name</i> )                                    | Primary field list for NC             |
| <b>NCFLD2</b> ( <i>FLD-name</i> )                                    | Alternate field list for NC           |
| <b>NODEFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for NO             |
| <b>NSFLDS</b> ( <i>FLD-name</i> )                                    | Primary field list for NS             |
| <b>NSFLD2</b> ( <i>FLD-name</i> )                                    | Alternate field list for NS           |
| <b>NODEFLD2</b> ( <i>FLD-name</i> )                                  | Alternate field list for NO           |
| <b>OFIELDS</b> ( <i>FLD-name</i> )                                   | Primary field list for O              |
| <b>OFIELD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for O            |
| <b>OMVSFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for OMVS           |
| <b>OWNER</b> ( <b>NONE</b> )   ( <b>USERID</b> )                     | Default for OWNER                     |
| <b>PAGFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for PAG            |
| <b>PAGFLD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for PAG          |
| <b>PARMFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for PARM           |
| <b>PARMFLD2</b> ( <i>FLD-name</i> )                                  | Alternate field list for PARM         |
| <b>PCFLDS</b> ( <i>FLD-name</i> )                                    | Primary field list for PC             |
| <b>PREFIX</b> ( <b>NONE</b> )   ( <b>USERID</b> )   ( <b>GROUP</b> ) | Default for PREFIX                    |
| <b>PROCFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for PROC           |
| <b>PROCFLD2</b> ( <i>FLD-name</i> )                                  | Alternate field list for PROC         |
| <b>PROFILE</b> ( <b>ISPF</b>   <b>ISPFONLY</b>   <b>FILESYS</b> )    | Default session settings profile type |
| <b>PROFPATH</b> (' <i>profp</i> ath')                                | Optional profile path qualifier       |
| <b>PRTFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for PR             |
| <b>PRTFLD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for PR           |
| <b>PSFLDS</b> ( <i>FLD-name</i> )                                    | Primary field list for PS             |
| <b>PSFLD2</b> ( <i>FLD-name</i> )                                    | Alternate field list for PS           |
| <b>PUNFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for PUN            |
| <b>PUNFLD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for PUN          |
| <b>RDRFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for RDR            |
| <b>RDRFLD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for RDR          |
| <b>REPCFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for REPC           |
| <b>RGRPFLDS</b> ( <i>FLD-name</i> )                                  | Primary field list for RGRP           |
| <b>RESFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for RES            |
| <b>RESFLD2</b> ( <i>FLD-name</i> )                                   | Alternate field list for RES          |
| <b>RMAFLDS</b> ( <i>FLD-name</i> )                                   | Primary field list for RMA            |

| <b>GROUP parameter</b>                | <b>Description</b>                                  |
|---------------------------------------|---|
| <b>RMFLDS (FLD-name)</b>              | Primary field list for RM (JES2 only)               |
| <b>RMFLD2 (FLD-name)</b>              | Alternate field list for RM (JES2 only)             |
| <b>RSYS (LOCAL   NONE )</b>           | WTORs shown on Log                                  |
| <b>SEFLDS (FLD-name)</b>              | Primary field list for SE                           |
| <b>SEFLD2 (FLD-name)</b>              | Alternate field list for SE                         |
| <b>SMSGFLDS (FLD-name)</b>            | Primary field list for SMSG                         |
| <b>SMSVFLDS (FLD-name)</b>            | Primary field list for SMSV                         |
| <b>SOFLDS (FLD-name)</b>              | Primary field list for SO (JES2 only)               |
| <b>SOFLD2 (FLD-name)</b>              | Alternate field list for SO (JES2 only)             |
| <b>SPFLDS (FLD-name)</b>              | Primary field list for SP                           |
| <b>SPFLD2 (FLD-name)</b>              | Alternate field list for SP                         |
| <b>SRCHFLDS (FLD-name)</b>            | Primary field list for SRCH                         |
| <b>SRCHFLD2 (FLD-name)</b>            | Alternate field list for SRCH                       |
| <b>SRFLDS (FLD-name)</b>              | Primary field list for SR                           |
| <b>SRFLD2 (FLD-name)</b>              | Alternate field list for SR                         |
| <b>SRVFLDS (FLD-name)</b>             | Primary field list for SRVC                         |
| <b>SSIFLDS (FLD-name)</b>             | Primary field list for SSI                          |
| <b>STFLDS (FLD-name)</b>              | Primary field list for ST                           |
| <b>STFLD2 (FLD-name)</b>              | Alternate field list for ST                         |
| <b>SVCFLDS (FLD-name)</b>             | Primary field list for SVC                          |
| <b>SYMFLDS (FLD-name)</b>             | Primary field list for SYM                          |
| <b>SYMFLD2 (FLD-name)</b>             | Alternate field list for SYM                        |
| <b>SYSFLDS (FLD-name)</b>             | Primary field list for SYS                          |
| <b>SYSFLD2 (FLD-name)</b>             | Alternate field list for SYS                        |
| <b>SYSID (system-id)</b>              | System ID for LOG in a JES2 environment (JES2 only) |
| <b>SYSID3 (system-id)</b>             | System ID for LOG in a JES3 environment             |
| <b>SYSPFLDS (FLD-name)</b>            | Primary field list for SYSP                         |
| <b>TCBFLDS (FLD-name)</b>             | Primary field list for job tasks panel              |
| <b>UPCTAB (TRTAB2)   (TRTAB-name)</b> | Upper case translation table                        |
| <b>USIFLDS(FLD-name)</b>              | Primary field list for USI                          |
| <b>VALTAB (TRTAB)   (TRTAB-name)</b>  | Valid character translation table                   |
| <b>VIO (SYSALLDA)   (unit-name)</b>   | VIO unit name for viewing page-mode output          |
| <b>VMAPFLDS (FLD-name)</b>            | Primary field list for VMAP                         |
| <b>WKLDFLDS (FLD-name)</b>            | Primary field list for WKLD                         |
| <b>WLMFLDS(FLD-name)</b>              | Primary field list for WLM                          |

| GROUP parameter            | Description   |
|----------------------------|---|
| <b>XCFMFLDS (FLD-name)</b> | Primary field list for XCFM                             |
| <b>XCMD (NTBL-name)</b>    | Jobs to be excluded when processing CMDAUTH             |
| <b>XDSP (NTBL-name)</b>    | Jobs to be excluded when processing DSPAUTH             |
| <b>XDSPD (NTBL-name)</b>   | Jobs to be excluded for which messages can be displayed |
| <b>XSTATUS (NTBL-name)</b> | Jobs excluded from DA, H, I, O, PS and ST               |

The parameters are described in detail in the text that follows.

#### **ACTION (NONE) | (ALL) | (routing-code-list)**

Specifies routing codes that determine which write-to-operator-with-reply (WTOR) messages should be displayed at the bottom of the SYSLOG panel for members of this group.

##### **ALL**

Specifies that WTOR messages for MCS routing codes 1 through 28 are to be displayed.

##### **NONE**

Specifies that no WTOR messages are to be displayed. This is the default.

##### **(routing-code-list)**

Specifies that WTOR messages for specific routing codes are to be displayed. If you specify more than one option in your routing code list, enclose the list in parentheses and separate each option with a comma. The list can be made up of one or more of the following options:

- One or more decimal routing codes. The possible routing codes are 1 through 28.
- MVS, which enables the 12 routing codes used by MVS-JES. The routing codes used by MVS-JES are 1 through 12.
- USER, which enables the routing codes reserved for customer use. The routing codes reserved for customer use are 13 through 28.
- ALL or NONE. ALL and NONE are described above. If included in the list, they are added to other items in the list.

The setting of the ACTION parameter can be changed by an authorized user through the use of the ACTION command.

#### **ACTIONBAR (YES) | (NO)**

Sets an initial value for the display of the action bar.

##### **YES**

Indicates that the action bar is displayed.

##### **NO**

Indicates that the action bar is not displayed.

If the ACTIONBAR parameter is omitted, the initial setting is to display the action bar.

Users can override the ACTIONBAR setting with the Set Screen Characteristics pop-up.

#### **ADFLDS (FLD-statement-name)**

Names an FLD statement that defines the primary field list for the AD panel. If this parameter is omitted, the default primary field list is used.

#### **APFFLDs (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the APF panel. If this parameter is omitted, the default primary variable field list is used.

#### **APFFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the APF panel. If this parameter is omitted, the default alternate variable field list is used.

**APPC (ON) | (OFF)**

Controls whether a group member will see APPC transactions on the H and O panels. (Applies to JES2 only.)

**ON**

Indicates that APPC transactions are displayed.

**OFF**

Indicates that APPC transactions are not displayed.

If the APPC parameter is omitted, APPC transactions are displayed. Users can override the APPC setting with the APPC command or pull-down choice.

**ASFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the AS panel. If this parameter is omitted, the default primary variable field list is used.

**ASFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the AS panel. If this parameter is omitted, the default alternate variable field list is used.

**AUPDT (2) | (interval)**

Specifies the minimum automatic update interval, in seconds, that can be specified by members of this group. *interval* is a number from 0 to 255. The default is 2. A value of 0 indicates that the members of this group are not allowed to use the automatic update facility.

**BROWSE (S | SB | SE | NONE)**

Specifies the default browse action character, which is invoked when a user selects a row on a panel by placing the cursor in the NP column and pressing Enter. This applies to all panels that support browse.

**S**

SDSF browse

**SB**

ISPF browse

**SE**

ISPF edit

**NONE**

Specifies that there should be no default browse action character. This is also the case if this parameter is omitted.

**CDEFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Modules panel. If this parameter is omitted, the default primary variable field list is used.

**CFCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CFC panel. If this parameter is omitted, the default primary variable field list is used.

**CFDFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CFD panel. If this parameter is omitted, the default primary variable field list is used.

**CFSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CFS panel. If this parameter is omitted, the default primary variable field list is used.

**CKFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CK panel. If this parameter is omitted, the default primary variable field list is used.

**CKFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the CK panel. If this parameter is omitted, the default alternate variable field list is used.

**CKHFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CKH panel. If this parameter is omitted, the default primary variable field list is used.

**CKHFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the CKH panel. If this parameter is omitted, the default alternate variable field list is used.

**CKPTFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JES checkpoint panel. If this parameter is omitted, the default primary variable field list is used.

**CMDAUTH (authorization-list)**

As of SDSF 2.5, all authorization is performed using SAF. CMDAUTH can be used with the MSG option only. For compatibility, other options in the *authorization-list* are accepted, but ignored. (

*authorization-list*) specifies CMDAUTH values. If the list contains more than one value, the values must be separated by a comma.

**CMDLEV (0) | (level)**

As of SDSF 2.5, all authorization is performed using SAF. CMDLEV is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

**CONFIRM (ON) | (OFF) | (ALWAYS)**

Specifies whether SDSF requests confirmation of destructive action characters (such as cancel or purge).

**ON**

Indicates that the action characters will require confirmation.

If CONFIRM is omitted, the value is ON.

**OFF**

Indicates that the action characters will not require confirmation.

**ALWAYS**

Indicates that the action characters will require confirmation, and that users cannot turn off confirmation with the SET CONFIRM OFF command.

**CPUFMT (LONG) | (SHORT)**

Specifies whether SDSF displays the MVS, LPAR and IBM zEnterprise Application Assist Processor (zAAP) views of CPU busy on the title line of the DA panel, or only the MVS view. The LPAR and zAAP views require RMF.

**LONG**

Indicates that all values are displayed. The LPAR view is shown only when in LPAR mode. The zAAP view is shown only when a zAAP is defined and the system is in LPAR-mode.

**SHORT**

Indicates that only the MVS view is shown.

The MVS view (the first value on the title line) is a better indicator of a CPU bottleneck. The LPAR view (the second value, if present) takes into account several states related to PR/SM. The zAAP view (the third value, if present) shows usage of the IBM zEnterprise Application Assist Processor.

**CSRFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the CSR panel. If this parameter is omitted, the default primary variable field list is used.

**CTITLE (ASIS) | (UPPER)**

Specifies how the case of text is displayed, specifically:

- Column titles on SDSF panels
- Text on the primary option menu
- Text on the print pop-ups
- Column titles on pop-ups

- Text displayed by SET ACTION
- Column titles displayed by SET DISPLAY
- Pop-ups when SDSF is running under TSO

Note that the case of column titles has no effect on commands that accept column titles as parameters, such as LOCATE or SORT.

#### **ASIS**

Preserves the case. It is the default.

#### **UPPER**

Folds text to uppercase. Column titles are folded to uppercase regardless of how they are defined in field lists in ISFPARMS.

#### **CURSOR (ON) | (OFF) | (TOP)**

Specifies how SDSF should control placement of the cursor on tabular panels.

##### **ON**

Causes the cursor to return to the NP column for the last row you worked with. If the row is not on the screen, because it would require a scroll or because system or user activity caused it to be removed from the display, the cursor is returned to the command line.

If CURSOR is omitted, the value is ON.

##### **OFF**

Causes the cursor to return to the command line.

##### **TOP**

Causes the last row you worked with to be scrolled to the top of the screen. The cursor returns to the command line.

#### **CUSTOM (*proplist-name*)**

Names a PROPLIST statement that customizes certain SDSF properties. For information about the PROPLIST statement, see [“Customized properties \(PROPLIST\)”](#) on page 53.

#### **DADFLT (*types-and-positions*)**

Indicates the default address space types and positions to be shown on the DA panel when members of this group enter a DA command without any parameters. If the list contains more than one item, separate the items with a comma.

If this parameter is not coded with at least one value for address space position (IN, OUT, TRANS, READY) and at least one value for address space type (STC, INIT, TSU, JOB), then no address spaces are displayed when the DA command is entered with no parameters.

The possible values for the parameter follow. When RMF is installed, SDSF uses RMF as the source of data for the panel.

##### **IN**

Displays swapped-in address spaces

##### **OUT**

Displays swapped-out address spaces

##### **TRANS**

Displays address spaces that are in transition

##### **READY**

Displays address spaces that are ready for execution

##### **STC**

Displays started tasks

##### **INIT**

Displays initiators

##### **TSU**

Displays TSO users



## **JOB**

Displays batch jobs

### **DATE (MMDDYYYY) | (DDMMYYYY) | (YYYYMMDD)**

Sets a date format for this group: *month day year*, *day month year*, or *year month day*. SDSF uses this format when displaying dates on tabular panels and on the title line of the log panels. Commands that accept dates (LOCATE, PRINT, and FILTER) use this format.

If DATE is omitted, SDSF uses MMDDYYYY.

Users can override the date format with the SET DATE command or pop-up.

Specify the separator to be used between month, day, and year with the DATESEP parameter.

### **DATESEP (/) | (-) | (.)**

Sets a date separator for this group: slash (/), dash (-), or period (.). SDSF uses this separator between the month, day, and year when displaying dates on tabular panels and on the title line of the log panels. Commands with dates as parameters (LOCATE, PRINT, and FILTER) accept this separator.

If DATESEP is omitted, SDSF uses the slash (/).

Users can override the date separator with the SET DATE command or pop-up.

### **DEST (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. DEST is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

### **DEVFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the DEV panel. If this parameter is omitted, the default primary variable field list is used.

### **DFIELDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the DA panel. If this parameter is omitted, the default primary variable field list is used.

### **DFIELD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the DA panel. If this parameter is omitted, the default alternate variable field list is used.

### **DISPLAY (OFF) | (ON)**

Specifies whether SDSF is to display the current values for DEST, OWNER, PREFIX, SORT, and FILTER on the SDSF tabular panels. The default is OFF.

Users can query and override the setting with the SET DISPLAY command or pull-down choice.

### **DSPAUTH (authorization-list)**

As of SDSF 2.5, all authorization is performed using SAF. DSPAUTH is obsolete. For compatibility, the parameter and its options in the *authorization-list* are accepted, but ignored.

### **DYNXFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the DYNX panel. If this parameter is omitted, the default primary variable field list is used.

### **DYNXFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the DYNX panel. If this parameter is omitted, the default alternate variable field list is used.

### **EMCS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the EMCS panel. If this parameter is omitted, the default primary variable field list is used.

### **EMCSAUTH (MASTER | ALL)**

Indicates the authority that will be used when activating the EMCS console. For a description of SDSF's use of the console, see [“Issuing MVS and JES commands” on page 452](#).

#### **MASTER**

Specifies MASTER authority. This is the default.

**ALL**

Specifies SYS,IO,CONS authority. Note that profiles in the OPERCMDS class can be used to permit SDSF users to commands that require MASTER authority when EMCSAUTH=ALL is specified in ISFPARMS.

**EMCSREQ (YES | NO)**

Controls whether SDSF must use the EMCS console for system commands. For a description of SDSF's use of the console, see [“Issuing MVS and JES commands”](#) on page 452.

**YES**

Specifies that SDSF must use the EMCS console.

**NO**

Specifies that the EMCS console is not required. SDSF will use console ID 0 (INTERNAL) to issue commands when an EMCS console is not active. This is the default.

**ENCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the ENC panel. If this parameter is omitted, the default primary variable field list is used.

**ENCFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the ENC panel. If this parameter is omitted, the default alternate variable field list is used.

**ENQFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the ENQ panel. If this parameter is omitted, the default primary variable field list is used.

**ENQFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the ENQ panel. If this parameter is omitted, the default alternate variable field list is used.

**GPLEN (prefix-length)**

Defines a prefix for a group.

To create the prefix, SDSF takes as many characters as are specified by *group-prefix-length* from the members' TSO user IDs. *Group-prefix-length* can be 1 to 8.

For example, if you have operator IDs defined as OPER1, OPER2, and OPER3, you might put the operators in a group with a group membership parameter and set GPLEN to 4 to define a group prefix of OPER for that group.

You can code either GPLEN or GPREF, but not both. GPREF is described later in this topic. GPLEN works in conjunction with a value of GROUP for the PREFIX parameter.

**GPREF (group-prefix)**

Specifies a prefix for an authorization group. The group prefix can be 1 to 8 characters and can include the generic and placeholder characters (\* and % by default).

**Note:** The generic search character must be appended to the group prefix in order for it to be treated like a prefix.

You can code either GPLEN or GPREF, but not both. GPREF works in conjunction with GROUP for the PREFIX parameter.

**GTFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the GT panel. If this parameter is omitted, the default primary variable field list is used.

**HFIELDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the H panel. If this parameter is omitted, the default primary variable field list is used. (Applies to JES2 only.)

**HFIELD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the H panel. If this parameter is omitted, the default alternate variable field list is used. (Applies to JES2 only.)

**ICMD (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. ICMD is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

**IDEST (NTBL-statement-name)**

Names an NTBL statement that determines which jobs SDSF displays at session initialization to members of the group. This parameter does not affect the Display Active Users panel. See also the ISTATUS and XSTATUS parameters.

If the IDEST parameter is coded for a group, the SDSF panels are initialized with only those jobs having destination names listed in the NTBL statement. The NTBL statement can contain from 1 to 4 valid destination names. Any of the names in this list that are invalid (not defined to the active JES subsystem), or to which the user is not authorized through SAF, are not used as initial destinations.

If the IDEST parameter is not coded, the SDSF panels are initialized with jobs for all destinations, unless a member is not authorized to a destination name through the SAF security scheme.

The members can use the DEST command to display jobs and outputs for *all* destinations, regardless of the user ID on the node.

**IDSP (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. IDSP is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

**IDSPD (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. IDSPD is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

**IFIELDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the I panel. If this parameter is omitted, the default primary variable field list is used.

**IFIELD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the I panel. If this parameter is omitted, the default alternate variable field list is used.

**ILOGCOL (1) | (position)**

Indicates which position (or column) of the SYSLOG or OPERLOG will be the first position displayed on the panel. *position-number* can be any number from 1 through 255.

This parameter is ignored if the screen on which the SYSLOG or OPERLOG is displayed can display the entire width of the SYSLOG/OPERLOG. Also, if the value for *position-number* is so high that less than a full screen of data is displayed on the SYSLOG or OPERLOG panel, SDSF adjusts the starting position number to display a full screen of data. For example, if the width of the screen on which the SYSLOG is displayed is 80 characters, SDSF adjusts the value of *position-number* to ensure that 80 characters of data are displayed.

**INPUT (OFF) | (ON)**

Sets an initial value to control whether SYSIN data sets are displayed when users browse a job.

**OFF**

Specifies that SYSIN data sets should not be displayed.

**ON**

Specifies that SYSIN data sets should be displayed.

If INPUT is omitted, OFF is used.

Authorized users can override the INPUT value with the INPUT command or the associated pull-down choice.

**INTFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Initiator panel. If this parameter is omitted, the default primary variable field list is used.

**INTFLD2 (FLD-statement-name)**

Names an FLD statement that defines **alternate** variable field list for the INIT panel. If this parameter is omitted, the default alternate variable field list is used.

**ISTATUS (NTBL-statement-name)**

Indicates that jobs whose job names are in the list created by the specified NTBL statement are to always be displayed on the DA, H, I, O, PS and ST panels unless specifically excluded by the XSTATUS parameter.

There is an exception for the Held Output Queue. When the user enters the H command with no parameter, jobs in the ISTATUS list always appear, except when the user has PREFIX=\*. In this case, jobs that don't match the user's user ID don't appear, even if they are on the ISTATUS list.

**ISYS (LOCAL) | (NONE)**

Sets an initial value to limit the data, based on a system, that a group member will see on the sysplex panels. (Applies to JES2 only.)

**LOCAL**

indicates that the panels will show data for the system the user is logged on to.

**NONE**

Indicates that data on the panels is not limited by system, that is, all systems in the sysplex will be shown.

If ISYS is omitted, LOCAL is used.

Authorized users can override the ISYS value with the SYSNAME command or pull-down choice.

**JCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Class panel. If this parameter is omitted, the default primary variable field list is used.

**JCFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Class panel. If this parameter is omitted, the default alternate variable field list is used.

**JDDFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Device panel. If this parameter is omitted, the default primary variable field list is used.

**JDDFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Device panel. If this parameter is omitted, the default primary variable field list is used.

**JDDNFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JDDN panel. If this parameter is omitted, the default primary variable field list is used.

**JDMFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Memory panel. If this parameter is omitted, the default primary variable field list is used.

**JDMFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Memory panel. If this parameter is omitted, the default primary variable field list is used.

**JDPFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Dependency panel. If this parameter is omitted, the default primary variable field list is used.

**JDPFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Dependency panel. If this parameter is omitted, the default primary variable field list is used.

**JDSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Data Set panel. If this parameter is omitted, the default primary variable field list is used.

**JDSFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Data Set panel. If this parameter is omitted, the default alternate variable field list is used.

**JDYFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Delay panel. If this parameter is omitted, the default primary variable field list is used.

**JDYFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Delay panel. If this parameter is omitted, the default primary variable field list is used.

**JESFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JES panel. If this parameter is omitted, the default primary variable field list is used.

**JGFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Group panel. If this parameter is omitted, the default primary variable field list is used.

**JGFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Group panel. If this parameter is omitted, the default primary variable field list is used.

**JMOFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JMO panel. If this parameter is omitted, the default primary variable field list is used.

**JRIFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JRI panel. If this parameter is omitted, the default primary variable field list is used.

**JRJFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the JRJ panel. If this parameter is omitted, the default primary variable field list is used.

**JSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job Step panel. If this parameter is omitted, the default primary variable field list is used.

**JSFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job Step panel. If this parameter is omitted, the default primary variable field list is used.

**JOFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Job 0 panel. If this parameter is omitted, the default primary variable field list is used. (JES3 only)

**JOFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Job 0 panel. If this parameter is omitted, the default alternate variable field list is used. (JES3 only)

**LINEFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the LI panel. If this parameter is omitted, the default primary variable field list is displayed. (Applies to JES2 only.)

**LINEFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the LI panel. If this parameter is omitted, the default alternate variable field list is displayed. (Applies to JES2 only.)

**LNKFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the LNK panel. If this parameter is omitted, the default primary variable field list is used.

**LNKFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the LNK panel. If this parameter is omitted, the default alternate variable field list is used.

**LOG (OPERACT) | (OPERLOG) | (SYSLOG)**

Names the default Log panel. The default Log panel is displayed when the LOG command is entered with no parameters, or the Log choice of the Display pull-down is selected.

**LPAFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the LPA panel. If this parameter is omitted, the default primary variable field list is used.

**LPAFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the LPA panel. If this parameter is omitted, the default alternate variable field list is used.

**LPDFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the LPD panel. If this parameter is omitted, the default primary variable field list is used.

**MASFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the MAS (JES2) and JP (JES3) panels. If this parameter is omitted, the default primary variable field list is displayed.

**MASFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the MAS (JES2) and JP (JES3) panels. If this parameter is omitted, the default alternate variable field list is displayed.

**MEMFLDS(FLD-name)**

Names an FLD statement that defines the **primary** variable field list for the MEM panel. If this parameter is omitted, the default alternate primary field list is displayed.

**NAFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the NA panel. If this parameter is omitted, the default primary variable field list is used.

**NCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the NC panel. If this parameter is omitted, the default primary variable field list is displayed.

**NCFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the NC panel. If this parameter is omitted, the default alternate variable field list is displayed.

**NODEFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the NODES panel. If this parameter is omitted, the default primary variable field list is displayed.

**NODEFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the NODES panel. If this parameter is omitted, the default alternate variable field list is displayed.

**NSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the NS panel. If this parameter is omitted, the default primary variable field list is displayed.

**NSFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the NS panel. If this parameter is omitted, the default alternate variable field list is displayed.

**OFIELDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Output Queue panel. If this parameter is omitted, the default primary variable field list is used. (Applies to JES2 only.)

**OFIELD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Output Queue panel. If this parameter is omitted, the default alternate variable field list is used. (Applies to JES2 only.)

**OMVSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the OMVS panel. If this parameter is omitted, the default primary variable field list is used.

**OWNER (NONE) | (USERID)**

Limits the jobs that a group member will see on the DA, H, I, O, PS and ST panels. It provides a default for the OWNER command.

**USERID**

indicates that only those jobs whose owner is the member's user ID are displayed.

**NONE**

is the default. Jobs displayed are not limited by owner.

Users who are authorized to issue the OWNER command (which can be protected only through SAF security) can override the OWNER parameter with the OWNER command or pull-down choice, or the SELECT command.

**PAGFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the PAG panel. If this parameter is omitted, the default primary variable field list is used.

**PAGFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the PAG panel. If this parameter is omitted, the default alternate variable field list is used.

**PARMFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the PARM panel. If this parameter is omitted, the default primary variable field list is used.

**PARMFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the PARM panel. If this parameter is omitted, the default alternate variable field list is used.

**PCFLDS(FLD-name)**

Names an FLD statement that defines the **primary** variable field list for the PC panel. If this parameter is omitted, the default alternate primary field list is displayed.

**PREFIX (NONE) | (USERID) | (GROUP)**

Limits the jobs that a group member will see on the DA, H, I, O, PS and ST panels. The possible values for the PREFIX parameter are:

**USERID**

indicates that only those jobs whose name begins with the member's user ID are displayed, unless this parameter is overridden by the ISTATUS parameter.

**GROUP**

Indicates that only those jobs whose name begins with the group's prefix are displayed, unless overridden by the ISTATUS parameter.

**Note:** PREFIX=GROUP works in conjunction with GPLEN and GPREF.

**NONE**

Indicates that all jobs are displayed. This is the default. Only those jobs whose names begin with the member's user ID are displayed on the Held Output panel.

On the O panel, users will see netmail when their current PREFIX matches a job's netmail ID. The netmail ID is displayed as part of the DEST field. See also the ISTATUS and XSTATUS parameters.

Users who are authorized to issue the PREFIX command can override the PREFIX parameter with the PREFIX command or pull-down choice, or the SELECT command.

**PROCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the PROC panel. If this parameter is omitted, the default primary variable field list is used.

**PROCFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the PROC panel. If this parameter is omitted, the default alternate variable field list is used.

**PROFILE (ISPF | ISPFONLY | FILESYS)**

Names the profile type to be used for settings saved across SDSF sessions.

**ISPF**

Use the ISPF profile to save session settings when SDSF is running as an ISPF dialog. This is the default.

## **ISPFONLY**

Same as ISPF, except the user cannot override the profile type using a special DD.

## **FILESYS**

Use the z/OS UNIX file system to save session settings when SDSF is running as an ISPF dialog or under TSO.

See for more information.

## **PROFPATH ('profpath')**

Names an optional path qualifier when deriving the path name to be used for saving the session settings in the z/OS UNIX file system. The path name is case sensitive and must be enclosed in quotes to preserve the case.

See for more information.

## **PRTFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Printer panel. If this parameter is omitted, the default primary variable field list is used. (Applies to JES2 only.)

## **PRTFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Printer panel. If this parameter is omitted, the default alternate variable field list is used. (Applies to JES2 only.)

## **PSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Process panel. If this parameter is omitted, the default primary variable field list is used.

## **PSFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Process panel. If this parameter is omitted, the default alternate variable field list is used.

## **PUNFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** field list for the Punch panel. If this parameter is omitted, the default primary variable field list is displayed.

## **PUNFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** field list for the Punch panel. If this parameter is omitted, the default alternate variable field list is displayed.

## **RDRFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** field list for the Reader panel. If this parameter is omitted, the default primary variable field list is displayed.

## **RDRFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** field list for the Reader panel. If this parameter is omitted, the default alternate variable field list is displayed.

## **REPCFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the REPC panel. If this parameter is omitted, the default primary variable field list is used.

## **RESFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Resource panel. If this parameter is omitted, the default primary variable field list is used.

## **RESFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Resource panel. If this parameter is omitted, the default alternate variable field list is used.

## **RGRPFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the RGRP panel. If this parameter is omitted, the default primary variable field list is used.

## **RMAFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the RMA panel. If this parameter is omitted, the default primary variable field list is used.



**RMFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the RM panel. If this parameter is omitted, the default primary variable field list is used. (Applies to JES2 only.)

**RMFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the RM panel. If this parameter is omitted, the default alternate variable field list is used. (Applies to JES2 only.)

**RSYS (LOCAL) | (NONE)**

Sets an initial value to limit WTORS, based on system, that a group member will see on the Log panels.

**LOCAL**

Indicates that only WTORS issued by the system the user is logged on to are displayed.

**NONE**

Indicates that WTORS are not limited by system, that is, all WTORS for all systems are shown.

If RSYS is omitted, NONE is used.

**SEFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Scheduling Environment panel. If this parameter is omitted, the default primary variable field list is used.

**SEFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Scheduling Environment panel. If this parameter is omitted, the default alternate variable field list is used.

**SOFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Spool Offload panel. If this parameter is omitted, the default primary variable field list is used. (Applies to JES2 only.)

**SMSGFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SMSG panel. If this parameter is omitted, the default primary variable field list is used.

**SMSVFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SMSV panel. If this parameter is omitted, the default primary variable field list is used.

**SOFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Spool Offload panel. If this parameter is omitted, the default alternate variable field list is used. (Applies to JES2 only.)

**SPFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Spool Volumes panel. If this parameter is omitted, the default primary variable field list is used.

**SPFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Spool Volumes panel. If this parameter is omitted, the default alternate variable field list is used.

**SRCHFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SRCH panel. If this parameter is omitted, the default primary variable field list is used.

**SRCHFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the SRCH panel. If this parameter is omitted, the default alternate variable field list is used.

**SRFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the System Requests panel. If this parameter is omitted, the default primary variable field list is used.

**SRFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the System Requests panel. If this parameter is omitted, the default alternate variable field list is used.

**SRVCLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SRVC panel. If this parameter is omitted, the default primary variable field list is used.

**SSIFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SSI panel. If this parameter is omitted, the default primary variable field list is used.

**STFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the Status panel. If this parameter is omitted, the default primary variable field list is used.

**STFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the Status panel. If this parameter is omitted, the default alternate variable field list is used.

**SVCFLDS(FLD-name)**

Names an FLD statement that defines the **primary** variable field list for the SVC panel. If this parameter is omitted, the default alternate primary field list is displayed.

**SYMFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SYM panel. If this parameter is omitted, the default primary variable field list is used.

**SYMFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the SYM panel. If this parameter is omitted, the default alternate variable field list is used.

**SYSFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the SYS panel. If this parameter is omitted, the default primary variable field list is used.

**SYSFLD2 (FLD-statement-name)**

Names an FLD statement that defines the **alternate** variable field list for the SYS panel. If this parameter is omitted, the default alternate variable field list is used.

**SYSID (system-id)**

Indicates the default system ID of the system log which a member of this group displays on the SYSLOG panel in a JES2 environment.. If this parameter is omitted, the default is the current system log. This parameter is useful in a JES2 multi-access spool environment. The setting of SYSID can be changed by the user through use of the SYSID command if the user is authorized to use it, through the AUTH parameter. (Applies to JES2 only.)

**SYSID3 (system-id)**

Indicates the default system ID of the system log which a member of this group displays on the SYSLOG panel in a JES3 environment. If this parameter is omitted, the default is the current system log. The setting of SYSID3 can be changed by the user through use of the SYSID command if the user is authorized to use it, through the AUTH parameter. (Applies to JES3 only.)

**SYSPFLDS(FLD-name)**

Names an FLD statement that defines the **primary** variable field list for the SYSP panel. If this parameter is omitted, the default alternate primary field list is displayed.

**TCBFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the job tasks panel. If this parameter is omitted, the default primary variable field list is used.

**UPCTAB (TRTAB2) | (TRTAB-statement-name)**

Assigns a name to the translation table that converts lowercase characters to uppercase. Use this parameter to request a code page other than the default code page for a group of users.

This parameter works with a TRTAB statement or a TRDEF statement. SDSF looks for:

- A TRTAB statement with the character string *TR-statement-name* in the UPCTAB parameter.
- A TRDEF statement with the character string *TR-statement-name* in the NAME parameter. Use TRDEF to define your own translation table.

*TR-statement-name* can be any character string that is a valid label for your assembler. The default is TRTAB2.

If you omit UPCTAB, the code page defaults to SDSF. For more information, see [“Code page \(TRTAB and TRDEF\)”](#) on page 68.

#### **VALTAB (TRTAB) | (TRTAB-statement-name)**

Assigns a name to the translation table that checks for valid characters. Use this parameter to request a code page other than the default code page for a group of users.

This parameter works with a TRTAB statement or a TRDEF statement. SDSF looks for:

- A TRTAB statement with the character string *TR-statement-name* in the VALTAB parameter.
- A TRDEF statement with the character string *TR-statement-name* in the NAME parameter. Use TRDEF to define your own translation table.

*TR-statement-name* can be any character string that is a valid label for your assembler. The default is TRTAB.

If you omit VALTAB, the code page defaults to SDSF. For more information, see [“Code page \(TRTAB and TRDEF\)”](#) on page 68.

#### **VIO (SYSALLDA) | (unit-name)**

Specifies the unit name to be used for a temporary file when viewing page-mode output. (Applies to JES2 only.) If VIO is not specified, SDSF uses the default, SYSALLDA. Specification of a unit name that refers to a VIO device is strongly recommended for performance and security reasons.

#### **VMAPFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the VMAP panel. If this parameter is omitted, the default primary variable field list is used.

#### **WKDLFLDS (FLD-statement-name)**

Names an FLD statement that defines the **primary** variable field list for the WKLD panel. If this parameter is omitted, the default primary variable field list is used.

#### **WLMFLDS (FLD-name)**

Names an FLD statement that defines the **primary** variable field list for the WLM panel. If this parameter is omitted, the default alternate primary field list is displayed.

#### **XCMD (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. XCMD is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

#### **XDSP (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. XDSP is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

#### **XDSPD (NTBL-statement-name)**

As of SDSF 2.5, all authorization is performed using SAF. XDSPD is obsolete. For compatibility, the parameter and its options are accepted, but ignored.

#### **XSTATUS (NTBL-statement-name)**

Indicates that jobs whose names are in the list created by the specified NTBL statement will be excluded from all SDSF panels for members of this group. This parameter overrides all other parameters that control which jobs are displayed, including ISTATUS.

## **Global initialization parameters (OPTIONS)**

The OPTIONS statement specifies the global initialization parameters for SDSF.

### **Example of the OPTIONS statement**

```
1  OPTIONS SYSOUT(A),  
2      LINECNT(55),  
3      FINDLIM(100000),  
4      SCHARS(' *%'), DCHAR(' ? ')
```

On line **1**, the SYSOUT parameter specifies the default SYSOUT class for the SDSF PRINT command.

On line **2**, the LINECNT parameter specifies 55 lines per page of printed output when using the PRINT command to print portions of the system log or output data sets.

On line **3**, the FINDLIM parameter specifies that the FIND command will search up to 100,000 lines on a single pass before displaying the number of lines searched.

On line **4**, the SCHARS parameter specifies the search character used for PREFIX and OWNER pattern matching. The DCHAR parameter specifies the display query character.

## OPTIONS parameters reference

The parameters that can be coded in the OPTIONS statement are show below. Defaults are underlined.

| OPTIONS parameter  | Description   |
|--|---|
| <b>ADMSYMBL</b> ( <i>symbol-sets-dsn</i> )                       | GDDM symbols  |
| <b>CSRSEARCH</b> ( <u>LOOKAT</u>   <i>ISPF-member-name</i> )     | Program to run when the cursor is placed on a word in an SDSF screen and the assigned PF key is pressed       |
| <b>DCHAR</b> ( <u>'?</u> ')   ( <i>'query-char'</i> )            | Query character   |
| <b>DSI</b> ( <u>NO</u> )   (YES)                                 | This option is obsolete.  |
| <b>DUMPHLQ</b> (USERID   PREFIX   JOBNAME   <i>hlq</i> )         | Specifies the high-level qualifier of the data set name used by SDSF when creating a transaction dump (TDUMP) |
| <b>FINDLIM</b> ( <u>5000</u> )   ( <i>lines-searched</i> )       | Lines searched by FIND  |
| <b>JESNAME</b> ( <i>user-JES2-name</i> )   ( <u>JES2-name</u> )  | Name of the JES2 subsystem that is processed  |
| <b>JES3NAME</b> ( <i>user-JES3-name</i> )   ( <u>JES3-name</u> ) | Name of the JES3 subsystem that is processed  |
| <b>LINECNT</b> ( <u>55</u> )   ( <i>lines</i> )                  | Lines per page  |
| <b>LOGLIM</b> ( <u>0</u> )   ( <i>hours-searched</i> )           | Hours of OPERLOG data filtered  |
| <b>SCHARS</b> ( <u>'*%'</u> )   ( <i>'search-characters'</i> )   | Pattern matching characters   |
| <b>SCRSIZE</b> ( <u>1920</u> )   ( <i>screen-size</i> )          | Screen size   |
| <b>SYSOUT</b> ( <u>A</u> )   ( <i>class</i> )                    | Default print class   |
| <b>TIMEOUT</b> ( <u>5</u> )   ( <i>seconds</i> )                 | Default timeout interval (JES2 only)  |
| <b>TRCLASS</b> ( <u>A</u> )   ( <i>class</i> )                   | Default trace SYSOUT class  |
| <b>UNALLOC</b> ( <u>NO</u> )   (YES)                             | Free files at termination   |

The parameters are described in detail in the text that follows.

### **ADMSYMBL** (*symbol-sets-data-set-name*)

Defines a default GDDM symbol sets data set to be used when displaying page-mode data with the V action character. *symbol-sets-data-set-name* is the name of a cataloged data set for the GDDM symbol sets. This data set will be dynamically allocated by SDSF only if the ADMSYMBL ddname is not already allocated.

There is no default for ADMSYMBL. If you do not specify this keyword, SDSF will not allocate a symbol sets data set.

### **CSRSEARCH** (LOOKAT | *ISPF-member-name*)

Specifies the name of an ISPF command to be invoked when you place the cursor on a word in an SDSF screen and press the assigned PF key. It is recommended that you redefine key PF6 for this

purpose. The specified command is invoked and is passed a runtime parameter of the word value from the screen cursor position.

With this option, you can override the SDSF default and supply your own (or an ISV) ISPF command to act on the word identified at the cursor position.

The default is LOOKAT. The value must be 1 to 8 characters and must be a valid ISPF member name.

### **DCHAR ('?') | ('*query-char*')**

Defines the query character for use with commands, to display their current values. The character you specify must be different from the SCHARS value. Also, be sure to tell your users what the new query character is.

The default is ?. When using statements, enclose the query character in quotation marks.

### **DSI (NO) | (YES)**

#### **YES**

**Note:** This option is obsolete as of z/OS V2R3.

Specifies that dynamically allocated data sets are to be enqueued upon by SDSF for the user when they are allocated.

#### **NO**

Is the default and specifies that dynamically allocated data sets are not to be enqueued upon (for data set reservation) by SDSF for the user when they are allocated.

### **DUMPHLQ(USERID | PREFIX | JOBNAME | *hlq*)**

Specifies the high-level qualifier of the data set name used by SDSF when creating a transaction dump (TDUMP).

#### **USERID**

The user ID under which SDSF is running.

#### **PREFIX**

The current TSO prefix when SDSF is running under TSO; otherwise, USERID is used.

#### **JOBNAME**

The job name under which SDSF is running.

#### ***hlq***

The string to be used as the high-level qualifier.

### **FINDLIM (5000) | (*lines-searched*)**

Specifies the maximum number of lines the FIND command will search on a single pass before displaying the number of lines searched. When running under ISPF, the FINDLIM value is saved and restored across sessions if the user is authorized to issue the command. See the online help for a description of the FIND command. Valid values are 1000 to 9999999.

### **JESNAME (*user-JES-name*) | (*JES-name*)**

Indicates the name of the JES2 subsystem. The name can be 1 to 4 characters. The default is the JES system the user is currently running under.

For information on specifying this parameter when SDSF is installed to run with a secondary JES2 subsystem, see [“SDSF with a secondary JES2 subsystem” on page 450](#). This applies to JES2 only; for JES3, use the JES3NAME parameter.

### **JES3NAME (\*) | (*JES-name*)**

Indicates the name of the JES3 subsystem. The name can be 1 to 4 characters. The default is \*, which requests the JES system the user is currently running under.

### **LINECNT (55) | (*lines*)**

Specifies the number of lines per page of printed output when using the PRINT command to print portions of the SYSLOG or OPERLOG. Valid values are 10 to 9999999.

**LOGLIM (0) | (*hours-searched*)**

Specifies the maximum amount of OPERLOG data, in hours, that SDSF will search on a single pass for OPERLOG records that meet filter criteria. If LOGLIM is omitted, the value is set to 0, which indicates no maximum. Valid values are 0-999.

SDSF searches the OPERLOG data until it finds enough records to fill the screen, or until it reaches the limit, whichever comes first.

Users can override *hours* with the LOGLIM command. Under ISPF, the LOGLIM value is saved across sessions.

**SCHARS ('\*%') | (*'search-characters'*)**

Specifies the generic and placeholder characters. These characters are used wherever pattern matching is supported.

The values for *search-characters* are of the form *ab*, where *a* is the generic character and *b* is the placeholder character. The values cannot be alphabetic, numeric, or national characters; they cannot be @, #, \$, &; the ISPF end-of-line character, the current query character, blank, or equal to each other. In addition, using :, ( or ) may interfere with using system symbols with filtering. The defaults are \* and %.

Enclose the characters in quotation marks.

**SCRSIZE (1920) | (*screen-size*)**

Specifies the maximum size, in characters, of the largest terminal screen on which SDSF will be used. Valid values are 1920 to 99999.

**SYSOUT (A) | (*class*)**

Specifies the default SYSOUT class for the SDSF PRINT command.

**TIMEOUT (5) | (*seconds*)**

Specifies the default timeout interval, in seconds, for awaiting sysplex data. A value of 0 means that SDSF should not wait, that is, sysplex data is not available on those panels. Valid values are 0 to 9999.

If this parameter is omitted, 5 seconds is used.

**TRCLASS (A) | (*class*)**

Specifies the default SYSOUT class used by SDSF when dynamically allocating a trace file.

**UNALLOC (NO) | (YES)****YES**

Indicates that when an SDSF session is terminated, all dynamically allocated data sets are to be freed.

**NO**

Is the default and indicates that SDSF will not free dynamically allocated data sets. They will be available if the user should begin another SDSF session before logging off.

## Server connection (CONNECT)

---

The CONNECT statement defines the server connection, including the XCF application server name and the action to be taken on SAF indeterminate results. It can also request that XCF not be used to provide sysplex data.

CONNECT can be placed anywhere in the ISFPARMS statements.

### Example of the CONNECT statement

```
CONNECT AUXSAF(NOFAILRC4)
```

This statement indicates that SDSF and SDSFAUX verify requests should not fail (authorized) when SAF returns an indeterminate result (return code 04).

## CONNECT statement

The following table shows the parameters that you code on a CONNECT statement.

| CONNECT Parameter   | Description   |
|---|---|
| <b>AUXPROC(<i>SDSFAUX-procedure-name</i>)</b>               | Specifies the SDSFAUX procedure name.   |
| <b>AUXNAME(<i>SDSFAUX-jobname</i>)</b>                      | Specifies the SDSFAUX job name.   |
| <b>AUXSAF(<i>FAILRC4</i>   <i>NOFAILRC4</i>)</b>            | Specifies the action to be taken by the SDSF and SDSFAUX address spaces when a SAF authentication request results in a return code 04 (indeterminate response). |
| <b>MAXSESSIONS(<i>max-concurrent-sessions</i>)</b>          | Specifies the maximum number of concurrent sessions.  |
| <b>XCFSRVNM(<i>server-name</i> <i>SAME</i> <i>NONE</i>)</b> | Defines the XCF application server name, or requests that XCF should not be used to provide sysplex data  |

The parameters are described in detail in the text that follows.

### **AUXPROC(*SDSFAUX-procedure-name*)**

#### ***SDSFAUX-procedure-name***

indicates the procedure name for starting SDSFAUX. The default is SDSFAUX.

### **AUXNAME(*SDSFAUX-job-name*)**

#### ***SDSFAUX-job-name***

indicates the job name to use when starting the SDSFAUX address space. The default is SDSFAUX.

### **AUXSAF(*FAILRC4*|*NOFAILRC4*)**

#### **FAILRC4**

indicates that SDSF and SDSFAUX verify requests should fail (not authorized) when SAF returns an indeterminate result (return code 04). This is the default.

#### **NOFAILRC4**

indicates that SDSF and SDSFAUX verify requests should not fail (authorized) when SAF returns an indeterminate result (return code 04).

### **MAXSESSIONS(*max-concurrent-sessions*)**

#### ***max-concurrent-sessions***

specifies the maximum number of concurrent SDSF sessions per address space. Any attempt to start an SDSF session after this limit is reached results in a connection failure to the SDSF server. Valid values are 2 - 64. The default value is 32.

### **XCFSRVNM(*SAME*|*server-name*|*NONE*)**

#### **SAME**

indicates that the XCF application server name is derived from the SDSF server name. This is the default.

When you use SAME, all SDSF servers that are to participate in sysplex requests must have the same name. (The server name is either the job name or the started task ID.)

#### ***server-name***

specifies the customizable portion of the XCF application server name, ISFSRVR.*server-name*. *server-name* can be up to 8 characters, and can consist of alphabetic characters, numeric characters and the national characters @, #, or \$.

When you use *server-name*, the names of the SDSF servers that are to participate in sysplex requests do not need to be the same.

## NONE

indicates that the server should not identify itself to XCF and so will not respond to sysplex requests through XCF. A value of NONE for a remote system requests that this remote system not be included in the sysplex-wide data.

## Optional SDSF features (FEATURE)

An SDSF feature is a component of SDSF that can be separately enabled, disabled, and configured. Features are controlled through FEATURE and FEATENT statements.

All SDSF features are optional and can be enabled when the associated functionality is needed. Enabling a feature causes the data collectors to gather the data so that the SDSF panels can display it.

Use the FEATURE statement to specify whether the feature is to be started or stopped at server startup.

One or more FEATENT statements must appear after the associated FEATURE statement and is used to specify configuration parameters, such as filters. The FEATENT parameters vary based on the feature being defined.

Additionally, you can control starting or stopping features through operator server MODIFY commands. Syntax for the commands to control the features are provided in the topic [“Server operator commands”](#) on page 75.

Available features are as follows:

- [“The Module Fetch Monitor \(MFM\) feature”](#) on page 38
- [“The Event Log \(ELOG\) feature”](#) on page 39

## The Module Fetch Monitor (MFM) feature

The MFM feature collects information about load module fetch activity. Information collected includes the module name, the containing data set, the job name that caused the fetch to occur, and the performance statistics of the fetch. The SDSF panels MFD, MFJ, and MFM rely on the data collected and processed by this feature.

Collecting and processing the module fetch data can incur system overhead. Therefore, the MFM feature is not started by default, and you should start the MFM feature only when needed.

### MFM feature syntax

#### Sample MFM feature statements

```
FEATURE NAME(MFM),           /* SDSF feature - Module Fetch Monitor */
      START(NO),             /* Do NOT automatically start          */
      LEVEL(3),              /* Collect all data                    */
      LIMIT(10000)           /* Record limit                       */

FEATENT NAME(ABCMOD*),       /* Exclude modules starting "ABCMOD"  */
      TYPE(MODULE),
      ENABLE(NO)

FEATENT NAME(ABC.DSN*),      /* Exclude data sets ABC.DSN*         */
      TYPE(DATASET),
      ENABLE(NO)

FEATENT NAME(*),            /* Exclude all jobs starting ABCJOB*  */
      JOBNAME(ABCJOB*),
      ENABLE(NO)

FEATENT NAME(*),            /* Include all other fetches          */
      TYPE(*),
      ENABLE(YES)
```



## FEATURE statement syntax

### NAME(MFM)

Identifies the MFM feature.

### START(YES | NO)

Specifies whether the feature is started automatically when the SDSF server starts. The default is NO.

### LEVEL (*feature-level*)

Sets the detail of information that is collected. Each successive level includes information collected at the previous level. For example, LEVEL(2) collects everything that LEVEL(1) gathers, plus additional data. *feature-level* is a numeric level in the range 1 to 3 as follows:

**1**

Collect module fetch data summarized at the data set name level (MFD panel)

**2**

Collect module fetch data for modules and data sets (MFD and MFM panels)

**3**

Collect module fetch data for modules, data sets and job names (MFD, MFM, and MFJ panels)

Level values other than 1, 2, or 3 are treated as if LEVEL(3) was specified.

### LIMIT(*limit*)

Sets the maximum number of entries maintained in the module fetch history by the job name panel (MFJ). Once the limit is reached, the oldest entry is removed and replaced with the newest entry. Valid values are 100-99999999. The default value is 10000.

## FEATENT statement syntax

FEATENT statements can be used to reduce the number of records maintained by SDSF. The number of records influences the CPU time and storage needed for processing.

FEATENT statements are specified in ISFPRMxx and apply to the preceding FEATURE statement.

Specify the FEATENT keywords as follows:

### NAME (*module-name* | *data-set-name*)

The module name or data set name pattern used to filter the data. The value that you specify applies to the type of object specified in the TYPE() keyword. The placeholder (%) and wildcard (\*) characters can be used in any position.

#### *module-name*

Module name pattern, 1 - 8 characters. Applies to the TYPE (MODULE) keyword.

#### *data-set-name*

Data set name pattern, 1 - 44 characters. Applies to the TYPE (DATASET) keyword.

### TYPE(MODULE | DATASET)

The type of object to be filtered.

### JOBNAME (*job-name*)

(Optional) Job name pattern that caused the fetch, 1 - 8 characters.

### ENABLE(YES | NO)

Specifies the action to be taken when the fetch passes the filter criteria. When ENABLE(YES), the fetch is included by the data collector. When ENABLE(NO), the fetch is excluded and will not appear in the related panels. The default is YES.

## The Event Log (ELOG) feature

The ELOG feature collects information about important system events by intercepting ENF, SMF, and other notification facilities. SDSF assigns an 8-character category name and a 16-character event name to each entry. You can use FEATENT statements to limit the categories and events that are processed. The list of event names can be obtained using the **ELOG HELP** command.

The ELOG panel displays the events processed by this feature.

For the ELOG feature to gather data from SMF sources, the IEFU86 exit point must be defined in the SMFPRMxx member for the SYS, STC, and JES2 subsystems.

By default, this feature is automatically started when the SDSF server starts.

## ELOG feature syntax

### Sample ELOG feature statements

```
FEATURE NAME(ELOG),           /* SDSF feature - Event log          */
          START(YES),          /* Automatically start on server start */
          LIMIT(50000)         /* Record limit                      */

FEATENT NAME(*),              /* Exclude ABCNAME category events   */
          CATEGORY(ABCNAME),
          ENABLE(NO)

FEATENT NAME(SMF_SYNC),      /* Include SMF-SYNC events           */
          CATEGORY(SMF),
          ENABLE(YES)         /* Change to NO to exclude          */

FEATENT NAME(*),              /* Exclude JOB events for ABCJOB*    */
          CATEGORY(JOB),
          JOBNAME(ABCJOB*),
          ENABLE(NO)

FEATENT NAME(*),              /* Include all other events          */
          CATEGORY(*),
          ENABLE(YES)
```

### FEATURE statement syntax

#### NAME(ELOG)

Identifies the ELOG feature.

#### START(YES | NO)

Specifies whether the ELOG feature is started automatically when the SDSF server starts. The default is YES.

#### LIMIT(*limit*)

Sets the maximum number of entries maintained in the event log history. Once the limit is reached, the oldest event is removed and replaced with the newest event. Valid values are 100 - 99999999. The default value is 10000.

### FEATENT statement syntax

You can use the FEATENT statement to limit the number and types of entries placed in the ELOG.

FEATENT statements are specified in ISFPRMxx and apply to the preceding FEATURE statement.

Specify the FEATENT keywords as follows:

#### NAME(*event-name*)

The event name pattern. The placeholder (%) and wildcard (\*) characters can be used in any position with the 16-character specification. The list of event names can be obtained using the ELOG HELP command, and are shown under the NAME column on the resulting panel.

#### CATEGORY(*category-name*)

The event category name pattern. The placeholder (%) and wildcard (\*) characters can be used in any position with the 8-character specification.

The tables that follow list the valid CATEGORY and NAME values. You can specify either keyword, or both.

#### JOBNAME(*jobname*)

(Optional) Allows events to be filtered by a 1 - 8 character name pattern.

## ENABLE(YES | NO)

Specifies whether the event is included or excluded from processing. When ENABLE(YES), the event is included in the ELOG. When ENABLE(NO), the event is excluded from ELOG.

The following examples show FEATENT statement syntax:

- Example 1: Include all COMMSERV events.

```
NAME (COMMSERV)
```

- Example 2: Exclude any COMMSERV events matching the category pattern RPC\*.

```
NAME (COMMSERV)  
CATEGORY (RPC*)  
ENABLE (NO)
```

- Example 3: Display all events in category DYNAMIC\*, regardless of event name.

```
NAME (*)  
CATEGORY (DYNAMIC*)
```

ELOG shows events from various sources, such as SMF records, ENF signals, and dynamic exits. The source fields for all events is shown on the ELOG HELP panel. To access the information, enter **ELOG HELP** from any SDSF panel.

## Variable field lists (FLD)

An FLD statement along with FLDENT statements defines the fields that are displayed on an SDSF panel. It is associated with the field list for a particular panel by a GROUP statement.

Generally, you do not need to define a field list. When a field list is defined in ISFPRMxx, it overrides the default field list supplied by SDSF. In particular, new columns that are added by SDSF will not appear on the panel unless you update your local field list in ISFPRMxx. Additionally, if you are using your field list definition to change the default column order, be aware that the user can change the order by issuing the ARRANGE command. The ARRANGE command can also be used to hide columns and change their default widths. For these reasons, IBM does not recommend you define field lists in ISFPRMxx.

However, you can define a **primary** and **alternate** variable field list for each SDSF panel. The primary field list contains those fields that are shown upon entry into a panel. The alternate field list contains fields that can be displayed by use of the ? command.

For using SDSF interactively, it is important to locate overtypable fields on the panel so that the entire field is visible on one screen. An overtypable field can be overtyped only when the entire field is visible.

The fields that are available on a panel can also be affected by the JES level. The ARRANGE command allows users to change the order and widths of the fields in each field list.

You can include the ISFEND column in ISFPRMxx. Because the ISFEND column title and width cannot be changed, the TITLE and WIDTH parameters of the FLDENT statement are ignored and message ISF870W is issued. When ISFEND is not included in the field list, SDSF automatically adds it to the end of the list.

With SDSF's support for REXX, users can develop REXX execs that have dependencies on specific columns. You should be aware when removing columns from a field list that this may impact REXX execs.

## Example of the FLD statement

```
1 GROUP IFIELDS(DFLD)  
2 FLD NAME(DFLD) TYPE(IN)  
   FLDENT COLUMN(JNUM),TITLE(' JOBNUM'),WIDTH(7)  
3   FLDENT COLUMN(JPRIO),TITLE(PRTY),WIDTH(4)
```

On line **1** of the example, the IFIELDS parameter refers to a FLD statement (with the NAME parameter).

The FLD statement begins on the line marked with **2**. Each defines a column for the JES job number, with a title of ' JOBNUM' and a width of 7 characters; and a column for the JES input queue priority, with a title

of PRTY and width of 4 characters (line **3**). The TYPE parameter identifies the panel as the IN or Input Queue panel (line **3**).

## FLD syntax

### FLD and FLDENT statements

```
FLD NAME(FLD-statement-name),TYPE(panel-ID)
    FLDENT COLUMN(column),TITLE(title),WIDTH(width)
```

#### **FLD-statement-name**

Names the FLD statement referenced by a group. The name can be alphabetic, numeric, or national characters (@, #, \$) and must begin with an alphabetic character.

#### **column**

A 2-to-8-character name, as defined by SDSF, for a column on an SDSF panel that displays tabular information. Chapter 4, “Columns on the SDSF panels,” on page 95 includes tables of the columns for each panel.

You will achieve better SDSF performance if the primary field list contains only those fields that SDSF can obtain from in-storage control blocks. These are marked as having *immediate* access in the tables in Chapter 4, “Columns on the SDSF panels,” on page 95. Those fields that require an I/O operation to the spool data set (*delayed* access) should be in the alternate field list.

#### **title**

The title that appears on a panel for the column defined by *column*.

When you define a title using mixed case, enclose it in single quotation marks to ensure that it is displayed in mixed case. The case of the column titles does not affect commands that use titles as parameters, such as SORT and FILTER. The CTITLE parameter of the GROUP statement can be used to fold all column titles to uppercase.

If the title contains blanks, you **must** enclose it in single quotation marks. Similarly, users entering commands with column titles as parameters will be required to enclose those titles within quotation marks. For this reason, you may want to avoid coding titles that contain blanks.

A title must not be more than 18 characters long.

#### **width**

The width of the column on the panel. The width must be at least as long as the title. Use D to get the SDSF default length.

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) and PB (petabytes).

#### **panel-ID**

One of the values listed in column 1 of Table 30 on page 42, corresponding to the SDSF tabular panel for which this variable field list was designed.

Table 30 on page 42 shows for each SDSF panel the *panel-ID* value that can be used in the FLD syntax, the GROUP parameters that name the primary and alternate field lists, and where to find a complete list of fields.

Table 30. Field List Parameters

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>             | <b>GROUP Parameter</b> | <b>Reference for Field List</b>                                   |
|-------------------------------------|--------------------------|------------------------|---|
| <b>AD</b>                           | AD (Address Space panel) | ADFLDS                 | <a href="#">“Address Space Diagnostics panel (AD)” on page 96</a> |

Table 30. Field List Parameters (continued)

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>                               | <b>GROUP Parameter</b> | <b>Reference for Field List</b>  |
|-------------------------------------|--|------------------------|--|
| <b>APF</b>                          | APF (Authorized Program Facility panel)    | APFFLDS, APFFLD2       | <a href="#">“Authorized Program Facility panel (APF)” on page 99</a>     |
| <b>AS</b>                           | AS (Address Space panel)                   | ASFLDS, ASFLD2         | <a href="#">“Address Space Memory panel (AS)” on page 97</a>             |
| <b>CDE</b>                          | CDE (Job Modules panel)                    | CDEFLDS                | <a href="#">“Job Modules panel” on page 158</a>                          |
| <b>CFC</b>                          | CFC (CF Connections panel)                 | CFCFLDS                | <a href="#">“CF Connections panel (CFC)” on page 103</a>                 |
| <b>CFD</b>                          | CFD (CF Data Sets panel)                   | CFDFLDS                | <a href="#">“CF Data Sets panel (CFD)” on page 104</a>                   |
| <b>CFS</b>                          | CFS (CF Structure panel)                   | CFSFLDS                | <a href="#">“CF Structure panel (CFS)” on page 104</a>                   |
| <b>CK</b>                           | CK   | CKFLDS, CKFLD2         | <a href="#">“Health Checker panel (CK)” on page 127</a>                  |
| <b>CKH</b>                          | CKH (Health Checker panel)                 | CKHFLDS, CKHFLD2       | <a href="#">“Health Check History panel (CKH)” on page 127</a>           |
| <b>CKPT</b>                         | CKPT (JES Checkpoint panel)                | CKPTFLDS               | <a href="#">“JES Checkpoint panel (CKPT)” on page 138</a>                |
| <b>CS</b>                           | CS (Common Storage Subpools panel)         | CSFLDS                 | <a href="#">“Common Storage Subpools panel (CS) ” on page 109</a>        |
| <b>CSI</b>                          | CSI (Common Storage Subpool Details panel) | CSIFLDS                | <a href="#">“Common Storage Subpool Details panel (CSI)” on page 110</a> |
| <b>CSR</b>                          | CSR (Common Storage Remaining panel)       | CSRFLDS                | <a href="#">“Common Storage Remaining panel (CSR) ” on page 110</a>      |
| <b>DA</b>                           | DA (Display Active Users panel)            | DFIELDS, DFIELD2       | <a href="#">“Display Active Users panel (DA)” on page 114</a>            |
| <b>DEV</b>                          | DEV (Device Activity panel)                | DEVFLDS                | <a href="#">“Device Activity panel (DEV) ” on page 112</a>               |
| <b>DYNX</b>                         | DYNX (Dynamic Exits panel)                 | DYNXFLDS, DYNXFLD2     | <a href="#">“Dynamic Exits panel (DYNX)” on page 117</a>                 |
| <b>EMCS</b>                         | EMCS (Extended Console panel)              | EMCSFLDS               | <a href="#">“Extended Console panel (EMCS) ” on page 123</a>             |
| <b>ENC</b>                          | ENC (Enclaves panel)                       | ENCFLDS, ENCFLD2       | <a href="#">“Enclaves panel (ENC)” on page 119</a>                       |
| <b>ENQ</b>                          | ENQ (Enqueue panel)                        | ENQFLDS, ENQFLD2       | <a href="#">“Enqueue panel (ENQ)” on page 120</a>                        |

Table 30. Field List Parameters (continued)

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>                   | <b>GROUP Parameter</b> | <b>Reference for Field List</b>                              |
|-------------------------------------|--------------------------------|------------------------|--|
| <b>FS</b>                           | FS (File Systems panel)        | FSFLDS                 | <a href="#">“File Systems panel (FS)” on page 124</a>        |
| <b>GQE</b>                          | GQE (Job Common Storage panel) | GQEFLDS                | <a href="#">“Job Common Storage panel (JCS)” on page 146</a> |
| <b>GT</b>                           | GT (Generic Tracker panel)     | GTFLDS                 | <a href="#">“Generic Tracker panel (GT)” on page 126</a>     |
| <b>HOLD</b>                         | H (Held Output panel)          | HFIELD2, HFIELD2       | <a href="#">“Held Output panel (H)” on page 129</a>          |
| <b>IN</b>                           | I (Input Queue panel)          | IFIELDS, IFIELD2       | <a href="#">“Input Queue panel (I)” on page 134</a>          |
| <b>INT</b>                          | INIT (Initiator panel)         | INTFLDS, INTFLD2       | <a href="#">“Initiator panel (INIT)” on page 132</a>         |
| <b>JC</b>                           | JC (Job Class panel)           | JCFLDS, JCFLD2         | <a href="#">“Job Class panel (JC)” on page 144</a>           |
| <b>JCM</b>                          | JCM (Job Class Members field)  | JCMFLDS                | <a href="#">“Job Class Members panel (JCM)” on page 143</a>  |
| <b>JDD</b>                          | JD (Job Device panel)          | JDDFLDS, JDDFLD2       | <a href="#">“Job Device panel (JD)” on page 153</a>          |
| <b>JDDN</b>                         | JDDN (Job DDName panel)        | JDDNFLDS               | <a href="#">“Job DDName panel (JDDN)” on page 155</a>        |
| <b>JDP</b>                          | JDP (Job Dependency)           | JDPFLDS, JDPFLD2       | <a href="#">“Job Dependency panel” on page 152</a>           |
| <b>JDS</b>                          | JDS (Job Data Set panel)       | JDSFLDS, JDSFLD2       | <a href="#">“Job Data Set panel (JDS)” on page 147</a>       |
| <b>JES</b>                          | JES (JES Subsystem panel)      | JESFLDS                | <a href="#">“JES Subsystem panel (JES)” on page 142</a>      |
| <b>JG</b>                           | JG (Job Group panel)           | JGFLDS, JGFLD2         | <a href="#">“Job Group panel (JG)” on page 156</a>           |
| <b>JDM</b>                          | JM (Job Memory panel)          | JDMFLDS, JDMFLD2       | <a href="#">“Job Memory panel (JM)” on page 157</a>          |
| <b>JMO</b>                          | JMO (Job Memory Objects panel) | JMOFLDS                | <a href="#">“Job Memory Objects panel (JMO)” on page 157</a> |
| <b>JRI</b>                          | JRI (JESInfo panel)            | JRIFLDS                | <a href="#">“JESInfo panel (JRI)” on page 139</a>            |
| <b>JRJ</b>                          | JRJ (JESInfo by Job panel)     | JRJFLDS                | <a href="#">“JESInfo by Job panel (JRJ)” on page 140</a>     |
| <b>JS</b>                           | JS (Job Step panel)            | JSFLDS, JSFLD2         | <a href="#">“Job Step panel (JS)” on page 161</a>            |
| <b>TCB</b>                          | TCB (Job Tasks panel)          | TCBFLDS                | <a href="#">“Job Tasks panel” on page 162</a>                |

Table 30. Field List Parameters (continued)

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>  | <b>GROUP Parameter</b> | <b>Reference for Field List</b>  |
|-------------------------------------|---|------------------------|--|
| <b>JDY</b>                          | JY (Job Delay panel)                                  | JDYFLDS, JDYFLD2       | <a href="#">“Job Delay panel” on page 151</a>  |
| <b>JO</b>                           | JO (Job 0 panel)                                      | JOFLDS, JOFLD2         | <a href="#">“Job 0 (JO)” on page 163</a>   |
| <b>LINE</b>                         | LI (Lines panel)                                      | LINEFLDS, LINEFLD2     | <a href="#">“Lines panel (LI)” on page 165</a>   |
| <b>LLS</b>                          | LLS (Link List sets panel)                            | LLSFLDS                | <a href="#">“Link List sets panel (LLS)” on page 167</a>   |
| <b>LNK</b>                          | LNK (Link List panel)                                 | LNKFLDS, LNKFLD2       | <a href="#">“Link List panel (LNK)” on page 167</a>  |
| <b>LPA</b>                          | LPA (Link Pack Area panel)                            | LPAFLDS, LPAFLD2       | <a href="#">“Link Pack Area panel (LPA)” on page 168</a>   |
| <b>LPD</b>                          | LPD (Link Pack Directory panel)                       | LPDFLDS                | <a href="#">“Link Pack Directory panel (LPD)” on page 170</a>  |
| <b>MAS</b>                          | MAS (Multi-Access Spool panel) and JP (JESPLEX panel) | MASFLDS, MASFLD2       | <a href="#">“Multi-Access Spool panel (MAS) and JESPLEX (JP) panel” on page 172</a> and <a href="#">“JESPLEX panel (JP)” on page 143</a> |
| <b>MEM</b>                          | MEM (Memory contents panel)                           | MEMFLDS                | <a href="#">“Memory Contents panel (MEM)” on page 174</a>  |
| <b>NA</b>                           | NA (Network Activity panel)                           | NAFLDS                 | <a href="#">“Network Activity panel (NA)” on page 179</a>  |
| <b>NC</b>                           | NC (Network Connections panel)                        | NCFLDS, NCFLD2         | <a href="#">“Network Connections (NC)” on page 180</a>   |
| <b>NODE</b>                         | NO (Nodes panel)                                      | NODEFLDS, NODEFLD2     | <a href="#">“Nodes panel (NO)” on page 184</a>   |
| <b>NS</b>                           | NS (Network Servers panel)                            | NSFLDS, NSFLD2         | <a href="#">“Network Servers (NS)” on page 183</a>   |
| <b>OUT</b>                          | O (Output Queue panel)                                | OFIELDS, OFIELD2       | <a href="#">“Output Queue panel (O)” on page 187</a>   |
| <b>BPXO</b>                         | OMVS (OMVS options panel)                             | OMVSFLDS               | <a href="#">“OMVS options panel (BPXO)” on page 186</a>  |
| <b>PAG</b>                          | PAG (Page panel)                                      | PAGFLDS, PAGFLD2       | <a href="#">“Page panel (PAG)” on page 190</a>   |
| <b>PARM</b>                         | PARM (PARMLIB panel)                                  | PARMFLDS, PARMFLD2     | <a href="#">“PARMLIB panel (PARM)” on page 191</a>   |
| <b>PC</b>                           | PC (PC Routines panel)                                | PCFLDS                 | <a href="#">“PC Routines panel (PC)” on page 192</a>   |
| <b>PROC</b>                         | PROC (Proclib panel)                                  | PROCFLDS, PROCFLD2     | <a href="#">“Proclib panel (PROC)” on page 199</a>   |
| <b>PS</b>                           | PS (Processes panel)                                  | PSFLDS, PSFLD2         | <a href="#">“Processes panel (PS)” on page 200</a>   |

Table 30. Field List Parameters (continued)

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>                        | <b>GROUP Parameter</b> | <b>Reference for Field List</b>                                   |
|-------------------------------------|-------------------------------------|------------------------|---|
| <b>PUN</b>                          | PUN (Punch panel)                   | PUNFLDS, PUNFLD2       | <a href="#">“Punch panel (PUN)” on page 202</a>                   |
| <b>RDR</b>                          | RDR (Reader panel)                  | RDRFLDS, RDRFLD2       | <a href="#">“Reader panel (RDR)” on page 212</a>                  |
| <b>REPC</b>                         | REPC (WLM Report Class panel)       | REPCFLDS               | <a href="#">“WLM Report Class panel (REPC)” on page 245</a>       |
| <b>RES</b>                          | RES (Resource panel)                | RESFLDS, RESFLD2       | <a href="#">“Resource panel (RES)” on page 213</a>                |
| <b>RGRP</b>                         | RGRP (WLM Resource Group panel)     | RGRPFLDS               | <a href="#">“WLM Resource Group panel (RGRP)” on page 246</a>     |
| <b>RM</b>                           | RM (Resource Monitor panel)         | RMFLDS, RMFLD2         | <a href="#">“Resource Monitor panel (RM)” on page 214</a>         |
| <b>RMA</b>                          | RMA (Resource Monitor alerts panel) | RMAFLDS                | <a href="#">“Resource Monitor Alerts panel (RMA)” on page 215</a> |
| <b>SE</b>                           | SE (Scheduling environment panel)   | SEFLDS, SEFLD2         | <a href="#">“Scheduling Environment panel (SE)” on page 216</a>   |
| <b>SMSG</b>                         | SMSG (SMS Groups panel)             | SMSGFLDS               | <a href="#">“SMS Storage Groups panel (SMSG)” on page 226</a>     |
| <b>SMSV</b>                         | SMSV (SMS Volumes panel)            | SMSVFLDS               | <a href="#">“SMS Volumes panel (SMSV)” on page 227</a>            |
| <b>SO</b>                           | SO (Spool Offload panel)            | SOFLDS, SOFLD2         | <a href="#">“Spool Offload panel (SO)” on page 216</a>            |
| <b>SP</b>                           | SP (Spool Volumes panel)            | SPFLDS, SPFLD2         | <a href="#">“Spool Volumes panel (SP)” on page 219</a>            |
| <b>SR</b>                           | SR (System Requests panel)          | SRFLDS, SRFLD2         | <a href="#">“System Requests panel (SR)” on page 239</a>          |
| <b>SRCH</b>                         | SRCH (Search panel)                 | SRCHFLDS, SRCHFLD2     | <a href="#">“Search panel (SRCH)” on page 221</a>                 |
| <b>SRVC</b>                         | SRVC (WLM Service Classes panel)    | SRVCFLDS               | <a href="#">“WLM Service Classes panel (SRVC)” on page 247</a>    |
| <b>STAT</b>                         | ST (Status panel)                   | STFLDS, STFLD2         | <a href="#">“Status panel (ST)” on page 228</a>                   |
| <b>SVC</b>                          | SVC (SVC routines and ESR panel)    | SVCFLDS                | <a href="#">“SVC routines and ESR panel (SVC)” on page 233</a>    |
| <b>SYM</b>                          | SYM (System Symbols panel)          | SYMFLDS, SYMFLD2       | <a href="#">“System Symbols panel (SYM)” on page 235</a>          |
| <b>SYS</b>                          | SYS (System panel)                  | SYSFLDS, SYSFLD2       | <a href="#">“System panel (SYS)” on page 236</a>                  |



Table 30. Field List Parameters (continued)

| <b>panel-ID<br/>parameter value</b> | <b>Panel</b>                         | <b>GROUP Parameter</b> | <b>Reference for Field List</b>                                   |
|-------------------------------------|--------------------------------------|------------------------|---|
| <b>SYSP</b>                         | SYSP (System Parameters panel)       | SYSPFLDS               | <a href="#">“System Parameters panel (SYSP)” on page 239</a>      |
| <b>USI</b>                          | USI (Private Storage Subpools panel) | USIFLDS                | <a href="#">“Private Storage Subpool panel (USI)” on page 198</a> |
| <b>VMAP</b>                         | VMAP (Virtual Storage Map panel)     | VMAPFLDS               | <a href="#">“Virtual Storage Map panel (VMAP)” on page 242</a>    |
| <b>WKLD</b>                         | WKLD (WLM Workload panel)            | WKLDFLDS               | <a href="#">“WLM Workload panel (WKLD)” on page 248</a>           |
| <b>XCFM</b>                         | XCFM (XCF Members and Groups panel)  | XCFMFLDS               | <a href="#">“XCF Members and Groups panel (XCFM)” on page 250</a> |

## Memory maps (MAPOPT and MAPDEF)

MAPOPT and MAPDEF statements define the structures for control blocks that can be mapped by SDSF. These maps allow you to display storage using the SDSF **MEM** command and to apply the maps so the storage is formatted in a structured format.

When the SDSF server starts, a default set of MAP statements is processed internally by SDSF. When ISFPRMxx contains custom MAPDEF statements, SDSF reads the member name in the MAPDEF statement from the data set defined by the MAPPARM DD statement in the SDSF server JCL. When no MAPPARM DD statement is present, SDSF reads the member from the system logical parmlib.

SDSF supplies maps for common z/OS control blocks. MAPOPT and MAPDEF statements are needed only if you want to modify the SDSF default maps or map your own control blocks. To modify the maps or provide your own, refer to the information in [“Custom memory maps” on page 48](#).

## MAPOPT and MAPDEF statement syntax

MAPOPT along with MAPDEF statements define the source for SDSF memory maps.

Insert MAPOPT and MAPDEF statements into the parmlib member that is associated with the SDSF server startup.

```
MAPOPT
MAPDEF
  ID(member-suffix) | NAME(member-name)
```

The MAPOPT statement starts the map definition.

The MAPDEF statement identifies the parmlib member name that contains the map definition statements. The MAPDEF statement has one of the following parameters:

### ID(member-suffix)

ID(member-suffix) defines the parmlib member name used as ISFMrrss, where

- rr is the release. For z/OS 3.1, rr is 7E. For z/OS 3.2, rr is 7D.
- ss is the specified suffix.

### NAME(member-name)

When specifying NAME(member-name), the member-name identifies the source member that contains the map definition statements.

## Examples

```
MAPOPT
MAPDEF NAME(MYMAP7E)
```

Defines the installation provided maps to be read using member MYMAP7E.

```
MAPOPT
MAPDEF ID(00)
```

Starts the map definition and assigns a suffix of 00 for the parmlib member to be used for this map definition. For this example, in an SDSF 3.1 installation, the parmlib member name is constructed as ISFM7E00.

For more examples, see the sample members ISFPRM01 and ISFM7E00 in ISF.SISFJCL.

## Custom memory maps

The SDSF memory map function is used to format an area of memory using control block symbolic names. SDSF provides several default maps for system control blocks, and you can add your own maps for control blocks not provided by SDSF. You can skip this task if the SDSF default maps are sufficient or if you do not want to map your own control blocks.

The MAPOPT and MAPDEF statements in ISFPRMxx are used to make the maps accessible to SDSF. The map definitions are read from the //MAPPARM data set defined in the SDSF server procedure.

To display a memory map, you access the MEM panel, navigate to the control block address, and then use the M action character to specify the map to be used. SDSF then displays the symbolic names and values in a scrollable panel.

## Defining memory maps

A memory map is defined using MAP and MAPENT statements. You can supply your own MAP and MAPENT statements to map your own control blocks. This section describes the syntax of the MAP and MAPENT statements.

**Note:** MAP and MAPENT statements are not placed within ISFPRMxx. Instead, they are referenced using a member name defined by an ISFPRMxx MAPDEF statement.



**Attention:** SDSF supplies a MAPGEN utility that can generate these statements for you. You are strongly encouraged to use MAPGEN instead of coding MAP and MAPENT statements manually. For more information, see the topic [“Using the MAPGEN utility” on page 50](#).

## MAP statement syntax

Insert MAP and MAPENT statements into the parmlib member that is pointed to by the MAPDEF statement.

```
MAP NAME(name-of-map) LENGTH(length-of-map) REFNAME(macro-name) COMPID(component)
```

The MAP statement starts the definition of the mapping structure for a control block. The MAP statement has the following parameters:

### NAME(*name-of-map*)

The name of the map that formats an area of memory when referenced by the M action character.

The name can be 1 - 8 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is required.

### LENGTH(*length-of-map*)

The length of the block to format using the mapping structure. The length can be 1 - 5 decimal digits. This field is required.

**REFNAME(*macro-name*)**

The macro name to which this map name belongs. The name can be 1 - 8 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is required.

**COMPID(*component*)**

A name that uniquely identifies maps between different components. The component can be 1 - 8 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is optional; the default is blank (no component).

**MAPENT statements**

One or more MAPENT statements follow the MAP statement. They are used to define the fields for mapping.

```
MAPENT FIELD(name-of-field) LENGTH(length-of-field) TYPE(data-type),
      OFFSET(field-offset) REF(field-reference) VALUE(equate-value) DATA(YES | NO),
      DUPLICATION(duplication-factor) ISA(sub-structure) ISACOMPID(sub-structure-type)
```

**FIELD(*name-of-field*)**

The name of the field from the structure. The name can be 2 - 48 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is optional.

**LENGTH(*length-of-field*)**

The length of the field used to display data for this field. The length can be 1 - 5 decimal digits. This field is required.

**TYPE(*data-type*)**

The type of data present in this field. Valid values are ADDR, BIT, BYTE, CHAR, and HEX.

**OFFSET(*field-offset*)**

The offset in hexadecimal of the field from the start of the mapping block. The offset can be a 1 - 4 hexadecimal-digit value (0 - 9 or A - F).

**REF(*field-reference*)**

A reference to a field by this field. The name can be 2 - 48 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. When data-type BIT is specified, this field is required.

**VALUE(*equate-value*)**

The value of equate in hexadecimal for the flag field. The equate value can be of length 2 hexadecimal digits for BIT.

**DATA(YES | NO)**

Whether data should be displayed for this field. Valid values are YES or NO. This field is optional.

**DUPLICATION(*duplication-factor*)**

The duplication factor for field definition. The duplication factor can be 1 - 5 decimal digits. This field is optional.

**ISA(*sub-structure*)**

A substructure name that can be used to further format this field at more granular level. The name can be 1 - 8 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is optional.

**ISACOMPID(*sub-structure-type*)**

A substructure name to uniquely identify maps between different components. The component name can be 1 - 8 alphabetic, numeric, or national characters (@, #, \$), and must begin with an alphabetic or national character. This field is optional; the default is blank (no component).

**Note:** SDSF produces a report that describes the MAP and MAPENT statements that are processed. The report is written to ddname MAPLOG, which is dynamically allocated by the SDSF server.

## Examples

These statements define and configure the memory maps, and are included in the parmlib member that is pointed to by the MAPDEF statement.

```
MAP NAME(CVT) REFNAME(CVT) LENGTH(1280)
```

Defines a map named CVT with macro named CVT and block lengths of 1280.

## Definitions with various data types

```
MAPENT FIELD(CVTTCPB) LENGTH(4) TYPE(HEX) OFFSET(0000)
```

Field CVTTCPB is 4 bytes in length at offset X'0000' and the data type is hexadecimal.

```
MAPENT FIELD(CVTBUF) LENGTH(4) TYPE(ADDR) OFFSET(0010)
```

Field CVTBUF is 4 bytes in length at offset X'0010' and is an address.

```
MAPENT FIELD(CVTCVT) LENGTH(4) TYPE(CHAR) OFFSET(0060)
```

Field CVTCVT is 4 bytes in length at offset X'0060' and the data type is character.

```
MAPENT FIELD(CVTDCB) LENGTH(1) TYPE(BYTE) OFFSET(0074)  
MAPENT FIELD(CVTMVSE) LENGTH(1) TYPE(BIT) REF(CVTDCB) VALUE(80)
```

Field CVTDCB is 1 byte in length at offset X'0074' and the data type is byte. This is followed by field CVTMVSE, which is 1 byte length, type is bit with value X'80' and is defined under CVTDCB.

## Definitions with duplication

```
MAPENT FIELD(CVTFLGCS) LENGTH(4) TYPE(HEX) OFFSET(005C) DATA(NO) DUPLICATION(0)
```

Field CVTFLGCS is 4 bytes in length at offset X'005C' and the data type is hexadecimal. This has duplication of 0 and the field's contents will not be displayed.

```
MAPENT FIELD(ASXBFLSA) LENGTH(4) TYPE(HEX) OFFSET(0024) DUPLICATION(18)
```

Field ASXBFLSA is 4 bytes in length at offset X'0024' and the data type is hexadecimal. This has duplication of 18 and the field's contents will be displayed.

## Definition without a field

```
MAPENT LENGTH(1) TYPE(HEX) OFFSET(0148)
```

No field is displayed, but 1 byte in length at offset X'0148' is displayed with a data type of hexadecimal.

## Definition with substructure

```
MAPENT FIELD(XXXX_YYYYY) LENGTH(72) TYPE(HEX) OFFSET(00E0) ISA(ZZZZ)
```

Field XXXX\_YYYYY is 72 bytes in length at offset X'00E0' and the data type is hexadecimal. This is a substructure within a structure and the layout of the substructure is ZZZZ.

## Using the MAPGEN utility

The MAPGEN utility can generate the MAP and MAPENT statements needed to map a control block. It relieves you from having to code the MAP and MAPENT for every field in a control block. In addition, you

can rerun the MAPGEN utility whenever a control block changes and replace the prior MAP and MAPENT statements with the new ones.

## About this task

Sample JCL to run the MAPGEN utility is provided in member ISF.SISFJCL(ISFMAPGN). The utility works by assembling your macros to be mapped, capturing the SYSADATA created by the assembler, and then generating the corresponding MAP and MAPENT statements. You then copy the generated statements to members in your //MAPPARM data set and reference them on MAPDEF statements in ISFPRMxx.

Running the utility consists of the following steps:

1. Identifying the macros (control blocks) to be mapped and adding them to the assembly step. You will also need to add any dependent macros so that the macro can be assembled.
2. Define MACINCL statements that name the macros to be mapped.
3. Modify the ISFMAPGN JCL to reflect your local conventions, such as the job card, SDSF data set names, and output data set name.
4. Submit the ISFMAPGN job.
5. Copy the generated members to your //MAPPARM data set and update ISFPRMxx to reference them.

Each of these steps is described in more detail in the section that follows. The ISFMAPGN sample JCL contains comments that refer to these instructions.

## Procedure

1. Identify the macros to be mapped.

A single run of MAPGEN can map more than one control block. You can choose whether to map all your installation control blocks together or create separate members for each control block.

In step //DEFMACRO, add your macros to be mapped following the ISFMODID macros that are already included in the job. Supply any macro keywords, since these statements will be passed as is to the assembler. When your macro references fields defined in other macros (a macro dependency), include those macros in this step. You will need a clean assembly so the maps can be produced.

2. Define MACINCL statements.

In step //DEFMAPIN, define the actual control blocks to be mapped using MACINCL statements. MACINCL identifies the macro to be used, names a DSECT to be processed when the macro contains multiple DSECTS, and supplies an optional common name for the control block. One MACINCL statement is needed for each control block to be processed.

The syntax of the MACINCL statement is as follows:

```
MAPINCL MACRO(macro-name) , [DSECT(dsect-name) ] , ALIAS(alias-name) , [COMPID(component-id) ]
```

Provide the parameters as follows:

### ***macro-name***

The name of the macro containing the control block to be mapped. The macro must have been included in the //DEFMACRO step.

### ***dsect-name***

The name of a DSECT to be mapped when the macro contains more than one DSECT. When this parameter is omitted, all DSECTS are mapped.

### ***alias-name***

A common name to be assigned to the control block. For example, the definition MAPINCL MACRO(IAZJSAB),DSECT(IAZJSAB),ALIAS(JSAB) assigns the common name JSAB to the map. This is the name that will appear on the MAP pop-up selection list.

### ***component-id***

This parameter is used to resolve namespace conflicts.

3. Modify ISFMAPGN JCL.

Use the notes in the ISFMAPGN JCL to tailor the JCL to your local standards. You will need to modify the job card, update the SDSF data set names, and specify the output data set name.

4. Submit ISFMAPGN JCL.

Submit the ISFMAPGN JCL and ensure it completes with return code 00. It is critical that the assembly step complete without errors so that the SYSADATA will be correctly created.

5. Copy the generated members.

The //MAPOUT statement defines the output data set to contain the generated statements. Copy the statements to a data set referenced by //MAPPARM in your SDSF server procedure. Then update your ISFPRMxx MAPDEF statement to reference the member, and either restart the SDSF server or refresh ISFPRMxx to activate it.

## Name tables (NTBL)

An NTBL statement along with NTBLENT statements works in conjunction with a GROUP statement in placing an SDSF user into a group, or in determining which SDSF functions are available to a member of a group.

### Example of the NTBL statement

```
1 GROUP XSTATUS(EXCLUDE)
2 NTBL NAME(EXCLUDE)
  NTBLENT STRING(RSCS)
```

On line **1**, the XSTATUS parameter works with the combination of NTBL and NTBLENT statements, beginning on line **2**, to exclude from the SDSF panels any job whose name begins with the characters RSCS. The OFFSET parameter is omitted and defaults to 1.

For more examples, see the sample ISFPRM01 in ISF.SISFJCL.

## NTBL syntax

### NTBL and NTBLENT Statements

```
NTBL NAME(NTBL-statement-name) TYPE(DEST)
  NTBLENT STRING(string) OFFSET(beginning-column-of-string)
```

#### ***NTBL-statement-name***

Names the NTBL statement. The name must be 2-8 alphabetic, numeric, or national characters (@, #, \$) and must begin with an alphabetic character.

#### ***string***

A character string. If a character string contains blanks, it must be enclosed in single quotation marks.

#### ***beginning-column-of-string***

The beginning column number of the character string. In the NTBLENT statement, OFFSET(*beginning-column-of-string*) is optional. If it is omitted, *beginning-column-of-string* defaults to 1.

#### **TYPE**

An optional parameter. The value of DEST indicates that this definition contains enhanced destination names. If you are using these longer destination names, you must specify the TYPE parameter, with a value of DEST.

## Usage notes

If you code name tables for destination names, you may want to put the installation-defined destination names last. Installation-defined names may be most likely to cause an error, and when SDSF encounters an error during initialization, it continues initialization with the destination names that were processed successfully before the error.

# Customized properties (PROPLIST)

A PROPLIST statement, along with PROPERTY statements, defines customized values for certain SDSF properties. It provides an alternative to writing user exit routines to customize those properties. A user exit routine that customizes the same property as a PROPERTY statement overrides the value on the PROPERTY statement.

The PROPLIST statement is associated with a group of users through the CUSTOM parameter on the GROUP statement.

## Example of the PROPLIST and associated statements

```
1 GROUP NAME(DEPTA)
2   CUSTOM(USERPROP)
   .
   .
3 PROPLIST NAME(USERPROP)
4   PROPERTY NAME(Security.Browse.LogNOFAIL) VALUE(TRUE)
```

On line 2 of the example, the CUSTOM parameter refers to a PROPLIST statement with the NAME parameter.

The PROPLIST statement with the appropriate name begins on the line marked with 3. It consists of one PROPERTY statement, on the line marked with 4, which specifies the Security.Browse.LogNOFAIL property.

## PROPLIST syntax

### PROPLIST and PROPERTY statements

PROPLIST NAME(*proplist-statement-name*),  
PROPERTY NAME(*property-name*) VALUE(*value*)

***proplist-statement-name***

names the PROPLIST statement referenced by the CUSTOM parameter in a GROUP statement. The name can be 1 to 8 alphabetic, numeric, or national characters (@, #, \$) and must begin with an alphabetic or national character.

***property-name***

names the property. The properties are described in [Table 31 on page 53](#).

***value***

specifies the setting for the property.

[Table 31 on page 53](#) shows the properties that you can specify with the PROPERTY statement, and the corresponding flag that you could set in a user exit routine to achieve the same result. The user exit overrides the PROPERTY statement.

Table 31. Properties to Specify with the PROPERTY Statement

| Name               | Values   | Description   | Corresponding Field for User Exit |
|--------------------|----------|---|-----------------------------------|
| Browse.Alloc.MaxDS | 10 - 400 | Controls the number of data sets open at one time for browse. The default is 400. | UPRDSAL                           |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                                | Values        | Description  | Corresponding Field for User Exit |
|-------------------------------------|---------------|--|-----------------------------------|
| <b>Browse.CoreBuf.NoSwap</b>        | TRUE or FALSE | Affects the browsing of job data sets. A value of TRUE requests that SDSF not attempt to gather data not yet written to spool if the job is swapped out. This is ignored for systems other than the one you are logged onto. FALSE is the default.   | UPRSFLG3.UPRS3SWP                 |
| <b>Browse.Enhanced.DisableAttrs</b> | TRUE or FALSE | Disables color and highlighting support on browse panels such as ULOG and health checks. Using 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. Installations are encouraged to update their processing to tolerate the attribute being present. A value of TRUE causes the panels to be formatted as was previously implemented, without color and highlighting. FALSE is the default. | UPROFLG11.UPRO11NBR               |
| <b>Browse.Suppress.DupDS</b>        | TRUE or FALSE | Controls whether duplicate SYSOUT data sets are included when you browse or print a job. A value of TRUE requests that duplicate SYSOUT data sets not be included. FALSE is the default.   | UPROFLG3.UPRO3NOD                 |
| <b>Comm.Release.Mode</b>            | 1 or 2        | Sets the mode that SDSF uses for communication to provide sysplex-wide data on SDSF panels.<br><br>A value of 2 sets the communication mode to Z13, which requests that SDSF use the sysplex support that was introduced in z/OS V1R13 SDSF. SDSF uses XCF for communications and does not use the server group. Systems that you wish to be included must be at least z/OS V1R13. This is the default.  | UPRCMODE                          |



Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                                   | Values        | Description  | Corresponding Field for User Exit |
|--|---------------|--|-----------------------------------|
| <b>Command.FILTER.Symbols Disabled</b> | TRUE or FALSE | Controls the use of system symbols with filtering. If the value is TRUE, any symbols in a string are not resolved. If the value is FALSE, symbols are resolved. FALSE is the default.  | UPRS6FSY                          |
| <b>Command.HOLD.AddGenChar</b>         | TRUE or FALSE | Affects the job name parameter on the H command. If the value is TRUE, SDSF appends a generic pattern-matching character to the job name specified with the H command, unless the job name already ends with a generic character or is already the maximum length (8 characters). For example, the command H GREER would result in H GREER*. FALSE is the default. | UPROFLG1.UPRO1GHO                 |
| <b>Command.INIT.DefaultJESManaged</b>  | TRUE or FALSE | Controls the rows that are shown on the initiator panel by default. If the value is TRUE, only JES-managed initiators are shown by default. FALSE is the default.  | UPROFLG2.UPRO2IDJ                 |
| <b>Command.PREFIX.Add GenChar</b>      | TRUE or FALSE | Affects the PREFIX command. If the value is TRUE, SDSF appends a generic pattern-matching character to the prefix specified with the PREFIX command, unless the prefix already ends with a generic character or is already the maximum length (8 characters). For example, the command PREFIX JONES would result in a prefix of JONES*. FALSE is the default.      | UPROFLG1.UPRO1GPF                 |
| <b>Command.SLASH.Command Limit</b>     | 20 - 2000     | Sets the number of system commands entered with the / command that SDSF stores. When the number is exceeded, the oldest command is removed from the list. The default is 1,000. System commands are stored only when using SDSF under ISPF.  | UPRCMDLM                          |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                                 | Values  | Description   | Corresponding Field for User Exit |
|--------------------------------------|---|---|-----------------------------------|
| <b>Command.SLASH.Name</b>            | /, ( or )   | Specifies a single character to use when issuing system commands through SDSF (usually referred to as the slash command). You would use this character with all forms of the slash command, including I/ and W/. Enclose the character in single quotation marks, for example VALUE('/'). The default is /.<br><br>This also affects the character used with the REXX ISFEXEC command. The REXX ISFSLASH command is preferred, as it does not require the character to be coded with the command. | UPRSLCMD<br>UPRSLCIC<br>UPRSLCWC  |
| <b>Command.SLASH.NoDynamicPanels</b> | TRUE or FALSE   | Controls whether the size of the System Command Extension pop-up varies with the screen size of the emulator session. If the value is TRUE, the size of the pop-up does not vary. If the value is FALSE, the size of the pop-up varies. FALSE is the default.   | UPROFLG4.UPRO4CDP                 |
| <b>Command.STAT.AddGenChar</b>       | TRUE or FALSE   | Affects the job name parameter on the ST command. If the value is TRUE, SDSF appends a generic pattern-matching character to the job name specified with the ST command, unless the job name already ends with a generic character or is already the maximum length (8 characters). For example, the command ST GREER would result in ST GREER*. FALSE is the default.  | UPROFLG1.UPRO1GST                 |
| <b>Console.EMCS.ConModChars</b>      | String of up to 32 characters consisting of A-Z, 0-9, @, #, \$. | Names the list of suffixes to use when modifying the console name when the console activation fails due to the console being in use. The default is \$#@12345.  | UPXCONSF                          |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                              | Values                      | Description   | Corresponding Field for User Exit |
|-----------------------------------|-----------------------------|---|-----------------------------------|
| <b>Console.EMCS.DataSpaceSize</b> | 1 - 2048                    | Controls the size of the dataspace used when the EMCS console is activated. The data space size controls the number of messages that may be queued to the console prior to them being retrieved. The value indicates the size in megabytes. 2048 is the default.  | UPRCONSΖ                          |
| <b>Console.EMCS.NoConMod</b>      | TRUE or FALSE (the default) | Disables modification of the console name when console activation fails due to the console being in use. A value of TRUE disables the function and a value of FALSE enables it. FALSE is the default.   | UPROFLG2.UPRO2NMD                 |
| <b>Console.EMCS.UlogAuthReq</b>   | TRUE or FALSE (the default) | Controls activation of the extended console based on authorization to ISFCMD.ODSP.ULOG.jesx. When the value is TRUE, an extended console will be activated only if the user has READ access to ISFCMD.ODSP.ULOG.jesx in the SDSF class. When the value is FALSE, access to ISFCMD.ODSP.ULOG.jesx will not be checked when activating an EMCS console. FALSE is the default. | UPROFLG6.UPRO6UCN                 |
| <b>Log.Operlog.ViewAll</b>        | TRUE or FALSE               | Controls the lines shown on the OPERLOG panel. If the value is TRUE, the OPERLOG panel includes data from the inactive portion of the log stream. FALSE is the default.   | UPROFLG2.UPRO2OVW                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                          | Values        | Description  | Corresponding Field for User Exit   |
|-------------------------------|---------------|--|---|
| <b>Panel.All.JESplexScope</b> | TRUE or FALSE | <p>Controls the scope of the AD, APF, AS, CK, CKPT, CSR, DA, DEV, DYNX, ELOG, ENC, ENQ, FS, GT, JES, LLS, LNK, LPA, LPD, PAG, MEM, MFM, MFD, MFJ, NA, OMVS, PARM, PC, PPT, PROD, PS, SMFD, SMFO, SMFS, SMSG, SMSV, SSI, SVC, SYM, SYS, SYSP, and VMAP panels. If the value is TRUE, the scope of the panels is JESplex-wide. If the value is FALSE, the scope of the panels is sysplex-wide. FALSE is the default.</p> <p><b>Note:</b> For compatibility, Panel.All.JESplexScope does not include the panels affected by Panel.Local.JESplexScope. If you want all SDSF panels to be JESplex-wide scoped, you must set both custom properties to TRUE.</p> | UPROFLG3.UPRO3JPC<br>UPROFLG3.UPRO3JPD<br>UPROFLG3.UPRO3JPE<br>UPROFLG3.UPRO3JPP<br>UPROFLG4.UPRO4JAP<br>UPROFLG4.UPRO4JLN<br>UPROFLG4.UPRO4JLP<br>UPROFLG4.UPRO4JPA<br>UPROFLG4.UPRO4JPM<br>UPROFLG4.UPRO4JSM<br>UPROFLG4.UPRO4JSY<br>UPROFLG5.UPRO5JEN<br>UPROFLG5.UPRO5JAS<br>UPROFLG5.UPRO5JDY<br>UPROFLG5.UPRO5JFS<br>UPROFLG5.UPRO5JSG<br>UPROFLG5.UPRO5JSV<br>UPROFLG5.UPRO5JSS<br>UPROFLG5.UPRO5JVM<br>UPROFLG7.UPRO7JCS<br>UPROFLG7.UPRO7JGT<br>UPROFLG7.UPRO7JNA<br>UPROFLG7.UPRO7JDV<br>UPROFLG7.UPRO7JOM<br>UPROFLG7.UPRO7JLD<br>UPROFLG7.UPRO7JLS<br>UPROFLG8.UPRO8JAD<br>UPROFLG8.UPRO8JME<br>UPROFLG8.UPRO8JPC<br>UPROFLG8.UPRO8JSP<br>UPROFLG8.UPRO8JSV<br>UPROFLG8.UPRO8MFD<br>UPROFLG8.UPRO8MFM<br>UPROFLG9.UPRO9ELOG<br>UPROFLG9.UPRO9MFJ<br>UPROFLG9.UPRO9PPT<br>UPROFLG9.UPRO9PROD<br>UPROFLG9.UPRO9SMFD<br>UPROFLG9.UPRO9SMFO<br>UPROFLG9.UPRO9SMFS |
| <b>Panel.AD.JESplexScope</b>  | TRUE or FALSE | <p>Controls scope of the AD panel. If the value is TRUE, the scope of the AD panel is JESplex-wide. If the value is FALSE, the scope of the AD panel is sysplex-wide. FALSE is the default.</p>  | UPROFLG8.UPRO8JAD   |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                               | Values        | Description   | Corresponding Field for User Exit |
|------------------------------------|---------------|---|-----------------------------------|
| <b>Panel.APF.JESplexScope</b>      | TRUE or FALSE | Controls scope of the APF panel. If the value is TRUE, the scope of the APF panel is JESplex-wide. If the value is FALSE, the scope of the APF panel is sysplex-wide. FALSE is the default.   | UPROFLG4.UPRO4JAP                 |
| <b>Panel.AS.JESplexScope</b>       | TRUE or FALSE | Controls scope of the AS panel. If the value is TRUE, the scope of the AS panel is JESplex-wide. If the value is FALSE, the scope of the AS panel is sysplex-wide. FALSE is the default.  | UPROFLG5.UPRO5JAS                 |
| <b>Panel.CK.JESplexScope</b>       | TRUE or FALSE | Controls the scope of the CK panel. If the value is TRUE, the scope of the CK panel is JESplex-wide. If the value is FALSE, the scope of the CK panel is sysplex-wide. FALSE is the default.  | UPROFLG3.UPRO3JPC                 |
| <b>Panel.CKH.DefaultCKLim</b>      | 1–999999      | Sets the default maximum number of instances for a check for IBM Health Checker for z/OS that will be read from the logstream for the CKH panel. Users can override this with the SET CKLIM command. The default is 10.   | UPRCKLIM                          |
| <b>Panel.Confirm.DisableRetain</b> | TRUE or FALSE | Controls the default action on the Confirm Action pop-up. A value of TRUE forces the default selection to process action character. A value of FALSE enables the use of the retain option, which allows the default action to be primed based on user preference. FALSE is the default. | UPROFLG10.UPRO10CNFD              |
| <b>Panel.CSR.JESplexScope</b>      | TRUE or FALSE | Controls the scope of the CSR panel. If the value is TRUE, the scope of the CSR panel is JESplex-wide. If the value is FALSE, the scope of the CSR panel is sysplex-wide. FALSE is the default.   | UPROFLG7.UPRO7JCS                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                              | Values        | Description  | Corresponding Field for User Exit |
|-----------------------------------|---------------|--|-----------------------------------|
| <b>Panel.DA.CPUPctBasedLPAR</b>   | TRUE or FALSE | Affects normalization of the CPU% column on the DA panel. If the value is TRUE, the CPU% column is normalized using the LPAR value for CPU busy for the system. If the value is FALSE, the CPU% column is normalized with the MVS value for CPU busy for the system. The LPAR value takes into account several states related to PR/SM. The LPAR value requires RMF. If the LPAR value is not available, SDSF uses the MVS value to normalize the CPU% column. FALSE is the default. | UPRSFLG6.UPRS6DNL                 |
| <b>Panel.DA.JESPLexScope</b>      | TRUE or FALSE | Controls the scope of the DA panel. If the value is TRUE, the scope of the DA panel is JESPLex-wide. If the value is FALSE, the scope of the DA panel is sysplex-wide. FALSE is the default.   | UPROFLG3.UPRO3JPD                 |
| <b>Panel.DA.ShowTitleSIO</b>      | TRUE or FALSE | Affects the contents of the title line on the DA panel. If the value is TRUE, the system SIO rate is included, but the system zAAP use is not. If the value is FALSE, the SIO rate is omitted, and the system zAAP use is shown if a zAAP is defined on the local system. FALSE is the default.  | UPRSFLG5.UPRS5DSI                 |
| <b>Panel.DA.ShowTitlezAAPUtil</b> | TRUE or FALSE | Affects the contents of the title line on the DA panel. If the value is TRUE, the zAAP utilization will be shown using the /Z keyword when at least one zAAP is defined on the local system. If the value is FALSE, the zIIP utilization will be shown using the /I keyword. FALSE is the default.   | UPROFLG10.UPRO10ZAAP              |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                           | Values        | Description  | Corresponding Field for User Exit |
|--------------------------------|---------------|--|-----------------------------------|
| <b>Panel.DEV.JESplexScope</b>  | TRUE or FALSE | Controls the scope of the DEV panel. If the value is TRUE, the scope of the DEV panel is JESplex-wide. If the value is FALSE, the scope of the DEV panel is sysplex-wide. FALSE is the default.  | UPROFLG7.UPRO7JDV                 |
| <b>Panel.DYNX.JESplexScope</b> | TRUE or FALSE | Controls scope of the DYNX panel. If the value is TRUE, the scope of the DYNX panel is JESplex-wide. If the value is FALSE, the scope of the DYNX panel is sysplex-wide. FALSE is the default.   | UPROFLG5.UPRO5JDY                 |
| <b>Panel.ENC.JESplexScope</b>  | TRUE or FALSE | Controls the scope of the ENC panel. If the value is TRUE, the scope of the ENC panel is JESplex-wide. If the value is FALSE, the scope of the ENC panel is sysplex-wide. FALSE is the default.  | UPROFLG3.UPRO3JPE                 |
| <b>Panel.ENQ.JESplexScope</b>  | TRUE or FALSE | Controls scope of the ENQ panel. If the value is TRUE, the scope of the ENQ panel is JESplex-wide. If the value is FALSE, the scope of the ENQ panel is sysplex-wide. FALSE is the default.      | UPROFLG5.UPRO5JEN                 |
| <b>Panel.FS.JESplexScope</b>   | TRUE or FALSE | Controls the scope of the FS panel. If the value is TRUE, the scope of the FS panel is JESplex-wide. If the value is FALSE, the scope of the FS panel is sysplex-wide. FALSE is the default.     | UPROFLG5.UPRO5JFS                 |
| <b>Panel.GT.JESplexScope</b>   | TRUE or FALSE | Controls the scope of the GT panel. If the value is TRUE, the scope of the GT panel is JESplex-wide. If the value is FALSE, the scope of the GT panel is sysplex-wide. FALSE is the default.     | UPROFLG7.UPRO7JGT                 |
| <b>Panel.INIT.UseInitNum</b>   | TRUE or FALSE | Controls use of initiator number or names when generating commands. If the value is TRUE, the initiator number is used. If the value is FALSE, the initiator name is used. FALSE is the default. | UPROFLG6.UPRO6INN                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                            | Values        | Description  | Corresponding Field for User Exit |
|---------------------------------|---------------|--|-----------------------------------|
| <b>Panel.JES.JESplexScope</b>   | True or FALSE | Controls scope of the JES panel. If the value is TRUE, the scope of the JES panel is JESplex-wide. If the value is FALSE, the scope of the JES panel is sysplex-wide. FALSE is the default.  | UPROFLG7.UPRO7JJJE                |
| <b>Panel.LLS.JESplexScope</b>   | TRUE or FALSE | Controls scope of the LLS panel. If the value is TRUE, the scope of the LLS panel is JESplex-wide. If the value is FALSE, the scope of the LLS panel is sysplex-wide. FALSE is the default.  | UPROFLG7.UPRO7JLS                 |
| <b>Panel.LNK.JESplexScope</b>   | TRUE or FALSE | Controls scope of the LNK panel. If the value is TRUE, the scope of the LNK panel is JESplex-wide. If the value is FALSE, the scope of the LNK panel is sysplex-wide. FALSE is the default.  | UPROFLG4.UPRO4JLN                 |
| <b>Panel.Local.JESplexScope</b> | TRUE or FALSE | Controls JESplex scoping for panels CFC, CFSA, EMCS, ENQ, SR, and XCFA. If the value is TRUE, the scope of these panels is JESplex-wide. If the value is FALSE, the scope of these panels is sysplex-wide. FALSE is the default.<br><br><b>Note:</b> For compatibility, Panel.Local.JESplexScope does not include the panels affected by Panel.All.JESplexScope. If you want all SDSF panels to be JESplex-wide scoped, you must set both custom properties to TRUE. | UPROFLG10.UPRO10LCLJ              |
| <b>Panel.LPA.JESplexScope</b>   | TRUE or FALSE | Controls scope of the LPA panel. If the value is TRUE, the scope of the LPA panel is JESplex-wide. If the value is FALSE, the scope of the LPA panel is sysplex-wide. FALSE is the default.  | UPROFLG4.UPRO4JLP                 |



Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                           | Values        | Description  | Corresponding Field for User Exit |
|--------------------------------|---------------|--|-----------------------------------|
| <b>Panel.LPD.JESplexScope</b>  | TRUE or FALSE | Controls scope of the LPD panel. If the value is TRUE, the scope of the LPD panel is JESplex-wide. If the value is FALSE, the scope of the LPD panel is sysplex-wide. FALSE is the default.                          | UPROFLG7.UPRO7JLD                 |
| <b>Panel.Main.DisableGroup</b> | TRUE or FALSE | Controls the view of the SDSF main menu. If the value is TRUE, the group view of the main panel will not be shown. If the value is FALSE, the main panel can be displayed as a list of groups. FALSE is the default. | UPROFLG10.UPRO10NGRP              |
| <b>Panel.Main.DisableUlog</b>  | TRUE or FALSE | Controls suppression of the ULOG option on the SDSF main menu. If the value is TRUE, the ULOG option will not be shown on the SDSF main menu. FALSE is the default.  | UPROFLG10.UPRO10NULG              |
| <b>Panel.MEM.JESplexScope</b>  | TRUE or FALSE | Controls the scope of the MEM panel. If the value is TRUE, the scope of the MEM panel is JESplex-wide. If the value is FALSE, the scope of the MEM panel is sysplex-wide. FALSE is the default.                      | UPROFLG8.UPRO8JME                 |
| <b>Panel.NA.JESplexScope</b>   | TRUE or FALSE | Controls the scope of the NA panel. If the value is TRUE, the scope of the NA panel is JESplex-wide. If the value is FALSE, the scope of the NA panel is sysplex-wide. FALSE is the default.                         | UPROFLG7.UPRO7JNA                 |
| <b>Panel.OMVS.JESplexScope</b> | TRUE or FALSE | Controls scope of the OMVS panel. If the value is TRUE, the scope of the OMVS panel is JESplex-wide. If the value is FALSE, the scope of the OMVS panel is sysplex-wide. FALSE is the default.                       | UPROFLG7.UPRO7JOM                 |
| <b>Panel.PAG.JESplexScope</b>  | TRUE or FALSE | Controls scope of the PAG panel. If the value is TRUE, the scope of the PAG panel is JESplex-wide. If the value is FALSE, the scope of the PAG panel is sysplex-wide. FALSE is the default.                          | UPROFLG4.UPRO4JPA                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                                 | Values        | Description  | Corresponding Field for User Exit |
|--------------------------------------|---------------|--|-----------------------------------|
| <b>Panel.PARM.JESplexScope</b>       | TRUE or FALSE | Controls scope of the PARM panel. If the value is TRUE, the scope of the PARM panel is JESplex-wide. If the value is FALSE, the scope of the PARM panel is sysplex-wide. FALSE is the default.                   | UPROFLG4.UPRO4JPM                 |
| <b>Panel.PC.JESplexScope</b>         | TRUE or FALSE | Controls scope of the PC panel. If the value is TRUE, the scope of the PC panel is JESplex-wide. If the value is FALSE, the scope of the PC panel is sysplex-wide. FALSE is the default.                         | UPROFLG8.UPRO8JPC                 |
| <b>Panel.PR.DevNameAlwaysShort</b>   | TRUE or FALSE | Controls how device names are formatted on the PR panel. If the value is TRUE, the device names are shown in a shortened format. Otherwise, the name is shown with dots between subtypes. FALSE is the default.  | UPROFLG2.UPRO2DF8                 |
| <b>Panel.PS.JESplexScope</b>         | TRUE or FALSE | Controls the scope of the PS panel. If the value is TRUE, the scope of the PS panel is JESplex-wide. If the value is FALSE, the scope of the PS panel is sysplex-wide. FALSE is the default.                     | UPROFLG3.UPRO3JPP                 |
| <b>Panel.PUN.DevName AlwaysShort</b> | TRUE or FALSE | Controls how device names are formatted on the PUN panel. If the value is TRUE, the device names are shown in a shortened format. Otherwise, the name is shown with dots between subtypes. FALSE is the default. | UPROFLG2.UPRO2DU8                 |
| <b>Panel.RDR.DevName AlwaysShort</b> | TRUE or FALSE | Controls how device names are formatted on the RDR panel. If the value is TRUE, the device names are shown in a shortened format. Otherwise, the name is shown with dots between subtypes. FALSE is the default. | UPROFLG2.UPRO2DR8                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name   | Values        | Description  | Corresponding Field for User Exit |
|--|---------------|--|-----------------------------------|
| <b>Panel.Settings.DisablePointAndShoot</b>         | TRUE or FALSE | Controls the use of point-and-shoot fields on the SDSF primary option menu and the column titles of tabular panels. If the value is TRUE, the fields are not conditioned for point-and-shoot. FALSE is the default.  | UPROFLG2.UPRO2PNS                 |
| <b>Panel.Settings.DisableFieldLevelHighLight</b>   | TRUE or FALSE | Controls use of field level highlighting for column values. If the value is FALSE, numeric columns with a value of zero will be lowlighted even if the row is highlighted. Some zero values considered significant will not be lowlighted. FALSE is the default. | UPROFLG6.UPRO6NFH                 |
| <b>Panel.Settings.DisableRightAlignNumericCols</b> | TRUE or FALSE | Controls right alignment of values in numeric columns. If the value is FALSE, numeric values will be right aligned in the column. It is no longer necessary to define column titles with leading blanks to force alignment of the value. FALSE is the default.   | UPROFLG6.UPRO6NRA                 |
| <b>Panel.SMSG.JESPLexScope</b>                     | TRUE or FALSE | Controls the scope of the SMSG panel. If the value is TRUE, the scope of the SMSG panel is JESPLex-wide. If the value is FALSE, the scope of the SMSG panel is sysplex-wide. FALSE is the default.   | UPROFLG5.UPRO5JSG                 |
| <b>Panel.SMSV.JESPLexScope</b>                     | TRUE or FALSE | Controls the scope of the SMSV panel. If the value is TRUE, the scope of the SMSV panel is JESPLex-wide. If the value is FALSE, the scope of the SMSV panel is sysplex-wide. FALSE is the default.   | UPROFLG5.UPRO5JSV                 |
| <b>Panel.SR.EnableRSYSFilter</b>                   | TRUE or FALSE | Controls the scope of the SR display. If the value is TRUE, and the user is authorized to the RSYS command, the SR display filters by the current RSYS (reply system) value. If the value is FALSE, the SR display ignores RSYS filtering. FALSE is the default. | UPROFLG6.UPRO6ERF                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                           | Values        | Description  | Corresponding Field for User Exit |
|--------------------------------|---------------|--|-----------------------------------|
| <b>Panel.SSI.JESplexScope</b>  | TRUE or FALSE | Controls the scope of the SSI panel. If the value is TRUE, the scope of the SSI panel is JESplex-wide. If the value is FALSE, the scope of the SSI panel is sysplex-wide. FALSE is the default.    | UPROFLG5.UPRO5JSS                 |
| <b>Panel.SVC.JESplexScope</b>  | TRUE or FALSE | Controls scope of the SVC panel. If the value is TRUE, the scope of the SVC panel is JESplex-wide. If the value is FALSE, the scope of the SVC panel is sysplex-wide. FALSE is the default.        | UPROFLG8.UPRO8JSV                 |
| <b>Panel.SYM.JESplexScope</b>  | TRUE or FALSE | Controls scope of the SYM panel. If the value is TRUE, the scope of the SYM panel is JESplex-wide. If the value is FALSE, the scope of the SYM panel is sysplex-wide. FALSE is the default.        | UPROFLG4.UPRO4JSM                 |
| <b>Panel.SYS.JESplexScope</b>  | TRUE or FALSE | Controls scope of the SYS panel. If the value is TRUE, the scope of the SYS panel is JESplex-wide. If the value is FALSE, the scope of the SYS panel is sysplex-wide. FALSE is the default.        | UPROFLG4.UPRO4JSY                 |
| <b>Panel.SYSP.JESplexScope</b> | TRUE or FALSE | Controls scope of the SYSP panel. If the value is TRUE, the scope of the SYSP panel is JESplex-wide. If the value is FALSE, the scope of the SYSP panel is sysplex-wide. FALSE is the default.     | UPROFLG8.UPRO8JSP                 |
| <b>Panel.VMAP.JESplexScope</b> | TRUE or FALSE | Controls the scope of the VMAP panel. If the value is TRUE, the scope of the VMAP panel is JESplex-wide. If the value is FALSE, the scope of the VMAP panel is sysplex-wide. FALSE is the default. | UPROFLG5.UPRO5JVM                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                             | Values        | Description  | Corresponding Field for User Exit |
|----------------------------------|---------------|--|-----------------------------------|
| <b>Print.CCTL.AlwaysUseASA</b>   | TRUE or FALSE | <p>Specifies how SDSF's print function handles carriage control. A value of TRUE causes SDSF to always use ASA carriage control when printing, regardless of the record format of the output data set. A value of FALSE causes SDSF to handle carriage control based on the record format of the output, as follows:</p> <ul style="list-style-type: none"> <li>• If the record format includes A, then the print function uses ASA (ANSI) carriage control.</li> <li>• If the record format includes M, then the print function uses machine carriage control.</li> <li>• Otherwise, SDSF removes carriage control characters if they are present in the source.</li> </ul> <p>TRUE is the default.</p> | UPROFLG3.UPRO3ASA                 |
| <b>Profile.FileSys.NoTSO</b>     | TRUE or FALSE | <p>Controls use of z/OS UNIX file system profiles when running under TSO. A value of TRUE disables use of the profiles so that settings are not saved across sessions. A value of FALSE allows settings to be saved in the file system profiles. FALSE is the default.</p>   | UPROFLG10.UPRO10NPFS              |
| <b>Security.Browse.LogNOFAIL</b> | TRUE or FALSE | <p>Specifies the SAF logging option to use when a job's data sets are browsed from an SDSF panel, with the exceptions of the JDS panel. If the value is TRUE, the SAF logging setting is LOG=NOFAIL (rather than the default, LOG=ASIS). FALSE is the default.</p>   | UPROFLG1.UPRO1LNF                 |

Table 31. Properties to Specify with the PROPERTY Statement (continued)

| Name                               | Values        | Description  | Corresponding Field for User Exit |
|------------------------------------|---------------|--|-----------------------------------|
| <b>Security.Enable.Msg015</b>      | TRUE or FALSE | Controls whether message ISF015I is issued. ISF015I is used to report authorization decisions. However, since security for SDSF 2.5 must be implemented via SAF, the message is redundant because the security product also issues messages based on the authorization decision. By default, message ISF015I is longer issued. For compatibility, this custom property can be enabled to cause the message to be issued. TRUE indicates message ISF015I is to be issued. FALSE is the default. | UPROFLG3.UPRO3M15                 |
| <b>Security.SAFNoDec.WarnMsg</b>   | TRUE or FALSE | Specifies the SAF no-decision option in a JES3 environment. If the value is TRUE, an SDSF message is issued whenever a SAF no-decision result (return code 04) is converted to a failure. The message includes the class name, resource name and access level being checked. This setting can be helpful during a conversion period; once you have defined the SAF profiles, set the value to FALSE. FALSE is the default.   | UPROFLG1.UPRO1SFW                 |
| <b>Security.Syslog.UseSAFRecvr</b> | TRUE or FALSE | Controls the use of RECVR when processing the logical SYSLOG. A value of TRUE indicates that a RECVR equal to the current user ID will be used when the logical SYSLOG is opened. This causes the authorization check to the logical SYSLOG to always succeed (see note). FALSE is the default.  | UPROFLG1.UPRO1RCV                 |

**Note:** The resource is *nodeid*.+MASTER+.SYSLOG.SYSTEM.*sysname*.

## Code page (TRTAB and TRDEF)

A TRTAB statement specifies the code page that SDSF uses for a group of users. SDSF uses the code page to ensure that it displays valid characters on the terminal and to convert lowercase characters to uppercase.

A code page consists of two translation tables. One table contains the character set that is valid for a group of users and the other contains the uppercase characters for that character set. SDSF folds all input data, such as action characters, to uppercase and verifies all the data it displays, such as field titles, for valid characters. If SDSF encounters a character that is not in the valid character set table, it displays that character as a blank.

The code page you specify does not apply to the pull-downs and pop-ups displayed by ISPF. For them, ISPF uses the code page defined for the terminal type currently in effect.

If none of the code pages that can be specified with the CODPAG parameter match the needs of your installation, you can code your own translation tables in your statements. See [“Coding a translate table”](#) on page 71 for more information.

## Example of the TRTAB statement

```
1 GROUP VALTAB(VAL500) ,  
2   UPCTAB(UPC500)  
3 GROUP CONFIRM(ON)  
4 TRTAB CODPAG(CP00500) , VALTAB(VAL500) ,  
5   UPCTAB(UPC500)
```

On line **1** of the example, the VALTAB parameter specifies VAL500 as the name of the translation table that checks for valid characters.

On line **2**, the UPCTAB parameter specifies UPC500 as the name of the translation table that converts lowercase characters to uppercase.

On line **3**, the GROUP CONFIRM parameter specifies confirmation of destructive action characters (such as cancel or purge).

The translation tables are generated by a TRTAB statement that has VALTAB and UPCTAB parameters that name the same translation tables, which is found on lines **4** and **5**. The CODPAG parameter specifies the code page, CP00500, that is to be used for the group of users.

If the TRTAB statement is omitted, all SDSF users are assigned the default code page, SDSF.

## TRTAB syntax

### TRTAB Statement

TRTAB CODPAG (*code-page*),  
 VALTAB (*valid-character-translation-table-name*),  
 UPCTAB (*uppercase-translation-table-name*)

#### CODPAG

Specifies an alternate code page, *code-page*, that SDSF will use for a group of users. The valid character and uppercase translation tables generated by SDSF correspond to the CODPAG you specify.

If you omit this parameter, SDSF uses code page **SDSF** (or CP00037, when running SDSF in batch with program name ISFAFD).

*code-page* can be:

#### SDSF

USA WP, Original.

SDSF consists of CP00001 plus three optical character reader (OCR) characters, which results in mixed-case characters in the help panels, SDSF panels, and the SDSF Primary Option menu.

#### CASE

Same as SDSF, but characters are folded to uppercase.

#### CP00037

USA/Canada – CECF

**CP00273**  
Germany F.R./Austria – CECP

**CP00275**  
Brazil – CECP

**CP00277**  
Denmark, Norway – CECP

**CP00278**  
Finland, Sweden – CECP

**CP00280**  
Italy – CECP

**CP00281**  
Japan (Latin) – CECP

**CP00284**  
Spain/Latin America – CECP

**CP00285**  
United Kingdom – CECP

**CP00290**  
Japanese (Katakana) Extended

**CP00297**  
France – CECP

**CP00420**  
Arabic, Bilingual

**CP00424**  
Israel (Hebrew) Extended

**CP00500**  
International #5

**CP00803**  
Hebrew Character Set A

**CP00833**  
Korean Extended

**CP00836**  
Simplified Chinese Extended

**CP00870**  
Latin 2/Multilingual/ROECE

**CP00871**  
Iceland – CECP

**CP00875**  
Greece

**CP01025**  
Cyrillic, Multilingual

**CP01026**  
Latin 5/Turkey

**CP01027**  
Japanese (Latin) Extended

**CP01047**  
Latin 1/Open systems

**CP01112**  
Baltic, Multilingual

**CP01122**  
Estonia



**CP01140**

ECECP USA, Canada, Netherlands, Portugal, Brazil, Australia, New Zealand

**CP01141**

ECECP Austria, Germany

**CP01142**

ECECP Denmark, Norway

**CP01143**

ECECP Finland, Sweden

**CP01144**

ECECP Italy

**CP01145**

ECECP Spain, Latin America (Spanish)

**CP01146**

ECECP UK

**CP01147**

ECECP France

**CP01148**

ECECP Belgium, Canada, Switzerland

**CP01149**

ECECP Iceland

**CP01153**

EBCDIC Latin 2 Multilingual with Euro Extended

**CP01159**

T-Chinese EBCDIC

**VALTAB**

Specifies the name of the valid character set translation table. If omitted, SDSF uses TRTAB for the name. TRTAB cannot be used as a default name more than once.

Use the same value for *valid-character-translation-table-name* that you used in the VALTAB parameter of the GROUP statement for the group.

**UPCTAB**

Specifies the name of the uppercase translation table. If omitted, SDSF uses TRTAB2 for the name. TRTAB2 cannot be used as a default name more than once.

Use the same value for *uppercase-translation-table-name* that you used in the UPCTAB parameter of the GROUP statement for the group.

## Coding a translate table

To code your own translate table, use the VALTAB and UPCTAB parameters of a GROUP statement to assign the translate tables to a group of users. Then define the translate table with the TRDEF statement.

The translate tables must be 256 bytes each.

### TRDEF syntax

#### TRDEF Statement

```
TRDEF NAME(table-name),  
      DATA(hex-characters)
```

#### NAME(*table-name*)

names the translate table being defined. The name is referenced in the UPCTAB or VALTAB parameter of a GROUP statement.

## DATA(hex-characters)

specifies the translate table, which must be 256 bytes.

## Example of the TRDEF statement

```
1  GROUP VALTAB(UVALTAB),
2      UPCTAB(UUPCTAB)
3  TRDEF NAME(UVALTAB), /* Valid character table */
4      DATA(000102030405060708090A0B0C0D0E0F, /* 00-0F */
            101112131415161718191A1B1C1D1E1F, /* 10-1F */
            202122232425262728292A2B2C2D2E2F, /* 20-2F */
            303132333435363738393A3B3C3D3E3F, /* 30-3F */
            404142434445464748494A4B4C4D4E4F, /* 40-4F */
            505152535455565758595A5B5C5D5E5F, /* 50-5F */
            606162636465666768696A6B6C6D6E6F, /* 60-6F */
            707172737475767778797A7B7C7D7E7F, /* 70-7F */
            808182838485868788898A8B8C8D8E8F, /* 80-8F */
            909192939495969798999A9B9C9D9E9F, /* 90-9F */
            A0A1A2A3A4A5A6A7A8A9AAABACADAEAF, /* A0-AF */
            B0B1B2B3B4B5B6B7B8B9BABBBBCDBEBF, /* B0-BF */
            C0C1C2C3C4C5C6C7C8C9CACBCCCDCECF, /* C0-CF */
            D0D1D2D3D4D5D6D7D8D9DADBDCDDDEDF, /* D0-DF */
            E0E1E2E3E4E5E6E7E8E9EAEBECEDEEEF, /* E0-EF */
            F0F1F2F3F4F5F6F7F8F9FAFBFCFDFEFFF) /* F0-FF */
5  TRDEF NAME(UUPCTAB), /* Upper case table */
6      DATA(000102030405060708090A0B0C0D0E0F, /* 00-0F */
            101112131415161718191A1B1C1D1E1F, /* 10-1F */
            202122232425262728292A2B2C2D2E2F, /* 20-2F */
            303132333435363738393A3B3C3D3E3F, /* 30-3F */
            404142434445464748494A4B4C4D4E4F, /* 40-4F */
            505152535455565758595A5B5C5D5E5F, /* 50-5F */
            606162636465666768696A6B6C6D6E6F, /* 60-6F */
            707172737475767778797A7B7C7D7E7F, /* 70-7F */
            808182838485868788898A8B8C8D8E8F, /* 80-8F */
            909192939495969798999A9B9C9D9E9F, /* 90-9F */
            A0A1A2A3A4A5A6A7A8A9AAABACADAEAF, /* A0-AF */
            B0B1B2B3B4B5B6B7B8B9BABBBBCDBEBF, /* B0-BF */
            C0C1C2C3C4C5C6C7C8C9CACBCCCDCECF, /* C0-CF */
            D0D1D2D3D4D5D6D7D8D9DADBDCDDDEDF, /* D0-DF */
            E0E1E2E3E4E5E6E7E8E9EAEBECEDEEEF, /* E0-EF */
            F0F1F2F3F4F5F6F7F8F9FAFBFCFDFEFFF) /* F0-FF */
```

On the line marked with **1**, a GROUP statement begins the definition of a group and the VALTAB parameter gives the valid character translation table the name UVALTAB. On the line marked with **2**, the UPCTAB parameter gives the uppercase translation table the name UUPCTAB. The names UVALTAB and UUPCTAB are used to associate these parameters with TRDEF statements on lines **3** and **5**. The valid character translate table is defined beginning on line **4**. The uppercase translate table is defined beginning on line **6**.

---

## Chapter 3. Using the SDSF server

The SDSF server is an address space that SDSF uses to:

- Process ISFPARMS statements.
- Provide sysplex support. This consists of sysplex-wide data for JES2 devices and for system resources.
- Manage the starting and stopping of the SDSFAUX address space. SDSFAUX is used to provide data gathering support and other services for SDSF panels.

The SDSF server is required for SDSF 2.5 or later.

It is recommended that you place the SDSF and SDSFAUX address spaces in the medium priority started task WLM service class. Because SDSFAUX is responsible for data collection, it should be placed into a higher priority WLM service class. For example, SDSF could be placed into STCMD and SDSFAUX placed in STCHI.

SDSF includes a server startup option, **NOPARM**, that allows the server and SDSFAUX to be started and the panels that require SDSFAUX are available, but ISFPRMxx is not processed. When the client then accesses SDSF, a noparm condition is returned by the server and the server falls back to ISFPARMS. The user must have READ access to the **SERVER.NOPARM** resource in the SDSF class to use ISFPARMS instead of ISFPRMxx.

Only a single SDSF (and associated SDSFAUX) address space can be active at the same time. All SDSF users will connect to the one (and only) SDSF address space that is active. An attempt to start a second SDSF address space (regardless of server name) is rejected with a "server already active" message.

You control the server through the MVS operator START, STOP, and MODIFY commands. For details on the commands, see [“Server operator commands” on page 75](#).

Sample JCL for the server is in member ISFSRJCL (alias SDSF) of data set ISF.SISFJCL.

Sample JCL for SDSFAUX is in member HSFSRJCL (alias SDSFAUX) of data set ISF.SISFJCL.

**Note:** SDSF requires that ISF.SISFLOAD be in the system lnklst.

---

### Configuring server security

The SDSF server requires security configuration before it can be started. The server consists of two address spaces, by default named SDSF and SDSFAUX.

Configure the server as follows:

1. Ensure that the SAF SDSF class is RACLISTed. For more information on RACLIST, see [Chapter 6, “SDSF and RACF,” on page 257](#).
2. Define a user ID associated with the SDSF and SDSFAUX address spaces by adding a profile to the SAF STARTED class. The same user ID can be used for both address spaces. For example:

```
RDEFINE STARTED SDSF*. * STDATA(USER(SDSF))
```

associates user ID SDSF with both the SDSF and SDSFAUX address spaces.

3. Allow the SDSF server to access your WLM policy. For example:

```
PERMIT MVSADMIN.WLM.POLICY ACCESS(READ) CLASS(FACILITY) ID(SDSF)
```

allows user ID SDSF to gather WLM data.

4. Allow the SDSFAUX server to gather RMF information. For example:

```
PERMIT ERBSDS.MON2DATA ACCESS(READ) CLASS(FACILITY) ID(SDSF)
```

5. Ensure that the user ID associated with the SDSFAUX address space has an OMVS segment so that it can invoke z/OS UNIX system services. UID(0) is not required.

Additional SAF resources are used to secure other functions of the SDSF server, such as use of the server operator parms.

For more information, see [Chapter 7, “Access to SDSF,” on page 263](#).

## Defining the input

---

The input to the SDSF server is the ISFPARMS statements. By default, SDSF assumes the statements reside in PARMLIB, in member ISFPRM00. You can use a PARMLIB member with a different suffix by specifying that suffix on the command you use to start the server. See [“Start the SDSF server” on page 75](#). Or you can use your own partitioned data set, rather than PARMLIB, by defining it using ddname SDSFPARM in the server JCL.

For details on defining the ISFPARMS statements, see [Chapter 2, “Using ISFPARMS for customization,” on page 7](#).

## Starting the server

---

You start the server using the START command. The command takes the server name as a parameter. Optional parameters identify the suffix of PARMLIB member ISFPRMxx that contains the statements to be read, as well as other options. For details, see [“Start the SDSF server” on page 75](#).

If the SDSF server fails to start, see the information in the troubleshooting topic [“The SDSF server fails to start” on page 603](#).

## Starting the SDSFAUX server

---

The SDSFAUX address space is automatically started by the SDSF server address space when the server starts. Conversely, SDSFAUX is automatically stopped when the SDSF server is stopped.

Keep the following considerations in mind:

- By default, the SDSF server starts SDSFAUX. You can change the SDSFAUX procedure and job names using the AUXPROC and AUXNAME keywords of the CONNECT statement as described in the [“CONNECT statement” on page 37](#).
- If SDSFAUX is already active, any changes to parameters related to SDSFAUX on the CONNECT statement such as AUXPROC, AUXNAME, and AUXSAF are ignored. If you make changes to the CONNECT statement related to SDSFAUX, stop the SDSF server and wait for SDSFAUX to end. Then, restart the SDSF server for the changes to take effect.

## Processing the statements

---

When the server is started, it reads the statements from the input data set.

You can activate new parameters at any time with the MODIFY command, which you can enter from the console or from SDSF by users that are authorized to use the slash (/) command. Changes take effect the next time users access SDSF. A TEST parameter allows you to check the syntax of the statements without activating them. See [“Refresh ISFPARMS” on page 86](#) for more information.

## Accessing the server

---

When the user accesses SDSF, the SDSF client attempts to connect to the SDSF server. The SDSF address space must be active.

**Note:** Only a single server can be active on the system.

## Logging

---

The SDSF server logs all statements processed, and any associated error messages, to a log file. With the server START command, you can control the destination of the log file (SYSOUT or the hardcopy log). When the destination is SYSOUT, SDSF uses the class specified in the server JCL if one is specified there, or the class specified in the LOGCLASS option on the START command. If no SYSOUT class is specified, SDSF uses class A. When SDSF dynamically allocates the log, it is freed when it is closed. In the event of an error allocating the log, SDSF redirects any log messages to the hardcopy log. Messages issued by the server are documented in [Chapter 15, “SDSF messages and codes,”](#) on page 461.

The SDSFAUX log is written to the HSFLOG data set allocated by the SDSF server address space. It contains messages related to processing for use by IBM service personnel.

## Server tracing

---

The SDSF server can write trace records to ddname HSFTRACE. SDSF tracing is activated by issuing the SDSF TRACE command.

SDSF trace is intended to only be used under the direction of IBM service personnel.

The level of tracing is controlled through the SAF access level to the ISFCMD.MAINT.TRACE resource in the SDSF class. For information about resources and required access, see [“Protecting SDSF authorized functions”](#) on page 265.

Activating trace will result in additional SDSF processing overhead. In addition, in some cases the number of records written to HSFTRACE might be large. You might want to periodically spin the data set. For information about the operator command that can be used to spin the trace data set, see the topic [“Switch Trace”](#) on page 93.

## Security

---

Security for the SDSF server is provided with SAF resources. You can protect these aspects of the server related to processing ISFPARMS statements:

- Reverting from ISFPARMS in statement format to ISFPARMS in assembler macro format.
- Use of the server operator commands.

For details on these aspects of server security, see [Chapter 7, “Access to SDSF,”](#) on page 263.

## Server operator commands

---

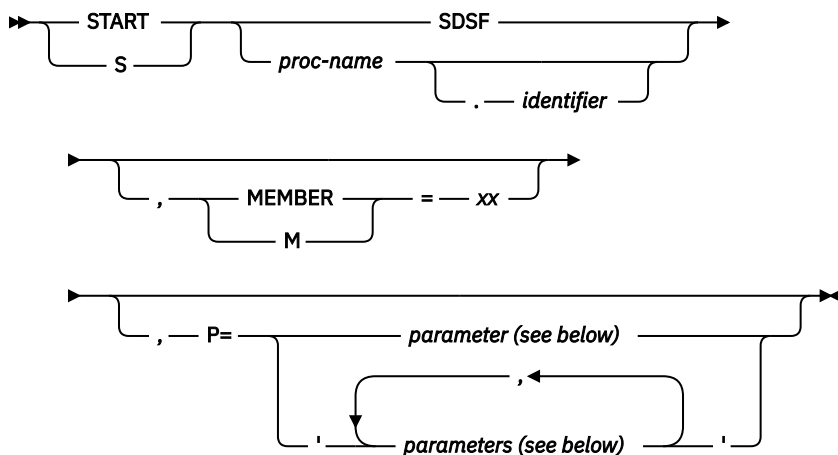
You control the server with the MVS operator commands described on the pages that follow.

### Start the SDSF server

Use the server START command to initialize the SDSF server address space, and to control server options. When the server is initialized, the server is ready to process requests from the SDSF application.

## Format

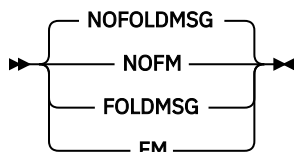
### Server START Command



### Address Space



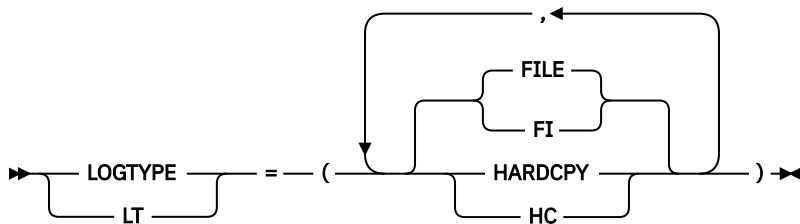
### Message Folding



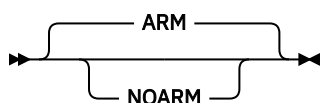
### Log Class



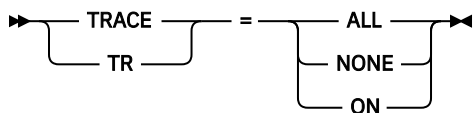
### Log Type



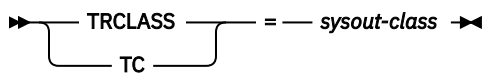
### ARM



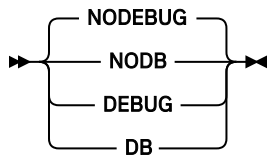
### Trace



### Trace SYSOUT Class



## Debug



### **proc-name**

is 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.

### **identifier**

is an identifier that is used as the server name, instead of the procedure name.

### **MEMBER or M=xx**

specifies the suffix of member name ISFPRMxx, which contains the statements to be read. The default for xx is 00. The data set is either PARMLIB or a data set defined in the server JCL using ddname SDSFPARM.

### **parameters**

are the following:

#### **ASCBV31**

**YES** specifies that SDSF and SDSFAUX will attempt to use a 31-bit ASCB.

#### **REUSASID**

**YES** specifies that SDSF will attempt to use an ASID from the reusable address space pool. SDSFAUX is always started with REUSASID YES, regardless of the value of REUSASID that is specified on the START command of the main SDSF server.

#### **NOFOLDMSG or NOFM**

specifies that server messages should not be folded to uppercase; they are in mixed case. This is the default.

#### **FOLDMSG or FM**

specifies that server messages should be folded to uppercase.

#### **LOGCLASS or LC (class)**

specifies the default SYSOUT class for the server log. If no SDSFLOG is defined in the JCL, SDSF will dynamically allocate a log to this class. The default is A.

#### **LOGTYPE or LT**

specifies the destination of the server log. The options are as follows:

##### **FILE or FI**

specifies that the report will be written to file with the ddname SDSFLOG. This is the default, unless the SDSF server is running under MSTR.

##### **HARDCPY or HC**

specifies that messages issued during processing of ISFPARMS will be written to the hardcopy log (syslog). This is the default if the SDSF server is running under MSTR.

#### **ARM**

specifies that ARM registration will be done if ARM is active in the system. The server will register using the following values:

- element name: ISFserver-name@&sysclone
- element type: SYSSDSF
- termtype: ELEMENTYPE

#### **NOARM**

specifies that ARM registration will not be done.

## **NOPARM**

allows the server and SDSFAUX to be started, but ISFPRMxx is not processed. When the client accesses SDSF, a noparm condition is returned by the server.

When accessing SDSF, clients will fall back to ISFPARMS if they have authority to do so. The user must have READ access to the **SERVER.NOPARM** resource in the SDSF class so that ISFPARMS can be used instead of ISFPRMxx. See [“NOPARM fallback” on page 8](#) for a description of **SERVER.NOPARM**.

After the server is started in NOPARM mode, a **MODIFY REFRESH** command will ignore ISFPRMxx. You must restart the server without NOPARM for ISFPRMxx to be processed.

## **TRACE or TR**

specifies the trace option. Tracing should be used under the direction of IBM service personnel. The options are as follows:

### **ALL**

enables all trace records.

### **NONE**

disables all trace records.

### **ON**

enables a subset of trace records.

## **TRCLASS or TC (sysout-class).**

specifies the SYSOUT class to be used when dynamically allocating a trace file. If no ISFTRACE ddname is present in the server JCL, a trace will be allocated to SYSOUT using this class.

## **NODEBUG or NODB**

specifies that the server should not run in diagnostic mode. This is the default.

## **DEBUG or DB**

specifies that the server should run in diagnostic mode. This parameter is intended for use by IBM Service.

## **Notes to users**

1. You must start the server before any users access SDSF, so that the statements can be read.
2. You can start only a single server.
3. When tracing is active, significant performance degradation may occur. A significant amount of trace output may be generated.
4. If the installation has defined an SDSFLOG DD statement in the server proc and SDSF is running under MSTR, you must specify LOGTYPE=FILE. The default value of HARDCPY will cause the server log not to be written to SDSFLOG.
5. The SDSFAUX log is written to the HSFLOG data set allocated by the SDSF server address space. It contains messages related to processing.

## **Examples**

1. S SDSF

This command starts the SDSF server address space with the name SDSF.

2. S SDSF,M=01

This command starts the SDSF server address space with the name SDSF. Statements will be read from member ISFPRM01 of the data set defined in the server JCL. Member ISFPRM01 is made the default member for any subsequent **MODIFY server,REFRESH** commands.

3. S SDSF,M=01,P='FM,LC(H) '

This command starts the SDSF server address space, with the name SDSF. Statements will be read from member ISFPRM01 of the data set defined in the server JCL. Server messages will be folded to uppercase. The default SYSOUT class for the server log is H.



#### 4. S SDSFT .SDSF

This command starts the SDSF server with procedure name SDSFT and server name SDSF.

## Start Aux

Use the MODIFY,START command to start the SDSFAUX address space.

### Format

The syntax is shown in [Figure 1 on page 79](#).

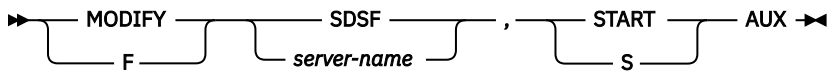


Figure 1. Start Aux Options — Syntax

#### **server-name**

is the name of the SDSF server.

#### **START or S**

starts the address space.

#### **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.

**Important:** Do not start the SDSFAUX address space manually using the **S SDSFAUX** operator command.

## Example

```
F SDSF,S AUX
```

This command starts the SDSFAUX address space.

## Start Feature

Use the MODIFY,START command to start an optional SDSF feature.

### Format

The syntax is shown in [Figure 2 on page 79](#).



Figure 2. Start Feature Options — Syntax

#### **server-name**

is the name of the SDSF server.

#### **START or S**

starts the feature.

#### **feature-name**

names the feature to be started. Valid values are:

#### **MFM**

Module Fetch Monitor feature.

## ELOG

Event Log feature.

Message ISF304I is issued after the START command is successfully submitted. If the feature was already active, message ISF363I is issued.

## Example

F SDSF,S MFM

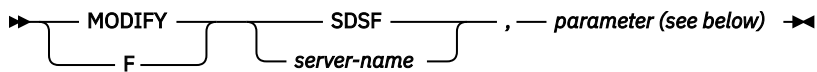
This command starts the MFM feature.

## Change server options

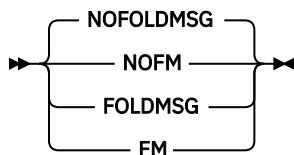
Use the MODIFY command to dynamically change server options. You can specify a test mode to cause the syntax of the statements to be checked without activating the statements.

### Format

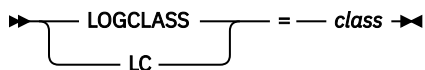
The syntax is shown in Figure 3 on page 80.



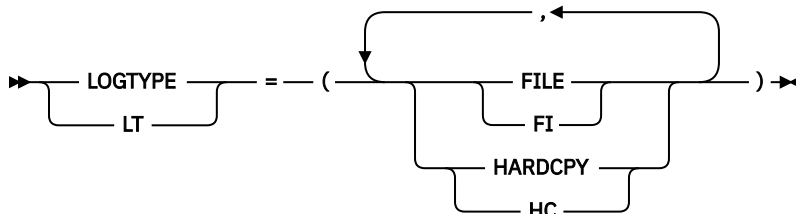
### Message Folding



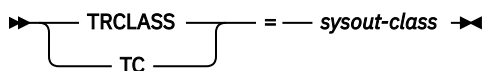
### Log Class



### Log Type



### Trace SYSOUT Class



### Debug

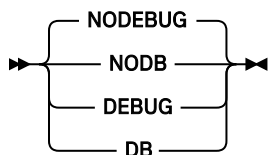


Figure 3. Change Server Options — Syntax

**server-name**

is the name of the SDSF server to be modified.

**TEST**

indicates that the syntax of the statements is to be syntax checked, but the statements are not to be activated.

**parameter**

is one of the following:

**NOFOLDMSG or NOFM**

specifies that server messages should not be folded to uppercase; they are in mixed case. This is the default.

**FOLDMSG or FM**

specifies that server messages be folded to uppercase.

**LOGCLASS or LC (class)**

specifies the default SYSOUT class for the server log. If no SDSFLOG is defined in the JCL, SDSF will dynamically allocate a log to this class. The default is A.

**LOGTYPE or LT**

specifies the destination of the server log. The options are as follows:

**FILE or FI**

specifies that the report will be written to file with the ddname SDSFLOG.

**HARDCPY or HC**

specifies that messages issued during processing of ISFPARMS will be written to the hardcopy log (syslog)

**TRCLASS or TC (sysout-class)**

specifies the SYSOUT class to be used when dynamically allocating a trace file. If no ISFTRACE ddname is present in the server JCL, a trace will be allocated to SYSOUT using this class.

**NODEBUG or NODB**

specifies that the server should not run in diagnostic mode.

**DEBUG or DB**

specifies that the server should run in diagnostic mode. This parameter is intended for use by IBM Service.

**Note to users**

When tracing is active, significant performance degradation may occur. A significant amount of trace output may be generated.

**Example**

```
F SDSF,LC(H)
```

This command changes the default SYSOUT class for the server log to H.

**Display Exit**

Use the MODIFY,D command to display invocation counts for the various system exits and ENF listener routines that have been installed by the SDSF server.

**Format**

The syntax is shown in [Figure 4 on page 82](#).

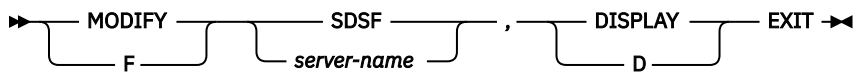


Figure 4. Display Exit Options — Syntax

**server-name**

is the name of the SDSF server.

**DISPLAY or D**

displays information about the server.

**EXIT**

shows invocation counts for the various system exits and ENF listener routines that have been installed by the SDSF server. The output from the DISPLAY EXIT command is message ISF356I.

## Example

F SDSF,D EXIT

This command displays invocation counts for the various system exits and ENF listener routines that have been installed by the SDSF server.

## Display Feature

Use the MODIFY,D command to display the current duration and limit of a feature and statistics about the data collection for the feature.

### Format

The syntax is shown in [Figure 5 on page 82](#).

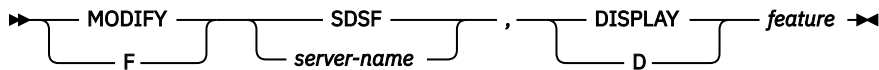


Figure 5. Display Feature Options — Syntax

**server-name**

is the name of the SDSF server.

**DISPLAY or D**

displays information about the server.

**feature-name**

specifies which feature to display information for. Possible values are:

**MFM**

Module Fetch Monitor (MFM) feature. The output from the display command for MFM is message ISF362I showing the current duration and limit of the MFM feature and statistics about the data collection. If the MFM feature is not active, message ISF367I is issued.

**ELOG**

Event Log (ELOG) feature. The output from the display command for ELOG is message ISF371I showing the current duration and limit of the ELOG feature and statistics about the data collection. If the ELOG feature is not active, message ISF367I is issued.

## Example

F SDSF,D MFM

This command displays the current duration and limit of the MFM feature and statistics about the data collection via message ISF362I.

## Display Help

Use this command to display the syntax of available SDSF modify operator commands.

### Format

The syntax is shown in [Figure 6 on page 83](#).

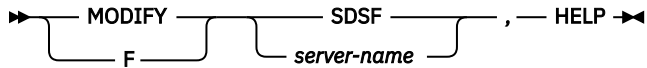


Figure 6. Display Help Options — Syntax

#### **server-name**

is the name of the SDSF server.

#### **HELP**

shows the syntax of available SDSF modify operator commands. The output from HELP is message ISF361I.

### Example

F SDSF,HELP

This command displays the syntax of available SDSF MODIFY operator commands.

## Display JES

Use the MODIFY,D command to display known systems in the sysplex and JES subsystems in the MAS.

### Format

The syntax is shown in [Figure 7 on page 83](#).

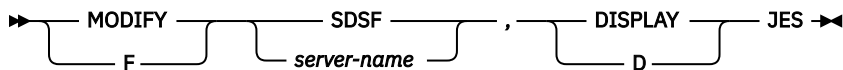


Figure 7. Display JES Options — Syntax

#### **server-name**

is the name of the SDSF server.

#### **DISPLAY or D**

displays information about the server.

#### **JES**

shows known systems in the sysplex and JES subsystems in the MAS. The output from the DISPLAY JES command is message ISF351I.

**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.

### Example

F SDSF,D JES

This command displays known systems in the sysplex and JES subsystems in the MAS.

## Display Services

Use the MODIFY,D command to display SDSF service invocation counts and date stamps.

## Format

The syntax is shown in [Figure 8 on page 84](#).

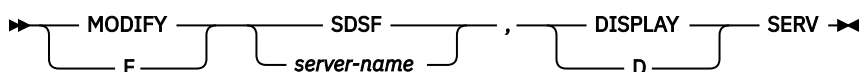


Figure 8. Display Services – Syntax

### **server-name**

is the name of the SDSF server.

### **DISPLAY or D**

displays information about the server.

### **SERV**

shows service invocation counts and date stamps. The output from DISPLAY SERV is message ISF354I.

## Example

```
F SDSF,D SERV
```

This command displays a list of SDSF service invocations with associated counts and date stamps.

## Display Systems

Use the MODIFY,D command to display information about the systems in the sysplex known to SDSF.

## Format

The syntax is shown in [Figure 9 on page 84](#).

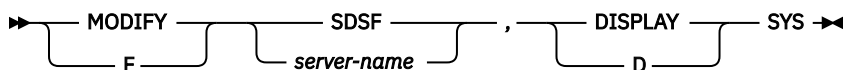


Figure 9. Display Systems Options – Syntax

### **server-name**

is the name of the SDSF server.

### **DISPLAY or D**

displays information about the server.

### **SYS**

produces a list of systems in the sysplex, their versions, and their statuses. The output from DISPLAY SYS is message ISF349I.

## Example

```
F SDSF,D SYS
```

This command displays a list of systems in the sysplex, their versions, and their statuses.

## Display Task

Use the MODIFY,D command to display the CPU consumption for both the SDSF and SDSFAUX address spaces by task name.

## Format

The syntax is shown in [Figure 10 on page 85](#).

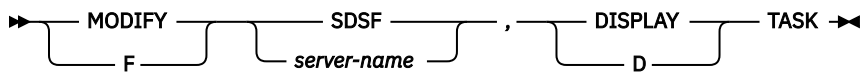


Figure 10. Display Task Options — Syntax

**server-name**

is the name of the SDSF server.

**DISPLAY or D**

displays information about the server.

**TASK**

shows the CPU consumption for both the SDSF and SDSFAUX address spaces by task name. The output from the DISPLAY TASK command is message ISF353I.

**Example**

F SDSF,D TASK

This command displays the CPU consumption for both the SDSF and SDSFAUX address spaces by task name.

## Display User

Use the MODIFY,D command to display the active connected users of the SDSF server.

**Format**

The syntax is shown in [Figure 11 on page 85](#).

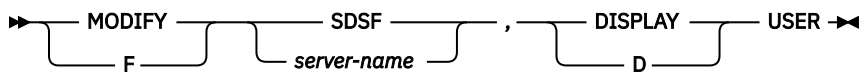


Figure 11. Display User Options — Syntax

**server-name**

is the name of the SDSF server.

**DISPLAY or D**

displays information about the server.

**USER**

shows the active connected users of the SDSF server. The output from the DISPLAY USER command is message ISF352I.

**Example**

F SDSF,D USER

This command displays the active connected users of the SDSF server.

## Display information about server communications

Use this command to display information about the servers and the communication between SDSF servers.

**Format**

The syntax is shown in [Figure 12 on page 86](#).

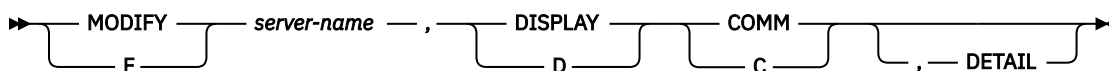


Figure 12. Display Information About Server Communications — Syntax

**server-name**

is the name of the SDSF server.

**DISPLAY or D**

displays information about the server, including the status of the server and server communications

**COMM or C**

displays summary information about the XCF communications being used by the SDSF server. The output from the DISPLAY COMM command is message ISF315I.

**DETAIL**

displays detailed information about each XCF task. The output from the DISPLAY COMM,DETAIL command is message ISF355I.

## Refresh Feature

Use this command to reset and clear all existing MFM data that has been collected.

### Format

The syntax is shown in [Figure 13 on page 86](#).

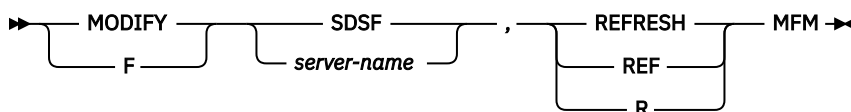


Figure 13. Refresh Feature— Syntax

**server-name**

is the name of the SDSF server to be modified.

**REFRESH**

resets and clears all existing MFM data that has been collected.

**MFM**

specifies the MFM feature is to be refreshed.

### Example

```
F SDSF ,R MFM
```

This command refreshes and clears all existing MFM data that has been collected.

## Refresh ISFPARMS

Use this command to refresh ISFPARMS statements. You can specify a test mode to cause the syntax of the statements to be checked without activating the statements.

### Format

The syntax is shown in [Figure 14 on page 87](#).



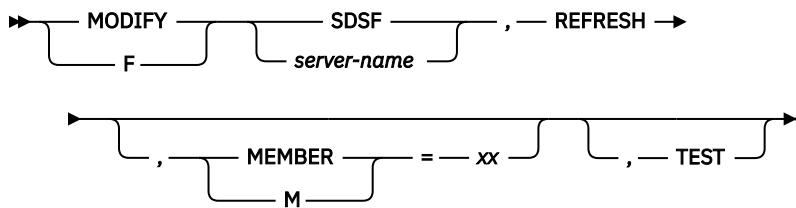


Figure 14. Refresh ISFPARMS – Syntax

#### **server-name**

is the name of the SDSF server to be modified.

#### **REFRESH**

indicates that a new set of statements is to be processed.

#### **MEMBER or M(xx)**

specifies the suffix of member name ISFPRMxx, which contains the statements to be read. The data set is either PARMLIB or a data set defined in the server JCL using ddname SDSFPARM. The default for xx is whatever was used to start the server. For example, if you start the server with S SDSF , M=01, then refresh it with F SDSF , REFRESH, the member suffix used for the refresh is 01. If no suffix was specified on the START command, the suffix default is 00. When MAPDEF statements are defined in the server JCL, the data set pointed to by the MAPPARM ddname is also read.

#### **TEST**

indicates that the syntax of the statements is to be syntax checked, but the statements are not to be activated.

### **Notes to users**

1. A MODIFY REFRESH command processes only the statements defined in the current input stream. Any statements processed prior to the refresh are discarded when the new parameters are activated. If an error occurs, the current ISFPARMS remain in effect.
2. When SDSF is running on multiple systems in either a MAS or a sysplex, the SDSF server must be active on each system. Although the servers can share the same parameter data set, a MODIFY REFRESH command must be issued against each server.

### **Examples**

1. F SDSF , REFRESH

This command activates a new set of statements for server SDSF. Because no member is specified, SDSF uses the member that was used when the server was started.

2. F SDSFK , REFRESH , TEST

This command causes the syntax of statements to be checked for server SDSFK. The statements will not be activated.

3. F SDSFT , REFRESH , M=01 , TEST

This command causes the syntax of statements to be checked for server SDSFT. Statements will be read from member ISFPRM01 of the data set defined in the server JCL. The statements will not be activated.

### **Refresh JES**

Use this command to manually refresh the SDSF server list of known JES subsystems. Although SDSF maintains a dynamic list of known JES subsystems, there can be instances where system problems prevent the expected notifications from arriving at the SDSF server. This command requests a manual update of the known JES subsystems list.

## Format

The syntax is shown in [Figure 15 on page 88](#).

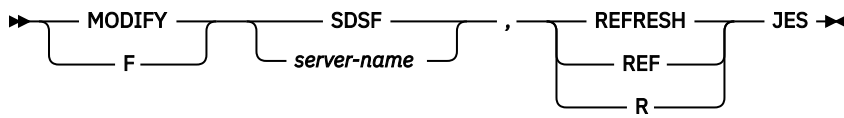


Figure 15. Refresh JES — Syntax

### **server-name**

is the name of the SDSF server to be modified.

### **REFRESH**

requests manual update of the known JES subsystems list.

### **JES**

specifies that the JES subsystems list is to be updated.

## Example

```
F SDSF,R JES
```

This command requests a manual update of the known JES subsystem list.

## Refresh SYS

Use this command to manually refresh the SDSF server list of known z/OS systems in the sysplex. Although SDSF maintains a dynamic list of known z/OS systems in the sysplex, there can be instances where system problems prevent the expected notifications from arriving at the SDSF server. This command requests an manual update of the known z/OS systems list.

## Format

The syntax is shown in [Figure 16 on page 88](#).

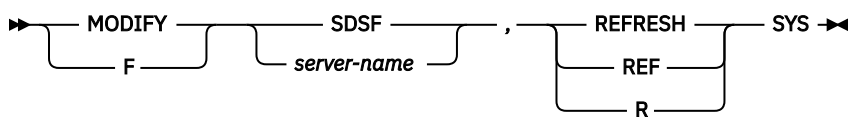


Figure 16. Refresh SYS — Syntax

### **server-name**

is the name of the SDSF server to be modified.

### **REFRESH**

requests manual update of the known z/OS systems list.

### **SYS**

specifies that the z/OS systems list is to be updated.

## Example

```
F SDSF,R SYS
```

This command requests a manual update of the known z/OS systems list.

## Set Sample

Use the MODIFY SET command to override 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.

## Format

The syntax is shown in [Figure 17 on page 89](#).

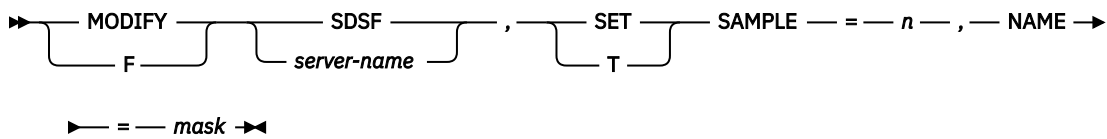


Figure 17. Set Sample Options – Syntax

### **server-name**

is the name of the SDSF server.

### **SET**

specifies SET server information.

### **SAMPLE(n)**

specifies the number of seconds between each data gathering sample.

### **NAME(mask)**

specifies the name mask for the affected data gathering agent(s). An asterisk (\*) can be used to specify zero or more masking characters. A percent sign (%) can be used to specify a single masking character.

## Example

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.

## Set Trace

Use the MODIFY SET TRACE command to override 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.

## Format

The syntax is shown in [Figure 18 on page 89](#).

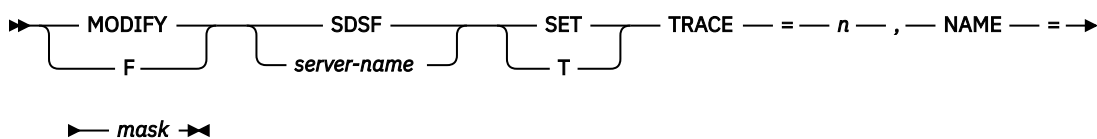


Figure 18. Set Trace Options – Syntax

### **server-name**

is the name of the SDSF server.

### **SET**

specifies SET server information.

**TRACE(level)**

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(mask)**

specifies the name mask for the affected data gathering agent(s). An asterisk (\*) can be used to specify zero or more masking characters. A percent sign (%) can be used to specify a single masking character.

**Example**

```
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(*)
```

**Note:** The command accepts either = or () syntax. F SDSF ,T TRACE=0,NAME=\* is also valid.

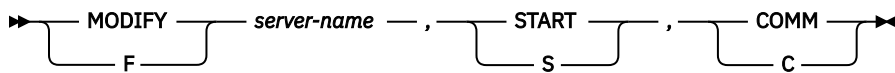
This command turns off tracing in all agents.

**Start communications**

Use this command to logically start communications between SDSF servers. You might use it if a server has been previously stopped with the STOP command or if XCF has been stopped.

**Format**

The syntax is shown in [Figure 19 on page 90](#).



*Figure 19. Start Communications — Syntax*

**server-name**

is the name of the SDSF server.

**START or S**

indicates that the action is start.

**COMM or C**

causes communication between servers to be started.

**Stop communications**

Use this command to stop communications between SDSF servers. You might use this command if a server is known to be unavailable, so that SDSF does not send requests to that server or wait for responses from it.

**Format**

The syntax is shown in [Figure 20 on page 91](#).

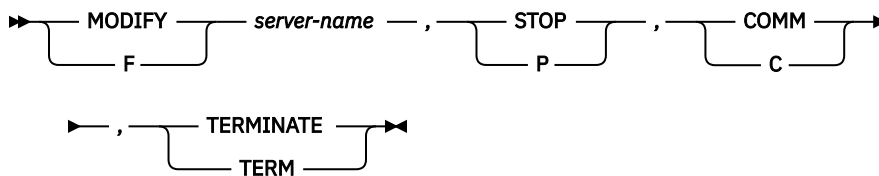


Figure 20. Stop Communications — Syntax

**server-name**

is the name of the SDSF server.

**STOP or P**

indicates that the action is stop.

**COMM or C**

causes communication between servers to be stopped.

**TERMINATE or TERM**

ends communications. TERM can also be used to stop communications initialization.

## Stop the SDSF server

Use the STOP command to end the server.

### Format

The syntax of the STOP command is shown in [Figure 21 on page 91](#).

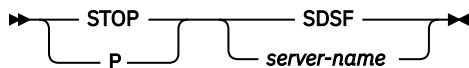


Figure 21. STOP the SDSF Server — Syntax

**server-name**

is the name of the SDSF server to be stopped.

### Example

P SDSF

This command stops server SDSF.

## Stop Aux

Use the MODIFY,STOP command to stop the SDSFAUX address space.

### Format

The syntax is shown in [Figure 22 on page 91](#).

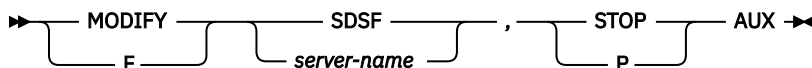


Figure 22. Stop Aux Options — Syntax

**server-name**

is the name of the SDSF server.

**STOP or P**

stops the address space.

## 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.

**Important:** As of z/OS 2.3, do not stop the SDSFAUX address space manually using the **P SDSFAUX** operator command.

## Example

```
F SDSF,P AUX
```

This command stops the SDSFAUX address space.

## Stop Feature

Use the MODIFY,STOP command to stop an optional SDSF feature.

### Format

The syntax is shown in [Figure 23 on page 92](#).

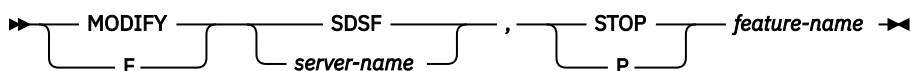


Figure 23. Stop Feature Options — Syntax

### *server-name*

is the name of the SDSF server.

### **STOP or P**

stops the feature.

### *feature-name*

names the feature to be stopped. Valid values are:

#### **MFM**

Module Fetch Monitor feature

#### **ELOG**

Event Log feature

Message ISF304I is issued after the STOP command is successfully submitted. If the feature was not active, message ISF364I is issued.

## Example

```
F SDSF,P ELOG
```

This command stops the ELOG feature.

## Switch Log

Use the MODIFY,SWITCH command to close and reopen the HSFLOG DDname allocated to the SDSF server.

### Format

The syntax is shown in [Figure 24 on page 93](#).

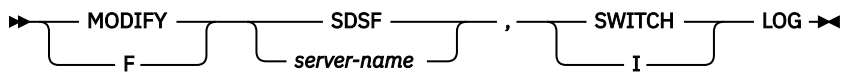


Figure 24. Switch Log Options — Syntax

**server-name**

is the name of the SDSF server.

**SWITCH or 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.

**Example**

F SDSF,I LOG

This command closes and reopens the HSFLOG DDname allocated to the SDSF server.

## Switch Trace

Use the MODIFY,SWITCH command to close and reopen the HSFTRACE DDname allocated to the SDSF server.

**Format**

The syntax is shown in [Figure 25 on page 93](#).

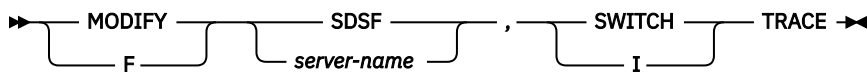


Figure 25. Switch Trace Options — Syntax

**server-name**

is the name of the SDSF server.

**SWITCH or I**

switches the trace log.

**TRACE**

closes and reopens the HSFTRACE DDname allocated to the SDSF server. This allows previous output queued to HSFTRACE to be spun.

**Example**

F SDSF,I TRACE

This command closes and reopens the HSFTRACE DDname allocated to the SDSF server.





# Chapter 4. Columns on the SDSF panels

This topic describes the columns on SDSF panels that display data in a tabular format. Use this information when coding:

- FLD statements or ISFFLD macros, to customize which columns are included on a tabular panel, as well as their order, titles and widths.
- REXX execs or Java programs. Reference columns by their *names* rather than by their *titles*.

Users can use the **ARRANGE** command to reorder or change the widths of the columns, and to hide columns to reduce left/right scrolling. Hidden columns are an alternative to suppressing columns with multiple field lists in ISFPARMS. Hidden columns are not visible on the tabular panels but you can still sort and filter them. The Show Columns pop-up displays all column values, even if the column is hidden. **ARRANGE** is described in the online help.

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) and PB (petabytes).

The fields on the title lines of SDSF panels cannot be customized. They are described in the online help.

In the tables that follow, 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.

## Action Help panel (ACTH)

The ACTH command displays a table of the action characters that can be issued in SDSF tabular panels.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 32. 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  |

Table 32. Columns on the ACTH Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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 Diagnostics 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 considered to be initiators are excluded from the list. You can direct the AD command to include them by using the optional ALL keyword.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 33. 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   |
| <b>SYSNAME</b>  | SysName           | 8     | System name  |
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system  |

Table 33. Columns on the AD Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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. |

## Address Space Memory panel (AS)

The Address Space Memory (AS) panel shows system storage utilization for all address spaces in the sysplex. 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.

Actions on the AS panel provide access to the Job Memory (JM) panel and the Job Device (JD) panel for the selected address space. JM complements AS by showing subpool usage within the address space. JD shows allocations, TCP/IP connections, and coupling facility connection (CF) usage.

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

- **jobname** *jobid*, where *jobid* is optional and is the job type (JOB, TSU, STC, J, T, S) followed by the job number.
- **jobname** *job-number*, where *job-number* is optional
- *job-number*

In REXX execs and Java programs, reference columns by name rather than by title.

Table 34. 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                                    |

Table 34. Columns on the AS Panel (continued)

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <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   |
| <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> | SESQA%            | 6     | System ESQA usage percentage   |
| <b>AUXPCT</b>   | Aux%              | 4     | Auxiliary storage utilization  |
| <b>REALAFC</b>  | RealAFC           | 8     | Current real storage available frame count   |

Table 34. Columns on the AS Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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  |
| <b>MOBJAUX</b>   | MemObjAux         | 9     | Auxiliary storage slots backing memory objects  |
| <b>STDAT</b>     | StartDate         | 19    | Start date  |
| <b>DMEM</b>      | DMem              | 8     | Amount of dedicated memory assigned (GB)  |
| <b>DMEMPCT</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. |

## Authorized Program Facility panel (APF)

The APF panel shows the data sets defined to the authorized program facility (APF) for each system in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 35. 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   |

Table 35. Columns on the APF Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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  |
| <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.   |

## Catalog Data Sets panel (CAT)

The Catalog Data Sets (CAT) panel displays the ICF catalogs that have been used since the system was IPLed.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 36. 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)                   |

Table 36. Columns on the CAT Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 37. Columns on the JRJC Panel

| Column name        | Title (Displayed) | Width | Description  |
|--------------------|-------------------|-------|--|
| <b>TYPE</b>        | TYPE              | 8     | Resource name. This is the fixed field.  |
| <b>JOBCL</b>       | Class             | 8     | Job class  |
| <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 jobs in this class  |
| <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 <b>FLDENT</b> statement or through 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 38. Columns on the CF Panel

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <b>CFNAME</b>     | CFNAME            | 8     | Coupling facility name. This is the fixed field.  |
| <b>STATUS</b>     | Status            | 9     | Coupling facility status  |
| <b>CFLEVEL</b>    | CFLevel           | 7     | Coupling facility code level  |
| <b>PARTITION</b>  | Partition         | 9     | Partition number  |
| <b>PROC</b>       | Proc              | 4     | Number of processors for the coupling facility  |
| <b>SYSCOUNT</b>   | SysCount          | 8     | Number of systems connected to the coupling facility  |
| <b>STRCOUNT</b>   | StrCount          | 8     | Number of structures in the coupling facility   |
| <b>SIZE</b>       | Size              | 8     | Size in Kb for coupling facility  |
| <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 panel (CFC) allows authorized users to display all coupling facility connections defined to the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 39. Columns on the CFC Panel

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>CONNNAME</b> | CONNNAME          | 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  |
| <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. |

## CF Data Sets panel (CFD)

The CF Data Sets (CFD) panel allows authorized users to display coupling facility data sets defined to the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 40. 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 Structure panel (CFS)

The CF Structure (CFS) panel allows authorized users to display all coupling facility structures defined to the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 41. 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   |

Table 41. Columns on the CFS Panel (continued)

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <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   |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 42. 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>CHANGEPCCT</b>   | SyncToAsync%      | 14    | Percentage of asynchronous requests changed from synchronous to asynchronous  |
| <b>DELAYPCT</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>SYNCTOASYNCT</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 COLSHELP command displays a table of the columns that can be displayed on SDSF tabular panels. You can use the COLSHELP command to find column names for use in writing REXX execs and Java programs, which reference columns by name rather than by title.

Table 43. Columns on the COLH Panel

| 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  |

Table 43. Columns on the COLH Panel (continued)

| Column name         | Title (Displayed) | Width | Description   |
|---------------------|-------------------|-------|---|
| <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)           |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 44. 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   |

Table 44. Columns on the CMDH Panel (continued)

| Column name   | Title (Displayed) | Width | Description   |
|---------------|-------------------|-------|---|
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 45. Columns on the CMO Panel

| Column name     | Title (Displayed) | Width | Description                                       |
|-----------------|-------------------|-------|---|
| <b>JNAME</b>    | JOBNAME           | 8     | Command name. This is the fixed field.            |
| <b>START</b>    | Start-Address     | 17    | Starting address of object                        |
| <b>JES</b>      | End-Address       | 17    | Ending address of object                          |
| <b>JOBID</b>    | JobID             | 8     | Job ID  |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space ID (hexadecimal)                    |
| <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)               |

Table 45. Columns on the CMO Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## Common Storage Subpools panel (CS)

The Common Storage Subpools (CS) panel allows authorized users to view common storage summary usage by subpool and key.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 46. 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 Subpool Details panel (CSI)

The Common Storage Subpool Details (CSI) panel allows authorized users to view common storage details for a selected subpool and key.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 47. 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. |

## Common Storage Remaining panel (CSR)

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

When JESplex scoping is in effect, the CSR panel will return data only for those systems that are in the same JESplex as the user.

**Note:** To see rows on the CSR panel, DIAGxx in SYS1.PARMLIB must contain the following parameters:  
VSM TRACK CSA(ON) SQA(ON).



In REXX execs and Java programs, reference columns by name rather than by title.

Table 48. 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)   |
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 49. Columns on the DASH panel

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>ATTRIBUTE</b> | Attribute         | 12    | The name of the attribute   |
| <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 authorized users to show online DASD volume activity in the system.

When JESplex scoping is in effect, the DEV panel returns data only for those systems that are in the same JESplex as the user.

**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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 50. 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)  |
| <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   |

Table 50. Columns on the DEV Panel (continued)

| Column name   | Title (Displayed) | Width | Description   |
|---------------|-------------------|-------|---|
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 51. 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)                                      |

Table 51. Columns on the DEVS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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   |
| <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. |

## Display Active Users panel (DA)

The DA panel shows information about MVS address spaces (jobs, started tasks, and TSO users) that are running.

As of SDSF 2.5, the DA panel uses data gatherers running in the SDSFAUX address space and caches the information centrally.

The data gatherer supports both the RMF and non-RMF case. RMF is used when RMF is installed and is not explicitly disabled by the installation. When RMF is not available, a non-RMF data gatherer is used. Note that the non-RMF data gatherer provides only a small subset of the columns available as opposed to the RMF case. Columns for which RMF is required are indicated by <sup>RMF</sup>.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 52. Columns on the DA 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>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   |
| <b>OWNERID</b> | Owner             | 8      | User ID of job owner, or default values of +++++++ + 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   |

Table 52. Columns on the DA Panel (continued)

| Column Name                    | Title (Displayed) | Width | Description  |
|--------------------------------|-------------------|-------|--|
| <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)  |
| <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. |

Table 52. Columns on the DA Panel (continued)

| Column Name                     | Title (Displayed) | Width | Description   |
|---------------------------------|-------------------|-------|---|
| <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  |
| <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)  |

Table 52. Columns on the DA Panel (continued)

| Column Name                    | Title (Displayed) | Width | Description   |
|--------------------------------|-------------------|-------|---|
| <b>SYSLEVEL</b> <sup>HSF</sup> | SysLevel          | 25    | Level of the operating system   |
| <b>XCFGROUP</b>                | XCFGGroup         | 8     | JES MAS XCF group name  |
| <b>SSNAME</b>                  | SSName            | 6     | Creating subsystem name   |
| <b>PAGAUX</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.

## Dynamic Exits panel (DYNX)

The Dynamic Exits (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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 53. Columns on the DYNX Panel

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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   |

Table 53. Columns on the DYNX Panel (continued)

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <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   |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 54. Columns on the EDT Panel

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <b>UNITNAME</b> | UNITNAME          | 8     | Unit name for the device. This is the fixed field. |
| <b>TYPE</b>     | Type              | 8     | Device type  |
| <b>DEVCLASS</b> | DevClass          | 8     | Device class                                       |
| <b>DEVCOUNT</b> | DevCount          | 8     | Number of devices                                  |
| <b>VIO</b>      | VIO               | 3     | Unit name eligible for VIO (yes or no)             |
| <b>ETOKEN</b>   | EToken            | 8     | Unit name look-up value                            |
| <b>SYSNAME</b>  | SysName           | 8     | System name  |



Table 54. Columns on the EDT Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## Enclaves panel (ENC)

The Enclaves panel shows enclaves.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 55. 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. |

Table 55. Columns on the ENC Panel (continued)

| Column name                    | Title (Displayed) | Width | Description   |
|--------------------------------|-------------------|-------|---|
| <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>ZAAPCPTM</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.   |
| <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. |

**Note:** This column shows time consumed by dispatchable units running in the enclave on the local system. For a multisystem enclave, time consumed on other systems is not included. The value may decrease between invocations if the transaction is restarted to avoid an overflow of internal accumulators.

## Enqueue panel (ENQ)

Enqueuing is the mechanism by which a program requests control of a serially reusable resource. The Enqueue (ENQ) panel allows authorized users to display active system enqueues. The panel shows the major and minor names for the enqueue, 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, accessing the ENQ panel shows all enqueues with major name SYSDSN for the local system. As of V2R4, the **ENQD** command shows locally-held enqueues 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.

**Note:** Major and minor names can contain hexadecimal characters that cannot be displayed by SDSF. SDSF translates control characters (0x00 through 0x3F) to periods. Other characters are not translated and their display varies based on factors such as the emulator. You can use the D action character to display major and minor names in hexadecimal, but the length is limited by the message text in the response.

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. **ENQC** does not accept any parameters.

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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 56. 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  |

Table 56. Columns on the ENQ Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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. |

## Event Log panel (ELOG)

The Event Log (ELOG) panel displays important system events and, if the data is available, allows you view the OPERLOG around the time that the event occurred. To view data on the ELOG panel, the ELOG feature must be enabled either via a FEATURE statement in the current ISFPRMxx or by issuing a MODIFY command. The events are assigned names and categories by the ELOG data collector and are documented in the topic “The Event Log (ELOG) feature” on page 39.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 57. Columns on the ELOG Panel

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>NAME</b>      | NAME              | 16    | The event name. This is the fixed field.  |
| <b>SYSNAME</b>   | SysName           | 8     | System name where the event occurred  |
| <b>DATEE</b>     | Date              | 22    | Date stamp of event   |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 58. 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   |
| <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                         |

Table 58. Columns on the EMCS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## File Systems panel (FS)

The File System (FS) panel allows authorized users to list the file systems being used by the system.

When JESplex scoping is in effect, the FS panel returns data only for those systems that are in the same JESplex as the user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 59. Columns on the FS Panel

| Column name      | Title (Displayed) | Width | Description  |
|------------------|-------------------|-------|--|
| <b>DEVICE</b>    | DEVICE            | 6     | Unique device value (character format). This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>PATH</b>      | Path              | 36    | Directory name where file system is mounted (truncated to 63 characters)                                     |
| <b>TYPE</b>      | Type              | 8     | File system type   |
| <b>MODE</b>      | Mode              | 4     | File system mode (READ or RDWR)  |
| <b>OWNER</b>     | Owner             | 8     | System that owns this file system  |
| <b>DSNAME</b>    | Name              | 44    | Name of file system  |
| <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  |

Table 59. Columns on the FS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 60. Columns on the FXE Panel

| Column name         | Title (Displayed) | Width | Description  |
|---------------------|-------------------|-------|--|
| <b>NAME</b>         | NAME              | 48    | Product name. This is the fixed field.               |
| <b>FUNCTION</b>     | Function          | 48    | Function name  |
| <b>PRODUCTID</b>    | ProdID            | 8     | Product ID   |
| <b>PRODUCTREL</b>   | ProdRel           | 8     | Product release                                      |
| <b>INSTANCEID</b>   | InstanceID        | 16    | Instance ID  |
| <b>ENABLED</b>      | Enabled           | 7     | Function enabled (YES or NO)                         |
| <b>USED</b>         | Used              | 4     | Function used (YES or NO)                            |
| <b>USED COUNT</b>   | UsedCount         | 9     | Function usage count                                 |
| <b>ATTRIBUTES</b>   | Attributes        | 10    | Function attributes count                            |
| <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                                 |

Table 60. Columns on the FXE Panel (continued)

| Column name        | Title (Displayed) | Width | 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 authorized users to list all generic tracking events that have been recorded by the system.

When JESplex scoping is in effect, the GT panel returns data only for those systems that are in the same JESplex as the user.

**Note:** The IBM generic tracker facility must be active in order to see rows on the SDSF GT panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 61. Columns on the GT Panel

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>OWNER</b>     | OWNER             | 8     | Owner of tracked instance. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SOURCE</b>    | Source            | 8     | Source of tracked instance  |
| <b>PROGRAM</b>   | Program           | 8     | Program name  |
| <b>PROGOFs</b>   | ProgramOffset     | 16    | Offset into program issuing track request   |
| <b>EVENTDESC</b> | EventDesc         | 64    | Event description   |
| <b>EVENTDATA</b> | EventData         | 32    | Data associated with the event  |
| <b>EVENTJOB</b>  | EJobName          | 9     | Event job name  |
| <b>HOMEJOB</b>   | HJobName          | 9     | Home job name   |
| <b>EVENTASID</b> | EASIDX            | 6     | Event address space identifier (hexadecimal)  |
| <b>HOMEASID</b>  | HASIDX            | 6     | Home address space identifier (hexadecimal)   |
| <b>AUTH</b>      | Auth              | 4     | Authorized indicator (YES or NO)  |
| <b>COUNT</b>     | Count             | 5     | Number of events  |
| <b>FIRST</b>     | First-Date-Time   | 19    | Timestamp of first event  |
| <b>SPATHLEN</b>  | SPathLen          | 8     | Actual length of source path  |



Table 61. 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. |

## Health Check History panel (CKH)

The CKH panel shows information about instances of a check selected from the CK panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 62. Columns on the CKH Panel

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <b>COUNT</b>   | Count             | 17    | Count of this instance of the check                 |
| <b>OWNER</b>   | CheckOwner        | 16    | Check owner   |
| <b>STATUS</b>  | Status            | 18    | Check status  |
| <b>RESULT</b>  | Result            | 6     | Result code from 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>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  |

## Health Checker panel (CK)

The CK panel shows information from IBM Health Checker for z/OS about the active checks.

**Note:** IBM Health Checker for z/OS must be active in order to see rows on the SDSF CK panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 63. 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. |

Table 63. Columns on the CK Panel (continued)

| Column name                      | Title (Displayed)         | Width | Description  |
|----------------------------------|---------------------------|-------|--|
| <b>OWNER</b>                     | CheckOwner                | 16    | Check owner  |
| <b>STATE</b>                     | State                     | 18    | Check state  |
| <b>STATUS</b>                    | Status                    | 18    | Check status   |
| <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   |

Table 63. Columns on the CK Panel (continued)

| Column name      | Title (Displayed) | Width | Description  |
|------------------|-------------------|-------|--|
| <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)   |
| <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>PARAM</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  |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 64. Columns on the H 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  |       |
| <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  |       |

Table 64. Columns on the H Panel (continued)

| Column name     | Title (Displayed)     | Width                | Description  | Delay          |
|-----------------|-----------------------|----------------------|--|----------------|
| <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)                        |                |
| <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              |

Table 64. Columns on the H Panel (continued)

| Column name      | Title (Displayed)     | Width | Description   | Delay |
|------------------|-----------------------|-------|---|-------|
| <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     |
| <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.

## Initiator panel (INIT)

The Initiator panel allows users to display information about JES initiators that are defined in the active JES on their CPUs.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 65. 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  |
| <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)   |

Table 65. Columns on the INIT Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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.

## Input Queue panel (I)

The Input Queue panel allows the user to display information about jobs, started tasks, and TSO users on the JES input queue or executing.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 66. 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)  |       |



Table 66. Columns on the I Panel (continued)

| Column name     | Title (Displayed) | Width                | Description  | Delay          |
|-----------------|-------------------|----------------------|--|----------------|
| <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  |                |
| <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      |

Table 66. Columns on the I Panel (continued)

| Column name      | Title (Displayed)     | Width | Description  | Delay          |
|------------------|-----------------------|-------|--|----------------|
| <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  |                |
| <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)        |                |

Table 66. Columns on the I Panel (continued)

| Column name       | Title (Displayed) | Width | Description   | Delay |
|-------------------|-------------------|-------|---|-------|
| <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)  |       |
| <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)   |       |

Table 66. Columns on the I Panel (continued)

| Column name     | Title (Displayed) | Width | Description   | Delay |
|-----------------|-------------------|-------|---|-------|
| <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.

## 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 access the CKPT panel by using the JC action character from the JES panel.

Rows for checkpoints that are in use are highlighted. This panel uses the SYSNAME value to control which systems are shown.

You can use fast path select (S) and filter commands to customize the rows being shown. The command accepts a single parameter for the checkpoint file name pattern.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 67. 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).                    |

Table 67. Columns on the CKPT Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## JESInfo panel (JRI)

The JESInfo (JRI) panel shows 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.

Because the panel shows MAS-wide resources, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 68. 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  |

Table 68. Columns on the JESInfo Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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  |
| <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 JESInfo by Job (JRJ) panel shows 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.

Because the panel shows jobs, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 69. Columns on the JESInfo by Job Panel

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <b>JOBNAME</b>  | NAME              | 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>NAME</b>     | Resource          | 8     | Resource name  |
| <b>USE</b>      | Usage             | 5     | Resource usage   |
| <b>USEPCT</b>   | Usage%            | 6     | Resource usage percentage  |
| <b>USERATE</b>  | UsageRate         | 9     | Resource usage per minute  |
| <b>NPRIVMAX</b> | NPrivMax          | 8     | Non-privileged maximum   |
| <b>SAMPTIME</b> | SampleTime        | 19    | Timestamp when sample obtained   |
| <b>MEMBER</b>   | Member            | 8     | Member name for active job   |
| <b>JESNAME</b>  | JESName           | 7     | JES subsystem name   |
| <b>SYSNAME</b>  | SysName           | 8     | System name  |

Table 69. Columns on the JESInfo by Job Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>SYSLEVEL</b> | SysLevel          | 25    | Level of the operating system   |
| <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. |

## 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. 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 70. 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>TOTALTGPCT</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>TOTALJOEPCT</b>  | TotalJOE%         | 9     | MAS job output element usage percentage      |

Table 70. 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. |

## JES Subsystem panel (JES)

The JES subsystem (JES) panel shows all known JES subsystems in the system.

This panel uses the SYSNAME value to control which systems are shown on the panel. 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 71. 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>  | XCFGroup          | 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.   |



Table 71. Columns on the JES Subsystem Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## JESPLEX panel (JP)

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. For a description of the columns, see “Multi-Access Spool panel (MAS) and JESPLEX (JP) panel” on page 172.

## 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.

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. Rows that represent a class with at least one job active are highlighted.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 72. 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   |

Table 72. Columns on the JCM Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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 Class panel (JC)

The JC panel allows the user to display information about job classes.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 73. Columns on the JC Panel

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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)  |
| <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)  |

Table 73. Columns on the JC Panel (continued)

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <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)  |
| <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)   |

Table 73. Columns on the JC Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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. |

## Job Common Storage panel (JCS)

The Job Common Storage panel allows authorized users to view information about all allocated blocks of common storage.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 74. Columns on the JCS Panel

| Column name    | Title (Displayed) | Width | Description  |
|----------------|-------------------|-------|--|
| <b>ADDRESS</b> | ADDRESS           | 7     | Storage area address. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>SIZE</b>    | Size              | 10    | Block size   |
| <b>SP</b>      | SP                | 3     | Subpool of storage   |
| <b>KEY</b>     | Key               | 3     | Storage key  |

Table 74. Columns on the JCS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>TYPE</b>     | Type              | 4     | Storage type SQA/CSA  |
| <b>ORPHAN</b>   | Orphan            | 6     | Orphaned storage (Yes/No)   |
| <b>JNAME</b>    | JobName           | 8     | Requestor job   |
| <b>JOBID</b>    | JobID             | 8     | Job ID  |
| <b>ASID</b>     | ASID              | 5     | Address space ID  |
| <b>ASIDX</b>    | ASIDX             | 5     | Address space ID in hexadecimal   |
| <b>GQE</b>      | GQE               | 8     | Block address   |
| <b>CAUB</b>     | CAUB              | 8     | CAUB address  |
| <b>ADATE</b>    | AllocDate         | 19    | Storage allocation timestamp  |
| <b>ODATE</b>    | OrphanDate        | 19    | Storage orphaned timestamp  |
| <b>RETURN</b>   | ReturnAddr        | 10    | Return address  |
| <b>SYSNAME</b>  | SysName           | 8     | System name   |
| <b>SYSLEVEL</b> | SysLevel          | 25    | System level  |
| <b>SIZEX</b>    | SizeX             | 8     | Block 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. |

## Job Data Set panel (JDS)

The Job Data Set panel allows the user to display information about SYSOUT data sets for a selected job, started task, and TSO user.

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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 75. 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  |       |
| <b>DESTN</b>   | Dest              | 18    | JES print destination name  |       |

Table 75. Columns on the JDS Panel (continued)

| Column name     | Title (Displayed) | Width                | Description   | Delay |
|-----------------|-------------------|----------------------|---|-------|
| <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 75. 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 75. 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 75. 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 the user to view reasons why the 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 76. Columns on the Job Delay Panel

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>DESC</b>     | TYPE              | 32    | Delay description. It is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>SOURCE</b>   | Src               | 3     | Source of this sample information (WLM or RMF)  |
| <b>SAMP</b>     | Samples           | 7     | Number of samples in the interval that correspond to this delay   |
| <b>PERCENT</b>  | Percent           | 7     | Percent of samples in the interval that correspond to this delay  |
| <b>INTERVAL</b> | Interval          | 8     | Sampling interval for WLM delays (milliseconds)   |
| <b>MINTIME</b>  | MinTime           | 8     | Length of RMF sampling interval in seconds  |
| <b>FIRSTSMP</b> | First-Sample      | 19    | Time stamp of the first sample in the interval  |
| <b>LASTSAMP</b> | Last-Sample       | 19    | Time stamp of the last sample in the interval   |
| <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 authorized users to view, for a selected job, the jobs that it is dependent on and the jobs that have dependencies on it, or, for a selected job group, all of the dependencies in the job group. The panel shows the conditions for each dependency.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 77. 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   |

Table 77. Columns on the Job Dependency Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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 Device panel (JD)

The Job Device panel allows the user to display information about devices that a job is using.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 78. 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   |

Table 78. Columns on the JD Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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)   |
| <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)                                    |

Table 78. Columns on the JD 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 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 access the JDDN panel using the JDD action character from the DA, AS, I, ST, INIT, or NS panels.

You can use the **SRCH** command to locate a member within the allocations. You can ISPF browse, edit, and view MVS data sets. (Browse is not supported for JES, subsystem, or file system data sets.)

You can use the fast path select (S) and filter commands to customize the rows being shown.. The command accepts two parameters. The first parameter is a ddname pattern and the second parameter is the data set name pattern.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 79. 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.   |
| <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.   |

Table 79. Columns on the JDDN Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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 Group panel (JG)

The Job Group panel allows the user to view JES2 job groups, or execution zones. Execution zones are created when JCL is submitted that describes a relationship between a set of jobs.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 80. 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.   |
| <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. |

## Job Memory panel (JM)

The Job Memory panel allows the user to view the system memory being used by a job.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 81. 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  |
| <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. You access it by using the JMO action character from the DA or AS panels. Rows that represent fetch-protected objects 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 type of memory object.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 82. 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 authorized users to list the loaded modules for an address space.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 83. Columns on the Job Modules Panel

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <b>MODNAME</b> | MODULE            | 8     | Module name. This is the fixed field. It is ignored if coded on an FLD statement. |



Table 83. Columns on the Job Modules Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>MAJOR</b>    | Major             | 8     | Major name if module is an alias  |
| <b>MODEPA</b>   | EPA               | 8     | Module entry point address  |
| <b>MODLEN</b>   | ModLen            | 8     | Module length (if known)  |
| <b>SUBPOOL</b>  | SP                | 3     | Storage subpool for module  |
| <b>TCB</b>      | TCB               | 8     | TCB address of the module   |
| <b>PROGRAM</b>  | Program           | 8     | TCB program associated with the module  |
| <b>JPAQ</b>     | JPAQ              | 4     | Indicates whether module is in the job pack area  |
| <b>LPDE</b>     | LPDE              | 4     | Indicates whether module is in the link pack directory entry  |
| <b>USECOUNT</b> | Use               | 3     | Current use count for module  |
| <b>SYSUSE</b>   | SysUse            | 6     | System use count for module   |
| <b>AUTHCOD</b>  | AC                | 2     | Authorization code for module   |
| <b>AMODE</b>    | AM                | 2     | Addressing mode (AMODE)   |
| <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. |

## JES Resource Group panel (JRG)

The JRG panel shows resource groups defined in JES. Use this panel to see defined resource groups and associated information.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 84. 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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 85. 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   |

Table 85. Columns on the Job Resource Limit 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 Step panel (JS)

The Job Step panel allows the user to view information about the steps for a job.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 86. Columns on the JS Panel

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>STEPNAME</b> | STEPNAME          | 8     | Step name (fixed field)                                       |
| <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           |

Table 86. Columns on the JS Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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   |
| <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 shows the TCBs and RBs for an address space.

You access the Job Tasks panel using the JT action character from the AD, AS, or DA panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 87. 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   |

Table 87. Columns on the Job Tasks Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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  |
| <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. |

## Job 0 (J0)

The Job 0 panel allows the user to display information about SYSOUT data sets for a JES3 job 0.

The values for all the columns are obtained from the spool data set.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 88. 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  |

Table 88. Columns on the JO Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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   |
| <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 (LI)

The Lines panel allows the user to display information about JES lines and their associated transmitters and receivers.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 89. 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  |
| <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  |

Table 89. Columns on the LI Panel (continued)

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <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) |
| <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)   |



Table 89. Columns on the LI Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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 LLS panel displays link list sets that are defined in the sysplex. Only data sets in the current link list set are shown.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 90. 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 LNK panel displays the data sets in the link list (lnklst) for each system in the sysplex. Only data sets in the current lnklst set are shown.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 91. 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  |
| <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 panel shows the data sets in the link pack area (LPA) for each system in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 92. 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 Partitions 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 93. 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         |

Table 93. Columns on the LPAR Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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   |
| <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 (that is, 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.

This panel uses the SYSNAME value to control which systems are shown on the panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 94. 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)   |

Table 94. Columns on the Link Pack Directory Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 95. Columns on the MGRP panel

| Column name   | Title (Displayed) | Width | Description   |
|---------------|-------------------|-------|---|
| <b>GROUP</b>  | GROUP             | 8     | Command group. This is a fixed field.   |
| <b>NAME</b>   | Name              | 8     | Command name  |
| <b>DESC</b>   | Description       | 24    | Command description   |
| <b>STATUS</b> | Status            | 64    | Command status  |
| <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. |

## MAP panel

The MAP panel shows selected memory content mapped to a known structure.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 96. 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                                   |

Table 96. Columns on the MAP Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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. |

## Multi-Access Spool panel (MAS) and JESPLEX (JP) panel

The Multi-Access Spool (MAS) panel simplifies the display and control of members in a JES2 MAS. The analogous JES3 JESPLEX panel simplifies the display and control of members in a JES3 JESPLEX. They share a single field list.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 97. 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  |
| <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   |

Table 97. Columns on the MAS and JP Panel (continued)

| Column name     | Title (Displayed)  | Width                | Panel      | Description   |
|-----------------|--------------------|----------------------|------------|---|
| <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).   |
| <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 authorized users to browse the memory contents for any address space within the sysplex, including common storage and 64-bit memory objects.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 98. 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. |

## Memory Chain panel (MEMC)

The Memory Chain panel displays storage for control block chains by traversing a designated next pointer within the control block.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 99. 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  |



Table 99. Columns on the Memory Chain Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## 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 [“Optional SDSF features \(FEATURE\)”](#) on page 38.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 100. Columns on the MFD Panel

| 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) |
| <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                   |

Table 100. Columns on the MFD 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. |

## 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 [“Optional SDSF features \(FEATURE\)” on page 38](#)

In REXX execs and Java programs, reference columns by name rather than by title.

Table 101. 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  |
| <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 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.

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](#).

In REXX execs and Java programs, reference columns by name rather than by title.

Table 102. 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)   |
| <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. |

## Module Fetch Statistics panel (MFM)

The Module Fetch Statistics (MFM) panel shows information about load module fetch activity, such as the number of times each module is fetched and the duration of the fetch operation, summarized by load module 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](#).

In REXX execs and Java programs, reference columns by name rather than by title.

Table 103. Columns on the MFM Panel

| Column name   | Title (Displayed) | Width | Description                           |
|---------------|-------------------|-------|---------------------------------------|
| <b>MODULE</b> | MODULE            | 8     | Module name. This is the fixed field. |
| <b>FETCH</b>  | Fetch             | 6     | Total fetch count                     |

Table 103. Columns on the MFM Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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   |
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 104. Columns on the MGRP panel

| Column name  | Title (Displayed) | Width | Description                           |
|--------------|-------------------|-------|---------------------------------------|
| <b>GROUP</b> | GROUP             | 8     | Command group. This is a fixed field. |

Table 104. Columns on the MGRP panel (continued)

| Column name   | Title (Displayed) | Width | Description   |
|---------------|-------------------|-------|---|
| <b>NAME</b>   | Name              | 8     | Command name  |
| <b>DESC</b>   | Description       | 24    | Command description   |
| <b>STATUS</b> | Status            | 64    | Command status  |
| <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. |

## Network Activity panel (NA)

The Network Activity (NA) panel allows authorized users to show all TCP/IP activity for all stacks in the system.

When JESplex scoping is in effect, the NA panel returns data only for those systems that are in the same JESplex as the user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 105. 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  |
| <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  |

Table 105. Columns on the NA Panel (continued)

| Column name         | Title (Displayed) | Width | Description   |
|---------------------|-------------------|-------|---|
| <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 Connections (NC)

The Network Connections panel allows the user to display information about JES networking connections to an adjacent node.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 106. Columns on the NC Panel

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <b>DEVNAME</b> | DEVICE            | 10    | Name of the connection, transmitter or receiver. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>STATUS</b>  | Status            | 8     | Device status   |
| <b>TYPE</b>    | Type              | 4     | Connection type (SNA, BSC, TCP)   |
| <b>ANODE</b>   | ANode             | 8     | Adjacent node   |
| <b>JNAME</b>   | Jobname           | 8     | Job name of job being processed   |
| <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)   |

Table 106. Columns on the NC Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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                                |
| <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)                |

Table 106. Columns on the NC 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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 107. 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  |
| <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             |



Table 107. Columns on the NAP 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. |

## Network Servers (NS)

The Network Servers panel allows the user to display information about JES server-type networking devices on the node.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 108. 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   |

Table 108. Columns on the NS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>DEVSECLB</b> | DSecLabel         | 9     | Security label of the device (JES2 only)  |
| <b>NSECURE</b>  | NSecure           | 10    | Netserv secure option (required, optional, use_socket)  |
| <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 (NO)

The Nodes panel allows the user to display information about JES nodes.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 109. 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)  |

Table 109. Columns on the NO Panel (continued)

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <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)  |
| <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)  |

Table 109. Columns on the NO Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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)   |
| <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. |

## OMVS options panel (BPXO)

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

**Note:** You access the panel with the **BPXO** command because SDSF interprets the OMVS command as the output panel (O) with classes M, V, and S.

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.

This panel uses the SYSNAME value to control which systems are shown on the panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 110. 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. |

## Output Queue panel (O)

The Output Queue panel allows the user to display information about SYSOUT data sets for jobs, started tasks, and TSO users on any *nonheld* JES output queue.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 111. 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.   |       |
| <b>PAGEPRT</b> | Prt-Page          | 9     | Output pages printed. Blank if not for page-mode data. (JES2 only)                                    |       |

Table 111. Columns on the O Panel (continued)

| Column name     | Title (Displayed) | Width                | Description   | Delay          |
|-----------------|-------------------|----------------------|---|----------------|
| <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              |
| <b>ISYSID</b>   | ISys              | 4 (JES2)<br>8 (JES3) | JES input system ID   | X              |

Table 111. Columns on the O Panel (continued)

| Column name      | Title (Displayed)     | Width                | Description   | Delay     |
|------------------|-----------------------|----------------------|---|-----------|
| <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 111. Columns on the O Panel (continued)

| Column name      | Title (Displayed) | Width | Description   | Delay |
|------------------|-------------------|-------|---|-------|
| <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  |       |
| <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.

## Page panel (PAG)

The PAG panel shows the paging data sets in use for each system in the sysplex.

**Note:** RMF and the RMF Monitor I tasks must be active in order to see rows on the SDSF PAG panel. In addition, the PAGING option must be specified in the RMF ERBRMFxx parmlib member.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 112. 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   |



Table 112. Columns on the PAG Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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   |
| <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 PARM panel shows the data sets in the PARMLIB concatenation for each system in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 113. Columns on the PARM 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>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  |

Table 113. Columns on the PARM 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. |

## PC Routines panel (PC)

The PC Routines (PC) panel displays the currently defined system linkage indexes (LX) PC routines.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 114. 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   |
| <b>SYSLEVEL</b>   | SysLevel          | 25    | System level  |

Table 114. Columns on the PC 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. |

## Printer panel (PR)

The Printer panel allows the user to display information about JES printers printing job, started task, and TSO user output.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 115. 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)   |       |

Table 115. Columns on the PR Panel (continued)

| Column name     | Title (Displayed) | Width | Description  | Delay |
|-----------------|-------------------|-------|--|-------|
| <b>BURST</b>    | Burst             | 5     | 3800 burst indicator   |       |
| <b>SEP</b>      | Sep               | 3     | Separator page between output groups (JES2 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)  |       |
| <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)                                     |       |

Table 115. Columns on the PR Panel (continued)

| Column name      | Title (Displayed) | Width | Description   | Delay |
|------------------|-------------------|-------|---|-------|
| <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)  |       |
| <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     | Copymark 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)  |       |

Table 115. Columns on the PR Panel (continued)

| Column name      | Title (Displayed) | Width | Description  | Delay |
|------------------|-------------------|-------|--|-------|
| <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)  |       |
| <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)  |       |

Table 115. Columns on the PR Panel (continued)

| Column name     | Title (Displayed)   | Width | Description   | Delay |
|-----------------|---------------------|-------|---|-------|
| <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                              |       |
| <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)                                  |       |

Table 115. Columns on the PR Panel (continued)

| Column name   | Title (Displayed) | Width | Description   | Delay |
|---------------|-------------------|-------|---|-------|
| <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.

## Private Storage Subpool panel (USI)

The Private Storage Subpool (USI) panel allows authorized users to view private storage details for a selected subpool and key.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 116. 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)  |



Table 116. Columns on the USI 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. |

## Proclib panel (PROC)

The Proclib (PROC) panel shows the procedure libraries being used by JES. The PROC panel shows the procedure libraries for the local member only. This panel is available only when running JES2.

You can use the fast path select (S) command with a ddname to filter results.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 117. 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  |
| <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. |

## Processes panel (PS)

The PS panel displays information about z/OS UNIX System Services processes.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 118. 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   |
| <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   |

Table 118. Columns on the PS 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. |

## Product Enablement panel (PROD)

The Product Enablement (PROD) panel shows information about products that have been registered and their current status.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 119. Columns on the PROD Panel

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>PRODUCT</b>   | PRODUCT           | 16    | Name of the product. This is the fixed field.   |
| <b>STATUS</b>    | State             | 10    | The status of the product   |
| <b>OWNER</b>     | Owner             | 8     | The owner of the software   |
| <b>FEATURE</b>   | Feature           | 16    | The product feature name  |
| <b>VVRRMM</b>    | Version           | 8     | Version, release, and modification level of the product   |
| <b>PRODID</b>    | ProdID            | 8     | The product ID  |
| <b>TYPE</b>      | Type              | 5     | Entry type  |
| <b>INSTANCES</b> | Instances         | 9     | The number of instances of the feature  |
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 120. Columns on the PPT Panel

| 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)        |

Table 120. Columns on the PPT Panel (continued)

| Column name        | Title (Displayed) | Width | Description   |
|--------------------|-------------------|-------|---|
| <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)   |
| <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. |

## Punch panel (PUN)

The PUN panel allows the user to display information about punches.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 121. 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)                                      |

Table 121. Columns on the PUN Panel (continued)

| Column name       | Title (Displayed) | Width | Description                                       |
|-------------------|-------------------|-------|---|
| <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               |
| <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)      |

Table 121. Columns on the PUN Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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  |
| <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>JPRIOR</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)  |

Table 121. Columns on the PUN Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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 Access panel

The RACF Access panel shows the access lists entries for a specific RACF profile.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 122. 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 Classes panel (RAC)

The RACF Classes (RAC) panel shows the RACF classes and their attributes on the current system. From this panel, you can drill down to view the profiles within a single class.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 123. 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                  |

Table 123. Columns on the RAC Panel (continued)

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <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 Connects panel

The RACF Connects panel lists all connected RACF groups for a user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 124. 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)           |



Table 124. Columns on the RACF Connects Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 125. Columns on the RACD Panel

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>DSNAME</b>    | DSNAME            | 44    | The RACF data set name. This is the fixed field.  |
| <b>TYPE</b>      | Type              | 8     | Type (PRIMARY or BACKUP)  |
| <b>ACTIVE</b>    | Active            | 6     | Active indicator (YES or NO)  |
| <b>VSAM</b>      | VSAM              | 4     | VSAM data set (YES or NO)   |
| <b>ENCRYPTED</b> | Encrypted         | 9     | Encrypted data set (YES or NO)  |
| <b>SEQNUM</b>    | Seq               | 3     | Sequence number   |
| <b>VOLSER</b>    | VolSer            | 6     | Volume serial   |
| <b>UNIT</b>      | Unit              | 4     | Unit address  |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 126. 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     | IRRPxx 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) |
| <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)           |

Table 126. Columns on the RACF Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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 Log panel (RLOG)

The RACF Log (RLOG) panel displays logged RACF access attempts including the user ID, profile, class, and permission requested, and the access eventually granted.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 127. 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                    |

Table 127. Columns on the RLOG Panel (continued)

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <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)   |
| <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 (IRRP AFC)  |
| <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. |

## RACF Profiles panel (RACP)

The RACF Profiles (RACP) panel shows the RACF profiles for a specific class. From this panel, you can issue actions to show the associated access list or browse the profile information.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 128. Columns on the RACP Panel

| Column name    | Title (Displayed) | Width | Description                                |
|----------------|-------------------|-------|--|
| <b>PROFILE</b> | 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 129. 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                                      |

Table 129. Columns on the RACR Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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  |
| <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 RDR panel allows the user to display information about readers.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 130. 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 130. 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.

## Resource panel (RES)

The RES panel allows users to display information about WLM resources in a scheduling environment, or in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 131. Columns on the RES Panel

| Column name          | Title (Displayed)                             | Width | Description   |
|----------------------|---|-------|---|
| <b>RESOURCE</b>      | RESOURCE                                      | 16    | Resource name. This is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>REQSTATE</b>      | ReqState                                      | 8     | Required state of the resource for the scheduling environment. Displayed only if the panel is accessed with the R action character.   |
| <b>SYS1 to SYS32</b> | Resolved from the actual names of the systems | 8     | Status of the resource on the system  |
| <b>SCHENV</b>        | SchedEnv                                      | 16    | Scheduling environment  |
| <b>DESCRIPT</b>      | Description                                   | 32    | 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. |

**Note:** Omit the column title when coding a field list for the RES panel. For example, you would code SYS1 , , 8 for the first system column. Using statements, you would omit the TITLE keyword, for example:

```
FLDENT COLUMN(SYS1) ,WIDTH(*)
```

When there are more columns in the field list than are required for the panel, either because of the number of systems that are active or because the scope of the panel has been limited to systems in the MAS, SDSF displays only as many columns as are required.

## Resource Monitor panel (RM)

The Resource Monitor (RM) panel allows you to display information about JES2 resources such as JOEs, JQEs, and BERTs.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 132. Columns on the RM Panel

| Column name    | Title (Displayed) | Width | Description  |
|----------------|-------------------|-------|--|
| <b>RESNAME</b> | RESOURCE          | 8     | JES2 resource name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>DSYSID</b>  | SysID             | 5     | JES2 member name   |
| <b>STATUS</b>  | Status            | 10    | Resource status  |
| <b>LIMIT</b>   | Limit             | 6     | Limit for the resource   |
| <b>USENUM</b>  | InUse             | 6     | Number in use  |
| <b>USEPCT</b>  | InUse%            | 6     | Percentage in use  |
| <b>WARNPCT</b> | Warn%             | 5     | Warning threshold (percentage)   |
| <b>INTAVG</b>  | IntAvg            | 6     | Average amount in use for the interval   |
| <b>INTHIGH</b> | IntHigh           | 7     | Highest amount in use for the interval   |
| <b>INTLOW</b>  | IntLow            | 6     | Lowest amount in use for the interval  |



Table 132. Columns on the RM Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>OVERWARN</b> | OverWarn%         | 9     | Amount in use above the warning threshold (percentage)  |
| <b>TIMEE</b>    | Time              | 8     | Time that the interval began  |
| <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. |

## 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. (JES2 only)

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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 133. 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  |

Table 133. Columns on the RMA Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## Scheduling Environment panel (SE)

The SE panel allows the user to display information about scheduling environments.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 134. Columns on the SE Panel

| Column Name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>SCHENV</b>   | SCHEDULING-ENV    | 16    | Scheduling environment name. This is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>DESCRIPT</b> | Description       | 32    | Description of scheduling environment   |
| <b>SYSTEMS</b>  | Systems           | 60    | Systems with the scheduling environment available   |
| <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 panel allows the user to display information about JES2 spool offloaders (JES2 only).

In REXX execs and Java programs, reference columns by name rather than by title.

Table 135. 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  |

Table 135. Columns on the SO Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>LINELIM</b>  | Line-Limit        | 21    | Selection line limit  |
| <b>PAGELIM</b>  | Page-Limit        | 21    | Selection page limit  |
| <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       |

Table 135. Columns on the SO Panel (continued)

| Column name     | Title (Displayed) | Width | Description  |
|-----------------|-------------------|-------|--|
| <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                 |
| <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.  |

Table 135. Columns on the SO Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <b>LINELIML</b>  | Line-Lim-Lo       | 11    | Line limit, minimum   |
| <b>LINELIMH</b>  | Line-Lim-Hi       | 11    | Line limit, maximum   |
| <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 panel lets you display and control JES2 spool volumes.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 136. 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. |

Table 136. Columns on the SP Panel (continued)

| Column name     | Title (Displayed) | Width                       | Description   |
|-----------------|-------------------|-----------------------------|---|
| <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   |
| <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)  |

Table 136. Columns on the SP Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## Search panel (SRCH)

The SRCH panel shows all data sets containing the specified member pattern. The resulting table shows all data sets containing that member pattern. You can use the SRCH command from the APF, LNK, LPA, PARM, and PROC panels.

**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.

The SRCH panel is not available through REXX or implemented in Java. You can use the SYSDSN function in REXX to implement this function, or implement it directly in Java.

Table 137. Columns on the SRCH 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            | 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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 138. 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. |



## SMF Data Sets panel (SMFD)

The SMF Data Sets (SMFD) panel displays details for SMF data sets.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 139. Columns on the SMFD Panel

| 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   |
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 140. Columns on the SMFL Panel

| Column name        | Title (Displayed) | Width | Description   |
|--------------------|-------------------|-------|---|
| <b>NAME</b>        | NAME              | 26    | The log stream name. This is the fixed field.                                     |
| <b>ACTIVE</b>      | Active            | 6     | Log stream state  |
| <b>CONNECT</b>     | Connect           | 7     | Log stream connection status with SMF   |
| <b>CLEANUP</b>     | Cleanup           | 7     | Log stream is being cleaned up (YES or NO)  |
| <b>DEFAULT</b>     | Default           | 7     | Indicates whether the log stream is the default SMF log stream                    |
| <b>COMPRESS</b>    | Compress          | 8     | Indicates whether compression is requested for records written to this log stream |
| <b>UPDDATE</b>     | UpdDate           | 19    | The last write date and time for the log stream                                   |
| <b>BUFSIZE</b>     | BufSize           | 10    | The buffer size associated with the log stream                                    |
| <b>BUFFERINUSE</b> | BufferInUse       | 11    | The number of SMF dataspace buffers currently being used                          |

Table 140. Columns on the SMFL Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <b>BUFMAX</b>   | BufMax            | 8     | The DSPSIZMAX for this log stream   |
| <b>BUFHWM</b>   | BufHWM            | 8     | The high water mark for the buffer area   |
| <b>BUFSHORT</b> | BufShort          | 8     | Number of records lost during buffer shortage   |
| <b>ACTION</b>   | Action            | 6     | Specifies the system action when the log stream buffer area is full   |
| <b>TYPE</b>     | Types             | 127   | Record types being collected for the SMF log stream   |
| <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. |

## SMF Options panel (SMFO)

The SMF Options (SMFO) panel shows SMFPRMxx parameters in the SMF parmlib member in use.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 141. Columns on the SMFO Panel

| Column name         | Title (Displayed) | Width | Description   |
|---------------------|-------------------|-------|---|
| <b>ID</b>           | ID                | 4     | SMF system identifier. This is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>OPTION</b>       | Option            | 9     | SMF recording option  |
| <b>MEMBER</b>       | Member            | 8     | SMFPRMxx currently used   |
| <b>INTVAL</b>       | IntVal            | 8     | The default SMF recording interval in minutes   |
| <b>SYNCVAL</b>      | SyncVal           | 11    | The default sync value  |
| <b>FLOODSUPPORT</b> | FloodSupport      | 12    | SMF record flood support is active (YES or NO)  |
| <b>NOBUFFS</b>      | NoBuffs           | 7     | NOBUFFS settings  |
| <b>BUFUSEWARN</b>   | BufUseWarn        | 10    | Global buffer use warning   |
| <b>SMCA</b>         | SMCA              | 8     | SMCA address  |
| <b>SMCX</b>         | SMCX              | 8     | SMCX address  |
| <b>LOGSTREAM</b>    | LogStream         | 26    | The name of the default logstream used by SMF when the LOGSTREAM recording option is active   |
| <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. |

## 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 named resources.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 142. Columns on the SMFR Panel

| Column name        | Title (Displayed) | Width | Description   |
|--------------------|-------------------|-------|---|
| <b>NAME</b>        | NAME              | 26    | In-memory resource name. This is the fixed field.   |
| <b>STATUS</b>      | Status            | 7     | In-memory resource status   |
| <b>BUFFERINUSE</b> | BufferInUse       | 11    | Amount of storage used currently in the buffer area   |
| <b>BUFMAX</b>      | BufMax            | 8     | Defined buffer size (RESSIZMAX) for this in-memory resource   |
| <b>BUFHWM</b>      | BufHWM            | 8     | The high water mark for the buffer area   |
| <b>CONNECT</b>     | ActConn           | 8     | Number of active connections to this in-memory resource   |
| <b>TYPE</b>        | Types             | 127   | Record types being collected by the in-memory resource  |
| <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. |

## SMF Subsystems panel (SMFS)

The SMF Subsystems (SMFS) panel displays SMF subsystems and exits.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 143. 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)  |

Table 143. Columns on the SMFS Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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   |
| <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 (MSG)

The SMS Storage Groups (MSG) panel allows authorized users to display all storage groups in the system.

Use the SYSNAME command to limit the systems being shown. Remote systems must be running SDSF V2R3 and the SDSF address space must be active on the target system.

When JESplex scoping is in effect, the MSG panel returns data only for those systems that are in the same JESplex as the user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 144. Columns on the MSG 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   |

Table 144. Columns on the SMSG Panel (continued)

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <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 authorized users to display all SMS volumes in the system.

Use the SYSNAME command to limit the systems being shown. Remote systems must be running SDSF V2R3 and the SDSF address space must be active on the target system.

When JESplex scoping is in effect, the SMSV panel returns data only for those systems that are in the same JESplex as the user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 145. 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   |

Table 145. Columns on the SMSV Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## Status panel (ST)

The Status panel allows the user to display information about jobs, started tasks, and TSO users on the JES queues.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 146. 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.   |       |
| <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 ++ ++++++ or ????????, if user ID not defined to 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 POS column includes jobs that are held or duplicate. SDSF does not show a value for 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  |       |

Table 146. Columns on the ST Panel (continued)

| Column name    | Title (Displayed) | Width                | Description   | Delay          |
|----------------|-------------------|----------------------|---|----------------|
| <b>DEVID</b>   | Device            | 18                   | JES device name   |                |
| <b>RETCODE</b> | Max-RC            | 10                   | Return code information for the job.<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  |                |
| <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      |

Table 146. Columns on the ST Panel (continued)

| Column name      | Title (Displayed)     | Width | Description   | Delay          |
|------------------|-----------------------|-------|---|----------------|
| <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   |                |
| <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              |



Table 146. Columns on the ST Panel (continued)

| Column name       | Title (Displayed) | Width | Description   | Delay |
|-------------------|-------------------|-------|---|-------|
| <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     |
| <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)   |       |

Table 146. Columns on the ST Panel (continued)

| Column name      | Title (Displayed) | Width | Description   | Delay |
|------------------|-------------------|-------|---|-------|
| <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)  |       |
| <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.

## Subsystem panel (SSI)

The Subsystem (SSI) panel allows authorized users to display the subsystems defined to the system. Both dynamic and non-dynamic subsystems are shown.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 147. 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)  |

Table 147. Columns on the SSI Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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)   |
| <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. |

## 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 148. 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  |

Table 148. Columns on the SVC Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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  |
| <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 panel (PLEX) displays information about the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 149. 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. |

## System Symbols panel (SYM)

The System Symbols panel (SYM) allows authorized users to display the system dynamic and static symbols defined for each system in the sysplex. 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.

**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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 150. 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.                       |

Table 150. Columns on the SYM Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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 SYS panel shows information about systems in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 151. Columns on the SYS Panel

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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 151. 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 151. 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 151. 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 152. 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. |

## System Requests panel (SR)

The SR panel allows the user to display outstanding system requests.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 153. 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   |

Table 153. Columns on the SR Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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. |

## Unit Control Blocks panel (UCB)

The Unit Control Blocks panel (UCB) displays status and information for static and dynamic UCBs.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 154. 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)                |
| <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)                   |

Table 154. Columns on the UCB Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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. |

## UNIX Threads panel

The UNIX Threads panel displays z/OS UNIX thread information.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 155. Columns on the UNIX Threads Panel

| Column name         | Title (Displayed) | Width | Description  |
|---------------------|-------------------|-------|--|
| <b>THREADID</b>     | THREADID          | 17    | Thread ID. This is the fixed field.                  |
| <b>STATUS</b>       | Status            | 16    | Status of the process                                |
| <b>STATE</b>        | State             | 5     | State of the process or most recently created thread |
| <b>SYSCALL</b>      | SysCall           | 7     | The current or last syscall request                  |
| <b>CPU</b>          | CPU-Time          | 8     | CPU time used  |
| <b>WAITTIME</b>     | WaitTime          | 12    | The total wait time for the process                  |
| <b>TCB</b>          | TCB               | 8     | TCB address  |
| <b>PID</b>          | PID               | 10    | Process ID   |
| <b>LATCHWAITPID</b> | LatchWaitPID      | 12    | The latch wait process ID                            |

Table 155. Columns on the UNIX Threads Panel (continued)

| Column name          | Title (Displayed) | Width | Description   |
|----------------------|-------------------|-------|---|
| <b>LASTSYSCALLFM</b> | LastSysCall       | 24    | Last five syscalls  |
| <b>JNAME</b>         | JobName           | 8     | Job name  |
| <b>ASIDX</b>         | ASIDX             | 5     | Address space identifier in hexadecimal   |
| <b>SYSNAME</b>       | SysName           | 8     | System name where process is executing  |
| <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. |

## Virtual Storage Map panel (VMAP)

The Virtual Storage Map (VMAP) panel allows authorized users to display the virtual storage map for the system. The map shows the starting and ending virtual addresses of each storage area in the system.

When JESplex scoping is in effect, the VMAP panel returns data only for those systems that are in the same JESplex as the user.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 156. 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. |

## VTOC panel (VTOC)

The VTOC panel (VTOC) displays the volume table of contents for a single DASD volume. The VTOC panel shows information from various format DSCB entries in the VTOC, including data set extents, and also

shows free space information. The extent locations on the volume are shown in both relative track and normalized CCHH format.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 157. 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. |

## 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.

Because the data for this panel comes from the current WLM policy, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 158. 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 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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 159. 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         |
| <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          |

Table 159. Columns on the AW Panel (continued)

| Column name     | Title (Displayed) | Width | Description   |
|-----------------|-------------------|-------|---|
| <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. |

## 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.

Because the data for this panel comes from the current WLM policy, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 160. Columns on the WLM Report Class Panel

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <b>NAME</b>       | NAME              | 8     | Report class name. This is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>DESC</b>       | Description       | 32    | Report class description  |
| <b>POLNAME</b>    | Policy            | 8     | Policy name in effect   |
| <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 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. |

## 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.

Because the data for this panel comes from the current WLM policy, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 161. Columns on the WLM Resource Group Panel

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <b>NAME</b>       | NAME              | 8     | Resource group name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <b>DESC</b>       | Description       | 32    | Resource group 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   |



Table 161. Columns on the WLM Resource Group 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. |

## 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.

Because the data for this panel comes from the current WLM policy, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 162. Columns on the WLM Service Classes Panel

| Column name       | Title (Displayed) | Width | Description  |
|-------------------|-------------------|-------|--|
| <b>NAME</b>       | NAME              | 8     | Service class name. This is the fixed field. It is ignored if coded on an FLD statement. |
| <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  |

Table 162. Columns on the WLM Service Classes Panel (continued)

| Column name    | Title (Displayed) | Width | Description   |
|----------------|-------------------|-------|---|
| <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. |

## 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.

Because the data for this panel comes from the current WLM policy, the panel does not use the SYSNAME value.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 163. Columns on the WLM Workload Panel

| Column name       | Title (Displayed) | Width | Description   |
|-------------------|-------------------|-------|---|
| <b>NAME</b>       | NAME              | 8     | Workload name. This is the fixed field. It is ignored if coded on an FLD statement.   |
| <b>DESC</b>       | Description       | 32    | Workload description  |
| <b>POLNAME</b>    | Policy            | 8     | Policy name in effect   |
| <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>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 Application Servers panel (XCFA)

The XCF Application Servers (XCFA) panel shows details about the XCF application servers in the sysplex.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 164. Columns on the XCF Application Servers Panel

| Column Name         | Title (Displayed) | Width | Description  |
|---------------------|-------------------|-------|--|
| <b>SERVER</b>       | SERVER            | 36    | Server name. This is the fixed field.  |
| <b>INSTANCE</b>     | InstanceNum       | 11    | Server instance number   |
| <b>SYSTEM</b>       | System            | 8     | System name where instance is defined  |
| <b>STATUS</b>       | Status            | 12    | Server instance status   |
| <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>TTOKEN</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  |

Table 164. Columns on the XCF Application Servers Panel (continued)

| Column Name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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 IXCSEND was invoked to send the request   |
| <b>CLIENTLEV</b> | ClientLevel       | 11    | Level of the client that sent the request as specified on the IXCSEND request   |
| <b>WORKTYPE</b>  | WorkType          | 12    | Type of work item being processed   |
| <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.

This panel does not use the SYSNAME value to control which systems are shown on the panel.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 165. 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)                                     |

Table 165. Columns on the XCFM Panel (continued)

| Column name      | Title (Displayed) | Width | Description   |
|------------------|-------------------|-------|---|
| <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.

In REXX execs and Java programs, reference columns by name rather than by title.

Table 166. Columns on the XCF Signaling Paths Panel

| Column Name           | Title (Displayed) | Width | Description  |
|-----------------------|-------------------|-------|--|
| <b>STRNAME</b>        | STRNAME           | 16    | Path name. This is the fixed field.  |
| <b>REMOTESYS</b>      | RemoteSys         | 9     | Remote system name   |
| <b>STATUS</b>         | Status            | 16    | Path status  |
| <b>TYPE</b>           | Type              | 7     | Input or output path   |
| <b>SIGNALCOUNT</b>    | SignalCount       | 11    | For outbound (inbound) path, total number of signals sent (received) over path                       |
| <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                                |

Table 166. Columns on the XCF Signaling Paths Panel (continued)

| Column Name          | Title (Displayed) | Width | Description   |
|----------------------|-------------------|-------|---|
| <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 5. Using SAF for security

Security for SDSF must be implemented via the Security Authorization Facility (SAF) interface, with an external security manager such as RACF, to provide security for SDSF. SAF is part of the z/OS environment and is always present. SDSF uses the SAF interface to route authorization requests to the external security manager.

**Important:** SDSF does not support security via the ISFPARMS mechanism. All users of SDSF 2.5 or later must use the Security Authorization Facility (SAF) with an External Security Manager (ESM) such as RACF, ACF2, or TSS. For information about migrating from using SDSF security with ISFPARMS (ISFPRMxx or ISFPARMS with assembler macros) to RACF security, refer to [z/OS SDSF Security Migration Guide](#).

The benefits of using SAF for SDSF security are:

- Dynamic change of security profiles
- Single image of security information
- Simple introduction of security philosophy
- Auditability
- Granular protection

---

### Relationship of SAF and ISFPARMS

Although you must use SAF for all SDSF security, you need ISFPARMS to control:

- Global values (ISFPMAC macro or OPTIONS statement)
- Any values for groups that are not related to security (ISFGRP macro or GROUP statement). .
- Code page (ISFTR macro or TRTAB statement)

If you want to customize the columns on SDSF panels, you also need ISFFLD macros or FLD statements.

---

### Changing authorization dynamically

SAF security provides a dynamic means of authorizing SDSF users to issue commands and process job output. Once a user starts an SDSF session, SDSF checks user authorization for every interaction with SDSF resources. If permissions change while a user is in SDSF, it may be necessary for the user to re-access SDSF or to log on again to pick up the permissions change.

---

### Auditing access attempts

If you are using RACF as a security product, RACF logs access attempts to protected SDSF resources according to the audit setting in the RACF profile for the resource. Logging is performed for all access attempts except for the following resource names in the SDSF class:

- ISFOPER.DEST.jesx
- ISFAUTH.DEST.destname
- ISFAUTH.DEST.destname.DATASET.dsname
- ISFOPER.ANYDEST.jesx
- All resource names beginning with ISFATTR.

Logging is not performed for these access attempts because the user is not specifically trying to gain access to those resources.

For RACF auditing information, refer to [z/OS Security Server RACF Auditor's Guide](#).

## Diagnosing security

---

SDSF's security trace function helps you understand and diagnose SDSF security using SAF. In response to the actions that you take, such as issuing commands or overtyping columns, it issues messages that describe the associated SAF resources. You control security trace with commands, REXX variable or Java methods.

- With the **SET SECTRACE** command, you turn security tracing on and specify how the associated messages are handled.
  - **SET SECTRACE ON** causes the trace messages to be sent to the ULOG.
  - **SET SECTRACE WTP** causes the messages to be issued as write-to-programmer messages. Use this if security prevents you from accessing SDSF or the user log.
- With the **SECTRACE** option on the **SDSF** command, you can turn security tracing on as soon as you access SDSF.
- When SDSF SECTRACE is active, SDSFAUX SECTRACE is also activated. SDSFAUX uses SECTRACE to record the results of security calls for diagnosis.
- With the ISFSECTRACE REXX special variable, you can control security tracing from a REXX exec.
- With ISFRequestSettings methods addISFSecTrace and removeISFSecTrace, you can control security tracing from a Java program.

For more information about the commands, refer to the online help. You could use the SEARCH command, for example, SEARCH SET SECTRACE. For more information about the REXX special variable and Java, refer to *z/OS SDSF User's Guide*.

## SAF concepts for SDSF resources

---

SDSF interacts with SAF to control access to the following resources:

- Membership in SDSF groups
- SDSF panels
- SDSF authorized commands
- Use of the / command to issue MVS and JES commands and receive responses
- Overtypable fields
- Destination names
- Operator authority by destination
- Devices and system resources, such as initiators, printers, lines, nodes and scheduling environments
- Jobs affected by action characters and overtypeable fields
- Output groups affected by action characters and overtypeable fields
- SYSIN/SYSOUT data sets for browsing and viewing
- MVS and JES commands that are generated by action characters and overtypeable fields
- Reverting to ISFPARMS in assembler macro format when the initial ISFPRMxx fails to activate or the server is started in NOPARM mode
- Use of the server MODIFY command
- Access to the log stream and the JES logical log

The SDSF resources are grouped into classes, with each resource having a resource name. SDSF translates an asterisk (\*) in resource names to a plus (+).

To accomplish security through SAF, you permit or deny users access to the SDSF resources by use of their classes and resource names.



# Protecting SDSF function

An SDSF function often requires access authority to more than one class and resource. In order to use the function, a user must have proper authority to all of the required resources.

For example, to overtype a field, a user must have access to the panel, to the overtypeable field, to the MVS or JES command that will be generated, and to the object (for example, the job, output group, initiator, or printer) being acted upon.

SDSF users must have authority to the resources at the correct access level (READ, CONTROL, UPDATE, or ALTER).

The classes used by SDSF must be defined to your security product. If you are using RACF you do not need to define the classes because they are already included in the IBM-supplied class descriptor table, ICHRRCDX.

The relationship of SDSF functions, classes and resources is shown in [“SAF classes and resources for SDSF function” on page 255](#). For some resources, only the highest level qualifier is shown. Refer to [Appendix B, “SDSF resource names for SAF security,” on page 607](#) for a table of complete SDSF resource names.

You can use the CONSOLE class to restrict the use of resources in the OPERCMDS and WRITER classes to SDSF users only. The restriction is in effect for the duration of the SDSF session. Use of the CONSOLE class is described in [“Using conditional access” on page 260](#).

## Protecting SDSF function in a sysplex environment

Several of SDSF's panels can show data from all members in the MAS in a JES2 environment. In that environment, security is as follows:

- Access to the display is controlled by the profiles on the local system, that is, the system the user is logged on to.
- Access to the objects displayed on the panel (for example, printers on the PR panel) is controlled by SAF resources that include the name of the JES subsystem for the system the object is on. In this topic, the resources show a variable *jesx* which you replace with the subsystem name.
- Which systems are included on the panel is controlled by the SYSNAME command.

## SAF classes and resources for SDSF function

This topic summarizes the SAF resources required to protect SDSF function.

Table 167. SDSF Classes and Resources

| Class    | SDSF Resource   | Resource Name  |
|----------|---|--|
| JESSPOOL | Jobs, output groups, and SYSIN/<br>SYSOUT data sets     | <i>nodeid.userid.jobname.jobid</i><br><i>nodeid.userid.jobname.jobid.</i><br><i>GROUP.ogroupid</i><br><i>nodeid.userid.jobname.jobid.</i><br><i>Ddsid.dsname</i> |
|          | Job step information                                    | <i>nodeid.userid.jobname.jobid.EVENTLOG.SMFSTEP</i><br><i>nodeid.userid.jobname.jobid.EVENTLOG.STEPDATA</i>  |
|          | Access to the JES logical log, to display<br>the SYSLOG | <i>nodeid.+MASTER+.SYSLOG.SYSTEM.</i><br><i>sysname</i>  |

Table 167. SDSF Classes and Resources (continued)

| Class           | SDSF Resource                                      | Resource Name   |
|-----------------|--|---|
| <b>LOGSTRM</b>  | Access to the log stream, to display the OPERLOG   | SYSPLEX.OPERLOG   |
|                 | Access to the log stream, to display check history | <i>log-stream-name</i>  |
| <b>OPERCMDS</b> | Generated MVS and JES commands                     | Resource name is dependent on command generated   |
|                 | Server MODIFY command                              | Resource name is dependent on command parameters  |
| <b>SDSF</b>     | Membership in groups                               | GROUP. <i>groupname.servername</i>  |
|                 | Connection to SDSF                                 | ISF.CONNECT. <i>sysname</i>   |
|                 | SDSF panels and authorized commands                | ISFCMD (High-level qualifier)   |
|                 | SDSF action characters                             | See Chapter 8, “Protecting SDSF panels and functions,” on page 265 and Chapter 9, “Protecting secondary SDSF panels,” on page 361 |
|                 | MVS/JES command line commands (/)                  | ISFOPER.SYSTEM  |
|                 | Overtypable fields                                 | ISFATTR (High-level qualifier)  |
|                 | Destination names                                  | ISFOPER.ANYDEST. <i>jesx</i> (all destinations)<br>ISFAUTH.DEST. <i>destname</i>  |
|                 | Operator authority by destination                  | ISFOPER.DEST<br>ISFAUTH.DEST<br>(High-level qualifiers)   |
|                 | Reverting to ISFPARMS in assembler macro format    | SERVER.NOPARM   |
| <b>WRITER</b>   | Printers and punches                               | <i>jesx.LOCAL.devicename</i>  |
|                 |  | <i>jesx.RJE.devicename</i>  |

---

## Chapter 6. SDSF and RACF

This topic provides general information about RACF security. It also demonstrates how to establish SAF security for SDSF tasks and resources using classes, resource names, and access levels.

For specific information about how to protect SDSF tasks and resources, see [Chapter 8, “Protecting SDSF panels and functions,”](#) on page 265.

For more information about RACF, go to [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos), select your version of z/OS, and enter RACF in the search bar.

---

### Security administration

A key feature of RACF is its hierarchical management structure. The RACF security administrator is defined at the top of the hierarchy, with authority to control security for the whole system. The RACF security administrator has the authority to work with RACF profiles and system-wide settings. The RACF auditor produces reports of security-relevant activity based on auditing records generated by RACF.

RACF security administrators generally have system-SPECIAL authority. This allows them to issue any RACF command and change any RACF profile (except for some auditing specific operands).

For complete information about the authorities required to issue RACF commands, and for information on delegating authority and the scope of a RACF group, refer to [z/OS Security Server RACF Security Administrator's Guide](#).

For information on the RACF requirements for issuing RACF commands, see the description of the specific command in [z/OS Security Server RACF Command Language Reference](#).

---

### Brief summary of RACF commands

Much of the RACF activity dealing with protected SDSF resources involves creating, changing, and deleting general resource profiles.

- To create a resource profile, use the RDEFINE command. Generally, once you have created a profile, you then create an access list for the profile using the PERMIT command. For example:

```
RDEFINE class_name profile_name UACC(NONE)
PERMIT profile_name CLASS(class_name) ID(user or group)
ACCESS(access_authority)
```

This document provides examples of how to do this for SDSF-related classes.

- To remove the entry for a user or group from an access list, issue the PERMIT command with the DELETE operand instead of the ACCESS operand.

```
PERMIT profile_name CLASS(class_name) ID(user or group) DELETE
```

- If you want to change a profile, for example, changing UACC from NONE to READ, use the RALTER command:

```
RALTER class_name profile_name UACC(READ)
```

- To delete a resource profile, use the RDELETE command. For example:

```
RDELETE class_name profile_name
```

- You can copy an access list from one profile to another. To do so, specify the FROM operand on the PERMIT command:

```
PERMIT profile_name CLASS(class_name)
FROM(existing-profile_name) FCLASS(class_name)
```

- You can copy information from one profile to another. To do so, specify the FROM operand on the RDEFINE or RALTER command:

```
RDEFINE class_name profile_name
      FROM(existing-profile_name) FCLASS(class_name)
```

**Note:** Do not plan to do this if you are using resource group names.

- To list the names of profiles in a particular class, use the SEARCH command. The following command lists the profiles in the SDSF class:

```
SEARCH CLASS(SDSF)
```

The SDSF class must be RACLISTed. Whenever you add or change a profile in the SDSF class, you must refresh the class to pick up the change. The following command shows how to refresh the class:

```
SETR RACLIST(SDSF) REFRESH
```

## Delegation of RACF administrative authority

Your installation's security plan should indicate who is responsible for providing security for SDSF.

If you do not have the system-SPECIAL attribute, you need to be given the authority to do the following RACF-related tasks:

- Define and maintain profiles in SDSF-related general resource classes. In general, this authority is granted by assigning a user the CLAUTH (class authority) attribute in the specified classes. For example, the security administrator could issue the following command:

```
ALTUSER your_userid CLAUTH(SDSF)
```

Some of the general resource classes mentioned in this document (such as OPERCMDS and JESSPOOL) affect the operation of products other than SDSF. If you are not the RACF security administrator, you may need to ask that person to define profiles at your request.

- Add RACF user profiles to the system. In general, this authority is granted by assigning an administrator the CLAUTH (class authority) attribute in the user's profile. For example, the security administrator could issue the following command:

```
ALTUSER your_userid CLAUTH(USER)
```

Whenever you add a user to the system, you must assign that user a default connect group. Assigning that user a default connect group changes the membership of the group (by adding the user as a member of the group).

For more information about RACF general resource profiles, see [z/OS Security Server RACF Security Administrator's Guide](#). For information about the resource names used by JES2, see [z/OS JES2 Initialization and Tuning Guide](#).

## SDSF resource group class

The IBM-supplied class descriptor table provides a resource *group* class (GSDSF) and a resource *member* class (SDSF). For a resource group class, each user or group of users permitted access to that resource group is permitted access to all members of the resource group. For each GSDSF class created, a second class representing the members must also be created.

### Creating a resource group profile

Resource group profiles enable you to protect multiple resources with one profile. However, the resources do not have to have similar names.

A resource group profile is a general resource profile with the following special characteristics:

- Its name does not match the resource it protects.
- The ADDMEM operand of the RDEFINE command specifies the resources it protects (not the profile name itself).
- The related member class (not the resource class itself) must be RACLISTed. For example, the SDSF class must be RACLISTed, not the GSDSF class. Use the SETROPTS command with the RACLIST operand for this task.

For more information on RACF group profiles, see [z/OS Security Server RACF Security Administrator's Guide](#).

## Establishing SAF security with RACF

---

To accomplish security through SAF with RACF, you:

1. Activate generic processing before defining profiles, using the SETROPTS command.
2. Define profiles to protect the resources in the appropriate classes, using the RDEFINE command. (Classes are already defined for RACF. You must define them for other security products.)

Begin with generic profiles for broad access to resources and then define generic or discrete profiles that are more restrictive.

3. Permit users to access appropriate profiles in each class with the necessary access levels, using the PERMIT command.
4. Activate the classes, using the SETROPTS command.

You should also review installation exit routines for SAF control points. Refer to [Chapter 12, “Using installation exit routines,”](#) on page 437 for more information.

## RACF authorization checking

When the class a resource is in is inactive, or the profile to protect the resource is not defined, the result varies with the default return code for the class:

- The SDSF and OPERCMDS classes, as defined by RACF, have a default return of 04, and return an indeterminate result. Authorization is determined by the CONNECT AUXSAF(FAILRC4|NOFAILRC4) option.
- The JESSPOOL and WRITER classes, as defined by RACF, have a default return code of 08. The request fails.

## Considerations for broad access

The examples in this information typically show generic profiles that allow the user broad access to resources. The universal access authority (UACC) function of NONE is used to protect resources for all users on the system. Users of the system who are not SDSF users may be affected when trying to access those resources. The examples of WRITER class profiles have UACC(READ) so that printers can select work for all users.

If you begin by defining broad generic profiles, you can then define more restrictive generic or discrete profiles. Users permitted to access the broad profiles must also be permitted to access the more restrictive profiles if they are to retain access to all the resources.

## Using RACLIST and REFRESH

---

The SETROPTS RACLIST command copies the base segments of generic and discrete profiles into virtual storage. The profile copies are put in their own data space. RACF uses these profile copies to check the authorization of any user who wants to access a resource protected by them. Using RACLIST for the security classes improves performance.

Once a class is RACLISTed, any changes to the profiles in the class require that the class be RACLIST REFRESHed.

See the discussions of generic profiles and the RACLIST option in [z/OS Security Server RACF Command Language Reference](#).

## Using RACLIST and REFRESH with the SDSF class

When running RACF, the SDSF class must be RACLISTed.

By default, SDSF and SDSFAUX fail all authorization requests that result in return code 04 (indeterminate) from SAF. You can change this by specifying AUXSAF(NOFAILRC4) on the CONNECT statement of ISFPRMxx.

If you have not already done so, you must use the SETROPTS RACLIST command for the SDSF class.

For example, assume that you issue the following command to RACLIST the SDSF class:

```
SETROPTS RACLIST(SDSF)
```

If you then change profiles in the SDSF class, you must issue a RACLIST REFRESH command for those changes to take effect:

```
SETROPTS RACLIST(SDSF) REFRESH
```

See the discussions of generic profiles and the RACLIST option in [z/OS Security Server RACF Command Language Reference](#).

## Using RACLIST and REFRESH with the OPERCMDS class

When using RACF, you must use the SETROPTS RACLIST command for the OPERCMDS class. If you then make changes to these OPERCMDS profiles, you must issue a SETROPTS RACLIST REFRESH command for those changes to take effect.

For example, if you issue the following command to permit GROUP1 to resources in the OPERCMDS class:

```
PERMIT jesx.** CLASS(OPERCMDS) ID(GROUP1) ACCESS(CONTROL)
```

you must then use the REFRESH operand for the change to be effective:

```
SETROPTS RACLIST(OPERCMDS) REFRESH
```

See the discussions of generic profiles and the RACLIST option in [z/OS Security Server RACF Command Language Reference](#).

## Using conditional access

If you use generic profiles (as in the preceding examples) to give the user access to all JES and MVS commands, the profiles not only include protection for generated MVS and JES commands within SDSF, but also for those commands used outside of SDSF.

Because of this, you may want to make the user's access conditional, only in effect when he or she is using SDSF. You can provide this conditional access for the WRITER and OPERCMDS classes. With RACF, this is done with the clause WHEN(CONSOLE(SDSF)).

To use this conditional access checking, you must have the CONSOLE class active and the SDSF console defined in the CONSOLE class.

For example, you would issue the following RACF commands:

```
SETROPTS CLASSACT(CONSOLE  
RDEFINE CONSOLE SDSF UACC(NONE)
```

Then, to give conditional access (to permit users to issue JES2 commands only while running SDSF):

```
RDEFINE OPERCMDS JES2.** UACC NONE
PERMIT JES2.** CLASS(OPERCMDS)ID(userid or groupid) ACCESS(CONTROL)
WHEN(CONSOLE(SDSF))
```

To permit users unconditionally to issue all JES2 commands:

```
PERMIT JES2.** CLASS(OPERCMDS)ID(userid or groupid) ACCESS(CONTROL)
```

See also the discussions of “Action characters” on page 371, “Overtypable fields” on page 385, “Printers (PR panel)” on page 321, and “Punches (PUN panel)” on page 327.

## Sample RACF commands

SDSF provides sample RACF commands for SDSF security in member ISFRAC of ISF.SISFEXEC.

## Controlling access authority to OPERCMDS resources

Access to the OPERCMDS resources can be controlled by which resources a user is authorized to access and also by which access level is given to the user. For example, an installation may create just one profile to protect all commands in the OPERCMDS class, but control a user's ability to issue commands by granting the user READ, UPDATE, CONTROL, or ALTER authority. Each authority level gives the user access to a different set of commands. Other installations may choose to define several OPERCMDS resources, and authorize users to access individual resources with the appropriate levels of access.

## Setting up generic profiles for action characters

You can set up two generic profiles to allow use of all action characters, as shown in [Table 168 on page 261](#).

*Table 168. Generic Profiles for Commands Generated by Actions Characters*

| Generated Commands  | Resource Name  | Class    | Access  |
|---------------------|----------------|----------|---------|
| <b>JES Commands</b> | <i>jesx.**</i> | OPERCMDS | CONTROL |
| <b>MVS Commands</b> | <i>MVS.**</i>  | OPERCMDS | CONTROL |

To protect resources individually in the OPERCMDS class with more restrictive profiles, you would use the specific resource name for the command generated by the action character. See “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

**Note:** In cases where JES issues an MVS command for processing, the user ID running JES must be authorized to access the OPERCMDS profiles protecting MVS commands, or the JES task must be running in a “trusted” state.

## Examples of protecting action characters

1. To allow use of all action characters on all panels, define the following profiles:

```
RDEFINE OPERCMDS jesx.** UACC(NONE)
RDEFINE OPERCMDS MVS.** UACC(NONE)
```

Give users CONTROL access with these commands:

```
PERMIT jesx.** CLASS(OPERCMDS) ID(userid or groupid) ACCESS(CONTROL)
PERMIT MVS.** CLASS(OPERCMDS) ID(userid or groupid) ACCESS(CONTROL)
```

2. To restrict the use of the C, CD, P, and PP action characters on the Display Active Users panel, define the restrictive profiles:

```
RDEFINE OPERCMDS jess.CANCEL.** UACC(NONE)
RDEFINE OPERCMDS MVS.CANCEL.TSU.** UACC(NONE)
```

To restrict the canceling of active APPC transaction programs define the profile:

```
RDEFINE OPERCMDS MVS.CANCEL.ATX.** UACC(NONE)
```

Giving UPDATE authority to only these three profiles will limit action character use to C, CD, P and PP on the Display Active Users panel.

## Setting up generic profiles

You can set up different levels of generic profiles to allow use of different kinds of SDSF commands:

| Generic Profile        | Type of Command                | Protects  |
|------------------------|--------------------------------|---|
| <b>ISFCMD.**</b>       | All                            | All SDSF authorized commands  |
| <b>ISFCMD.MAINT.*</b>  | Maintenance commands           | TRACE   |
| <b>ISFCMD.DSP.*</b>    | End user displays              | DA, H, I, JG, O, ST, SE, SYM  |
| <b>ISFCMD.ODSP.*</b>   | Operator displays              | AD, APF, AS, AW, BPXO, CAT, CF, CFC, CFD, CFS, CFSA, CK, CKPT, CMO, CS, CSR, DASH, DEV, DEVS, DYNX, EDT, ELOG, EMCS, ENC, ENQ, FS, FXEGT, INIT, JES, JC, Job Resource Limits, JP, JRG, JRI, JRJ, JRJC, JRU, JO, LI, LLS, LNK, LOG, LPA, LPAR, LPD, MAS, MEM, MFD, MFJ, MFM, MFP, NA, NAP, NC, NO, NS, PAG, PARM, PC, PLEX, PPT, PR, PROC, PROD, PS, PUN, RAC, RACF Access, RACF Browse, RACF Connects, RACD, RACF, , RACO, RACP, RACR, RDR, REPC, RES, RGRP, RLOG, RM, RMA, SMFD, SMFL, SMFO, SMFR, SMFS, SMSG, SMSV, SO, SP, SR, SRVC, SSI, SVC, SYS, SYSP, ULOG, UCB, UNIX Threads, VMAP, VTOC, WKLD, WLM, XFCA, XCFM, XCFP |
| <b>ISFCMD.FILTER.*</b> | Filtering commands             | ACTION, DEST, FINDLIM, INPUT, OWNER, PREFIX, RSYS, SYSID, SYSNAME   |
| <b>ISFCMD.OPT.**</b>   | Parameters on the SDSF command | JESNAME, JES3NAME   |

## Multilevel Security

SDSF supports the multilevel security in z/OS V1R5. For information on implementing multilevel security, including the resources used with SDSF, see [z/OS Introduction and Release Guide](#).



# Chapter 7. Access to SDSF

For SDSF 2.5 and later, access to SDSF requires the following:

- The SDSF server must be active.
- The user must have READ access to the ISF.CONNECT.*sysname* resource in the SDSF class. This allows the connection to the SDSF server.
- The user must map to an SDSF group. For information about group membership, see [“Using SAF to control group membership”](#) on page 13.

## Membership in groups

You can control membership in groups defined by ISFPARMS using SAF. This is an alternative to using ISFPARMS to control membership in the groups.

### Controlling membership in groups

Define a resource in the SDSF class. The resource is shown in [Table 169 on page 263](#).

*Table 169. Authority Required for membership in an ISFPARMS group*

| Function            | Resource Name                        | Class | Access |
|---------------------|--------------------------------------|-------|--------|
| Membership in group | GROUP. <i>group-name.server-name</i> | SDSF  | READ   |

For more information, see [“Using SAF to control group membership”](#) on page 13.

### Example of protecting membership in a group in ISFPARMS

To authorize membership in a group in ISFPARMS, issue the following commands:

```
RDEFINE SDSF GROUP.group-name.server-name UACC(NONE)
PERMIT GROUP.group-name.server-name CLASS(SDSF) ID(userid or groupid)
ACCESS(READ)
```



# Chapter 8. Protecting SDSF panels and functions

This topic describes how to protect each of the primary SDSF panels and functions, and the action characters on the panels. It includes discussions and RACF examples.

## Authorized SDSF commands

The authorized SDSF commands are the SDSF commands that can be on the AUTH parameter in ISFPARMS, with the addition of OWNER, which can only be protected through SAF. If no SAF protection exists for the OWNER command, then all users can issue the OWNER command.

Only those SDSF panel commands (such as DA, I, and O) for which the user is authorized are displayed on the SDSF Primary Option Menu.

## Protecting SDSF authorized functions

Protect authorized SDSF commands by defining resource names in the SDSF class.

SDSF authorized commands and their resource names are listed in [Table 170 on page 265](#) and [Table 171 on page 266](#).

Table 170. SDSF Class Resources for Commands.

Replace *sysname* with the name of the system that the user is logged on to and *jessx* with the JES subsystem name.

| Command   | SDSF Class Resource Name | Class | Required Access |
|---|--------------------------|-------|-----------------|
| <b>ACTION</b>                                   | ISFCMD.FILTER.ACTION     | SDSF  | READ            |
| <b>DEST</b>                                     | ISFCMD.FILTER.DEST       | SDSF  | READ            |
| <b>FINDLIM</b>                                  | ISFCMD.FILTER.FINDLIM    | SDSF  | READ            |
| <b>INPUT</b>                                    | ISFCMD.FILTER.INPUT      | SDSF  | READ            |
| <b>JESNAME</b><br>parameter on SDSF<br>command  | ISFCMD.OPT.JESNAME       | SDSF  | READ            |
| <b>JES3NAME</b><br>parameter on SDSF<br>command | ISFCMD.OPT.JES3NAME      | SDSF  | READ            |
| <b>OWNER</b>                                    | ISFCMD.FILTER.OWNER      | SDSF  | READ            |
| <b>RSYS</b>                                     | ISFCMD.FILTER.RSYS       | SDSF  | READ            |
| <b>SYSID</b>                                    | ISFCMD.FILTER.SYSID      | SDSF  | READ            |
| <b>SYSNAME</b>                                  | ISFCMD.FILTER.SYSNAME    | SDSF  | READ            |

Table 170. SDSF Class Resources for Commands.

Replace *sysname* with the name of the system that the user is logged on to and *jesx* with the JES subsystem name.

(continued)

| Command      | SDSF Class Resource Name | Class | Required Access  |
|--------------|--------------------------|-------|--|
| <b>TRACE</b> | ISFCMD.MAINT.TRACE       | SDSF  | No access required. Client problem state modules only are traced.  |
|              | ISFCMD.MAINT.TRACE       | SDSF  | READ access required for client problem and authorized state modules only                                    |
|              | ISFCMD.MAINT.TRACE       | SDSF  | CONTROL access required for client problem and authorized state modules, and SDSFAUX data gathering subtasks |

The DEST command is protected like any other SDSF authorized command, but you can also protect the destination names used with the DEST command. What is actually shown on the tabular SDSF panels can be affected by your destination authority, as explained in [“Destination names” on page 429](#).

Table 171. SDSF Class Resources for Panels.

Replace *sysname* with the name of the system that the user is logged on to.

| Command or Panel Name | SDSF Class Resource Name                | Class | Required Access |
|-----------------------|---|-------|-----------------|
| <b>AD</b>             | ISFCMD.ODSP.AD. <i>sysname</i>          | SDSF  | READ            |
| <b>APF</b>            | ISFCMD.ODSP.APF. <i>sysname</i>         | SDSF  | READ            |
| <b>AS</b>             | ISFCMD.ODSP.AS. <i>sysname</i>          | SDSF  | READ            |
| <b>AW</b>             | ISFCMD.ODSP.AW. <i>sysname</i>          | SDSF  | READ            |
| <b>BPXO</b>           | ISFCMD.ODSP.OMVS. <i>sysname</i>        | SDSF  | READ            |
| <b>CAT</b>            | ISFCMD.ODSP.CATALOG. <i>sysname</i>     | SDSF  | READ            |
| <b>CF</b>             | ISFCMD.ODSP.CF. <i>sysname</i>          | SDSF  | READ            |
| <b>CFC</b>            | ISFCMD.ODSP.COUPLE. <i>sysname</i>      | SDSF  | READ            |
| <b>CFD</b>            | ISFCMD.ODSP.COUPLED.S. <i>sysname</i>   | SDSF  | READ            |
| <b>CFS</b>            | ISFCMD.ODSP.CFSTRUCT. <i>sysname</i>    | SDSF  | READ            |
| <b>CFSA</b>           | ISFCMD.ODSP.CFSACTIVITY. <i>sysname</i> | SDSF  | READ            |
| <b>CK</b>             | ISFCMD.ODSP.HCHECKER. <i>sysname</i>    | SDSF  | READ            |
| <b>CKPT</b>           | ISFCMD.ODSP.JESCKPT. <i>jesx</i>        | SDSF  | READ            |
| <b>CMO</b>            | ISFCMD.ODSP.STORAGE. <i>sysname</i>     | SDSF  | READ            |
| <b>CS</b>             | ISFCMD.ODSP.CS. <i>sysname</i>          | SDSF  | READ            |
| <b>CSI</b>            | ISFCMD.ODSP.CSI. <i>sysname</i>         | SDSF  | READ            |
| <b>CSR</b>            | ISFCMD.ODSP.CSR. <i>sysname</i>         | SDSF  | READ            |
| <b>DA</b>             | ISFCMD.DSP.ACTIVE. <i>jesx</i>          | SDSF  | READ            |

Table 171. SDSF Class Resources for Panels.

Replace *sysname* with the name of the system that the user is logged on to.

(continued)

| Command or Panel Name  | SDSF Class Resource Name   | Class | Required Access |
|------------------------|--|-------|-----------------|
| <b>DASH</b>            | ISFCMD.ODSP.SYSTEM. <i>sysname</i>   | SDSF  | READ            |
| <b>DEV</b>             | ISFCMD.ODSP.DEVACT. <i>sysname</i>   | SDSF  | READ            |
| <b>DEVS</b>            | ISFCMD.ODSP.DEVSPACE. <i>sysname</i>   | SDSF  | READ            |
| <b>DYNX</b>            | ISFCMD.ODSP.DYNX. <i>sysname</i>   | SDSF  | READ            |
| <b>EDT</b>             | ISFCMD.ODSP.EDT. <i>sysname</i>  | SDSF  | READ            |
| <b>ELOG</b>            | ISFCMD.ODSP.ELOG. <i>sysname</i>   | SDSF  | READ            |
| <b>EMCS</b>            | ISFCMD.ODSP.EMCS. <i>sysname</i>   | SDSF  | READ            |
| <b>ENC</b>             | ISFCMD.ODSP.ENCLAVE. <i>sysname</i>  | SDSF  | READ            |
| <b>ENQ, ENQC, ENQD</b> | ISFCMD.ODSP.ENQUEUE. <i>sysname</i>  | SDSF  | READ            |
| <b>FS</b>              | ISFCMD.ODSP.FILESYS. <i>sysname</i>  | SDSF  | READ            |
| <b>FXE</b>             | ISFCMD.ODSP.FXE. <i>sysname</i>  | SDSF  | READ            |
| <b>GT</b>              | ISFCMD.ODSP.TRACKER. <i>sysname</i>  | SDSF  | READ            |
| <b>H</b>               | ISFCMD.DSP.HELD. <i>jesx</i>   | SDSF  | READ            |
| <b>I</b>               | ISFCMD.DSP.INPUT. <i>jesx</i>  | SDSF  | READ            |
| <b>INIT</b>            | ISFCMD.ODSP.INITIATOR. <i>jesx</i>   | SDSF  | READ            |
| <b>JO (JES3 only)</b>  | ISFCMD.ODSP.JOB0. <i>jesx</i>  | SDSF  | READ            |
| <b>JC</b>              | ISFCMD.ODSP.JOBCLASS. <i>jesx</i>  | SDSF  | READ            |
| <b>JCS</b>             | ISFCMD.ODSP.GQE. <i>sysname</i>  | SDSF  | READ            |
| <b>JD</b>              | ISFCMD.ODSP.COUPLE. <i>sysname</i><br>ISFCMD.ODSP.DEVICE. <i>sysname</i><br>ISFCMD.ODSP.NETACT. <i>sysname</i> | SDSF  | READ            |
| <b>JDDN</b>            | ISFCMD.ODSP.DEVICE. <i>sysname</i>   | SDSF  | READ            |
| <b>JES</b>             | ISFCMD.ODSP.JES. <i>sysname</i>  | SDSF  | READ            |
| <b>JG (JES2 only)</b>  | ISFCMD.DSP.JGROUP. <i>jesx</i>   | SDSF  | READ            |
| <b>JM</b>              | ISFCMD.ODSP.STORAGE. <i>sysname</i>  | SDSF  | READ            |
| <b>JMO</b>             | ISFCMD.ODSP.STORAGE. <i>sysname</i>  | SDSF  | READ            |
| <b>JP</b>              | ISFCMD.ODSP.MAS. <i>jesx</i>   | SDSF  | READ            |
| <b>JRG</b>             | ISFCMD.ODSP.JRG. <i>jesx</i>   | SDSF  | READ            |
| <b>JRI</b>             | ISFCMD.ODSP.JESINFO. <i>jesx</i>   | SDSF  | READ            |
| <b>JRJ</b>             | ISFCMD.ODSP.JESINFO. <i>jesx</i>   | SDSF  | READ            |
| <b>JRJC</b>            | ISFCMD.ODSP.JRJC. <i>jesx</i>  | SDSF  | READ            |

Table 171. SDSF Class Resources for Panels.

Replace *sysname* with the name of the system that the user is logged on to.

(continued)

| Command or Panel Name            | SDSF Class Resource Name              | Class | Required Access                                 |
|----------------------------------|---------------------------------------|-------|---|
| <b>JRJJ (Job Resource Limit)</b> | ISFCMD.ODSP.JRJJ.jesx                 | SDSF  | READ  |
| <b>JRU</b>                       | ISFCMD.ODSP.JRU.jesx                  | SDSF  | READ  |
| <b>JT</b>                        | ISFCMD.ODSP.TCB.sysname               | SDSF  | READ  |
| <b>JY</b>                        | ISFDISP.DELAY.owner.jobname           | SDSF  | READ  |
| <b>LI</b>                        | ISFCMD.ODSP.LINE.jesx                 | SDSF  | READ  |
| <b>LLS</b>                       | ISFCMD.ODSP.LLS.sysname               | SDSF  | READ  |
| <b>LNK</b>                       | ISFCMD.ODSP.LNK.sysname               | SDSF  | READ  |
| <b>LOG</b>                       | ISFCMD.ODSP.SYSLOG.jesx               | SDSF  | READ  |
| <b>LPA</b>                       | ISFCMD.ODSP.LPA.sysname               | SDSF  | READ  |
| <b>LPAR</b>                      | ISFCMD.ODSP.LPAR.sysname              | SDSF  | READ  |
| <b>LPD</b>                       | ISFCMD.ODSP.LPD.sysname               | SDSF  | READ  |
| <b>MAS</b>                       | ISFCMD.ODSP.MAS.jesx                  | SDSF  | READ  |
| <b>MEM</b>                       | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | CONTROL (displays pages not currently paged in) |
|                                  | ISFCMD.ODSP.MEM.sysname               | SDSF  | READ (displays pages already paged in)          |
| <b>MFD</b>                       | ISFCMD.ODSP.MFD.sysname               | SDSF  | READ  |
| <b>MFJ</b>                       | ISFCMD.ODSP.MFJ.sysname               | SDSF  | READ  |
| <b>MFM</b>                       | ISFCMD.ODSP.MFM.sysname               | SDSF  | READ  |
| <b>MFP</b>                       | ISFCMD.ODSP.MFP.sysname               | SDSF  | READ  |
| <b>NA</b>                        | ISFCMD.ODSP.NETACT.sysname            | SDSF  | READ  |
| <b>NAP</b>                       | ISFCMD.ODSP.NETPORT.sysname           | SDSF  | READ  |
| <b>NC</b>                        | ISFCMD.ODSP.NC.jesx                   | SDSF  | READ  |
| <b>NODE</b>                      | ISFCMD.ODSP.NODE.jesx                 | SDSF  | READ  |
| <b>NS</b>                        | ISFCMD.ODSP.NS.jesx                   | SDSF  | READ  |
| <b>O</b>                         | ISFCMD.DSP.OUTPUT.jesx                | SDSF  | READ  |
| <b>PAG</b>                       | ISFCMD.ODSP.PAGE.sysname              | SDSF  | READ  |
| <b>PARM</b>                      | ISFCMD.ODSP.PARMLIB.sysname           | SDSF  | READ  |
| <b>PC</b>                        | ISFCMD.ODSP.PC.sysname                | SDSF  | READ  |
| <b>PLEX</b>                      | ISFCMD.ODSP.PLEX.sysname              | SDSF  | READ  |
| <b>PPT</b>                       | ISFCMD.ODSP.PPT.sysname               | SDSF  | READ  |

Table 171. SDSF Class Resources for Panels.

Replace *sysname* with the name of the system that the user is logged on to.

(continued)

| Command or Panel Name   | SDSF Class Resource Name     | Class | Required Access |
|-------------------------|------------------------------|-------|-----------------|
| <b>PR</b>               | ISFCMD.ODSP.PRINTER.jesx     | SDSF  | READ            |
| <b>PROC (JES2 only)</b> | ISFCMD.ODSP.PROCLIB.jesx     | SDSF  | READ            |
| <b>PROD</b>             | ISFCMD.ODSP.PROD.sysname     | SDSF  | READ            |
| <b>PS</b>               | ISFCMD.ODSP.PROCESS.sysname  | SDSF  | READ            |
| <b>PUN</b>              | ISFCMD.ODSP.PUNCH.jesx       | SDSF  | READ            |
| <b>RAC</b>              | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            |
| <b>RACD</b>             | ISFCMD.ODSP.RACD.sysname     | SDSF  | READ            |
| <b>RACF</b>             | ISFCMD.ODSP.RACF.sysname     | SDSF  | READ            |
| <b>RACP</b>             | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            |
| <b>RACO</b>             | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            |
| <b>RACR</b>             | ISFCMD.ODSP.RACR.sysname     | SDSF  | READ            |
| <b>RACU</b>             | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            |
| <b>RDR</b>              | ISFCMD.ODSP.READER.jesx      | SDSF  | READ            |
| <b>REPC</b>             | ISFCMD.ODSP.REPC.sysname     | SDSF  | READ            |
| <b>RES</b>              | ISFCMD.ODSP.RESOURCE.sysname | SDSF  | READ            |
| <b>RGRP</b>             | ISFCMD.ODSP.RGRP.sysname     | SDSF  | READ            |
| <b>RLOG</b>             | ISFCMD.ODSP.RLOG.sysname     | SDSF  | READ            |
| <b>RM (JES2 only)</b>   | ISFCMD.ODSP.RESMON.jesx      | SDSF  | READ            |
| <b>RMA</b>              | ISFCMD.ODSP.RESMON.jesx      | SDSF  | READ            |
| <b>SE</b>               | ISFCMD.DSP.SCHENV.sysname    | SDSF  | READ            |
| <b>SMFD</b>             | ISFCMD.ODSP.SMFDATA.sysname  | SDSF  | READ            |
| <b>SMFL</b>             | ISFCMD.ODSP.SMFDATA.sysname  | SDSF  | READ            |
| <b>SMFO</b>             | ISFCMD.ODSP.SMFDATA.sysname  | SDSF  | READ            |
| <b>SMFR</b>             | ISFCMD.ODSP.SMFDATA.sysname  | SDSF  | READ            |
| <b>SMFS</b>             | ISFCMD.ODSP.SMFDATA.sysname  | SDSF  | READ            |
| <b>SMSG</b>             | ISFCMD.ODSP.STORGRP.sysname  | SDSF  | READ            |
| <b>SMSV</b>             | ISFCMD.ODSP.SMSVOL.sysname   | SDSF  | READ            |
| <b>SO (JES2 only)</b>   | ISFCMD.ODSP.SO.jesx          | SDSF  | READ            |
| <b>SP</b>               | ISFCMD.ODSP.SPOOL.jesx       | SDSF  | READ            |
| <b>SR</b>               | ISFCMD.ODSP.SR.sysname       | SDSF  | READ            |
| <b>SRVC</b>             | ISFCMD.ODSP.SRVC.sysname     | SDSF  | READ            |
| <b>SSI</b>              | ISFCMD.ODSP.SUBSYS.sysname   | SDSF  | READ            |

Table 171. SDSF Class Resources for Panels.

Replace *sysname* with the name of the system that the user is logged on to.

(continued)

| Command or Panel Name | SDSF Class Resource Name     | Class | Required Access   |
|-----------------------|------------------------------|-------|---|
| <b>ST</b>             | ISFCMD.DSP.STATUS.jesx       | SDSF  | READ  |
| <b>SVC</b>            | ISFCMD.ODSP.SVC.sysname      | SDSF  | READ  |
| <b>SYM</b>            | ISFCMD.DSP.SYMBOL.sysname    | SDSF  | READ  |
| <b>SYS</b>            | ISFCMD.ODSP.SYSTEM.sysname   | SDSF  | READ  |
| <b>SYSP</b>           | ISFCMD.ODSP.PARMLIB.sysname  | SDSF  | READ  |
| <b>UCB</b>            | ISFCMD.ODSP.UCB.sysname      | SDSF  | READ  |
| <b>ULOG</b>           | ISFCMD.ODSP.ULOG.jesx        | SDSF  | READ access is required only when the custom property Console.EMCS.UlogAuthReq is set to TRUE |
| <b>UNIX Threads</b>   | ISFCMD.ODSP.THREADS.sysname  | SDSF  | READ  |
| <b>USI</b>            | ISFCMD.ODSP.USI.sysname      | SDSF  | READ  |
| <b>VMAP</b>           | ISFCMD.ODSP.VIRTSTOR.sysname | SDSF  | READ  |
| <b>VTOC</b>           | ISFCMD.ODSP.VTOC.sysname     | SDSF  | READ  |
| <b>WKLD</b>           | ISFCMD.ODSP.WKLD.sysname     | SDSF  | READ  |
| <b>WLM</b>            | ISFCMD.ODSP.WLM.sysname      | SDSF  | READ  |
| <b>XCFA</b>           | ISFCMD.ODSP.CFSERVER.sysname | SDSF  | READ  |
| <b>XCFM</b>           | ISFCMD.ODSP.CFMEMBER.sysname | SDSF  | READ  |
| <b>XCFP</b>           | ISFCMD.ODSP.CFPATH.sysname   | SDSF  | READ  |

## Examples of protecting commands

1. To protect all commands and grant access to user SHERRYF, issue the following:

```
RDEFINE SDSF ISFCMD.** UACC(NONE)
PERMIT ISFCMD.** CLASS(SDSF) ID(SHERRYF) ACCESS(READ)
```

2. To allow access only to the DA, H, I, JG, O, SE, ST and SYM panels, issue the following:

```
RDEFINE SDSF ISFCMD.DSP.** UACC(NONE)
PERMIT ISFCMD.DSP.** CLASS(SDSF) ID(SHERRYF) ACCESS(READ)
```

3. To protect the DA command, issue the following:

```
RDEFINE SDSF ISFCMD.DSP.ACTIVE.jesx UACC(NONE)
PERMIT ISFCMD.DSP.ACTIVE.jesx CLASS(SDSF) ID(SHERRYF) ACCESS(READ)
```



## Address spaces (AD panel)

### Protecting address spaces

To protect address spaces displayed by the AD panel, define resource names in the SDSF class.

The resources are shown in [Table 172 on page 271](#).

Table 172. Resources for Address Spaces

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| <b>FJ</b>        | ISFCMD.ODSP.MFJ.sysname               | SDSF  | READ  | ALL |
| <b>FP</b>        | ISFCMD.ODSP.MFP.sysname               | SDSF  | READ  | ALL |
| <b>JC</b>        | ISFCMD.ODSP.CDE.sysname               | SDSF  | READ  | ALL |
|                  | ISFJOB.MODULE.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JCM</b>       | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
| <b>JCS</b>       | ISFCMD.ODSP.GQE.sysname               | SDSF  | READ  | ALL |
| <b>JDCC</b>      | ISFCMD.ODSP.COUPLE.sysname            | SDSF  | READ  | ALL |
| <b>JDD</b>       | ISFCMD.ODSP.DEVICE.sysname            | SDSF  | READ  | ALL |
|                  | ISFJOB.DDNAME.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JDNA</b>      | ISFCMD.ODSP.NETACT.sysname            | SDSF  | READ  | ALL |
| <b>JM</b>        | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JMO</b>       | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JT</b>        | ISFCMD.ODSP.TCB.sysname               | SDSF  | READ  | ALL |
|                  | ISFJOB.TASK.owner.jobname.xsysname    | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>LE</b>        | ISFCMD.ODSP.ENCLAVE.sysname           | SDSF  | READ  | ALL |

Table 172. Resources for Address Spaces (continued)

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>LU</b>        | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.USER.sysname   | SDSF  | READ            | ALL |
| <b>N</b>         | ISFCMD.ODSP.ENQUEUE.sysname  | SDSF  | READ            | ALL |

To control access to the AD panel, protect the AD command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting address spaces

To protect an address space and permit a user to control it, define a generic profile as follows:

```
RDEFINE SDSF ISFCMD.ODSP.AD.sysname UACC(NONE)
PERMIT ISFCMD.ODSP.AD.sysname CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Authorized program facility data sets (APF panel)

To protect authorized program facility data sets displayed on the APF panel, define resource names in the SDSF, OPERCMDS, and FACILITY classes.

The resources are shown in [Table 173](#) on page 272.

Table 173. Resources for Authorized Program Facility Data Sets

| Action Character         | Resource Name                 | Class    | Access Required | JES |
|--------------------------|-------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b>    | ISFAPF.dsname                 | SDSF     | READ            | ALL |
|                          | MVS.DISPLAY.PROG              | OPERCMDS | READ            |     |
| <b>FD</b>                | ISFCMD.ODSP.MFM.sysname       | SDSF     | READ            | ALL |
| <b>FJ</b>                | ISFCMD.ODSP.MFJ.sysname       | SDSF     | READ            | ALL |
| <b>LA</b>                | ISFCMD.ODSP.RACFLIST.sysname  | SDSF     | READ            | ALL |
|                          | ISFRACF.CLASS.DATASET.sysname | SDSF     | READ            | ALL |
| <b>LCK</b>               | ISFCMD.ODSP.HCHECKER.sysname  | SDSF     | READ            | ALL |
| <b>LP</b>                | ISFCMD.ODSP.RACFLIST.sysname  | SDSF     | READ            | ALL |
|                          | ISFRACF.CLASS.DATASET.sysname | SDSF     | READ            | ALL |
| <b>NEW</b><br><b>REM</b> | CSVAPF.dsname                 | FACILITY | UPDATE          | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the APF panel, protect the APF command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting authorized program facility data sets

To protect all authorized program facility data sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFAPF.** UACC(NONE)
PERMIT ISFAPF.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Address space memory (AS panel)

### Protecting address space memory

Protect address space memory by defining resource names in the SDSF class. The resources are shown in Table 174 on page 273.

Table 174. Resources for Address Space Memory

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| <b>JC</b>        | ISFCMD.ODSP.CDE.sysname               | SDSF  | READ  | ALL |
|                  | ISFJOB.MODULE.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JCM</b>       | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
| <b>JCS</b>       | ISFCMD.ODSP.GQE.sysname               | SDSF  | READ  | ALL |
| <b>JD</b>        | ISFCMD.ODSP.DEVICE.sysname            | SDSF  | READ  | ALL |
|                  | ISFJOB.DDNAME.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JDCC</b>      | ISFCMD.ODSP.COUPLE.sysname            | SDSF  | READ  | ALL |
| <b>JDD</b>       | ISFCMD.ODSP.DEVICE.sysname            | SDSF  | READ  | ALL |
|                  | ISFJOB.DDNAME.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JDNA</b>      | ISFCMD.ODSP.NETACT.sysname            | SDSF  | READ  | ALL |
| <b>JM</b>        | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JMO</b>       | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |

Table 174. Resources for Address Space Memory (continued)

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JT</b>        | ISFCMD.ODSP.TCB.sysname               | SDSF  | READ  | ALL |
|                  | ISFJOB.TASK.owner.jobname.xsysname    | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>LE</b>        | ISFCMD.ODSP.ENCLAVE.sysname           | SDSF  | READ  | ALL |
| <b>LU</b>        | ISFCMD.ODSP.RACFLIST.sysname          | SDSF  | READ  | ALL |
|                  | ISFRACF.CLASS.USER.sysname            | SDSF  | READ  | ALL |
| <b>N</b>         | ISFCMD.ODSP.ENQUEUE.sysname           | SDSF  | READ  | ALL |

To control access to the AS panel, protect the AS command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting address space memory

To protect an address space and permit a user to control it, define a generic profile as follows:

```
RDEFINE SDSF ISFCMD.ODSP.AS.sysname UACC(NONE)
PERMIT ISFCMD.ODSP.AS.sysname CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Address space by WLM class (AW panel)

To protect address spaces by WLM class that are displayed on the AW panel, define resource names in the SDSF class.

The resources are shown in [Table 175 on page 274](#).

Table 175. Resources for Address Spaces by WLM Class

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| <b>L</b>         | ISFCMD.DSP.ACTIVE.jesx      | SDSF  | READ            | ALL |
| <b>LE</b>        | ISFCMD.ODSP.ENCLAVE.sysname | SDSF  | READ            | ALL |

To control access to the AW panel, protect the AW command. This is described in [“Authorized SDSF commands”](#) on page 265.

## OMVS options (BPXO panel)

### Protecting OMVS options

To protect OMVS options displayed on the BPXO panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 176 on page 275](#).

Table 176. Resources for OMVS Options

| Action Character | Resource Name               | Class    | Access Required | JES |
|------------------|-----------------------------|----------|-----------------|-----|
| DO               | ISFOMVS. <i>option-name</i> | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.OMVS            | OPERCMDS | READ            |     |
| N                | ISFOMVS.MAXFILESIZE         | SDSF     | UPDATE          | ALL |
|                  | MVS.SETOMVS.OMVS            | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the OMVS panel, protect the BPXO command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting OMVS options

To protect OMVS options and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFOMVS.** UACC(NONE)
PERMIT ISFOMVS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Catalog data sets panel (CAT panel)

### Protecting catalog data sets

To protect catalog data sets displayed by the CAT panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 177 on page 275](#).

Table 177. Resources for Catalog Data Sets

| Action Character | Resource Name                         | Class    | Access Required | JES |
|------------------|---------------------------------------|----------|-----------------|-----|
| D<br>DC<br>DS    | ISFOBJ.CAT. <i>dsname</i>             | SDSF     | READ            | ALL |
|                  | MVS.MODIFY.STC.CATALOG.CATALOG.SECURE | OPERCMDS | READ            |     |
| LA<br>LP         | ISFCMD.ODSP.RACFLIST. <i>sysname</i>  | SDSF     | READ            | ALL |
| LCK              | ISFCMD.ODSP.HCHECKER. <i>sysname</i>  | SDSF     | READ            | ALL |
| LVT              | ISFCMD.ODSP.VTOC. <i>sysname</i>      | SDSF     | READ            | ALL |

Table 177. Resources for Catalog Data Sets (continued)

| Action Character     | Resource Name                         | Class    | Access Required | JES |
|----------------------|---------------------------------------|----------|-----------------|-----|
| VL<br>VR<br>VS<br>VU | ISFOBJ.CAT.dsname                     | SDSF     | READ            | ALL |
|                      | MVS.MODIFY.STC.CATALOG.CATALOG.SECURE | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see “Table of action characters that generate system commands by OPERCMDS resource” on page 372.

To control access to the CAT panel, protect the CAT command. This is described in “Authorized SDSF commands” on page 265.

## Example of protecting catalog data sets

To protect catalog data sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFOBJ.** UACC(NONE)
PERMIT ISFOBJ.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Coupling facilities (CF panel)

### Protecting coupling facilities

To protect coupling facilities displayed on the CF panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in Table 178 on page 276.

Table 178. Resources for Coupling Facilities

| Action Character | Resource Name                | Class    | Access Required | JES |
|------------------|------------------------------|----------|-----------------|-----|
| D<br>DA          | ISFCF.cfname                 | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| LC               | ISFCMD.ODSP.COUPLE.sysname   | SDSF     | READ            | ALL |
| LCK              | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |
| LS               | ISFCMD.ODSP.CFSTRUCT.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see “Table of action characters that generate system commands by OPERCMDS resource” on page 372.

To control access to the CF panel, protect the CF command. This is described in “Authorized SDSF commands” on page 265.

### Example of protecting coupling facilities

To protect a coupling facility and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFCF.** UACC(NONE)
PERMIT ISFCF.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Coupling facility connections (CFC panel)

### Protecting CF connections

To protect coupling facility connections displayed on the CFC panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 179 on page 277](#).

Table 179. Resources for CF Connections

| Action Character | Resource Name                | Class    | Access Required | JES |
|------------------|------------------------------|----------|-----------------|-----|
| D<br>DA<br>DS    | ISFCFC.cfname                | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| LCK              | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |
| LP               | ISFCMD.ODSP.CFPATH.sysname   | SDSF     | READ            | ALL |
| LS               | ISFCMD.ODSP.CFSTRUCT.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

To control access to the CFC panel, protect the CFC command. This is described in “[Authorized SDSF commands](#)” on page 265.

### Example of protecting CF connections

To protect a CF connection and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFCFC.** UACC(NONE)
PERMIT ISFCFC.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Coupling facility data sets (CFD panel)

### Protecting CF data sets

To protect CF data sets displayed on the CFD panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 180 on page 277](#).

Table 180. Resources for CF Data Sets

| Action Character | Resource Name   | Class    | Access Required | JES |
|------------------|-----------------|----------|-----------------|-----|
| D<br>DA          | ISFCFD.function | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF | OPERCMDS | READ            |     |

Table 180. Resources for CF Data Sets (continued)

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>LCK</b>       | ISFCMD.ODSP.HCHECKER.sysname | SDSF  | READ            | ALL |
| <b>LVT</b>       | ISFCMD.ODSP.VTOC.sysname     | SDSF  | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the CFD panel, protect the CFD command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting coupling facility data sets

To protect a coupling facility data set and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFCFD.** UACC(NONE)
PERMIT ISFCFD.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Coupling facility structures (CFS panel)

### Protecting CF structures

To protect CF structures displayed on the CFS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 181](#) on page 278.

Table 181. Resources for CF Structures

| Action Character      | Resource Name                   | Class   | Access Required | JES |
|-----------------------|---------------------------------|---------|-----------------|-----|
| <b>D</b><br><b>DA</b> | ISFCFS.structurename            | SDSF    | READ            | ALL |
|                       | MVS.DISPLAY.XCF                 | OPERCMD | READ            |     |
| <b>L</b>              | ISFCMD.ODSP.CFSACTIVITY.sysname | SDSF    | READ            | ALL |
| <b>LC</b>             | ISFCMD.ODSP.COUPLE.sysname      | SDSF    | READ            | ALL |
| <b>LCK</b>            | ISFCMD.ODSP.HCHECKER.sysname    | SDSF    | READ            | ALL |
| <b>LP</b>             | ISFCMD.ODSP.CFPATH.sysname      | SDSF    | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the CFS panel, protect the CFS command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of CF protecting structures

To protect a CF structure and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFCFS.** UACC(NONE)
PERMIT ISFCFS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```



## Coupling facility structure activity (CFSA panel)

### Protecting CF structure activity

To protect CF structure activity displayed on the CFSA panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 182 on page 279](#).

Table 182. Resources for CF Structure Activity

| Action Character      | Resource Name                | Class    | Access Required | JES |
|-----------------------|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b> | ISFCFSA.structurename        | SDSF     | READ            | ALL |
|                       | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| <b>L</b>              | ISFCMD.ODSP.CFSTRUCT.sysname | SDSF     | READ            | ALL |
| <b>LCK</b>            | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the CFSA panel, protect the CFSA command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting CF structure activity

To protect CF structure activity and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFCFSA.** UACC(NONE)
PERMIT ISFCFSA.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## IBM Health Checker for z/OS checks (CK panel)

You can protect the checks from IBM Health Checker for z/OS that are displayed on the CK panel.

### Protecting checks

To protect health checks displayed on the CK panel, define resource names in the SDSF, XFACILIT, and OPERCMDS classes.

The resources are shown in [Table 183 on page 279](#).

Table 183. Resources for Checks

| Action Character | Resource Name                             | Class    | Access Required | JES |
|------------------|---|----------|-----------------|-----|
| <b>A</b>         | HZS.sysname.checkowner.checkname.ACTIVATE | XFACILIT | UPDATE          | ALL |
|                  | MVS.MODIFY.STC.procname.stcid             | OPERCMDS | UPDATE          |     |

Table 183. Resources for Checks (continued)

| Action Character   | Resource Name                               | Class    | Access Required | JES |
|--|---|----------|-----------------|-----|
| <b>D</b><br><b>DD</b><br><b>DL</b><br><b>DP</b><br><b>DPO</b><br><b>DS</b> | HZS.sysname.checkowner.checkname.QUERY      | XFACILIT | READ            | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | UPDATE          |     |
| <b>E</b>   | HZS.sysname.checkowner.checkname.REFRESH    | XFACILIT | CONTROL         | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | CONTROL         |     |
| <b>H</b>   | HZS.sysname.checkowner.checkname.DEACTIVATE | XFACILIT | UPDATE          | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | UPDATE          |     |
| <b>P</b><br><b>PF</b>  | HZS.sysname.checkowner.checkname.DELETE     | XFACILIT | CONTROL         | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | CONTROL         |     |
| <b>R</b>   | HZS.sysname.checkowner.checkname.RUN        | XFACILIT | UPDATE          | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | UPDATE          |     |
| <b>S</b> (all forms)<br><b>X</b> (all forms)                               | HZS.sysname.checkowner.checkname.MESSAGES   | XFACILIT | READ            | ALL |
| <b>U</b>   | HZS.sysname.checkowner.checkname.UPDATE     | XFACILIT | UPDATE          | ALL |
|  | MVS.MODIFY.STC.procname.stcid               | OPERCMDS | UPDATE          |     |

Protect access to the log stream that is used to record check history by defining a resource in the LOGSTRM class.

Table 184. Authority Required to the Log Stream Used for Check History

| Action Character                          | Resource Name   | Class   | Access Required | JES |
|---|-----------------|---------|-----------------|-----|
| <b>L</b> action character on the CK panel | log-stream-name | LOGSTRM | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the CK panel, protect the CK command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting checks

To protect all checks and permit a user to control the checks, you can define generic profiles as follows:

```
RDEFINE XFACILIT HZS.** UACC(NONE)
```

PERMIT HZS.\*\* CLASS(XFACILIT) ID(userid or groupid) ACCESS(CONTROL)

## Common memory objects (CMO panel)

No action characters that require resources are available on the CMO panel.

To control access to the CMO panel, protect the CMO command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Common storage subpools (CS panel)

To protect common storage subpools displayed on the CS panel, define resource names in the SDSF class.

The resources are shown in [Table 185](#) on page 281.

Table 185. Resources for Common Storage Subpools

| Action Character | Resource Name           | Class | Access Required | JES |
|------------------|-------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.CSI.sysname | SDSF  | READ            | ALL |

To control access to the CS panel, protect the CS command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Common storage remaining (CSR panel)

To protect common storage remaining displayed on the CSR panel, define resource names in the SDSF class.

The resources are shown in [Table 186](#) on page 281.

Table 186. Resources for Common Storage Remaining

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| JCM              | ISFCMD.ODSP.STORAGE.sysname | SDSF  | READ            | ALL |
| JCS              | ISFCMD.ODSP.GQE.sysname     | SDSF  | READ            | ALL |

To control access to the CSR panel, protect the CSR command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Display active users (DA panel)

To protect active jobs, users, started tasks, and initiators displayed on the DA panel, define resource names in the SDSF, JESSPOOL, and OPERCMDS classes.

The resources are shown in [Table 187](#) on page 281.

Table 187. Resources for DA Panel Objects

| Action Character | Resource Name              | Class    | Access Required | JES  |
|------------------|----------------------------|----------|-----------------|------|
| A                | nodeid.owner.jobname.jobid | JESSPOOL | ALTER           | ALL  |
|                  | jesx.MODIFYRELEASE.type    | OPERCMDS | UPDATE          | JES2 |
|                  | jesx.MODIFY.JOB            | OPERCMDS | UPDATE          | JES3 |

Table 187. Resources for DA Panel Objects (continued)

| Action Character  | Resource Name                     | Class    | Access Required | JES  |
|---|-----------------------------------|----------|-----------------|------|
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b><br><b>P</b><br><b>PP</b>               | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |
|   | <i>jesx.CANCEL.type</i>           | OPERCMDS | UPDATE          | JES2 |
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b><br><b>CDP</b><br><b>CP</b><br><b>P</b> | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES3 |
|   | <i>jesx.MODIFY.JOB</i>            | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES2 |
|   | <i>jesx.DISPLAY.type</i>          | OPERCMDS | READ            | JES2 |
| <b>D</b><br><b>DSD</b><br><b>DSH</b><br><b>DSP</b><br><b>DX</b>                         | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|   | <i>jesx.DISPLAY.JOB</i>           | OPERCMDS | READ            | JES3 |
| <b>DE</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|   | <i>jesx.DISPLAY.JOBE</i>          | OPERCMDS | READ            | JES3 |
| <b>DL</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|   | <i>jesx.DISPLAY.A</i>             | OPERCMDS | READ            | JES3 |
| <b>E</b><br><b>EC</b><br><b>ES</b><br><b>ESH</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | CONTROL         | JES2 |
|   | <i>jesx.RESTART.type</i>          | OPERCMDS | CONTROL         | JES2 |
| <b>E</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES3 |
|   | <i>jesx.RESTART.DEV.sysname</i>   | OPERCMDS | CONTROL         | JES3 |
| <b>FJ</b>   | <i>ISFCMD.ODSP.MFJ.sysname</i>    | SDSF     | READ            | JES2 |
| <b>FP</b>   | <i>ISFCMD.ODSP.MFP.sysname</i>    | SDSF     | READ            | JES2 |
| <b>H</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |

Table 187. Resources for DA Panel Objects (continued)

| <b>Action Character</b> | <b>Resource Name</b>                               | <b>Class</b> | <b>Access Required</b>                                  | <b>JES</b> |
|-------------------------|--|--------------|---|------------|
|                         | <i>jesx.MODIFYHOLD.type</i>                        | OPERCMDS     | UPDATE  | JES2       |
|                         | <i>jesx.MODIFY.JOB</i>                             | OPERCMDS     | UPDATE  | JES3       |
| <b>JC</b>               | ISFCMD.ODSP.CDE. <i>sysname</i>                    | SDSF         | READ  | ALL        |
|                         | ISFJOB.MODULE. <i>owner.jobname.xsysname</i>       | SDSF         | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL        |
| <b>JCM</b>              | ISFCMD.ODSP.STORAGE. <i>sysname</i>                | SDSF         | READ  | ALL        |
| <b>JCS</b>              | ISFCMD.ODSP.GQE. <i>sysname</i>                    | SDSF         | READ  | ALL        |
| <b>JD</b>               | ISFCMD.ODSP.DEVICE. <i>sysname</i>                 | SDSF         | READ  | ALL        |
|                         | ISFCMD.ODSP.NETACT. <i>sysname</i>                 | SDSF         | READ  | ALL        |
|                         | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>       | SDSF         | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL        |
| <b>JDCC</b>             | ISFCMD.ODSP.COUPLE. <i>sysname</i>                 | SDSF         | READ  | ALL        |
| <b>JDD</b>              | ISFCMD.ODSP.DEVICE. <i>sysname</i>                 | SDSF         | READ  | ALL        |
|                         | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>       | SDSF         | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL        |
| <b>JDNA</b>             | ISFCMD.ODSP.NETACT. <i>sysname</i>                 | SDSF         | READ  | ALL        |
| <b>JM</b>               | ISFCMD.ODSP.STORAGE. <i>sysname</i>                | SDSF         | READ  | ALL        |
| <b>JMO</b>              | ISFJOB.STORAGE. <i>owner.jobname.xsysname</i>      | SDSF         | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL        |
| <b>JS</b>               | <i>nodeid.jobname.owner.jobid.EVENTLOG.SMFSTEP</i> | SDSF         | READ  | JES2       |
| <b>JT</b>               | ISFCMD.ODSP.TCB. <i>sysname</i>                    | SDSF         | READ  | ALL        |
|                         | ISFJOB.TASK. <i>owner.jobname.xsysname</i>         | SDSF         | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL        |
| <b>JY</b>               | ISFDISP.DELAY. <i>owner.jobname</i>                | SDSF         | READ  | ALL        |

Table 187. Resources for DA Panel Objects (continued)

| Action Character                                | Resource Name                                   | Class    | Access Required | JES  |
|---|---|----------|-----------------|------|
| <b>K</b><br><b>KD</b>                           | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | ALTER           | ALL  |
|   | <i>MVS.CANCEL.type.jname</i>                    | OPERCMDS | UPDATE          |      |
| <b>L</b><br><b>LL</b>                           | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | READ            | ALL  |
|   | <i>jesx.DISPLAY.typeOUT</i>                     | OPERCMDS | READ            | JES2 |
| <b>LE</b>                                       | <i>ISFCMD.ODSP.ENCLAVE.sysname</i>              | SDSF     | READ            | JES2 |
| <b>LU</b>                                       | <i>ISFCMD.ODSP.RACFLIST.sysname</i>             | SDSF     | READ            | JES2 |
|   | <i>ISFRACF.CLASS.USER.sysname</i>               | SDSF     | READ            | JES2 |
| <b>L</b><br><b>LB</b><br><b>LH</b><br><b>LT</b> | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | READ            | JES3 |
|   | <i>jesx.DISPLAY.U</i>                           | OPERCMDS | READ            | JES3 |
| <b>N</b>  | <i>ISFCMD.ODSP.ENQUEUE.sysname</i>              | SDSF     | READ            | ALL  |
| <b>R</b><br><b>RQ</b>                           | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | ALTER           | ALL  |
|   | <i>MVS.RESET</i>                                | OPERCMDS | UPDATE          |      |
| <b>W</b>  | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | ALTER           | ALL  |
|   | <i>jesx.MODIFY.type</i>                         | OPERCMDS | UPDATE          | JES2 |
|   | <i>jesx.MODIFY.JOB</i>                          | OPERCMDS | UPDATE          | JES3 |
| <b>S and X</b><br><b>(all forms)</b>            | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i> | JESSPOOL | READ            | ALL  |
| <b>Y</b>  | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | UPDATE          | ALL  |
|   | <i>MVS.STOP.JOB.jname</i>                       | OPERCMDS | UPDATE          |      |
| <b>Z</b>  | <i>nodeid.owner.jobname.jobid</i>               | JESSPOOL | ALTER           | ALL  |
|   | <i>MVS.FORCE.jtype.jname</i>                    | OPERCMDS | CONTROL         |      |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

To control access to the DA panel, protect the DA command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Dashboard (DASH panel)

No action characters that require resources are available on the DASH panel.

To control access to the DASH panel, protect the DASH command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Device information (DEV panel)

To protect devices displayed on the DEV panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 188 on page 285](#).

Table 188. Resources for Device Activity

| Action Character                                       | Resource Name                | Class    | Access Required | JES |
|--|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b><br><b>DI</b>                     | ISFDEV.volser                | SDSF     | READ            | ALL |
|  | MVS.DISPLAY.U                | OPERCMDS | READ            |     |
| <b>DSP</b><br><b>DSQD</b><br><b>DSQP</b><br><b>DSS</b> | ISFDEV.volser                | SDSF     | READ            | ALL |
|  | MVS.DEVSERV                  | OPERCMDS | READ            |     |
| <b>LS</b>  | ISFCMD.ODSP.DEVSPACE.sysname | SDSF     | READ            | ALL |
|  | ISFCMD.ODSP.SMSVOL.sysname   | SDSF     | READ            | ALL |
| <b>LVT</b>   | ISFCMD.ODSP.VTOC.sysname     | SDSF     | READ            | ALL |
| <b>V</b><br><b>VF</b>                                  | ISFDEV.volser                | SDSF     | CONTROL         | ALL |
|  | MVS.VARY.DEV                 | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the DEV panel, protect the DEV command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting device information

To protect device information and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFDEV.** UACC(NONE)
PERMIT ISFDEV.** CLASS(SDSF) ID(userid) ACCESS(CONTROL)
```

## Device space activity information (DEVS panel)

To protect device space activity displayed on the DEVS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 189 on page 286](#).

Table 189. Resources for Device Space Activity

| Action Character           | Resource Name      | Class    | Access Required | JES |
|----------------------------|--------------------|----------|-----------------|-----|
| DA                         | ISFOBJ.DEVS.volser | SDSF     | READ            | ALL |
|                            | MVS.DISPLAY.U      | OPERCMDS | READ            |     |
| DSP<br>DSQD<br>DSQP<br>DSS | ISFOBJ.DEVS.volser | SDSF     | READ            | ALL |
|                            | MVS.DEVSERV        | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the DEVS panel, protect the DEVS command. This is described in [“Authorized SDSF commands” on page 265](#).

## Dynamic exit information (DYNX panel)

### Protecting dynamic exits

To protect dynamic exits displayed on the DYNX panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 190 on page 286](#).

Table 190. Resources for Dynamic Exits

| Action Character                        | Resource Name    | Class    | Access Required | JES |
|---|------------------|----------|-----------------|-----|
| A                                       | ISFDYNX.exitname | SDSF     | UPDATE          | ALL |
|   | MVS.SET.PROG     | OPERCMDS | UPDATE          |     |
| D<br>DA<br>DAI<br>DD<br>DI<br>DNP<br>DP | ISFDYNX.exitname | SDSF     | READ            | ALL |
|   | MVS.DISPLAY.PROG | OPERCMDS | READ            |     |
| H                                       | ISFDYNX.exitname | SDSF     | UPDATE          | ALL |
|   | MVS.SET.PROG     | OPERCMDS | UPDATE          |     |



Table 190. Resources for Dynamic Exits (continued)

| Action Character      | Resource Name            | Class    | Access Required | JES |
|-----------------------|--------------------------|----------|-----------------|-----|
| <b>P</b><br><b>PF</b> | ISFDYNX. <i>exitname</i> | SDSF     | ALTER           | ALL |
| <b>P</b>              | MVS.SET.PROG             | OPERCMDS | UPDATE          |     |
| <b>U</b>              | ISFDYNX. <i>exitname</i> | SDSF     | ALTER           | ALL |
|                       | MVS.SET.PROG             | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the DYNX panel, protect the DYNX command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting dynamic exits

To protect dynamic exits and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFDYNX.** UACC(NONE)
PERMIT ISFDYNX.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Eligible device table (EDT panel)

To protect eligible devices displayed on the EDT panel, define resource names in the SDSF class.

The resources are shown in [Table 191 on page 287](#).

Table 191. Resources for the Eligible Device Table

| Action Character      | Resource Name                   | Class | Access Required | JES |
|-----------------------|---------------------------------|-------|-----------------|-----|
| <b>L</b><br><b>LA</b> | ISFCMD.ODSP.UCB. <i>sysname</i> | SDSF  | READ            | ALL |

To control access to the EDT panel, protect the EDT command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Event log (ELOG panel)

### Protecting the event log

To protect events displayed on the ELOG panel, define resource names in the SDSF class.

The resources are shown in [Table 192 on page 287](#).

Table 192. Resources for the Event Log

| Action Character | Resource Name                      | Class | Access Required | JES |
|------------------|------------------------------------|-------|-----------------|-----|
| <b>L</b>         | ISFCMD.ODSP.SYSLOG. <i>sysname</i> | SDSF  | READ            | ALL |

Table 192. Resources for the Event Log (continued)

| Action Character     | Resource Name                                       | Class    | Access Required | JES |
|----------------------|---|----------|-----------------|-----|
| <b>LI</b>            | ISFCMD.ODSP.DYNX.sysname<br>ISFCMD.ODSP.RESMON.jesx | SDSF     | READ            | ALL |
| <b>S (all forms)</b> | nodeid.userid.jobname.jobid.Ddsid.dsname            | JESSPOOL | READ            | ALL |

To control access to the ELOG panel, protect the ELOG command. This is described in [“Authorized SDSF commands”](#) on page 265.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

## EMCS consoles information (EMCS panel)

### Protecting EMCS consoles

To protect extended consoles display on the EMCS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 193 on page 288](#).

Table 193. Resources for EMCS Consoles

| Action Character      | Resource Name       | Class    | Access Required | JES |
|-----------------------|---------------------|----------|-----------------|-----|
| <b>D</b><br><b>DL</b> | ISFEMCS.consolename | SDSF     | READ            | ALL |
|                       | MVS.DISPLAY.EMCS    | OPERCMDS | READ            |     |
| <b>E</b>              | ISFEMCS.consolename | SDSF     | CONTROL         | ALL |
|                       | MVS.RESET.CN        | OPERCMDS | CONTROL         |     |
| <b>P</b>              | ISFEMCS.consolename | SDSF     | UPDATE          | ALL |
|                       | MVS.SETCON.DELETE   | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the EMCS panel, protect the EMCS command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting EMCS consoles

To protect EMCS consoles and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFEMCS.** UACC(NONE)
PERMIT ISFEMCS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Enclaves (ENC panel)

### Protecting enclaves

To protect Workload Manager enclaves displayed on the ENC panel, define resource names in the SDSF class.

The resources are shown in [Table 194 on page 289](#).

Table 194. Resources for Enclaves

| Action Character | Resource Name                        | Class | Access Required | JES |
|------------------|--------------------------------------|-------|-----------------|-----|
| R<br>RQ          | ISFENC.subsystem-type.subsystem-name | SDSF  | ALTER           | ALL |

To control access to the ENC panel, protect the ENC command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting enclaves

To protect all enclaves and permit a user to control them, define a generic profile as follows:

```
RDEFINE SDSF ISFENC.** UACC(NONE)
PERMIT ISFENC.** CLASS(SDSF) ID(userid) ACCESS(ALTER)
```

## Enqueue information (ENQ, ENQC, ENQD panels)

### Protecting enqueue information

To protect system enqueues displayed on the ENQ, ENQC, and ENQD panels, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 195 on page 289](#).

Table 195. Resources for Enqueue Information

| Action Character | Resource Name            | Class    | Access Required | JES |
|------------------|--------------------------|----------|-----------------|-----|
| D                | ISFENQ.majorname.sysname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.GRS          | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the ENQ, ENQC, and ENQD panels, protect their respective commands. This is described in [“Authorized SDSF commands” on page 265](#).

To protect the N action character to display enqueues from the DA panel, protect the ENQ command. This is described in [“Authorized SDSF commands” on page 265](#). The N action is valid only in the interactive environment. It is not supported in REXX, Java, or the z/OSMF. You can obtain this information by invoking the ENQ panel directly and implementing logic to filter by ASID.

### Example of protecting enqueue information

To protect enqueue information and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFENQ.** UACC(NONE)
PERMIT ISFENQ.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## File system information (FS panel)

### Protecting file systems

To protect file systems displayed on the FS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 196 on page 290](#).

Table 196. Resources for File Systems

| Action Character | Resource Name                    | Class    | Access Required | JES |
|------------------|----------------------------------|----------|-----------------|-----|
| D<br>DA<br>DE    | ISFFS.filesystemname             | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.OMVS                 | OPERCMDS | READ            |     |
|                  | LCK ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the FS panel, protect the FS command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting file systems

To protect file systems and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFFS.** UACC(NONE)
PERMIT ISFFS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Function registry (FXE panel)

To protect function registry entries listed on the FXE panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 197 on page 290](#).

Table 197. Resources for Function Registry Entries

| Action Character | Resource Name       | Class    | Access Required | JES |
|------------------|---------------------|----------|-----------------|-----|
| D<br>DI          | ISFOBJ.FXE.prodname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.FXE     | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the FXE panel, protect the FXE command. This is described in [“Authorized SDSF commands” on page 265](#).

## Generic tracker events (GT panel)

### Protecting generic tracker events

To protect generic tracker events displayed on the GT panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 198 on page 291](#).

Table 198. Resources for Generic Tracker Events

| Action Character                | Resource Name    | Class    | Access Required | JES |
|---------------------------------|------------------|----------|-----------------|-----|
| D<br>DA<br>DD<br>DE<br>DH<br>DS | ISFGT.eventowner | SDSF     | READ            | ALL |
|                                 | MVS.DISPLAY.GTZ  | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the GT panel, protect the GT command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting generic tracker events

To protect a generic tracker event and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFGT.** UACC(NONE)
PERMIT ISFGT.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Held output queue (H panel)

To protect jobs in the held output queue that are displayed on the H panel, define resource names in the JESSPOOL and OPERCMDS classes.

The resources are shown in [Table 199 on page 291](#).

Table 199. Resources for Held Output Queue Jobs

| Action Character | Resource Name                                | Class    | Access Required | JES  |
|------------------|--|----------|-----------------|------|
| A                | nodeid.userid.jobname.jobid. GROUP.ogroupid  | JESSPOOL | ALTER           | ALL  |
|                  | jesx.MODIFYRELEASE.type                      | OPERCMDS | UPDATE          | JES2 |
|                  | jesx.MODIFY.JOB                              | OPERCMDS | UPDATE          | JES3 |
| C                | nodeid.userid.jobname.jobid. GROUP.ogroupid  | JESSPOOL | ALTER           | JES2 |
|                  | jesx.CANCEL.typeOUT                          | OPERCMDS | UPDATE          | JES2 |
| H                | nodeid.userid.jobname.jobid. GROUP.ogroupid  | JESSPOOL | ALTER           | JES2 |
|                  | jesx.MODIFY.typeOUT                          | OPERCMDS | UPDATE          | JES2 |
| JS               | nodeid.userid.jobname.jobid.EVENTLOG.SMFSTEP | JESSPOOL | READ            | JES2 |

Table 199. Resources for Held Output Queue Jobs (continued)

| Action Character                     | Resource Name                                      | Class    | Access Required | JES  |
|--------------------------------------|--|----------|-----------------|------|
| <b>L</b><br><b>LL</b>                | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i> | JESSPOOL | READ            | ALL  |
|                                      | <i>jesx.DISPLAY.typeOUT</i>                        | OPERCMDS | READ            | JES2 |
| <b>O</b><br><b>OK</b>                | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i> | JESSPOOL | ALTER           | JES2 |
|                                      | <i>jesx.MODIFY.typeOUT</i>                         | OPERCMDS | UPDATE          | JES3 |
| <b>P</b>                             | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i> | JESSPOOL | ALTER           | ALL  |
|                                      | <i>jesx.CANCEL.typeOUT</i>                         | OPERCMDS | UPDATE          | JES2 |
| <b>S and X</b><br><b>(all forms)</b> | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i>    | JESSPOOL | READ            | ALL  |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

To control access to the H panel, protect the H command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Input queue (I panel)

To protect jobs in the JES queue that are displayed on the I panel, define resource names in the SDSF class, JESSPOOL class, and OPERCMDS classes.

The resources are shown in [Table 200](#) on page 292.

Table 200. Resources for Input Queue Jobs

| Action Character                                 | Resource Name                     | Class    | Access Required | JES  |
|--|-----------------------------------|----------|-----------------|------|
| <b>A</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | ALL  |
|  | <i>jesx.MODIFYRELEASE.type</i>    | OPERCMDS | UPDATE          | JES2 |
|  | <i>jesx.MODIFY.JOB</i>            | OPERCMDS | UPDATE          | JES3 |
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b> | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |
|  | <i>jesx.CANCEL.type</i>           | OPERCMDS | UPDATE          | JES2 |

Table 200. Resources for Input Queue Jobs (continued)

| Action Character   | Resource Name                     | Class    | Access Required | JES  |
|--|-----------------------------------|----------|-----------------|------|
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b><br><b>CDP</b><br><b>CP</b>        | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES3 |
|  | <i>jesx.MODIFY.JOB</i>            | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b><br><b>DP</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES2 |
|  | <i>jesx.DISPLAY.type</i>          | OPERCMDS | READ            | JES2 |
| <b>D</b><br><b>DM</b><br><b>DSD</b><br><b>DSH</b><br><b>DSP</b><br><b>DX</b>       | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|  | <i>jesx.DISPLAY.JOB</i>           | OPERCMDS | READ            | JES3 |
| <b>DMA</b><br><b>DME</b><br><b>DMR</b><br><b>DMSS</b><br><b>DMSV</b><br><b>DMU</b> | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|  | <i>jesx.DISPLAY.S</i>             | OPERCMDS | READ            | JES3 |
| <b>DE</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|  | <i>jesx.DISPLAY.JOBE</i>          | OPERCMDS | READ            | JES3 |
| <b>DL</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|  | <i>jesx.CALL.DISPLAY</i>          | OPERCMDS | READ            | JES3 |
| <b>E</b><br><b>EC</b><br><b>ES</b><br><b>ESH</b>                                   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |
|  | <i>jesx.RESTART.type</i>          | OPERCMDS | CONTROL         | JES2 |
| <b>E</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES3 |
|  | <i>jesx.RESTART.DEV.sysname</i>   | OPERCMDS | CONTROL         | JES3 |
| <b>H</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |
|  | <i>jesx.MODIFYHOLD.type</i>       | OPERCMDS | UPDATE          | JES2 |

Table 200. Resources for Input Queue Jobs (continued)

| Action Character                                | Resource Name                                | Class    | Access Required   | JES  |
|---|--|----------|---|------|
|   | <i>jesx.MODIFY.JOB</i>                       | OPERCMDS | UPDATE  | JES3 |
| <b>J</b>  | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | READ  | JES2 |
|   | <i>jesx.START.BAT</i>                        | OPERCMDS | UPDATE  | JES2 |
|   | <i>jesx.MODIFY.JOB</i>                       | OPERCMDS | UPDATE  | JES3 |
| <b>JD</b>                                       | <i>ISFCMD.ODSP.DEVICE.sysname</i>            | SDSF     | READ  | ALL  |
|   | <i>ISFCMD.ODSP.NETACT.sysname</i>            | SDSF     | READ  | ALL  |
|   | <i>ISFJOB.DDNAME.owner.jobname.xsysname</i>  | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JDD</b>                                      | <i>ISFCMD.ODSP.DEVICE.sysname</i>            | SDSF     | READ  | ALL  |
|   | <i>ISFJOB.DDNAME.owner.jobname.xsysname</i>  | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JM</b>                                       | <i>ISFCMD.ODSP.STORAGE.sysname</i>           | SDSF     | READ  | ALL  |
|   | <i>ISFJOB.STORAGE.owner.jobname.xsysname</i> | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>L</b><br><b>LL</b>                           | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | READ  | ALL  |
|   | <i>jesx.DISPLAY.typeOUT</i>                  | OPERCMDS | READ  | JES2 |
| <b>L</b><br><b>LB</b><br><b>LH</b><br><b>LT</b> | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | READ  | JES3 |
|   | <i>jesx.DISPLAY.U</i>                        | OPERCMDS | READ  | JES3 |
| <b>P</b>  | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | ALTER   | ALL  |
|   | <i>jesx.CANCEL.type</i>                      | OPERCMDS | UPDATE  | JES2 |
|   | <i>jesx.MODIFY.JOB</i>                       | OPERCMDS | UPDATE  | JES3 |
| <b>PP</b>                                       | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | ALTER   | ALL  |
|   | <i>jesx.CANCEL.type</i>                      | OPERCMDS | UPDATE  | JES2 |
| <b>W</b>  | <i>nodeid.owner.jobname.jobid</i>            | JESSPOOL | ALTER   | ALL  |
|   | <i>jesx.MODIFY.type</i>                      | OPERCMDS | UPDATE  | JES2 |



Table 200. Resources for Input Queue Jobs (continued)

| Action Character           | Resource Name                                   | Class    | Access Required | JES  |
|----------------------------|---|----------|-----------------|------|
|                            | <i>jesx.MODIFY.JOB</i>                          | OPERCMDS | UPDATE          | JES3 |
| <b>S and X (all forms)</b> | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i> | JESSPOOL | READ            | ALL  |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

To control access to the I panel, protect the I command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Initiators (INIT panel)

You can protect the initiators that are displayed on the INIT panel.

### Protecting initiators

To protect initiators displayed on the INIT panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 201 on page 295](#).

Table 201. Resources for Initiators

| Action Character | Resource Name                               | Class    | Access Required   | JES  |
|------------------|---|----------|---|------|
| <b>D<br/>DL</b>  | <i>ISFINIT.I(initid).jesx</i>               | SDSF     | READ  | ALL  |
|                  | <i>jesx.DISPLAY.enttype</i>                 | OPERCMDS | READ  | JES2 |
|                  | <i>jesx.DISPLAY.G</i>                       | OPERCMDS | READ  | JES3 |
| <b>JD</b>        | <i>ISFCMD.ODSP.DEVICE.sysname</i>           | SDSF     | READ  | ALL  |
|                  | <i>ISFJOB.DDNAME.owner.jobname.xsysname</i> | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JDD</b>       | <i>ISFCMD.ODSP.DEVICE.sysname</i>           | SDSF     | READ  | ALL  |
|                  | <i>ISFJOB.DDNAME.owner.jobname.xsysname</i> | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JM</b>        | <i>ISFCMD.ODSP.DEVICE.sysname</i>           | SDSF     | READ  | ALL  |

Table 201. Resources for Initiators (continued)

| Action Character | Resource Name                         | Class    | Access Required   | JES  |
|------------------|---------------------------------------|----------|---|------|
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>P</b>         | ISFINIT.I( <i>initid</i> ).jesx       | SDSF     | CONTROL   | ALL  |
|                  | jesx.STOP.INITIATOR                   | OPERCMDS | CONTROL   | JES2 |
|                  | jesx.MODIFY.G                         | OPERCMDS | UPDATE  | JES3 |
| <b>S</b>         | ISFINIT.I( <i>initid</i> ).jesx       | SDSF     | CONTROL   | ALL  |
|                  | jesx.START.enttype                    | OPERCMDS | CONTROL   | JES2 |
|                  | jesx.MODIFY.G                         | OPERCMDS | UPDATE  | JES3 |
| <b>Z</b>         | ISFINIT.I( <i>initid</i> ).jesx       | SDSF     | CONTROL   | ALL  |
|                  | jesx.HALT.enttype                     | OPERCMDS | CONTROL   | JES2 |

In the table, *jesx* is the name of the JES subsystem the initiator is on.

To protect the MVS or JES commands generated by action characters, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372.](#)

To control access to the INIT panel, protect the INIT command. This is described in [“Authorized SDSF commands” on page 265.](#)

## Example of protecting initiators

To protect all initiators and permit a user to control the initiators, define a generic profile as follows:

```
RDEFINE SDSF ISFINIT.** UACC(NONE)
PERMIT ISFINIT.** CLASS(SDSF) ID(userid) ACCESS(CONTROL)
```

## Job classes (JC panel)

You can protect the job classes that are displayed on the JC panel.

## Protecting job classes

To protect job classes displayed by the JC panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 202 on page 296.](#)

Table 202. Resources for Job Classes

| Action Character | Resource Name         | Class    | Access Required | JES  |
|------------------|-----------------------|----------|-----------------|------|
| <b>D</b>         | ISFJOBCL.class.jesx   | SDSF     | READ            | ALL  |
|                  | jesx.DISPLAY.JOBCLASS | OPERCMDS | READ            | JES2 |
|                  | jesx.DISPLAY.CLASS    | OPERCMDS | READ            | JES3 |
| <b>DC</b>        | ISFJOBCL.class.jesx   | SDSF     | READ            | JES3 |

Table 202. Resources for Job Classes (continued)

| Action Character | Resource Name                | Class    | Access Required | JES  |
|------------------|------------------------------|----------|-----------------|------|
|                  | <i>jesx.DISPLAY.G</i>        | OPERCMDS | READ            | JES3 |
| <b>DG</b>        | ISFJOBCL.class.jesx          | SDSF     | READ            | JES3 |
|                  | <i>jesx.DISPLAY.G</i>        | OPERCMDS | READ            | JES3 |
| <b>DL</b>        | ISFJOBCL.class.jesx          | SDSF     | READ            | JES2 |
|                  | <i>jesx.DISPLAY.JOBCLASS</i> | OPERCMDS | READ            | JES2 |
| <b>JRL</b>       | ISFCMD.ODSP.JRJC.jesx        | SDSF     | READ            | JES2 |
| <b>ST</b>        | ISFCMD.DSP.STATUS.jesx       | SDSF     | READ            | ALL  |

For the generated system command(s) and resources that are checked, see “Table of action characters that generate system commands by OPERCMDS resource” on page 372.

## Example of protecting job classes

To protect all job classes and permit a user to control them, define a generic profile as follows:

```
RDEFINE SDSF ISFJOBCL.** UACC(NONE)
PERMIT ISFJOBCL.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## JES subsystems (JES panel)

You can protect the JES subsystems that are displayed on the JES panel.

## Protecting JES subsystems

To protect JES subsystems displayed by the JES panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in Table 203 on page 297.

Table 203. Resources for JES subsystems

| Action Character | Resource Name                 | Class    | Access Required | JES |
|------------------|-------------------------------|----------|-----------------|-----|
| <b>D</b>         | ISFJES.jesname.sysname        | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SSI               | OPERCMDS | READ            |     |
| <b>DI</b>        | ISFJES.jesname.sysname        | SDSF     | READ            | ALL |
|                  | <i>jesx.DISPLAY.INITINFO</i>  | OPERCMDS | READ            | ALL |
| <b>DP</b>        | ISFJES.jesname.sysname        | SDSF     | READ            | ALL |
|                  | <i>jesx.DISPLAY.POLICYLIB</i> | OPERCMDS | READ            | ALL |
| <b>DS</b>        | ISFJES.jesname.sysname        | SDSF     | READ            | ALL |
|                  | <i>jesx.DISPLAY.SUBMITLIB</i> | OPERCMDS | READ            | ALL |
| <b>J</b>         | ISFCMD.ODSP.PROCLIB.jesx      | SDSF     | READ            | ALL |
| <b>JCP</b>       |                               |          |                 |     |
| <b>JS</b>        |                               |          |                 |     |

Table 203. Resources for JES subsystems (continued)

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>JC</b>        | ISFCMD.ODSP.JESCKPT.jesx     | SDSF  | READ            | ALL |
| <b>LCK</b>       | ISFCMD.ODSP.HCHECKER.sysname | SDSF  | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the JES panel, protect the JES command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting JES subsystems

To protect all JES subsystems and permit a user to control them, you can define generic profiles as follows:

```
REDEFINE SDSF ISFJES.** UACC(NONE)
PERMIT ISFJES.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Job groups (JG panel)

To protect JES2 job groups displayed on the JG panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 204 on page 298](#).

Table 204. Resources for Job Groups

| Action Character | Resource Name                   | Class    | Access Required | JES  |
|------------------|---------------------------------|----------|-----------------|------|
| <b>A</b>         | ISFCMD.DSP.JGGROUP.jesx         | SDSF     | READ            | JES2 |
|                  | jesx.MODIFYRELEASE.type         | OPERCMDS | UPDATE          | JES2 |
| <b>C</b>         | ISFCMD.DSP.JGGROUP.jesx         | SDSF     | READ            | JES2 |
| <b>CP</b>        | jesx.CANCEL.type                | OPERCMDS | UPDATE          | JES2 |
| <b>D</b>         | ISFCMD.DSP.JGGROUP.jesx         | SDSF     | READ            | JES2 |
| <b>DE</b>        |                                 |          |                 |      |
| <b>DJ</b>        |                                 |          |                 |      |
| <b>DL</b>        |                                 |          |                 |      |
| <b>DN</b>        |                                 |          |                 |      |
| <b>DP</b>        |                                 |          |                 |      |
|                  | jesx.DISPLAY.type               | OPERCMDS | READ            | JES2 |
| <b>H</b>         | nodeid.userid.groupname.groupid | JESSPOOL | ALTER           | JES2 |
|                  | jesx.MODIFYHOLD.type            | OPERCMDS | UPDATE          | JES2 |
| <b>P</b>         | nodeid.userid.groupname.groupid | JESSPOOL | ALTER           | JES2 |
|                  | jesx.STOP.type                  | OPERCMDS | UPDATE          | JES2 |
| <b>ST</b>        | ISFCMD.DSP.STATUS.jesx          | SDSF     | READ            | JES2 |

Table 204. Resources for Job Groups (continued)

| Action Character                                    | Resource Name                                   | Class    | Access Required | JES |
|---|---|----------|-----------------|-----|
| <b>S</b> (all other forms) and <b>X</b> (all forms) | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i> | JESSPOOL | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

To control access to the JG panel, protect the JG command. This is described in [“Authorized SDSF commands”](#) on page 265.

## JES resource groups (JRG panel)

You can protect the JES resource groups that are displayed on the JES Resource Group panel.

### Protecting JES resource groups

To protect JES resource groups on the JRG panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 205 on page 299](#).

Table 205. Resources for JES Resource Groups

| Action Character | Resource Name                 | Class    | Access Required | JES |
|------------------|-------------------------------|----------|-----------------|-----|
| <b>D</b>         | <i>ISFJRG.name.jes</i>        | SDSF     | READ            | ALL |
|                  | <i>jesx.DISPLAY.RESGROUP</i>  | OPERCMDS | READ            | ALL |
| <b>P</b>         | <i>ISFJRG.name.jes</i>        | SDSF     | CONTROL         | ALL |
|                  | <i>jesx.DEL.RESGROUP</i>      | OPERCMDS | CONTROL         | ALL |
| <b>ST</b>        | <i>ISFCMD.DSP.STATUS.jesx</i> | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the JRG panel, protect the JRG command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting JES resource groups

To protect all JES resource groups and permit a user to display them, define a generic profile as follows:

```
RDEFINE SDSF ISFJRG.** UACC(NONE)
PERMIT ISFJRG.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## JESInfo resources (JRI panel)

You can protect JESInfo resources that are displayed on the JRI panel.

## Protecting JESInfo resources

To protect resources displayed on the JRI panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 206 on page 300](#).

Table 206. Resources for JESInfo Resources

| Action Character      | Resource Name            | Class    | Access Required | JES  |
|-----------------------|--------------------------|----------|-----------------|------|
| <b>D</b><br><b>DL</b> | ISFJRI.resourcename.jesx | SDSF     | READ            | JES2 |
|                       | jesx.DISPLAY.LIMITS      | OPERCMDS | READ            | JES2 |
| <b>L</b>              | ISFCMD.ODSP.JRG.jesx     | SDSF     | READ            | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the JRI panel, protect the JRI command. This is described in [“Authorized SDSF commands” on page 265](#).

## Example of protecting JESInfo resources

To protect all JESInfo resources and permit a user to control them, you can define generic profiles as follows:

```
REDEFINE SDSF ISFJRI.** UACC(NONE)
PERMIT ISFJRI.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## JES resource by job (JRJ panel)

You can protect JES resources by job that are displayed on the JRJ panel.

## Protecting JES resources by job

To protect JES resources by job displayed on the JRJ panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 207 on page 300](#).

Table 207. Resources for JES Resources by Job

| Action Character | Resource Name          | Class    | Access Required | JES  |
|------------------|------------------------|----------|-----------------|------|
| <b>DLI</b>       | ISFJRJ.jobname.jobid   | SDSF     | READ            | JES2 |
|                  | jesx.DISPLAY.LIMITS    | OPERCMDS | READ            | JES2 |
| <b>ST</b>        | ISFCMD.DSP.STATUS.jesx | SDSF     | READ            | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the JRJ panel, protect the JRJ command. This is described in [“Authorized SDSF commands” on page 265](#).

## Example of protecting JES resources by job

To protect all JESInfo by job resources and permit a user to control them, you can define generic profiles as follows:

```
REDEFINE SDSF ISFJRJ.** UACC(NONE)
PERMIT ISFJRJ.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## JES resource by class (JRJC panel)

To protect JES resource types displayed on the JRJC panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 208 on page 301](#).

Table 208. Resources for JES Resources by Type

| Action Character | Resource Name          | Class    | Access Required | JES |
|------------------|------------------------|----------|-----------------|-----|
| D<br>DL          | ISFJRJC.type.jesx      | SDSF     | READ            | ALL |
|                  | jesx.DISPLAY.JOBCLASS  | OPERCMDS | READ            | ALL |
| ST               | ISFCMD.DSP.STATUS.jesx | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the JRJC panel, protect the JRJC command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting JES resources

To protect all JES resources by class, define a generic profile as follows:

```
REDEFINE SDSF ISFJRJC.** UACC(NONE)
PERMIT ISFJRJC.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## JES resource by userid (JRU panel)

To protect JES resource types displayed on the JRU panel, define resource names in the SDSF class.

The resources are shown in [Table 209 on page 301](#).

Table 209. Resources for JES Resources by Userid

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| LU               | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.USER.sysname   | SDSF  | READ            | ALL |
| ST               | ISFCMD.DSP.STATUS.jesx       | SDSF  | READ            | ALL |

To control access to the JRU panel, protect the JRU command. This is described in [“Authorized SDSF commands” on page 265](#).

## Job 0 (J0 panel)

(JES3 only) To protect JES3 data sets displayed on the J0 panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 210 on page 302](#).

Table 210. Resources for Job 0 Data Sets

| Action Character | Resource Name  | Class    | Access Required | JES  |
|------------------|----------------|----------|-----------------|------|
| D                | jesx.DISPLAY.U | OPERCMDS | READ            | JES3 |
| C<br>H<br>O<br>P | jesx.MODIFY.U  | JESSPOOL | ALTER           | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the J0 panel, protect the J0 command. This is described in [“Authorized SDSF commands” on page 265](#).

## JES lines (LI panel)

You can protect the JES lines displayed on the LI panel.

### Protecting JES lines

To protect JES lines displayed on the LI panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 211 on page 302](#).

Table 211. Resources for JES Lines

| Action Character | Resource Name               | Class    | Access Required | JES  |
|------------------|-----------------------------|----------|-----------------|------|
| C                | ISFLINE.device-name.jesx    | SDSF     | READ            | ALL  |
|                  | jesx.CANCEL.DEV             | OPERCMDS | UPDATE          | JES2 |
|                  | jesx.CANCEL.DEV.device-name | OPERCMDS | UPDATE          | JES3 |
| D<br>DL          | ISFLINE.device-name.jesx    | SDSF     | READ            | ALL  |
|                  | jesx.DISPLAY.device-type    | OPERCMDS | READ            | JES2 |
|                  | jesx.DISPLAY.D              | OPERCMDS | READ            | JES3 |
| DE               | ISFLINE.device-name.jesx    | SDSF     | READ            | JES3 |
|                  | jesx.DISPLAY.T              | OPERCMDS | READ            | JES3 |
| DS               | ISFLINE.device-name.jesx    | SDSF     | READ            | JES3 |
| DS               | jesx.DISPLAY.D              | OPERCMDS | READ            | JES3 |
| E                | ISFLINE.device-name.jesx    | SDSF     | CONTROL         | ALL  |



Table 211. Resources for JES Lines (continued)

| Action Character | Resource Name                     | Class    | Access Required | JES  |
|------------------|-----------------------------------|----------|-----------------|------|
|                  | <i>jesx.RESTART.device-type</i>   | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx.RESTART.DEV</i>           | OPERCMDS | UPDATE          | JES2 |
|                  | <i>jesx.RESTART.RJP</i>           | OPERCMDS | UPDATE          | JES3 |
| <b>I</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | ALL  |
|                  | <i>jesx.MODIFY.device-type</i>    | OPERCMDS | UPDATE          | JES2 |
|                  | <i>jesx.CANCEL.device-name</i>    | OPERCMDS | UPDATE          | JES3 |
| <b>L</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
|                  | <i>jesx.FAIL.DEV.device-name</i>  | OPERCMDS | CONTROL         | JES3 |
| <b>LD</b>        | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
|                  | <i>jesx.FAIL.DEV.device-name</i>  | OPERCMDS | CONTROL         | JES3 |
| <b>P</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES2 |
|                  | <i>jesx.STOP.device-type</i>      | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx.STOP.DEV</i>              | OPERCMDS | UPDATE          | JES2 |
| <b>Q</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES2 |
|                  | <i>jesx.MODIFY.device-name</i>    | OPERCMDS | CONTROL         | JES2 |
| <b>S</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | ALL  |
|                  | <i>jesx.START.DEV</i>             | OPERCMDS | UPDATE          | JES2 |
|                  | <i>jesx.START.device-type</i>     | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx.START.DEV.device-name</i> | OPERCMDS | UPDATE          | JES3 |
| <b>SL</b>        | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
|                  | <i>jesx.START.DEV.device-name</i> | OPERCMDS | UPDATE          | JES3 |
| <b>SN</b>        | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES2 |
|                  | <i>jesx.START.NET</i>             | OPERCMDS | CONTROL         | JES2 |
| <b>SNL</b>       | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
| <b>SNR</b>       |                                   |          |                 |      |
| <b>SR</b>        |                                   |          |                 |      |
|                  | <i>jesx.START.DEV.device-name</i> | OPERCMDS | UPDATE          | JES3 |
| <b>SRJP</b>      | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
|                  | <i>jesx.START.RJP</i>             | OPERCMDS | UPDATE          | JES3 |
| <b>V</b>         | <i>ISFLINE.device-name.jesx</i>   | SDSF     | CONTROL         | JES3 |
| <b>VF</b>        |                                   |          |                 |      |
|                  | <i>jesx.MODIFY.V</i>              | OPERCMDS | UPDATE          | JES3 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the LI panel, protect the LI command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting lines

To protect all lines, issue the following commands:

```
RDEFINE SDSF ISFLINE.** UACC(NONE)
PERMIT ISFLINE.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## Link list sets (LLS panel)

### Protecting link list sets

To protect link list sets displayed on the LLS panel, define resource names in the SDSF, OPERCMDS, and FACILITY classes.

The resources are shown in [Table 212 on page 304](#).

Table 212. Resources for Link List Sets

| Action Character | Resource Name                         | Class    | Access Required | JES |
|------------------|---------------------------------------|----------|-----------------|-----|
| ACT              | ISFLLS. <i>linklistset</i>            | SDSF     | CONTROL         | ALL |
|                  | MVS.SET.PROG                          | OPERCMDS | UPDATE          |     |
| D<br>DU          | ISFLLS. <i>name.target-sysname</i>    | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.PROG                      | OPERCMDS | READ            |     |
| L                | ISFCMD.ODSP.LNK. <i>sysname</i>       | SDSF     | READ            | ALL |
| LCK              | ISFCMD.ODSP.HCHECKER. <i>sysname</i>  | SDSF     | READ            | ALL |
| NEW              | CSVDYNL. <i>linklistset</i> .DEFINE   | FACILITY | UPDATE          | ALL |
| REM              | CSVDYNL. <i>linklistset</i> .UNDEFINE | FACILITY | UPDATE          | ALL |
| UPD              | CSVDYNL.UPDATE.LNKLST                 | FACILITY | UPDATE          | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the LLS panel, protect the LLS command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting link list sets

To protect all link list sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFLLS.** UACC(NONE)
PERMIT ISFLLS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Link list data sets (LNK panel)

### Protecting link list data sets

To protect link list data sets displayed by the LNK panel, define resource names in the SDSF, OPERCMDS, and FACILITY classes.

The resources are shown in [Table 213 on page 305](#).

Table 213. Resources for Link List Data Sets

| Action Character       | Resource Name                        | Class    | Access Required | JES |
|------------------------|--------------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DN</b>  | ISFLNK. <i>dsname</i>                | SDSF     | READ            | ALL |
|                        | MVS.DISPLAY.PROG                     | OPERCMDS | READ            |     |
| <b>LA</b><br><b>LP</b> | ISFCMD.ODSP.RACFLIST. <i>sysname</i> | SDSF     | READ            | ALL |
|                        | ISFRACF.CLASS. <i>parm.sysname</i>   | SDSF     | READ            | ALL |
| <b>LCK</b>             | ISFCMD.ODSP.HCHECKER. <i>sysname</i> | SDSF     | READ            | ALL |
| <b>NEW</b>             | CSVDYNL. <i>linklistset</i> .ADD     | FACILITY | UPDATE          | ALL |
| <b>REM</b>             | CSVDYNL. <i>linklistset</i> .DELETE  | FACILITY | UPDATE          | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the LNK panel, protect the LNK command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting link list data sets

To protect all link list data sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFLNK.** UACC(NONE)
PERMIT ISFLNK.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## System log (LOG panel)

You can control access to the SYSLOG that is displayed on the LOG panel by controlling:

- Access to the LOG command, which displays the LOG panel. This is explained in [“Authorized SDSF commands” on page 265](#).
- Access to the JES logical log. JES, rather than SDSF, issues the SAF call to check user authorization.

Parameters of the LOG command allow users to choose the sysplex-wide OPERLOG rather than the single-system SYSLOG. For information on protecting the OPERLOG, see [“OPERLOG” on page 317](#).

### Protecting the logical log

Protect the logical log by defining a resource name in the JESSPOOL class. The resource is shown in [Table 214 on page 306](#).

Table 214. Authority Required for Accessing the Logical Log

| Function                             | Resource Name                                | Class    | Access Required |
|--------------------------------------|--|----------|-----------------|
| <b>Access to the JES logical log</b> | <i>nodeid.+MASTER+.SYSLOG.SYSTEM.sysname</i> | JESSPOOL | READ            |

As an alternative to defining the JESSPOOL profiles, you can define the custom property `Security.Syslog.UseSAFRecvr` in `ISFPARMS` to force the SAF call to always succeed even when the profile is not defined. This may be useful as you migrate to using the new logical log. For more information, see [“Customized properties \(PROPLIST\)” on page 53](#).

## Link pack data sets (LPA panel)

To protect link pack data sets displayed on the LPA panel, define resource names in the SDSF class.

The resources are shown in [Table 215 on page 306](#).

Table 215. Resources for Link Pack Data Sets

| Action Character | Resource Name                        | Class | Access Required | JES |
|------------------|--------------------------------------|-------|-----------------|-----|
| <b>LA</b>        | <i>ISFCMD.ODSP.RACFLIST.sysname</i>  | SDSF  | READ            | ALL |
| <b>I</b>         | <i>ISFRACF.CLASS.DATASET.sysname</i> | SDSF  | READ            | ALL |
| <b>LCK</b>       | <i>ISFCMD.ODSP.HCHECKER.sysname</i>  | SDSF  | READ            | ALL |
| <b>LP</b>        | <i>ISFCMD.ODSP.RACFLIST.sysname</i>  | SDSF  | READ            | ALL |
| <b>I</b>         | <i>ISFRACF.CLASS.DATASETsysname</i>  | SDSF  | READ            | ALL |

To control access to the LPA panel, protect the LPA command. This is described in [“Authorized SDSF commands” on page 265](#).

## Link pack directory (LPD panel)

To protect link pack directories displayed on the LPD panel, define resource names in the SDSF class.

The resources are shown in [Table 216 on page 306](#).

Table 216. Resources for Link Pack Directory

| Action Character | Resource Name                       | Class | Access Required | JES |
|------------------|-------------------------------------|-------|-----------------|-----|
| <b>LCK</b>       | <i>ISFCMD.ODSP.HCHECKER.sysname</i> | SDSF  | READ            | ALL |

To control access to the LPD panel, protect the LPD command. This is described in [“Authorized SDSF commands” on page 265](#).

## JES members (MAS and JESPLEX panels)

You can protect the members of a JES2 MAS that are displayed on the MAS panel, and the members of a JES3 JESPLEX that are displayed on the JP panel.

## Protecting MAS and JESPLEX members

To protect MAS and JESPLEX members displayed on the MAS and JESPLEX panels, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 217 on page 307](#).

| Table 217. Resources for MAS or JESPLEX Members |                                  |          |                 |      |
|---|----------------------------------|----------|-----------------|------|
| Action Character                                | Resource Name                    | Class    | Access Required | JES  |
| <b>C</b>  | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES3 |
|   | <i>jesx.START.DEV.name</i>       | OPERCMDS | UPDATE          | JES3 |
| <b>D</b>  | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | ALL  |
|   | <i>jesx.DISPLAY.MEMBER</i>       | OPERCMDS | READ            | JES2 |
|   | <i>jesx.DISPLAY.MAIN</i>         | OPERCMDS | READ            | JES3 |
| <b>DL</b>                                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES3 |
|   | <i>jesx.DISPLAY.MAINX</i>        | OPERCMDS | READ            | JES3 |
| <b>E<br/>ER</b>                                 | ISFMEMB. <i>member-name.jesx</i> | SDSF     | ALTER           | JES2 |
|   | <i>jesx.RESTART.type</i>         | OPERCMDS | CONTROL         | JES2 |
| <b>F</b>  | ISFMEMB. <i>member-name.jesx</i> | SDSF     | ALTER           | JES3 |
|   | <i>jesx.START.DEV.name</i>       | OPERCMDS | UPDATE          | JES3 |
| <b>J</b>  | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES2 |
|   | <i>jesxMON.DISPLAY.MONITOR</i>   | OPERCMDS | READ            | JES2 |
| <b>JD</b>                                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES2 |
|   | <i>jesxMON.DISPLAY.DETAIL</i>    | OPERCMDS | READ            | JES2 |
| <b>JH</b>                                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES2 |
|   | <i>jesxMON.DISPLAY.HISTORY</i>   | OPERCMDS | READ            | JES2 |
| <b>JJ</b>                                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | JES2 |
|   | <i>jesxMON.DISPLAY.JES</i>       | OPERCMDS | READ            | JES2 |
| <b>JS</b>                                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | READ            | ALL  |
|   | <i>jesxMON.DISPLAY.STATUS</i>    | OPERCMDS | READ            | JES2 |
|   | <i>jesx.START.MONITOR</i>        | OPERCMDS | UPDATE          | JES3 |
| <b>P</b>  | ISFMEMB. <i>member-name.jesx</i> | SDSF     | ALTER           | ALL  |
|   | <i>jesx.STOP.type</i>            | OPERCMDS | CONTROL         | JES2 |
|   | <i>jesx.STOP.RETURN</i>          | OPERCMDS | CONTROL         | JES3 |
| <b>PA<br/>PC<br/>PQ<br/>PT<br/>PX</b>           | ISFMEMB. <i>member-name.jesx</i> | SDSF     | ALTER           | JES2 |

Table 217. Resources for MAS or JESPLEX Members (continued)

| Action Character      | Resource Name                    | Class    | Access Required | JES  |
|-----------------------|----------------------------------|----------|-----------------|------|
| <b>S</b>              | <i>jesx.STOP.type</i>            | OPERCMDS | CONTROL         | JES2 |
|                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | ALTER           | ALL  |
|                       | <i>jesx.START.type</i>           | OPERCMDS | CONTROL         | JES2 |
| <b>SC</b>             | <i>jesx.START.JSS</i>            | OPERCMDS | UPDATE          | JES3 |
|                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | JES2 |
|                       | <i>jesx.START.type</i>           | OPERCMDS | CONTROL         | JES2 |
| <b>SM</b>             | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | JES3 |
|                       | <i>jesx.CALL.MONITOR</i>         | OPERCMDS | UPDATE          | JES3 |
|                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | JES2 |
| <b>SX</b>             | <i>jesx.START.type</i>           | OPERCMDS | UPDATE          | JES2 |
|                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | JES3 |
|                       | <i>jesx.START.type</i>           | OPERCMDS | UPDATE          | JES2 |
| <b>V</b><br><b>VF</b> | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | JES3 |
|                       | <i>jesx.MODIFY.V</i>             | OPERCMDS | UPDATE          | JES3 |
|                       | ISFMEMB. <i>member-name.jesx</i> | SDSF     | CONTROL         | ALL  |
| <b>ZM</b>             | <i>jesxMON.STOP.MONITOR</i>      | OPERCMDS | CONTROL         | JES2 |
|                       | <i>jesx.CANCEL.MONITOR</i>       | OPERCMDS | UPDATE          | JES3 |

where *member-name* is a member name in a JES2 environment and main name in a JES3 environment.

Commands sent to target systems are routed using the MVS ROUTE command. This occurs when the generated command is for a system other than the one to which the user is logged on to.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the MAS and JP panels, protect the MAS and JP commands. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting MAS members

To protect all MAS members and permit a user to control the members, you can define generic profiles as follows:

```
RDEFINE SDSF ISFMEMB.** UACC(NONE)
PERMIT ISFMEMB.** CLASS(SDSF) ID(userid or groupid) ACCESS(ALTER)
```

## Memory contents (MEM panel)

You can protect the memory contents for address spaces within the sysplex, including common storage and 64-bit memory objects, that are displayed on the MEM panel.

## Protecting memory contents

To protect memory contents displayed on the MEM panel, define resource names in the SDSF class.

The resources are shown in [Table 218 on page 309](#).

Table 218. Resources for Memory Contents

| Action Character      | Resource Name                         | Class | Access Required                                   | JES |
|-----------------------|---------------------------------------|-------|---|-----|
| <b>D (all forms)</b>  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to allow storage to be paged in) | ALL |
| <b>G (all forms)</b>  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to allow storage to be paged in) | ALL |
| <b>M<br/>RC<br/>S</b> | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to allow storage to be paged in) | ALL |

To control access to the MEM panel, protect the MEM command. This is described in [“Authorized SDSF commands” on page 265](#).

## Example of protecting memory contents

To protect all memory contents and permit a user to control the members, you can define generic profiles as follows:

```
REDEFINE SDSF .** UACC(NONE)
PERMIT ISFJOB.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Module fetch data sets (MFD panel)

### Protecting module fetch data sets

To protect module fetch data sets displayed on the MFD panel, define resource names in the SDSF class.

The resources are shown in [Table 219 on page 309](#).

Table 219. Resources for Module Fetch Data Sets

| Action Character | Resource Name           | Class | Access Required | JES |
|------------------|-------------------------|-------|-----------------|-----|
| <b>FJ</b>        | ISFCMD.ODSP.MFJ.sysname | SDSF  | READ            | ALL |
| <b>FM</b>        | ISFCMD.ODSP.MFM.sysname | SDSF  | READ            | ALL |

To control access to the MFD panel, protect the MFD command. This is described in [“Authorized SDSF commands” on page 265](#).

## Module fetch job names (MFJ panel)

### Protecting module fetch job names

To protect module fetch job names displayed on the MFJ panel, define resource names in the SDSF class.

The resources are shown in [Table 220 on page 310](#).

Table 220. Resources for Module Fetch Job Names

| Action Character | Resource Name                                 | Class | Access Required   | JES |
|------------------|---|-------|---|-----|
| <b>FM</b>        | ISFCMD.ODSP.MFM. <i>sysname</i>               | SDSF  | READ  | ALL |
| <b>FP</b>        | ISFCMD.ODSP.MFP. <i>sysname</i>               | SDSF  | READ  | ALL |
| <b>JC</b>        | ISFCMD.ODSP.CDE. <i>sysname</i>               | SDSF  | READ  | ALL |
|                  | ISFJOB.MODULE. <i>owner.jobname.xsysname</i>  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JCS</b>       | ISFCMD.ODSP.GQE. <i>sysname</i>               | SDSF  | READ  | ALL |
| <b>JDCC</b>      | ISFCMD.ODSP.COUPLE. <i>sysname</i>            | SDSF  | READ  | ALL |
| <b>JDD</b>       | ISFCMD.ODSP.DEVICE. <i>sysname</i>            | SDSF  | READ  | ALL |
|                  | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JDNA</b>      | ISFCMD.ODSP.NETACT. <i>sysname</i>            | SDSF  | READ  | ALL |
| <b>JM</b>        | ISFCMD.ODSP.STORAGE. <i>sysname</i>           | SDSF  | READ  | ALL |
|                  | ISFJOB.STORAGE. <i>owner.jobname.xsysname</i> | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JMO</b>       | ISFCMD.ODSP.STORAGE. <i>sysname</i>           | SDSF  | READ  | ALL |
|                  | ISFJOB.TASK. <i>owner.jobname.xsysname</i>    | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JT</b>        | ISFCMD.ODSP.TCB. <i>sysname</i>               | SDSF  | READ  | ALL |
|                  | ISFJOB.TASK. <i>owner.jobname.xsysname</i>    | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the MFJ panel, protect the MFJ command. This is described in [“Authorized SDSF commands” on page 265](#).



## Module fetch statistics (MFM panel)

### Protecting module fetch statistics

To protect module fetch statistics displayed on the MFM panel, define resource names in the SDSF class.

The resources are shown in [Table 221 on page 311](#).

Table 221. Resources for Module Fetch Statistics

| Action Character | Resource Name           | Class | Access Required | JES |
|------------------|-------------------------|-------|-----------------|-----|
| <b>FJ</b>        | ISFCMD.ODSP.MFJ.sysname | SDSF  | READ            | ALL |

To control access to the MFM panel, protect the MFM command. This is described in [“Authorized SDSF commands” on page 265](#).

### Module fetch paths (MFP panel)

To protect module fetch statistics for z/OS Unix System Service file system paths displayed on the MFP panel, define resource names in the SDSF class,.

The resources are shown in [Table 222 on page 311](#).

Table 222. Resources for Module Fetch Paths

| Action Character        | Resource Name                         | Class | Access Required   | JES |
|-------------------------|---------------------------------------|-------|---|-----|
| <b>FJ</b>               | ISFCMD.ODSP.MFJ.sysname               | SDSF  | READ  | ALL |
| <b>JC</b>               | ISFCMD.ODSP.CDE.sysname               | SDSF  | READ  | ALL |
|                         | ISFJOB.MODULE.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JCS</b>              | ISFCMD.ODSP.GQE.sysname               | SDSF  | READ  | ALL |
| <b>JDCC</b>             | ISFCMD.ODSP.COUPLE.sysname            | SDSF  | READ  | ALL |
| <b>JDD</b>              | ISFCMD.ODSP.DEVICE.sysname            | SDSF  | READ  | ALL |
|                         | ISFJOB.DDNAME.owner.jobname.xsysname  | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>JDNA</b>             | ISFCMD.ODSP.NETACT.sysname            | SDSF  | READ  | ALL |
| <b>JM</b><br><b>JMO</b> | ISFCMD.ODSP.STORAGE.sysname           | SDSF  | READ  | ALL |
|                         | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

Table 222. Resources for Module Fetch Paths (continued)

| Action Character | Resource Name                      | Class | Access Required   | JES |
|------------------|------------------------------------|-------|---|-----|
| JT               | ISFCMD.ODSP.TCB.sysname            | SDSF  | READ  | ALL |
|                  | ISFJOB.TASK.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the MFP panel, protect the MFP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Network activity (NA panel)

### Protecting network activity

To protect network activity displayed on the NA panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 223 on page 312](#).

Table 223. Resources for Network Activity

| Action Character | Resource Name     | Class    | Access Required | JES |
|------------------|-------------------|----------|-----------------|-----|
| D (all forms)    | ISFNETACT.jobname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.TCPIP | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the NA panel, protect the NA command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting network activity

To protect network activity and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFNETACT.** UACC(NONE)
PERMIT ISFNETACT.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Network port activity (NAP panel)

To protect TCP/IP network activity displayed on the NAP panel, define resource names in the SDSF class .

The resources are shown in [Table 224 on page 312](#).

Table 224. Resources for Network Port Activity

| Action Character | Resource Name              | Class | Access Required | JES |
|------------------|----------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.NETACT.sysname | SDSF  | READ            | ALL |

To control access to the NAP panel, protect the NAP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Network connections (NC panel)

You can protect the network connections displayed on the NC panel.

### Protecting network connections

To protect network connections displayed on the NC panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 225](#) on page 313.

Table 225. Resources for Network Connections

| Action Character | Resource Name   | Class    | Access Required | JES  |
|------------------|---|----------|-----------------|------|
| <b>C</b>         | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | CONTROL         | JES3 |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          | SDSF     | CONTROL         | JES3 |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) | SDSF     | CONTROL         | JES3 |
|                  | <i>jesx.CANCEL.DEV.device-name</i>                                  | OPERCMDS | UPDATE          | JES3 |
|                  | <i>jesx.CANCEL.TCP</i>  | OPERCMDS | UPDATE          | JES3 |
|                  |   |          |                 |      |
| <b>D</b>         | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | READ            | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx.DISPLAY.SOCKET</i>  | OPERCMDS | READ            | ALL  |
|                  | <i>jesx.DISPLAY.APPL</i>  | OPERCMDS | READ            | JES2 |
|                  | <i>jesx.DISPLAY.device-type</i>                                     |          |                 |      |
| <b>DL</b>        | <i>jesx.DISPLAY.D</i>   | OPERCMDS | READ            | JES3 |
|                  |   |          |                 |      |
|                  | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | READ            | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx.DISPLAY.LINE</i>  | OPERCMDS | CONTROL         | JES2 |
| <b>E</b>         | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | READ            | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx.RESTART.device-name jesx.RESTART.LINE</i>                   | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx.RESTART.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
|                  |   |          |                 |      |

Table 225. Resources for Network Connections (continued)

| Action Character | Resource Name   | Class    | Access Required | JES  |
|------------------|---|----------|-----------------|------|
| <b>P</b>         | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | CONTROL         | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx</i> .STOP.DEV   | OPERCMDS | UPDATE          | JES2 |
| <b>S</b>         | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | CONTROL         | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx</i> .START.NET  | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx</i> .START.DEV  | OPERCMDS | UPDATE          | JES2 |
| <b>SN</b>        | ISFAPPL. <i>device-name.jesx</i> (APPLs)                            | SDSF     | CONTROL         | ALL  |
|                  | ISFSOCK. <i>device-name.jesx</i> (sockets)                          |          |                 |      |
|                  | ISFLINE. <i>device-name.jesx</i> (lines, transmitters or receivers) |          |                 |      |
|                  | <i>jesx</i> .START.NET  | OPERCMDS | CONTROL         | JES2 |
|                  | <i>jesx</i> .CALL.NJE   | OPERCMDS | UPDATE          | JES3 |

In the table,

***device-name***

is the name of the device.

***jesx***

is the name of the JES subsystem.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the NC panel, protect the NC command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting network connections

To protect all network connections, issue the following commands:

```
RDEFINE SDSF ISFNC.** UACC(NONE)
PERMIT ISFAPPL.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
PERMIT ISFSOCK.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
PERMIT ISFLIINE.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## Nodes (NODE panel)

You can protect the nodes displayed on the NODE panel.

## Protecting nodes

To protect nodes displayed on the NODE panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 226 on page 315](#).

Table 226. Resources for Nodes

| Action Character      | Resource Name                          | Class    | Access Required | JES  |
|-----------------------|--|----------|-----------------|------|
| <b>A</b>              | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | JES3 |
|                       | <i>jesx</i> .MODIFY.NJE                | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b> | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .DISPLAY. <i>node-type</i> | OPERCMDS | READ            | JES2 |
|                       | <i>jesx</i> .DISPLAY.NODE              | OPERCMDS | READ            | JES3 |
| <b>DC</b>             | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .DISPLAY.CONNECT           | OPERCMDS | READ            | JES2 |
| <b>DP</b>             | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .DISPLAY.PATH              | OPERCMDS | READ            | JES2 |
| <b>EL</b>             | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .MODIFY.NJE                | OPERCMDS | UPDATE          | JES3 |
| <b>H</b>              | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .MODIFY.NJE                | OPERCMDS | UPDATE          | JES3 |
| <b>SN</b>             | ISFNODE. <i>node-name.jesx</i>         | SDSF     | READ            | ALL  |
|                       | <i>jesx</i> .START.NET                 | OPERCMDS | CONTROL         | JES2 |
|                       | <i>jesx</i> .CALL.NJE                  | OPERCMDS | READ            | JES3 |

In the table,

***node-name***

is the name of the node.

***jesx***

is the name of the JES subsystem.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the NODE panel, protect the NODE command. This is described in [“Authorized SDSF commands” on page 265](#).

## Example of protecting nodes

To protect all nodes, issue the following commands:

```
RDEFINE SDSF ISFNODE.** UACC(NONE)
PERMIT ISFNODE.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## Network servers (NS panel)

You can protect the network servers displayed on the NS panel.

### Protecting network servers

To protect network servers displayed on the NS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 227](#) on page 316.

Table 227. Resources for Network Servers

| Action Character  | Resource Names                        | Class    | Access Required   | JES  |
|-------------------|---------------------------------------|----------|---|------|
| <b>C</b>          | ISFNS.device-name.jesx                | SDSF     | CONTROL   | JES3 |
|                   | jesx.CANCEL.DEV.device-name           | OPERCMDS | UPDATE  | JES3 |
| <b>D</b>          | ISFNS.device-name.jesx                | SDSF     | READ  | ALL  |
|                   | jesx.DISPLAY.device-name              | OPERCMDS | READ  | JES2 |
|                   | jesx.DISPLAY.NETSRV                   | OPERCMDS | READ  | JES3 |
| <b>DA</b>         | ISFNS.device-name.jesx                | SDSF     | READ  | JES2 |
|                   | jesx.DISPLAY.APPL                     | OPERCMDS | READ  | JES2 |
| <b>DL</b>         | ISFNS.device-name.jesx                | SDSF     | READ  | JES2 |
|                   | jesx.DISPLAY.device-name              | OPERCMDS | READ  | JES2 |
| <b>DS</b>         | ISFNS.device-name.jesx                | SDSF     | READ  | JES2 |
|                   | jesx.DISPLAY.SOCKET                   | OPERCMDS | READ  | JES2 |
| <b>E</b>          | ISFNS.device-name.jesx                | SDSF     | CONTROL   | ALL  |
|                   | jesx.RESTART.device-name              | OPERCMDS | CONTROL   | JES2 |
|                   | jesx.RESTART.DEV.device-name          | OPERCMDS | UPDATE  | JES3 |
| <b>JD<br/>JDD</b> | ISFCMD.ODSP.DEVICE.sysname            | SDSF     | READ  | ALL  |
|                   | ISFJOB.DDNAME.owner.jobname.xsysname  | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JM</b>         | ISFCMD.ODSP.STORAGE.sysname           | SDSF     | READ  | ALL  |
|                   | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>K<br/>KD</b>   | ISFNS.device-name.jesx                | SDSF     | CONTROL   | ALL  |
|                   | MVS.CANCEL.STC.as_name                | OPERCMDS | UPDATE  |      |

Table 227. Resources for Network Servers (continued)

| Action Character      | Resource Names             | Class    | Access Required | JES  |
|-----------------------|----------------------------|----------|-----------------|------|
| <b>L</b><br><b>LD</b> | ISFNS.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|                       | jesx.FAIL.DEV.device-name  | OPERCMDS | CONTROL         | JES3 |
| <b>P</b>              | ISFNS.device-name.jesx     | SDSF     | CONTROL         | JES2 |
|                       | jesx.STOP.device-name      | OPERCMDS | CONTROL         | JES2 |
| <b>S</b>              | ISFNS.device-name.jesx     | SDSF     | CONTROL         | ALL  |
|                       | jesx.START.device-name     | OPERCMDS | CONTROL         | JES2 |
|                       | jesx.START.DEV.device-name | OPERCMDS | UPDATE          | JES3 |
| <b>X</b>              | ISFNS.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|                       | jesx.CALL.TCP              | OPERCMDS | UPDATE          | JES3 |
| <b>Z</b>              | ISFNS.device-name.jesx     | SDSF     | CONTROL         | ALL  |
|                       | MVS.FORCE.STC.as_name      | OPERCMDS | UPDATE          |      |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource” on page 372.](#)

To control access to the NS panel, protect the NS command. This is described in [“Authorized SDSF commands” on page 265.](#)

## Example of protecting network servers

To protect all network servers, issue the following commands:

```
RDEFINE SDSF ISFNS.** UACC(NONE)
PERMIT ISFNS.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## OPERLOG

The OPERLOG is a merged, sysplex-wide system message log. It is provided by a log stream, which is a collection of log data used by the MVS System Logger.

You protect the OPERLOG panel by controlling:

- Access to the LOG command, which displays the log panel. This is explained in [“Authorized SDSF commands” on page 265.](#)
- Authorization to the log stream used for OPERLOG. The system logger, rather than SDSF, issues a SAF call to ensure the authorization.

Parameters of the LOG command allow users to choose the SYSLOG rather than the OPERLOG. For information on protecting the SYSLOG, see [“System log \(LOG panel\)” on page 305.](#)

## Protecting the log stream

Protect the log stream user for OPERLOG by defining a resource name in the LOGSTRM class. The resource is shown in [Table 228 on page 318.](#)

Table 228. Authority Required for Accessing the Log Stream

| Function                 | Resource Name   | Class   | Access Required |
|--------------------------|-----------------|---------|-----------------|
| Access to the log stream | SYSplex.OPERLOG | LOGSTRM | READ            |

## Output queue (O panel)

To protect output displayed on the O panel, define resource names in the JESSPOOL and OPERCMDS classes.

The resources are shown in [Table 229 on page 318](#).

Table 229. Resources for Output Queue Jobs

| Action Character           | Resource Name                                       | Class    | Access Required | JES  |
|----------------------------|---|----------|-----------------|------|
| <b>A</b>                   | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i>  | JESSPOOL | ALTER           | JES2 |
|                            | <i>jesx.MODIFY.typeOUT</i>                          | OPERCMDs | UPDATE          | JES2 |
| <b>C</b>                   | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i>  | JESSPOOL | ALTER           | JES2 |
|                            | <i>jesx.CANCEL.typeOUT</i>                          | OPERCMDs | UPDATE          | JES2 |
| <b>H</b>                   | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i>  | JESSPOOL | ALTER           | JES2 |
|                            | <i>jesx.MODIFY.typeOUT</i>                          | OPERCMDs | UPDATE          | JES2 |
| <b>JS</b>                  | <i>nodeid.userid.jobname.jobid.EVENTLOG.SMFSTEP</i> | JESSPOOL | READ            | JES2 |
| <b>L</b><br><b>LL</b>      | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i>  | JESSPOOL | READ            | JES2 |
|                            | <i>jesx.DISPLAY.typeOUT</i>                         | OPERCMDs | READ            | JES2 |
| <b>P</b>                   | <i>nodeid.userid.jobname.jobid. GROUP.ogroupid</i>  | JESSPOOL | ALTER           | JES2 |
|                            | <i>jesx.CANCEL.typeOUT</i>                          | OPERCMDs | UPDATE          | JES3 |
| <b>S and X (all forms)</b> | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i>     | JESSPOOL | READ            | ALL  |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority” on page 430](#).

To control access to the O panel, protect the O command. This is described in [“Authorized SDSF commands” on page 265](#).

## Page data sets (PAG panel)

### Protecting page data sets

To protect page data sets displayed on the PAG panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 230 on page 319](#).



Table 230. Resources for Page Data Sets

| Action Character  | Resource Name                | Class    | Access Required | JES |
|---|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DC</b><br><b>DD</b><br><b>DL</b><br><b>DP</b><br><b>DS</b> | ISFPAG.datasetname           | SDSF     | READ            | ALL |
|   | MVS.DISPLAY.ASM              | OPERCMDS | READ            |     |
| <b>LCK</b>  | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the PAG panel, protect the PAG command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting page data sets

To protect all page data sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFPAG.** UACC(NONE)
PERMIT ISFPAG.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## PARMLIB data sets (PARM panel)

### Protecting PARM data sets

To protect parmlib data sets displayed on the PARM panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 231 on page 319](#).

Table 231. Resources for PARM Data Sets

| Action Character       | Resource Name                 | Class    | Access Required | JES |
|------------------------|-------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DE</b>  | ISFPARM.datasetname           | SDSF     | READ            | ALL |
|                        | MVS.DISPLAY.PARMLIB           | OPERCMDS | READ            |     |
| <b>LA</b><br><b>LP</b> | ISFPARM.datasetname           | SDSF     | READ            | ALL |
| <b>I</b>               | ISFCMD.ODSP.RACFLIST.sysname  | SDSF     | READ            | ALL |
| <b>I</b>               | ISFRACF.CLASS.DATASET.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the PARM panel, protect the PARM command. This is described in [“Authorized SDSF commands”](#) on page 265.

# Example of protecting PARM data sets

To protect all PARM data sets and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFPARM.** UACC(NONE)
PERMIT ISFPARM.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## PC routines (PC panel)

No action characters that require resources are available on the PC panel.

To control access to the PC panel, protect the PC command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Sysplexes (PLEX panel)

### Protecting systems in a sysplex

To protect systems displayed on the PLEX panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 232 on page 320](#).

Table 232. Resources for Systems in a Sysplex

| Action Character | Resource Name                | Class    | Access Required | JES |
|------------------|------------------------------|----------|-----------------|-----|
| D                | ISFPLEX.sysname              | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| LA               | ISFCMD.ODSP.CFSERVER.sysname | SDSF     | READ            | ALL |
| LC               | ISFCMD.ODSP.COUPLE.sysname   | SDSF     | READ            | ALL |
| LCK              | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |
| LM               | ISFCMD.ODSP.CFMEMBER.sysname | SDSF     | READ            | ALL |
| LS               | ISFCMD.ODSP.SYSTEM.sysname   | SDSF     | READ            | ALL |
| V                | ISFPLEX.sysname              | SDSF     | CONTROL         | ALL |
|                  | MVS.VARY.XCF                 | OPERCMDS | CONTROL         |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the PLEX panel, protect the PLEX command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting systems in a sysplex

To protect systems in a sysplex and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFPLEX.** UACC(NONE)
PERMIT ISFPLEX.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Program properties (PPT panel)

### Protecting program properties

To protect program properties displayed on the PPT panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 233 on page 321](#).

Table 233. Resources for Program Properties

| Action Character | Resource Name              | Class    | Access Required | JES |
|------------------|----------------------------|----------|-----------------|-----|
| <b>D</b>         | ISFPPT. <i>module-name</i> | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.PPT            | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the PPT panel, protect the PPT command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting program properties

To protect a program property entry and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFPPT.** UACC(NONE)
PERMIT ISFPPT.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Printers (PR panel)

You can protect the printers displayed on the PR panel.

Authority to access the job on the printer is not checked.

### Protecting printers

To protect printers displayed on the PR panel, define resource names in the WRITER class and in the OPERCMDS class.

The resources are shown in [Table 234 on page 321](#).

Table 234. Resources for Printers

| Action Character | Resource Name                                    | Class    | Access Required | JES  |
|------------------|--|----------|-----------------|------|
| <b>B</b>         | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
| <b>Bn</b>        | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|                  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
| <b>Bn,C</b>      | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|                  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|                  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |

Table 234. Resources for Printers (continued)

| Action Character   | Resource Name                                    | Class    | Access Required | JES  |
|--|--|----------|-----------------|------|
| <b>Bn,N</b><br><b>BnP,C</b><br><b>BnP,N</b><br><b>BC</b>     | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>BC</b><br><b>BC,n</b>                                     | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
| <b>BD</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>BN</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>C</b><br><b>CG</b><br><b>CJ</b><br><b>CP</b><br><b>CT</b> | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | ALTER           | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.CANCEL.DEV.device-name</i>               | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | READ            | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.DISPLAY.DEV</i>                          | OPERCMDS | READ            | JES2 |
|  | <i>jesx.DISPLAY.D</i>                            | OPERCMDS | READ            | JES3 |
| <b>E</b>   | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.device-type</i>                  | OPERCMDS | CONTROL         | JES2 |

Table 234. Resources for Printers (continued)

| Action Character  | Resource Name   | Class    | Access Required | JES  |
|---|---|----------|-----------------|------|
| <b>E</b><br><b>EA</b><br><b>ED</b><br><b>EH</b><br><b>EJ</b><br><b>EL</b><br><b>EM</b><br><b>ER</b><br><b>ET</b><br><b>EX</b> | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>F</b><br><b>Fn</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.FORWARD.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>Fn</b><br><b>Fn,C</b><br><b>Fn,N</b><br><b>FnP,C</b><br><b>FnP,N</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>FC</b><br><b>FC,n</b><br><b>FD</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | ALL  |
|   | <i>jesx.FORWARD.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>FC</b>   | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>FN</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>I</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.INTERRUPT.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>K</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | ALL  |
|   | <i>MVS.MODIFY.STC.fssproc.fssname</i>   | OPERCMDS | UPDATE          |      |
| <b>L</b><br><b>LD</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.FAIL.DEV.device-name</i>  | OPERCMDS | CONTROL         | JES3 |

Table 234. Resources for Printers (continued)

| Action Character  | Resource Name                                    | Class    | Access Required | JES  |
|---|--|----------|-----------------|------|
| <b>N</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.REPEAT.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
| <b>P</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.STOP.device-type</i>                     | OPERCMDS | CONTROL         | JES2 |
| <b>S</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.START.device-type</i>                    | OPERCMDS | CONTROL         | JES2 |
| <b>S</b><br><b>SA</b><br><b>SD</b><br><b>SM</b><br><b>ST</b><br><b>SX</b> | <i>jesx.START.DEV.device-name</i>                | OPERCMDS | UPDATE          | JES3 |
| <b>V</b><br><b>VF</b>   | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.MODIFY.V</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>X</b><br><b>XD</b><br><b>XR</b><br><b>XT</b><br><b>XX</b>              | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.CALL.WTR</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>Z</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.HALT.device-type</i>                     | OPERCMDS | UPDATE          | JES2 |

In the table,

***jesx***

is the name of the JES subsystem the printer is on.

***device-name***

is the name of the printer.

***device-type***

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372.](#)

To control access to the PR panel, protect the PR command. This is described in [“Authorized SDSF commands” on page 265.](#)

# Permitting access only while using SDSF

Users can be conditionally permitted to access the WRITER class resources so that they only can access printers through SDSF. See [“Using conditional access” on page 260](#) for more information.

## Examples of protecting printers

In the following examples, *jesx* is the name of the JES subsystem. For example, it might be *JES2*, *JESA*, or to protect all JES subsystems, *JES%*.

1. To protect all printers and punches, issue the following commands:

```
RDEFINE WRITER jesx.** UACC(READ)
PERMIT jesx.** CLASS(WRITER) ID(userid or groupid) ACCESS(ALTER)
```

2. To restrict printers to only be used through SDSF, issue the following command:

```
PERMIT jesx.** CLASS(WRITER) ID(userid or groupid) ACCESS(ALTER)
WHEN(CONSOLE(SDSF))
```

You must have the CONSOLE class active, the SDSF console defined in the console class, and the user authorized to use the SDSF console through the CONSOLE class, as follows:

```
SETROPTS CLASSACT(CONSOLE)
RDEFINE CONSOLE SDSF UACC(NONE)
PERMIT SDSF CLASS(CONSOLE) ID(userid or groupid) ACCESS(READ)
```

## Proclibs (PROC panel)

### Protecting proclibs

To protect proclibs displayed by the PROC panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 235 on page 325](#).

Table 235. Resources for Proclibs

| Action Character | Resource Name                         | Class | Access Required | JES |
|------------------|---------------------------------------|-------|-----------------|-----|
| D<br>DD          | ISFPLIB. <i>proclib-name</i>          | SDSF  | READ            | ALL |
|                  | <i>jesx</i> .DISPLAY.PROCLIB          | SDSF  | READ            | ALL |
| LA<br>LP         | ISFCMD.ODSP.RACFLIST. <i>sysname</i>  | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.DATASET. <i>sysname</i> | SDSF  | READ            | ALL |

For the generated system commands and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the PROC panel, protect the PROC command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting proclibs

To protect Proclibs and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFPLIB.** UACC(NONE)
PERMIT ISFPLIB.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Product enablement (PROD panel)

To protect product information displayed on the PROD panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 236 on page 326](#).

Table 236. Resources for Enabled Products

| Action Character      | Resource Name    | Class    | Access Required | JES |
|-----------------------|------------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b> | ISFPROD.product  | SDSF     | READ            | ALL |
|                       | MVS.DISPLAY.PROD | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

To control access to the PROD panel, protect the PROD command. This is described in “[Authorized SDSF commands](#)” on page 265.

### Example of protecting enabled products

To protect enabled products, define a generic profile as follows:

```
REDEFINE SDSF ISFPROD.** UACC(NONE)
PERMIT ISFPROD.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Processes on z/OS UNIX System Services (PS panel)

You can protect the z/OS UNIX System Services (z/OS UNIX) processes displayed on the PS panel.

### Protecting processes

To protect UNIX system services processes displayed on the PS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 262 on page 344](#).

Table 237. Resources for z/OS UNIX Processes

| Action Character | Resource Name                    | Class    | Access Required | JES |
|------------------|----------------------------------|----------|-----------------|-----|
| <b>C</b>         | ISFPROC.owner.jobname            | SDSF     | ALTER           | ALL |
|                  | MVS.CANCEL.jobtype.jobname       | OPERCMDS | UPDATE          |     |
| <b>D</b>         | ISFPROC.owner.jobname            | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.OMVS                 | OPERCMDS | READ            |     |
| <b>K</b>         | ISFPROC.owner.jobname            | SDSF     | ALTER           | ALL |
|                  | MVS.MODIFY.STC.BPXOINIT.BPXOINIT | OPERCMDS | UPDATE          |     |
| <b>L</b>         | See note                         |          |                 |     |



Table 237. Resources for z/OS UNIX Processes (continued)

| Action Character | Resource Name                                   | Class    | Access Required | JES |
|------------------|---|----------|-----------------|-----|
| <b>LCK</b>       | ISFCMD.ODSP.HCHECKER. <i>sysname</i>            | SDSF     | READ            | ALL |
| <b>LT</b>        | ISFCMD.ODSP.THREADS. <i>sysname</i><br>See note | SDSF     | READ            | ALL |
| <b>LU</b>        | ISFCMD.ODSP.RACFLIST. <i>sysname</i>            | SDSF     | READ            | ALL |
|                  | ISFRACF.CLASS.USER. <i>sysname</i>              | SDSF     | READ            | ALL |
| <b>T</b>         | ISFPROC. <i>owner.jobname</i>                   | SDSF     | ALTER           | ALL |
|                  | MVS.MODIFY.STC.BPXOINIT.BPXOINIT                | OPERCMDS | UPDATE          |     |

**Note:** Using the L and LT action characters requires SDSFAUX READ access to the UNIXPRIV class SUPERUSER.PROCESS.GETPSENT.

In the table,

***sysname***

is the name of the system that the user is logged on to.

***owner***

is the owner of the z/OS UNIX process.

***jobname***

is the jobname of the z/OS UNIX process.

For the generated system command(s) and resources that are checked, see “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

To control access to the PS panel, protect the PS command. This is described in “[Authorized SDSF commands](#)” on page 265.

## Example of protecting processes

To protect all processes issue the following commands:

```
RDEFINE SDSF ISFPROC.** UACC(NONE)
PERMIT ISFPROC.** CLASS(SDSF) ID(userid or groupid)
ACCESS(ALTER)
```

## Punches (PUN panel)

You can protect the punches displayed on the PUN panel.

## Protecting punches

To protect punches displayed on the PUN panel, define resource names in the WRITER class and in the OPERCMDS class.

The resources are shown in [Table 238 on page 327](#).

Table 238. Resources for Punches

| Action Character | Resource Name                                    | Class  | Access Required | JES  |
|------------------|--|--------|-----------------|------|
| <b>B</b>         | <i>jesx.LOCAL.device-name</i> for local printers | WRITER | CONTROL         | JES2 |
| <b>Bn</b>        | <i>jesx.RJE.device-name</i> for remote printers  |        |                 |      |

Table 238. Resources for Punches (continued)

| Action Character   | Resource Name                                    | Class    | Access Required | JES  |
|--|--|----------|-----------------|------|
|  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
| <b>Bn,C</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>Bn,N</b><br><b>BnP,C</b><br><b>BnP,N</b><br><b>BC</b>     | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>BC</b><br><b>BC,n</b>                                     | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
| <b>BD</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.BACKSP.DEV</i>                           | OPERCMDS | UPDATE          | JES2 |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>BN</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.DEV.device-name</i>              | OPERCMDS | UPDATE          | JES3 |
| <b>C</b><br><b>CG</b><br><b>CJ</b><br><b>CP</b><br><b>CT</b> | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | ALTER           | JES3 |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.CANCEL.DEV.device-name</i>               | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | READ            | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.DISPLAY.DEV</i>                          | OPERCMDS | READ            | JES2 |
|  | <i>jesx.DISPLAY.D</i>                            | OPERCMDS | READ            | JES3 |
| <b>E</b>   | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|  | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|  | <i>jesx.RESTART.device-type</i>                  | OPERCMDS | CONTROL         | JES2 |

Table 238. Resources for Punches (continued)

| Action Character   | Resource Name   | Class    | Access Required | JES  |
|--|---|----------|-----------------|------|
| <b>E</b><br><b>EA</b><br><b>ED</b><br><b>EH</b><br><b>EJ</b><br><b>EM</b><br><b>ER</b><br><b>ET</b><br><b>EX</b> | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>F</b><br><b>Fn</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |
|  | <i>jesx.FORWARD.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>Fn,C</b><br><b>Fn,N</b><br><b>FnP,C</b><br><b>FnP,N</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>FC</b><br><b>FC,n</b><br><b>FD</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | ALL  |
|  | <i>jesx.FORWARD.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>FC</b>  | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>FN</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.RESTART.DEV.device-name</i>   | OPERCMDS | UPDATE          | JES3 |
| <b>I</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |
|  | <i>jesx.INTERRUPT.DEV</i>   | OPERCMDS | UPDATE          | JES2 |
| <b>L</b><br><b>LD</b>  | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES3 |
|  | <i>jesx.FAIL.DEV.device-name</i>  | OPERCMDS | CONTROL         | JES3 |
| <b>N</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |
|  | <i>jesx.REPEAT.DEV</i>  | OPERCMDS | UPDATE          | JES2 |
| <b>P</b>   | <i>jesx.LOCAL.device-name</i> for local printers<br><i>jesx.RJE.device-name</i> for remote printers | WRITER   | CONTROL         | JES2 |

Table 238. Resources for Punches (continued)

| Action Character  | Resource Name                                    | Class    | Access Required | JES  |
|---|--|----------|-----------------|------|
|   | <i>jesx.STOP.device-type</i>                     | OPERCMDS | CONTROL         | JES2 |
| <b>S</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | ALL  |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.START.device-type</i>                    | OPERCMDS | CONTROL         | JES2 |
| <b>S</b><br><b>SA</b><br><b>SD</b><br><b>SM</b><br><b>ST</b><br><b>SX</b> | <i>jesx.START.DEV.device-name</i>                | OPERCMDS | UPDATE          | JES3 |
| <b>V</b><br><b>VF</b>   | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.MODIFY.V</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>X</b><br><b>XD</b><br><b>XR</b><br><b>XT</b><br><b>XX</b>              | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES3 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.CALL.WTR</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>Z</b>  | <i>jesx.LOCAL.device-name</i> for local printers | WRITER   | CONTROL         | JES2 |
|   | <i>jesx.RJE.device-name</i> for remote printers  |          |                 |      |
|   | <i>jesx.HALT.device-type</i>                     | OPERCMDS | UPDATE          | JES2 |

In the table,

***jesx***

is the name of the JES subsystem the printer is on.

***device-name***

is the name of the printer.

***device-type***

is the device type.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the PUN panel, protect the PUN command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Permitting access only while using SDSF

Users can be conditionally permitted to access the WRITER class resources so that they only can access punches through SDSF. With RACF, the user can be permitted to access the WRITER profiles using the clause `WHEN (CONSOLE (SDSF))` with the PERMIT command. See [“Using conditional access”](#) on page 260 for more information.

## Example of protecting punches

To protect all punches and printers issue the following commands:

```
RDEFINE WRITER jess.** UACC(READ)
PERMIT jess.** CLASS(WRITER) ID(userid or groupid) ACCESS(ALTER)
```

## RACF classes (RAC panel)

To protect RACF classes displayed on the RAC panel, define resource names in the SDSF class.

The resources are shown in [Table 239 on page 331](#).

Table 239. Resources for RACF classes

| Action Character | Resource Name                   | Class | Access Required | JES |
|------------------|---------------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.RACFLIST.sysname    | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.classname.sysname | SDSF  | READ            | ALL |

To control access to the RAC panel, protect the RAC command. This is described in [“Authorized SDSF commands” on page 265](#).

## RACF data sets (RACD panel)

To protect RACF data sets displayed on the RACD panel, define resource names in the SDSF class.

The resources are shown in [Table 240 on page 331](#).

Table 240. Resources for RACF Data Sets

| Action Character | Resource Name                 | Class | Access Required | JES |
|------------------|-------------------------------|-------|-----------------|-----|
| LA               | ISFCMD.ODSP.RACFLIST.sysname  | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.DATASET.sysname | SDSF  | READ            | ALL |
| LP               | ISFCMD.ODSP.RACFLIST.sysname  | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.DATASET.sysname | SDSF  | READ            | ALL |
| LVT              | ISFCMD.ODSP.VTOC.sysname      | SDSF  | READ            | ALL |

To control access to the RACD panel, protect the RACD command. This is described in [“Authorized SDSF commands” on page 265](#).

## RACF information (RACF panel)

To protect RACF information displayed on the RACF panel, define resource names in the SDSF class.

The resources are shown in [Table 241 on page 331](#).

Table 241. Resources for RACF Information

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.RACF.sysname     | SDSF  | READ            | ALL |
| LCK              | ISFCMD.ODSP.HCHECKER.sysname | SDSF  | READ            | ALL |

Table 241. Resources for RACF Information (continued)

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| LO               | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |

To control access to the RACF panel, protect the RACF command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF GROUP profiles (RACG panel)

To protect RACF profiles in the GROUP class displayed on the RACG panel, define resource names in the SDSF class.

The resources are shown in [Table 242 on page 332](#).

Table 242. Resources for RACF Profiles in the GROUP class

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.GROUP.sysname  | SDSF  | READ            | ALL |

To control access to the RACG panel, protect the RACG command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF options (RACO panel)

No action characters that require resources are available on the RACO panel.

To control access to the RACO panel, protect the RACO command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF profiles (RACP panel)

To protect RACF profiles displayed on the RACP panel, define resource names in the SDSF class.

The resources are shown in [Table 243 on page 332](#).

Table 243. Resources for RACF Profiles

| Action Character | Resource Name                 | Class | Access Required | JES |
|------------------|-------------------------------|-------|-----------------|-----|
| L, S             | ISFCMD.ODSP.RACFLIST.sysname  | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.DATASET.sysname | SDSF  | READ            | ALL |

To control access to the RACP panel, protect the RACP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF RRSF nodes (RACR panel)

To protect RACF RRSF nodes displayed on the RACR panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 244 on page 333](#).

Table 244. Resources for RACF RRSF Nodes

| Action Character | Resource Name                 | Class    | Access Required | JES |
|------------------|-------------------------------|----------|-----------------|-----|
| <b>D</b>         | ISFOBJ.RACR.sysname           | OPERCMDS | CONTROL         | ALL |
|                  | racfsubsys.TARGET.LIST        | OPERCMDS | READ            | ALL |
| <b>VAI</b>       | ISFOBJ.RACR.sysname           | SDSF     | CONTROL         | ALL |
|                  | racfsubsys.TARGET.DENYINBOUND | OPERCMDS | CONTROL         | ALL |
| <b>VD</b>        | ISFOBJ.RACR.sysname           | SDSF     | CONTROL         | ALL |
|                  | racfsubsys.TARGET.OPERATIVE   | OPERCMDS | CONTROL         | ALL |
| <b>VDI</b>       | ISFOBJ.RACR.sysname           | SDSF     | CONTROL         | ALL |
|                  | racfsubsys.TARGET.DENYINBOUND | OPERCMDS | CONTROL         | ALL |
| <b>VO</b>        | ISFOBJ.RACR.sysname           | SDSF     | CONTROL         | ALL |
|                  | racfsubsys.TARGET.OPERATIVE   | OPERCMDS | CONTROL         | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the RACR panel, protect the RACR command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF USER profiles (RACU panel)

To protect RACF profiles in the USER class displayed on the RACU panel, define resource names in the SDSF class.

The resources are shown in [Table 245 on page 333](#).

Table 245. Resources for RACF Profiles in the USER class

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>L, S</b>      | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.USER.sysname   | SDSF  | READ            | ALL |

To control access to the RACU panel, protect the RACU command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Readers (RDR panel)

You can protect the readers displayed on the RDR panel.

### Protecting readers

To protect readers displayed on the RDR panel, define resource names in the SDSF class and in the OPERCMDs class.

The resources are shown in [Table 246 on page 334](#).

Table 246. Resources for Readers

| Action Character  | Resource Name               | Class    | Access Required | JES  |
|---|-----------------------------|----------|-----------------|------|
| <b>C</b>  | ISFRDR.device-name.jesx     | SDSF     | ALTER           | ALL  |
|   | jesx.CANCEL.DEV             | OPERCMDS | UPDATE          | JES2 |
|   | jesx.CANCEL.DEV.device-name | OPERCMDS | UPDATE          | JES3 |
| <b>CH</b><br><b>CHN</b><br><b>CK</b><br><b>CKN</b>                          | ISFRDR.device-name.jesx     | SDSF     | ALTER           | JES3 |
|   | jesx.CANCEL.DEV.device-name | OPERCMDS | UPDATE          | JES3 |
| <b>D</b><br><b>DL</b>   | ISFRDR.device-name.jesx     | SDSF     | READ            | ALL  |
|   | jesx.DISPLAY.device-type    | OPERCMDS | READ            | JES2 |
|   | jesx.DISPLAY.D              | OPERCMDS | READ            | JES3 |
| <b>L</b><br><b>LD</b>   | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|   | jesx.FAIL.DEV.device-name   | OPERCMDS | CONTROL         | JES3 |
| <b>P</b>  | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES2 |
|   | jesx.STOP.device-type       | OPERCMDS | UPDATE          | JES2 |
| <b>S</b>  | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES2 |
|   | jesx.START.device-type      | OPERCMDS | CONTROL         | JES2 |
| <b>S</b><br><b>SH</b><br><b>SHN</b><br><b>SK</b><br><b>SKN</b>              | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|   | jesx.START.DEV.device-name  | OPERCMDS | UPDATE          | JES3 |
| <b>V</b><br><b>VF</b>   | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|   | jesx.MODIFY.V               | OPERCMDS | UPDATE          | JES3 |
| <b>X</b><br><b>XC</b><br><b>XH</b><br><b>XHN</b><br><b>XK</b><br><b>XKN</b> | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES3 |
|   | jesx.CALL.CR                | OPERCMDS | UPDATE          | JES3 |
| <b>Z</b>  | ISFRDR.device-name.jesx     | SDSF     | CONTROL         | JES2 |



Table 246. Resources for Readers (continued)

| Action Character | Resource Name                | Class    | Access Required | JES  |
|------------------|------------------------------|----------|-----------------|------|
|                  | <i>jesx.HALT.device-type</i> | OPERCMDS | UPDATE          | JES2 |

In the table,

***jesx***

is the name of the JES subsystem.

***device-name***

is the name of the reader.

***device-type***

is the device type.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the RDR panel, protect the RDR command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting readers

To protect all readers issue the following commands:

```

RDEFINE SDSF ISFRDR.** UACC(NONE)
PERMIT ISFRDR.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)

```

## WLM report classes (REPC panel)

To protect report classes displayed on the REPC panel, define resource names in the SDSF class.

The resources are shown in [Table 247 on page 335](#).

Table 247. Resources for WLM Report Classes

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| L                | ISFCMD.DSP.ACTIVE.jesx      | SDSF  | READ            | ALL |
| LE               | ISFCMD.ODSP.ENCLAVE.sysname | SDSF  | READ            | ALL |

To control access to the REPC panel, protect the REPC command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Resources defined to WLM (RES panel)

You can protect the WLM resources that are displayed on the RES panel.

## Protecting WLM resources

To protect WLM resources displayed on the RES panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 248 on page 336](#).

Table 248. Resources for WLM Resources

| Action Character | Resource Name          | Class    | Access Required | JES |
|------------------|------------------------|----------|-----------------|-----|
| D                | ISFRES.resource.system | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.WLM        | OPERCMDS | READ            |     |

To protect the MVS commands generated by action characters or overtypable fields, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the RES panel, protect the RES command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting resources

To protect all resources and permit a user to control them, define a generic profile as follows:

```
RDEFINE SDSF ISFRES.** UACC(NONE)
PERMIT ISFRES.** CLASS(SDSF) ID(userid or groupid) ACCESS(ALTER)
```

## WLM resource groups (RGRP panel)

To protect WLM resource groups displayed on the RGRP panel, define resource names in the SDSF class.

The resources are shown in [Table 249 on page 336](#).

Table 249. Resources for WLM Resource Groups

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| L                | ISFCMD.DSP.ACTIVE.jesx      | SDSF  | READ            | ALL |
| LE               | ISFCMD.ODSP.ENCLAVE.sysname | SDSF  | READ            | ALL |

To control access to the RGRP panel, protect the RGRP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## RACF log (RLOG panel)

To protect logged RACF access attempts displayed on the RLOG panel, define resource names in the SDSF class.

The resources are shown in [Table 250 on page 336](#).

Table 250. Resources for RACF Access Attempts

| Action Character | Resource Name                  | Class | Access Required | JES |
|------------------|--------------------------------|-------|-----------------|-----|
| L                | ISFCMD.ODSP.SYSLOG.jesx        | SDSF  | READ            | ALL |
| LA<br>LP         | ISFCMD.ODSP.RACFLIST.sysname   | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.FACILITY.sysname | SDSF  | READ            | ALL |

To control access to the RLOG panel, protect the RLOG command. This is described in [“Authorized SDSF commands”](#) on page 265.

## JES2 resources (RM panel)

You can protect the JES2 resources that are displayed on the RM panel (JES2 only).

### Protecting JES2 resources

To protect JES2 resources, such as JOEs, JQEs and BERTs, that are displayed on the RM panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 251 on page 337](#).

Table 251. Resources for JES2 Resources

| Action Character | Resource Name                      | Class    | Access Required | JES  |
|------------------|------------------------------------|----------|-----------------|------|
| D                | ISFRM.resource.jesx                | SDSF     | READ            | JES2 |
|                  | jesx.DISPLAY.resource <sup>1</sup> | OPERCMDS | READ            | JES2 |

The values for *resource* are:

#### BERT

Block extension reuse table

#### BSCB

Bisynchronous buffers

#### BUFX

Extended logical buffers

#### CKVR

Checkpoint versions

#### CMBS

Console message buffers

#### CMDS

Console message buffers for command processing

#### ICES

SNA interface control elements

#### LBUF

Logical buffers

#### JNUM

Job numbers

#### JQES

Job queue elements

#### JOES

Job output elements

#### NHBS

NJE header/trailer buffers

#### SMFB

System management facilities buffers

#### TGS

Spool space/track groups

#### TTAB

Trace tables

#### VTMB

VTAM® buffers

## ZJC

JOBGROUP info CBs

<sup>1</sup> The following table shows the SAF resources in the OPERCMDS class for the JES2 resources displayed on the RM panel.

Table 252. OPERCMDS Resources That Protect Issuing Action Characters for JES2 Resources

| JES2 Resource | OPERCMDS Resource      | Access Required |
|---------------|------------------------|-----------------|
| BERT          | jesx.DISPLAY.CKPTSPACE | READ            |
| BSCB          | jesx.DISPLAY.TPDEF     | READ            |
| BUFX          | jesx.DISPLAY.BUFDEF    | READ            |
| CKVR          | jesx.DISPLAY.CKPTDEF   | READ            |
| CMBS          | jesx.DISPLAY.CONDEF    | READ            |
| CMDS          | jesx.DISPLAY.CONDEF    | READ            |
| ICES          | jesx.DISPLAY.TPDEF     | READ            |
| JNUM          | jesx.DISPLAY.JOBDEF    | READ            |
| JOES          | jesx.DISPLAY.OUTDEF    | READ            |
| JQES          | jesx.DISPLAY.JOBDEF    | READ            |
| LBUF          | jesx.DISPLAY.BUFDEF    | READ            |
| NHBS          | jesx.DISPLAY.NJEDEF    | READ            |
| SMFB          | jesx.DISPLAY.SMFDEF    | READ            |
| TBUF          | Not applicable         |                 |
| TGS           | jesx.DISPLAY.SPOOLDEF  | READ            |
| TTAB          | jesx.DISPLAY.TRACEDEF  | READ            |
| VTMB          | jesx.DISPLAY.TPDEF     | READ            |
| ZJC           | jesx.DISPLAY.GRPDEF    | READ            |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the RM panel, protect the RM command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting JES2 resources

To protect all JES2 resources and permit a user to control them, you can define generic profiles as follows:

```
RDEFINE SDSF ISFRM.** UACC(NONE)
PERMIT ISFRM.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## Resource monitor alerts (RMA panel)

### Protecting resource monitor alerts

To protect resource monitor alerts, notices, and tracks displayed on the RMA panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 253 on page 339](#).

Table 253. Resources for Resource Monitor Alerts

| Action Character | Resource Name           | Class    | Access Required | JES  |
|------------------|-------------------------|----------|-----------------|------|
| <b>J</b>         | ISFRMA.NOTICE.jesx      | SDSF     | READ            | JES2 |
|                  | jesxMON.DISPLAY.MONITOR | OPERCMDS | READ            | JES2 |
| <b>JD</b>        | ISFRMA.NOTICE.jesx      | SDSF     | READ            | JES2 |
|                  | jesxMON.DISPLAY.DETAIL  | OPERCMDS | READ            | JES2 |
| <b>JH</b>        | ISFRMA.NOTICE.jesx      | SDSF     | READ            | JES2 |
|                  | jesxMON.DISPLAY.HISTORY | OPERCMDS | READ            | JES2 |
| <b>JJ</b>        | ISFRMA.NOTICE.jesx      | SDSF     | READ            | JES2 |
|                  | jesxMON.DISPLAY.JES     | OPERCMDS | READ            | JES2 |
| <b>JS</b>        | ISFRMA.NOTICE.jesx      | SDSF     | READ            | JES2 |
|                  | jesxMON.DISPLAY.STATUS  | OPERCMDS | READ            | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the RMA panel, protect the RMA command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting resource monitor alerts

To protect resource monitor alerts and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFRMA.** UACC(NONE)
PERMIT ISFRMA.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Scheduling environments (SE panel)

You can protect the WLM scheduling environments that are displayed on the SE panel.

### Protecting scheduling environments

To protect scheduling environments displayed on the SE panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 254 on page 339](#).

Table 254. Resources for Scheduling Environments

| Action Character | Resource Name          | Class | Access Required | JES |
|------------------|------------------------|-------|-----------------|-----|
| <b>D</b>         | ISFSE.sched-env.system | SDSF  | READ            | ALL |

Table 254. Resources for Scheduling Environments (continued)

| Action Character | Resource Name                        | Class    | Access Required | JES |
|------------------|--------------------------------------|----------|-----------------|-----|
|                  | MVS.DISPLAY.WLM                      | OPERCMDS | READ            |     |
| <b>R</b>         | ISFCMD.ODSP.RESOURCE. <i>sysname</i> | SDSF     | READ            | ALL |
| <b>ST</b>        | ISFCMD.DSP.STATUS. <i>jesx</i>       | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SE panel, protect the SE command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting scheduling environments

To protect all scheduling environments and permit a user to control them, define a generic profile as follows:

```
RDEFINE SDSF ISFSE.** UACC(NONE)
PERMIT ISFSE.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## SMF data sets (SMFD panel)

### Protecting SMF data sets

To protect SMF data sets displayed on the SMFD panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 255 on page 340](#).

Table 255. Resources for SMF Data Sets

| Action Character | Resource Name          | Class    | Access Required | JES |
|------------------|------------------------|----------|-----------------|-----|
| <b>D</b>         | ISFSMFD. <i>dsname</i> | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SMF        | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SMFD panel, protect the SMFD command. This is described in [“Protecting SDSF authorized functions”](#) on page 265.

### Example of protecting SMF data sets

To protect SMF data sets and permit a user to access them, define a generic profile as follows:

```
REDEFINE SDSF .** UACC(NONE)
PERMIT ISFSMFD.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## SMF log streams (SMFL panel)

To protect SMF log streams displayed on the SMFL panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 256 on page 341](#).

Table 256. Resources for SMF Log Streams

| Action Character | Resource Name       | Class    | Access Required | JES |
|------------------|---------------------|----------|-----------------|-----|
| D                | ISFOBJ.SMFL.sysname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SMF     | OPERCMD5 | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMD5 resource”](#) on page 372.

To control access to the SMFL panel, protect the SMFL command. This is described in [“Authorized SDSF commands”](#) on page 265.

## SMF options (SMFO panel)

### Protecting SMF options

To protect SMF options displayed on the SMFO panel, define resource names in the SDSF class and in the OPERCMD5 class.

The resources are shown in [Table 257 on page 341](#).

Table 257. Resources for SMF Options

| Action Character     | Resource Name               | Class    | Access Required | JES |
|----------------------|-----------------------------|----------|-----------------|-----|
| D                    | ISFSMFO.id                  | SDSF     | READ            | ALL |
|                      | MVS.DISPLAY.SMF             | OPERCMD5 | READ            |     |
| LD<br>LL<br>LR<br>LS | ISFCMD.ODSP.SMFDATA.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMD5 resource”](#) on page 372.

To control access to the SMFO panel, protect the SMFO command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting SMF options

To protect SMF options and permit a user to view them, define a generic profile as follows:

```
REDEFINE SDSF .** UACC(NONE)
PERMIT ISFSMFO.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## SMF real-time resources (SMFR panel)

To protect SMF real-time resources displayed on the SMFR panel, define resource names in the SDSF class and in the OPERCMD5 class.

The resources are shown in [Table 258 on page 342](#).

Table 258. Resources for SMF Real-Time Resources

| Action Character | Resource Name       | Class    | Access Required | JES |
|------------------|---------------------|----------|-----------------|-----|
| D                | ISFOBJ.SMFR.sysname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SMF     | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the SMFR panel, protect the SMFR command. This is described in [“Authorized SDSF commands”](#) on page 265.

## SMF subsystems (SMFS panel)

### Protecting SMF subsystems

To protect SMF subsystems displayed on the SMFS panel, define resource names in the SDSF class and in the OPERCMDs class.

The resources are shown in [Table 259 on page 342](#).

Table 259. Resources for SMF Subsystems

| Action Character | Resource Name   | Class    | Access Required | JES |
|------------------|-----------------|----------|-----------------|-----|
| D                | ISFSMFS.id      | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SMF | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource”](#) on page 372.

To control access to the SMFS panel, protect the SMFS command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting SMF subsystems

To protect SMF subsystems and permit a user to view them, define a generic profile as follows:

```
REDEFINE SDSF .** UACC(NONE)
PERMIT ISFSMFS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## SMS storage groups (MSG panel)

### Protecting SMS storage groups

To protect SMS storage groups displayed on the MSG panel, define resource names in the SDSF class and in the OPERCMDs class.

The resources are shown in [Table 260 on page 343](#).



Table 260. Resources for SMS Storage Groups

| Action Character   | Resource Name                | Class    | Access Required | JES |
|--|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DL</b>  | ISFSTORGRP.storagegroupname  | SDSF     | READ            | ALL |
|  | MVS.DISPLAY.SMS              | OPERCMDS | READ            |     |
| <b>L</b>   | ISFCMD.ODSP.SMSVOL.sysname   | SDSF     | READ            | ALL |
| <b>LS</b>  | ISFCMD.ODSP.DEVSPACE.sysname | SDSF     | READ            | ALL |
| <b>VD</b><br><b>VDN</b><br><b>VE</b><br><b>VQ</b><br><b>VQN</b><br><b>VS</b> | ISFSTORGRP.storagegroupname  | SDSF     | UPDATE          | ALL |
|  |                              |          |                 |     |
|  |                              |          |                 |     |
|  |                              |          |                 |     |
|  |                              |          |                 |     |
|  |                              |          |                 |     |
|  | MVS.VARY.SMS                 | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SMSG panel, protect the SMSG command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting SMS storage groups

To protect an SMS storage group and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFSTORGRP.** UACC(NONE)
PERMIT ISFSTORGRP.** CLASS(SDSF) ID(userid) ACCESS(UPDATE)
```

## SMS volumes (SMSV panel)

### Protecting SMS volumes

To protect SMS volumes displayed on the SMSV panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 261 on page 343](#).

Table 261. Resources for SMS Volumes

| Action Character                                | Resource Name                | Class    | Access Required | JES |
|---|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DC</b><br><b>DS</b><br><b>DL</b> | ISFSMSVOL.volume             | SDSF     | READ            | ALL |
|   |                              |          |                 |     |
|   |                              |          |                 |     |
|   |                              |          |                 |     |
|   | MVS.DISPLAY.SMS              | OPERCMDS | READ            |     |
| <b>LS</b>                                       | ISFCMD.ODSP.DEVSPACE.sysname | SDSF     | READ            | ALL |
|   | ISFCMD.ODSP.SMSVOL.sysname   | SDSF     | READ            | ALL |

Table 261. Resources for SMS Volumes (continued)

| Action Character   | Resource Name                    | Class | Access Required | JES |
|--|----------------------------------|-------|-----------------|-----|
| <b>LVT</b>   | ISFCMD.ODSP.VTOC. <i>sysname</i> | SDSF  | READ            | ALL |
| <b>VD</b><br><b>VDN</b><br><b>VE</b><br><b>VQ</b><br><b>VQN</b><br><b>VS</b> | ISFSMSVOL. <i>volume</i>         | SDSF  | UPDATE          | ALL |
|  | MVS.VARY.SMS                     | SDSF  | UPDATE          |     |

For the generated system command(s) and resources that are checked, see “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

To control access to the SMSV panel, protect the SMSV command. This is described in “[Authorized SDSF commands](#)” on page 265.

## Example of protecting SMS volumes

To protect an SMS volume and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFSMSVOL.** UACC(NONE)
PERMIT ISFSMSVOL.** CLASS(SDSF) ID(userid) ACCESS(UPDATE)
```

## Spool offloaders (SO panel)

You can protect the offloaders displayed on the SO panel (JES2 only).

### Protecting spool offloaders

To protect spool offloaders displayed on the SO panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 262 on page 344](#).

Table 262. Resources for Spool Offloaders

| Action Character      | Resource Name                  | Class    | Access Required | JES  |
|-----------------------|--------------------------------|----------|-----------------|------|
| <b>C</b>              | ISFSO. <i>device-name.jesx</i> | SDSF     | ALTER           | JES2 |
|                       | <i>jesx.CANCEL.DEV</i>         | OPERCMDS | UPDATE          | JES2 |
| <b>D</b><br><b>DL</b> | ISFSO. <i>device-name.jesx</i> | SDSF     | READ            | JES2 |
|                       | <i>jesx.DISPLAY.DEV</i>        | OPERCMDS | READ            | JES2 |
| <b>E</b>              | ISFSO. <i>device-name.jesx</i> | SDSF     | CONTROL         | JES2 |
|                       | <i>jesx.RESTART.DEV</i>        | OPERCMDS | UPDATE          | JES2 |
| <b>P</b>              | ISFSO. <i>device-name.jesx</i> | SDSF     | CONTROL         | JES2 |
|                       | <i>jesx.STOP.DEV</i>           | OPERCMDS | UPDATE          | JES2 |

Table 262. Resources for Spool Offloaders (continued)

| Action Character | Resource Name                  | Class    | Access Required | JES  |
|------------------|--------------------------------|----------|-----------------|------|
| S<br>SR<br>ST    | ISFSO. <i>device-name.jesx</i> | SDSF     | CONTROL         | JES2 |
|                  | <i>jesx</i> .START.DEV         | OPERCMDS | UPDATE          | JES2 |

In the table,

***device-name***

is the name of the offloader, transmitter, or receiver.

***jesx***

is the name of the JES2 subsystem.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SO panel, protect the SO command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting spool offloaders

To protect all offloaders issue the following commands:

```

RDEFINE SDSF ISFSO.** UACC(NONE)
PERMIT ISFSO.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)

```

## Spool volumes (SP panel)

You can protect the spool volumes displayed on the SP panel.

## Protecting spool volumes

To protect spool volumes displayed on the SP panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 263 on page 345](#).

Table 263. Resources for Spool Volumes

| Action Character | Resource Name  | Class    | Access  | JES  |
|------------------|--|----------|---------|------|
| A                | ISFSP. <i>ddname.jesx</i> ISFSP. <i>partitionname.jesx</i> | SDSF     | CONTROL | JES3 |
|                  | <i>jesx</i> .MODIFY.Q                                      | OPERCMDS | UPDATE  | JES3 |
| D<br>DL          | ISFSP. <i>volser.jesx</i>                                  | SDSF     | READ    | JES2 |
|                  | <i>jesx</i> .DISPLAY.SPOOL                                 | OPERCMDS | READ    | JES2 |
| D<br>DL          | ISFSP. <i>ddname.jesx</i> ISFSP. <i>partitionname.jesx</i> | SDSF     | READ    | JES3 |
|                  | <i>jesx</i> .DISPLAY.Q                                     | OPERCMDS | READ    | JES3 |

Table 263. Resources for Spool Volumes (continued)

| Action Character                   | Resource Name                              | Class    | Access  | JES  |
|------------------------------------|--|----------|---------|------|
| <b>H</b><br><b>HC</b><br><b>HP</b> | ISFSP.ddname.jesx ISFSP.partitionname.jesx | SDSF     | CONTROL | JES3 |
|                                    | jesx.MODIFY.Q                              | OPERCMDS | UPDATE  | JES3 |
| <b>J</b>                           | ISFSP.volser.jesx                          | SDSF     | READ    | JES2 |
|                                    | jesx.DISPLAY.JST                           | OPERCMDS | READ    | JES2 |
| <b>J</b>                           | ISFSP.ddname.jesx ISFSP.partitionname.jesx | SDSF     | READ    | JES3 |
|                                    | jesx.DISPLAY.Q                             | OPERCMDS | READ    | JES3 |
| <b>LH</b>                          | ISFCMD.ODSP.RESMON.jesx                    | SDSF     | READ    | JES2 |
| <b>LVT</b>                         | ISFCMD.ODSP.VTOC.sysname                   | SDSF     | READ    | JES2 |
| <b>P</b><br><b>PC</b>              | ISFSP.volser.jesx                          | SDSF     | CONTROL | JES2 |
|                                    | jesx.STOP.SPOOL                            | OPERCMDS | CONTROL | JES2 |
| <b>P</b><br><b>U</b>               | ISFSP.ddname.jesx ISFSP.partitionname.jesx | SDSF     | UPDATE  | JES3 |
|                                    | jesx.MODIFY.Q                              | OPERCMDS | UPDATE  | JES3 |
| <b>S</b>                           | ISFSP.volser.jesx                          | SDSF     | CONTROL | JES2 |
|                                    | jesx.START.SPOOL                           | OPERCMDS | CONTROL | JES2 |
| <b>Z</b>                           | ISFSP.volser.jesx                          | SDSF     | CONTROL | JES2 |
|                                    | jesx.HALT.SPOOL                            | OPERCMDS | CONTROL | JES2 |

In the table,

**volser**

is the volume serial of the spool volume.

**ddname**

is the ddname.

**partitionname**

is the name of the partition.

**jesx**

is the name of the JES subsystem.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDs resource” on page 372.](#)

To control access to the SP panel, protect the SP command. This is described in [“Authorized SDSF commands” on page 265.](#)

## Example of protecting spool volumes

To protect all spool volumes issue the following commands:

```
RDEFINE SDSF ISFSP.** UACC(NONE)
```

```
PERMIT ISFSP.** CLASS(SDSF) ID(userid or groupid) ACCESS(CONTROL)
```

## System requests (SR panel)

You can protect the system requests displayed on the SR panel.

### Protecting system requests

To protect system requests displayed on the SR panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 264 on page 347](#).

Table 264. Resources for System Requests

| Action Character | Resource Name               | Class    | Access Required | JES |
|------------------|-----------------------------|----------|-----------------|-----|
| AI               | ISFSR.REPLY.system.jobname  | SDSF     | READ            | ALL |
|                  | MVS.SETAUTOR.AUTOR          | OPERCMDS | UPDATE          |     |
| C                | ISFSR.ACTION.system.jobname | SDSF     | READ            | ALL |
|                  | MVS.CONTROL.C               | OPERCMDS | READ            |     |
| D                | ISFSR.type.system.jobname   | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.R               | OPERCMDS | READ            |     |
| R                | ISFSR.REPLY.system.jobname  | SDSF     | READ            | ALL |
|                  | MVS.REPLY                   | OPERCMDS | READ            |     |

In the table,

**type**

is the message type, either ACTION or REPLY.

**system**

is the name of the originating system.

**jobname**

is the name of the issuing job.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the SR panel, protect the SR command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting system requests

To protect all system requests issue the following commands:

```
RDEFINE SDSF ISFSR.** UACC(NONE)
PERMIT ISFSR.** CLASS(SDSF) ID(userid or groupid) ACCESS(READ)
```

## WLM service classes (SRVC panel)

To protect WLM service classes displayed on the SRVC panel, define resource names in the SDSF class.

The resources are shown in [Table 265 on page 348](#).

Table 265. Resources for WLM Service Classes

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| <b>L</b>         | ISFCMD.DSP.ACTIVE.jesx      | SDSF  | READ            | ALL |
| <b>LE</b>        | ISFCMD.ODSP.ENCLAVE.sysname | SDSF  | READ            | ALL |

To control access to the SRVC panel, protect the SRVC command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Subsystems (SSI panel)

### Protecting subsystems

To protect subsystems displayed on the SSI panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 266 on page 348](#).

Table 266. Resources for Subsystems

| Action Character      | Resource Name                    | Class    | Access Required | JES |
|-----------------------|----------------------------------|----------|-----------------|-----|
| <b>A</b>              | ISFSUBSYS.subsysname             | SDSF     | READ            | ALL |
|                       | MVS.SETSSI.ACTIVATE.subsysname   | OPERCMDs | CONTROL         |     |
| <b>D</b><br><b>DA</b> | ISFSUBSYS.subsysname             | SDSF     | READ            | ALL |
|                       | MVS.DISPLAY.SSI                  | OPERCMDs | READ            |     |
| <b>DO</b>             | ISFSUBSYS.subsysname             | SDSF     | READ            | ALL |
|                       | MVS.DISPLAY.OPDATA               | OPERCMDs | READ            |     |
| <b>H</b>              | ISFSUBSYS.subsysname             | SDSF     | UPDATE          | ALL |
|                       | MVS.SETSSI.DEACTIVATE.subsysname | OPERCMDs | CONTROL         |     |
| <b>PF</b>             | ISFSUBSYS.subsysname             | SDSF     | UPDATE          | ALL |
|                       | MVS.SETSSI.DEACTIVATE.subsysname | OPERCMDs | CONTROL         |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SSI panel, protect the SSI command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting subsystems

To protect a subsystem and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFSUBSYS.** UACC(NONE)
PERMIT ISFSUBSYS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Status of jobs (ST panel)

To protect jobs, users and started tasks displayed on the ST panel, define resource names in the SDSF class, JESSPOOL class, and OPERCMDS classes.

The resources are shown in [Table 267 on page 349](#).

Table 267. Resources for ST Panel Objects

| Action Character   | Resource Name                     | Class    | Access Required | JES  |
|--|-----------------------------------|----------|-----------------|------|
| <b>A</b>   | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | ALL  |
|  | <i>jesx.MODIFYRELEASE.type</i>    | OPERCMDS | UPDATE          | JES2 |
|  | <i>jesx.MODIFY.JOB</i>            | OPERCMDS | UPDATE          | JES3 |
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b>                             | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES2 |
|  | <i>jesx.CANCEL.type</i>           | OPERCMDS | UPDATE          | JES2 |
| <b>C</b><br><b>CA</b><br><b>CD</b><br><b>CDA</b><br><b>CDP</b><br><b>CP</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | ALTER           | JES3 |
|  | <i>jesx.MODIFY.JOB</i>            | OPERCMDS | UPDATE          | JES3 |
|  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES2 |
| <b>D</b><br><b>DL</b><br><b>DP</b>   | <i>jesx.DISPLAY.type</i>          | OPERCMDS | READ            | JES2 |
|  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
| <b>D</b><br><b>DM</b><br><b>DSD</b><br><b>DSH</b><br><b>DSP</b><br><b>DX</b> | <i>jesx.DISPLAY.JOB</i>           | OPERCMDS | READ            | JES3 |
|  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | UPDATE          | JES3 |
| <b>DL</b>  | <i>jesx.CALL.DISPLAY</i>          | OPERCMDS | UPDATE          | JES3 |
|  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
| <b>DE</b>  | <i>nodeid.owner.jobname.jobid</i> | JESSPOOL | READ            | JES3 |
|  | <i>jesx.DISPLAY.JOBE</i>          | OPERCMDS | READ            | JES3 |

Table 267. Resources for ST Panel Objects (continued)

| Action Character   | Resource Name  | Class    | Access Required   | JES  |
|--|--|----------|---|------|
| <b>DMA</b><br><b>DME</b><br><b>DMR</b><br><b>DMSS</b><br><b>DMSV</b><br><b>DMU</b> | <i>nodeid.owner.jobname.jobid</i>  | JESSPOOL | READ  | JES3 |
|  | <i>jesx.DISPLAY.S</i>  | OPERCMDS | READ  | JES3 |
| <b>E</b><br><b>EC</b><br><b>ES</b><br><b>ESH</b>                                   | <i>nodeid.owner.jobname.jobid</i>  | JESSPOOL | ALTER   | JES2 |
|  | <i>jesx.RESTART.type</i>   | OPERCMDS | CONTROL   | JES2 |
| <b>E</b>   | <i>nodeid.owner.jobname.jobid</i>  | JESSPOOL | ALTER   | JES3 |
|  | <i>jesx.RESTART.DEV.sysname</i>  | OPERCMDS | CONTROL   | JES3 |
| <b>H</b>   | <i>nodeid.owner.jobname.jobid</i>  | JESSPOOL | ALTER   | ALL  |
|  | <i>jesx.MODIFYHOLD.type</i>  | OPERCMDS | UPDATE  | JES2 |
|  | <i>jesx.MODIFY.JOB</i>   | OPERCMDS | UPDATE  | JES3 |
| <b>J</b>   | <i>nodeid.owner.jobname.jobid</i>  | JESSPOOL | ALTER   | ALL  |
|  | <i>jesx.START.BAT</i>  | OPERCMDS | UPDATE  | JES2 |
|  | <i>jesx.MODIFY.JOB</i>   | OPERCMDS | UPDATE  | JES3 |
| <b>JD</b>  | ISFCMD.ODSP.DEVICE. <i>sysname</i><br>ISFCMD.ODSP.NETACT. <i>sysname</i> | SDSF     | READ  | ALL  |
|  | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>                             | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JDD</b>   | ISFCMD.ODSP.DEVICE. <i>sysname</i>                                       | SDSF     | READ  | ALL  |
|  | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>                             | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |
| <b>JM</b>  | ISFCMD.ODSP.STORAGE. <i>sysname</i>                                      | SDSF     | READ  | ALL  |
|  | ISFJOB.STORAGE. <i>owner.jobname.xsysname</i>                            | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL  |



Table 267. Resources for ST Panel Objects (continued)

| Action Character                                | Resource Name                                      | Class    | Access Required | JES  |
|---|--|----------|-----------------|------|
| <b>JRL</b>                                      | ISFCMD.ODSP.JRJJ.jesx                              | SDSF     | READ            | ALL  |
| <b>JS</b>                                       | <i>nodeid.jobname.owner.jobid.EVENTLOG.SMFSTEP</i> | JESSPOOL | READ            | JES2 |
| <b>L</b><br><b>LL</b>                           | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | READ            | ALL  |
|   | <i>jesx.DISPLAY.typeOUT</i>                        | OPERCMDS | READ            | JES2 |
| <b>L</b><br><b>LB</b><br><b>LH</b><br><b>LT</b> | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | READ            | JES3 |
|   | <i>jesx.DISPLAY.U</i>                              | OPERCMDS | READ            | JES3 |
| <b>O</b>  | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | READ            | JES2 |
|   | <i>jesx.RELEASE.typeOUT</i>                        | OPERCMDS | UPDATE          | JES2 |
| <b>P</b>  | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | ALTER           | JES2 |
|   | <i>jesx.CANCEL.type</i>                            | OPERCMDS | UPDATE          | JES2 |
|   | <i>jesx.MODIFY.JOB</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>PO</b>                                       | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | ALTER           | JES2 |
|   | <i>jesx.CANCEL.type</i>                            | OPERCMDS | UPDATE          | JES2 |
| <b>W</b>  | <i>nodeid.owner.jobname.jobid</i>                  | JESSPOOL | ALTER           | ALL  |
|   | <i>jesx.MODIFY.type</i>                            | OPERCMDS | UPDATE          | JES2 |
|   | <i>jesx.MODIFY.JOB</i>                             | OPERCMDS | UPDATE          | JES3 |
| <b>S and X</b><br><b>(all forms)</b>            | <i>nodeid.userid.jobname.jobid.Ddsid.dsname</i>    | JESSPOOL | READ            | ALL  |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

To control access to the DA panel, protect the DA command. This is described in [“Authorized SDSF commands”](#) on page 265.

## SVC routines (SVC panel)

No action characters that require resources are available on the SVC panel.

To control access to the SVC panel, protect the SVC command. This is described in [“Authorized SDSF commands”](#) on page 265.

## System symbol information (SYM panel)

### Protecting system symbol information

To protect system symbols displayed on the SYM panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 268 on page 352](#).

Table 268. Resources for System Symbol Information

| Action Character | Resource Name             | Class    | Access Required | JES |
|------------------|---------------------------|----------|-----------------|-----|
| D<br>DL          | ISFSYM.symbolname.sysname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SYMBOLS       | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the SYM panel, protect the SYM command. This is described in [“Authorized SDSF commands” on page 265](#).

### Example of protecting system symbol information

To protect all system symbol information and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFSYM.** UACC(NONE)
PERMIT ISFSYM.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## System information (SYS panel)

### Protecting system information

To protect system information displayed on the SYS panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 269 on page 352](#).

Table 269. Resources for System Information

| Action Character  | Resource Name                 | Class    | Access Required | JES |
|-------------------|-------------------------------|----------|-----------------|-----|
| D<br>DB           | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                   | MVS.DISPLAY.IPLINFO           | OPERCMDS | READ            |     |
| DAA<br>DAL<br>DTS | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                   | MVS.DISPLAY.JOB               | OPERCMDS | READ            |     |
| DALO              | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |

Table 269. Resources for System Information (continued)

| Action Character | Resource Name                 | Class    | Access Required | JES |
|------------------|-------------------------------|----------|-----------------|-----|
|                  | MVS.DISPLAY.ALLOC             | OPERCMDS | READ            |     |
| <b>DC</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.CONSOLES          | OPERCMDS | READ            |     |
| <b>DCEE</b>      | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.CEE               | OPERCMDS | READ            |     |
| <b>DD</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.DUMP              | OPERCMDS | READ            |     |
| <b>DEM</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.EMCS              | OPERCMDS | READ            |     |
| <b>DG</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.GRS               | OPERCMDS | READ            |     |
| <b>DI</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.IOS               | OPERCMDS | READ            |     |
| <b>DIQP</b>      | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.IQP               | OPERCMDS | READ            |     |
| <b>DLL</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.LLA               | OPERCMDS | READ            |     |
| <b>DLO</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.LOGGER            | OPERCMDS | READ            |     |
| <b>DLR</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.LOGREC            | OPERCMDS | READ            |     |
| <b>DM, DMC</b>   | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.M                 | OPERCMDS | READ            |     |
| <b>DMP</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.MPF               | OPERCMDS | READ            |     |
| <b>DO</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.OMVS              | OPERCMDS | READ            |     |
| <b>DP</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.PROD              | OPERCMDS | READ            |     |
| <b>DPCD</b>      | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.PCIE              | OPERCMDS | READ            |     |
| <b>DPCI</b>      | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.PCIE              | OPERCMDS | READ            |     |
| <b>DSF</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |

Table 269. Resources for System Information (continued)

| Action Character | Resource Name                 | Class    | Access Required | JES |
|------------------|-------------------------------|----------|-----------------|-----|
|                  | MVS.DISPLAY.SMF               | OPERCMDS | READ            |     |
| <b>DSL</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SLIP              | OPERCMDS | READ            |     |
| <b>DSM</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SMS               | OPERCMDS | READ            |     |
| <b>DSY</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.SYMBOLS           | OPERCMDS | READ            |     |
| <b>DT</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.TIMEDATE          | OPERCMDS | READ            |     |
| <b>DTO</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.IKJTSO            | OPERCMDS | READ            |     |
| <b>DTR</b>       | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.TRACE             | OPERCMDS | READ            |     |
| <b>DW</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.WLM               | OPERCMDS | READ            |     |
| <b>DX</b>        | ISFSYS.sysplexname.systemname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF               | OPERCMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the SYS panel, protect the SYS command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting system information

To protect system information and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFSYS.** UACC(NONE)
PERMIT ISFSYS.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## System parameters (SYSP panel)

### Protecting system parameters

To protect system parameters displayed on the SYSP panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 270 on page 355](#).

Table 270. Resources for System Parameters

| Action Character | Resource Name        | Class   | Access Required | JES |
|------------------|----------------------|---------|-----------------|-----|
| <b>D</b>         | ISFSYSP.name         | SDSF    | READ            | ALL |
|                  | MVS.DISPLAY.ALLOC    | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.AUTOR    | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.CEE      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.CONSOLES | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.DEVSUP   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.DIAG     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.DUMP     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.FXE      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.GRS      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.GTZ      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.ICSF     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IEFOPZ   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IKJTSO   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IOS      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IPLINFO  | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IQP      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.IZU      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.JOB      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.LOGGER   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.LOGREC   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.OMVS     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.PPT      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.PROD     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.PROG     | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.SMF      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.SMFLIM   | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.SMS      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.SSI      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.UNI      | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.VIRTSTOR | OPERMDS | READ            |     |
|                  | MVS.DISPLAY.XCF      | OPERMDS | READ            |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372.](#)

To control access to the SYSP panel, protect the SYSP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting system parameters

To protect system parameters and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFSYSP.** UACC(NONE)
PERMIT ISFSYSP.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Unit control blocks (UCB panel)

### Protecting unit control blocks

To protect unit control blocks displayed on the UCB panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 271 on page 356](#).

Table 271. Resources for Unit Control Blocks

| Action Character                                       | Resource Name | Class    | Access Required | JES |
|--|---------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b>                                  | ISFUCB.unit   | SDSF     | READ            | ALL |
|  | MVS.DISPLAY.U | OPERCMDS | READ            |     |
| <b>DSP</b><br><b>DSQD</b><br><b>DSQP</b><br><b>DSS</b> | ISFUCB.unit   | SDSF     | READ            | ALL |
|  | MVS.DEVSERV   | OPERCMDS | READ            |     |
| <b>V</b><br><b>VF</b>                                  | ISFUCB.unit   | SDSF     | CONTROL         | ALL |
|  | MVS.VARY.DEV  | OPERCMDS | UPDATE          |     |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the UCB panel, protect the UCB command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting unit control blocks

To protect a unit control block and permit a user to display it, define a generic profile as follows:

```
REDEFINE SDSF ISFUCB.** UACC(NONE)
PERMIT ISFUCB.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

To allow a user to display and to vary unit control blocks, define a generic profile as follows:

```
REDEFINE SDSF ISFUCB.** UACC(NONE)
PERMIT ISFUCB.** CLASS(SDSF) ID(userid) ACCESS(CONTROL)
```

# User log (ULOG panel)

Users can browse the ULOG to see all system commands and responses issued during their user session, including commands generated by SDSF. If the installation activates message suppression attributes, all command responses may not be returned.

SDSF uses MVS console services to acquire an extended console for the user; all commands issued use that console identifier.

## Protecting the ULOG

You protect the ULOG by:

- Controlling access to the ULOG command when the custom property Console.EMCS.UlogAuthReq is set to TRUE. This is described in [“PROPLIST syntax” on page 53](#) and [“Authorized SDSF commands” on page 265](#).
- Controlling access to the extended console that SDSF acquires. The extended console is protected by a resource in the OPERCMDS class, shown in [Table 272 on page 357](#).

Table 272. Resource that Protects the Extended Console

| Function         | Resource Name            | Class    | Access Required |
|------------------|--------------------------|----------|-----------------|
| Extended console | MVS.MCSOPER.console-name | OPERCMDS | READ            |

The console name used by SDSF defaults to the user ID. When SDSF needs to activate a console and the default console name is already in use, SDSF attempts to use a modified console name, which consists of the default name plus a single-character suffix. Users can change the console name with the SET CONSOLE command.

SDSF supplies an OPERPARM with master level authority when activating the console. Since SDSF supplies the OPERPARM, the user's OPERPARM segment (defined through RACF) is ignored.

When SDSF is using an extended console and commands are issued through the / (slash) command, some subsystems (such as NetView\* and CICS\*) require the console name to be defined to the subsystem.

For more information on the console used by SDSF, see [“Issuing MVS and JES commands” on page 452](#). For more information on protecting the extended console, see [z/OS MVS Planning: Operations](#).

## Examples of protecting ULOG

1. To activate the OPERCMDS class and define a resource for the extended console, use the following RACF commands:

```
RDEFINE OPERCMDS MVS.MCSOPER.console-name
PERMIT MVS.MCSOPER.console-name ID(userid) ACCESS(READ)
```

2. To refresh the OPERCMDS class, issue the following:

```
SETROPTS RACLIST(OPERCMDS) REFRESH
```

# Virtual storage map (VMAP panel)

To protect virtual storage map information displayed on the VMAP panel, define resource names in the SDSF class.

The resources are shown in [Table 273 on page 358](#).

Table 273. Resources for Virtual Storage Map Information

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>LCK</b>       | ISFCMD.ODSP.HCHECKER.sysname | SDSF  | READ            | ALL |

To control access to the VMAP panel, protect the VMAP command. This is described in [“Authorized SDSF commands”](#) on page 265.

## WLM workload (WKLD panel)

To protect WLM workloads displayed on the WKLD panel, define resource names in the SDSF class.

The resources are shown in [Table 274 on page 358](#).

Table 274. Resources for WLM Workloads

| Action Character | Resource Name               | Class | Access Required | JES |
|------------------|-----------------------------|-------|-----------------|-----|
| <b>L</b>         | ISFCMD.DSP.ACTIVE.jesx      | SDSF  | READ            | ALL |
| <b>LE</b>        | ISFCMD.ODSP.ENCLAVE.sysname | SDSF  | READ            | ALL |

To control access to the WKLD panel, protect the WKLD command. This is described in [“Authorized SDSF commands”](#) on page 265.

## WLM policy (WLM panel)

No action characters that require resources are available on the WLM panel.

To control access to the WLM panel, protect the WLM command. This is described in [“Authorized SDSF commands”](#) on page 265.

## XCF application servers (XCFA panel)

### Protecting XCF application servers

To protect XCF application servers displayed on the XCFA panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 275 on page 358](#).

Table 275. Resources for XCF Application Servers

| Action Character                   | Resource Name                | Class    | Access Required | JES |
|------------------------------------|------------------------------|----------|-----------------|-----|
| <b>D</b><br><b>DA</b><br><b>DI</b> | ISFXCFA.servername           | SDSF     | READ            | ALL |
|                                    | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| <b>LCK</b>                         | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |

For action characters that generate MVS or JES command(s) and the resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.



To control access to the XCFA panel, protect the XCFA command. This is described in [“Authorized SDSF commands”](#) on page 265.

## Example of protecting XCF application servers

To protect an XCF application server and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFXCFA.** UACC(NONE)
PERMIT ISFXCFA.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## XCF groups and members (XCFM panel)

### Protecting XCF groups and members

To protect XCF group and members displayed on the XCFM panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 276 on page 359](#).

Table 276. Resources for XCF Groups and Members

| Action Character | Resource Name                | Class    | Access Required | JES |
|------------------|------------------------------|----------|-----------------|-----|
| D<br>DA<br>DG    | ISFXCFM.membername           | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.XCF              | OPERCMDS | READ            |     |
| LCK              | ISFCMD.ODSP.HCHECKER.sysname | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the XCFM panel, protect the XCFM command. This is described in [“Authorized SDSF commands”](#) on page 265.

### Example of protecting XCF groups and members

To protect resource monitor alerts and permit a user to control them, define a generic profile as follows:

```
REDEFINE SDSF ISFXCFM.** UACC(NONE)
PERMIT ISFXCFM.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## XCF signaling paths (XCFP panel)

### Protecting XCF signaling paths

To protect XCF signaling paths (structures and XCF connections) displayed on the XCFP panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 277 on page 360](#).

Table 277. Resources for XCF Signaling Paths

| Action Character       | Resource Name                        | Class    | Access Required | JES |
|------------------------|--------------------------------------|----------|-----------------|-----|
| <b>DI</b><br><b>DO</b> | ISFXCFP. <i>pathname</i>             | SDSF     | READ            | ALL |
|                        | MVS.DISPLAY.XCF                      | OPERCMDS | READ            |     |
| <b>LC</b>              | ISFCMD.ODSP.COUPLE. <i>sysname</i>   | SDSF     | READ            | ALL |
| <b>LCK</b>             | ISFCMD.ODSP.HCHECKER. <i>sysname</i> | SDSF     | READ            | ALL |
| <b>LS</b>              | ISFCMD.ODSP.CFSTRUCT. <i>sysname</i> | SDSF     | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372.](#)

To control access to the XCF panel, protect the XCF command. This is described in [“Authorized SDSF commands” on page 265.](#)

## Example of protecting XCF signaling paths

To protect XCF signaling paths (structures and XCF connections), and permit a user to display them, define a generic profile as follows:

```
REDEFINE SDSF ISFXCFP.** UACC(NONE)
PERMIT ISFXCFP.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Chapter 9. Protecting secondary SDSF panels

This topic describes how to protect action characters on the secondary panels.

### Common storage subpool details panel (CSI panel)

To protect common storage subpools displayed on the CSI panel, define resource names in the SDSF class

The resources are shown in [Table 278 on page 361](#).

Table 278. Resources for Common Storage Subpools

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| S                | ISFCMD.ODSP.MEM.sysname               | SDSF  | READ  | ALL |
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the CSI panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).

### Health check history (CKH panel)

To protect health checks displayed on the CKH panel, define resource names in the XFACILIT class.

The resources are shown in [Table 279 on page 361](#).

Table 279. Resources for Health Check History

| Action Character               | Resource Name                             | Class    | Access Required | JES |
|--------------------------------|---|----------|-----------------|-----|
| S (all forms)<br>X (all forms) | HZS.sysname.checkowner.checkname.MESSAGES | XFACILIT | READ            | ALL |

### JES checkpoint (CKPT panel)

To protect JES checkpoints displayed on the CKPT panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 280 on page 361](#).

Table 280. Resources for JES Checkpoints

| Action Character | Resource Name        | Class    | Access Required | JES  |
|------------------|----------------------|----------|-----------------|------|
| D                | ISFCKPT.CKPT1.jesx   | SDSF     | READ            | JES2 |
|                  | jesx.DISPLAY.CKPTDEF | OPERCMDs | READ            | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

To control access to the CKPT panel, protect the panel as described in [“Authorized SDSF commands”](#) on page 265.

## Job class members (JCM panel)

### Protecting job class members

To protect job class members displayed on the JCM panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 281 on page 362](#).

Table 281. SAF Resources for Job Class Members

| Action Character | Resource Name         | Class    | Access Required | JES  |
|------------------|-----------------------|----------|-----------------|------|
| <b>A</b>         | ISFJOBCL.class.jesx   | SDSF     | READ            | JES2 |
|                  | jesx.MODIFY.JOBCLASS  | OPERCMD5 | CONTROL         | JES2 |
| <b>D</b>         | ISFJOBCL.class.jesx   | SDSF     | READ            | ALL  |
|                  | jesx.DISPLAY.JOBCLASS | OPERCMD5 | READ            | JES2 |
|                  | jesx.DISPLAY.CLASS    | OPERCMD5 | READ            | JES3 |
| <b>DL</b>        | ISFJOBCL.class.jesx   | SDSF     | READ            | JES2 |
|                  | jesx.DISPLAY.JOBCLASS | OPERCMD5 | READ            | JES2 |
| <b>H</b>         | ISFJOBCL.class.jesx   | SDSF     | READ            | JES2 |
|                  | jesx.MODIFY.JOBCLASS  | OPERCMD5 | CONTROL         | JES2 |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

### Example of protecting job class members

To protect a job class member and permit a user to control it, define a generic profile as follows:

```
REDEFINE SDSF ISFJOBCL.** UACC(NONE)
PERMIT ISFJOBCL.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Job common storage (JCS panel)

To protect job storage displayed on the JCS panel, define resource names in the SDSF class

The resources are shown in [Table 282 on page 362](#).

Table 282. Resources for Job Common Storage

| Action Character | Resource Name           | Class | Access Required | JES |
|------------------|-------------------------|-------|-----------------|-----|
| <b>S</b>         | ISFCMD.ODSP.MEM.sysname | SDSF  | READ            | ALL |

Table 282. Resources for Job Common Storage (continued)

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
|                  | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the JCS panel, protect the panel as described in [“Authorized SDSF commands”](#) on page 265.

## Job data sets (JDS panel)

To protect job data sets displayed on the JDS panel, define resource names in the SDSF, JESSPOOL, and OPERCMDS classes.

The resources are shown in [Table 283 on page 363](#).

Table 283. Resources for Job Data Sets

| Action Character                       | Resource Name                            | Class    | Access Required | JES  |
|--|--|----------|-----------------|------|
| <b>D</b>                               | jesx.DISPLAY.U                           | OPERCMDS | READ            | JES3 |
| <b>C<br/>H<br/>O<br/>P<sup>1</sup></b> | nodeid.owner.jobname.jobid.Ddsid.dsname  | JESSPOOL | ALTER           | JES2 |
|  | jesx.MODIFY.U                            | OPERCMDS | UPDATE          | JES3 |
| <b>LA<br/>LP</b>                       | ISFCMD.ODSP.RACFLIST.sysname             | SDSF     | READ            | ALL  |
|  | ISFRACF.CLASS.JESSPOOL.sysname           | SDSF     | READ            | ALL  |
| <b>S, V, X (all forms)</b>             | nodeid.userid.jobname.jobid.Ddsid.dsname | JESSPOOL | READ            | ALL  |
| <b>W</b>                               | nodeid.owner.jobname.jobid.Ddsid.dsname  | JESSPOOL | ALTER           | JES2 |
|  | jesx.MODIFY.type                         | OPERCMDS | UPDATE          | JES2 |

<sup>1</sup> SDSF uses the subsystem interface (SSI) when you enter a C, H, O, or P action character on the JDS panel. When all data sets are deleted by use of the C and P action characters on the H panel, SDSF issues \$O.

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372.

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority”](#) on page 430.

## Job delays (JY panel)

No action characters that require resources are available on the Job Delay panel.

To control access to the Job Delay panel, protect the panel as described in [“Authorized SDSF commands”](#) on page 265.

## Job devices (JD panel)

You can protect the job devices that are displayed on the Job Device panel.

### Protecting job devices

To protect job devices displayed on the Job Device panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 284 on page 364](#).

Table 284. Resources for Job Devices

| Action Character  | Resource Name                        | Class    | Access Required   | JES |
|---|--------------------------------------|----------|---|-----|
| DA<br>DAL<br>DB<br>DBL<br>DN<br>DNL<br>DR<br>DRD<br>DRDL<br>DRL | ISFJDD.IP.sysname                    | SDSF     | READ  | ALL |
|   | ISFJOB.DDNAME.owner.jobname.xsysname | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
|   | ISFCMD.ODSP.DEVICE.sysname           | SDSF     | READ  | ALL |
|   | ISFCMD.ODSP.NETACT.sysname           | SDSF     | READ  | ALL |
|   | MVS.DISPLAY.TCPIP                    | OPERCMDS | READ  |     |
|   | ISFJDD.CF.sysname                    | SDSF     | READ  | ALL |
|   | ISFJOB.DDNAME.owner.jobname.xsysname | SDSF     | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
|   | ISFCMD.ODSP.DEVICE.sysname           | SDSF     | READ  | ALL |
|   | ISFCMD.ODSP.NETACT.sysname           | SDSF     | READ  | ALL |
|   | MVS.DISPLAY.XCF                      | OPERCMDS | READ  |     |
| DC<br>DP<br>DS  |                                      |          |   |     |

In the table, *type* is the type of device: DD (DD allocation), IP (TCP/IP connection), or CF (coupling facility connection).

For the generated system command(s) and resources that are checked, see “[Table of action characters that generate system commands by OPERCMDS resource](#)” on page 372.

To control access to the JD panel, protect the panel as described in “[Authorized SDSF commands](#)” on page 265.

## Example of protecting job devices

To protect all job devices and permit a user to display them, define a generic profile as follows:

```
RDEFINE SDSF ISFJDD.** UACC(NONE)
PERMIT ISFJDD.** CLASS(SDSF) ID(userid) ACCESS(READ)
```

## Job dependencies (JDP panel)

No action characters that require resources are available on the Job Dependency panel.

## Job ddnames (JDDN panel)

To protect job data set allocations on the JDDN panel, define resource names in the SDSF class.

The resources are shown in [Table 285 on page 365](#).

Table 285. Resources for Job DDnames

| Action Character | Resource Name                        | Class | Access Required   | JES |
|------------------|--------------------------------------|-------|---|-----|
| LA<br>LP         | ISFCMD.ODSP.RACFLIST.sysname         | SDSF  | READ  | ALL |
|                  | ISFRACF.CLASS.DATASET.sysname        | SDSF  | READ  | ALL |
|                  | ISFJOB.DDNAME.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| LV               | ISFJOB.DDNAME.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| S (all<br>forms) | ISFJOB.DDNAME.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the JDDN panel, protect the panel as described in “[Authorized SDSF commands](#)” on page 265.

## Job memory (JM panel)

To protect memory shown on the JM panel, define resource names in the SDSF class.

The resources are shown in [Table 286 on page 366](#).

Table 286. Resources for Job Memory

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| L                | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
|                  | ISFCMD.ODSP.CSI.sysname               | SDSF  | READ  | ALL |
|                  | ISFCMD.ODSP.USI.sysname               | SDSF  | READ  | ALL |

To control access to the JM panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).

## Job modules

No action characters that require resources are available on the Job Modules panel.

## Job resource limits

No action characters that require resources are available on the Job Resource Limits panel.

To control access to the Job Resource Limit panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).

## Job steps (JS panel)

To protect job step information displayed on the JS panel, define resource names in the SDSF class and in the JESSPOOL class.

The resources are shown in [Table 287 on page 366](#).

Table 287. Resources for Job Steps

| Action Character | Resource Name                                | Class    | Access Required | JES |
|------------------|--|----------|-----------------|-----|
| All S and X      | nodeid.owner.jobname.jobid.EVENTLOG.SMFSTEP  | JESSPOOL | READ            | ALL |
|                  | nodeid.owner.jobname.jobid.EVENTLOG.STEPDATA |          |                 |     |
|                  | nodeid.userid.jobname.jobid.Ddsid.dsname     | JESSPOOL | READ            | ALL |

For optionally controlling access to JESSPOOL resources via destination operator authority, see the topic [“Destination operator authority” on page 430](#).

## Job tasks (TCB panel)

To protect TCBs for an address displayed on the Job Tasks panel, define resource names in the SDSF class.

The resources are shown in [Table 288 on page 367](#).



Table 288. Resources for Job Tasks

| Action Character | Resource Name                      | Class | Access Required   | JES |
|------------------|------------------------------------|-------|---|-----|
| LU               | ISFJOB.TASK.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
|                  | ISFCMD.ODSP.RACFLIST.sysname       | SDSF  | READ  | ALL |
|                  | ISFRACF.CLASS.USER.sysname         | SDSF  | READ  | ALL |

## Memory contents (MAP panel)

To protect memory contents displayed on the MAP panel, define resource names in the SDSF class.

The resources are shown in [Table 289 on page 367](#).

Table 289. Resources for Memory Contents

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| D                | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| G                | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| M                | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

## Memory chain (MEMC panel)

To protect storage contents displayed on the MEMC panel, define resource names in the SDSF class.

The resources are shown in [Table 290 on page 367](#).

Table 290. Resources for Memory Contents

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| D                | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

Table 290. Resources for Memory Contents (continued)

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| <b>G</b>         | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>M</b>         | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |
| <b>S</b>         | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

## Output data sets (Output Data Set panel)

No action characters that require resources are available on the Output Data Set panel.

## Private storage subpool details (USI panel)

To protect private storage details shown on the USI panel, define resource names in the SDSF class.

The resources are shown in [Table 291 on page 368](#).

Table 291. Resources for Private Storage Subpool Details

| Action Character | Resource Name                         | Class | Access Required   | JES |
|------------------|---------------------------------------|-------|---|-----|
| <b>S</b>         | ISFJOB.STORAGE.owner.jobname.xsysname | SDSF  | READ<br>CONTROL (to<br>force storage to<br>be paged in) | ALL |

To control access to the USI panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).

## Process details (Process Details panel)

No action characters that require resources are available on the Process Details panel.

## RACF access (RACF Access panel)

To protect RACF access list entries shown on the RACF Access panel, define resource names in the SDSF class.

The resources are shown in [Table 292 on page 369](#).

Table 292. Resources for RACF Access Details

| Action Character | Resource Name                 | Class | Access Required | JES |
|------------------|-------------------------------|-------|-----------------|-----|
| <b>S</b>         | ISFCMD.ODSP.RACFLIST.sysname  | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.DATASET.sysname | SDSF  | READ            | ALL |

## RACF browse (RACF Browse panel)

No action characters that require resources are available on the RACF Browse panel.

## RACF connections (RACF Connects panel)

To protect RACF connections shown on the RACF Connects panel, define resource names in the SDSF class.

The resources are shown in [Table 293 on page 369](#).

Table 293. Resources for RACF Connections

| Action Character | Resource Name                | Class | Access Required | JES |
|------------------|------------------------------|-------|-----------------|-----|
| <b>S</b>         | ISFCMD.ODSP.RACFLIST.sysname | SDSF  | READ            | ALL |
|                  | ISFRACF.CLASS.USER.sysname   | SDSF  | READ            | ALL |

## UNIX System Services threads (Unix Threads panel)

To protect z/OS UNIX system services threads displayed on the Unix Threads panel, define resource names in the SDSF class and in the OPERCMDS class.

The resources are shown in [Table 294 on page 369](#).

Table 294. Resources for Unix Threads

| Action Character | Resource Name          | Class    | Access Required | JES |
|------------------|------------------------|----------|-----------------|-----|
| <b>D</b>         | ISFOBJ.THREADS.jobname | SDSF     | READ            | ALL |
|                  | MVS.DISPLAY.OMVS       | OPERCMDS | READ            | ALL |

For the generated system command(s) and resources that are checked, see [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#).

To control access to the Unix Threads panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).

## Volume table of contents (VTOC panel)

No action characters that require resources are available on the VTOC Panel.

To control access to the VTOC panel, protect the panel as described in [“Authorized SDSF commands” on page 265](#).



## Chapter 10. Protecting action characters and overtypeable fields

This topic describes how to protect action characters and overtypeable fields on SDSF panels.

### Action characters

Most action characters cause an interaction with two resources:

- The object of the action character, such as an initiator, printer, MAS member, job, or data set
- The MVS command that is generated by the action

When these resources are protected, a user must have authority to both resources to use the action characters. For ISPF-only actions such as browse and edit, the user must be permitted to open the data set.

The objects of action characters are such things as initiators in the SDSF class, printers and punches in the WRITER class, and jobs, output groups, and SYSIN/SYSOUT data sets in the JESSPOOL class.

The resource name that protects the object and the access level required varies from panel to panel. For information about the resources and objects of action characters for a panel, see the topics [Chapter 8, “Protecting SDSF panels and functions,”](#) on page 265 and [Chapter 9, “Protecting secondary SDSF panels,”](#) on page 361.

Protecting action characters is the same whether they are typed in the NP column or issued from the command line.

### Using ACTH to view action characters and corresponding system commands

The ACTH panel shows SDSF action characters for JES2 and JES3 environments, the MVS and JES commands that they generate, the necessary access authorities, and the OPERCMDS class resource names.

By default, ACTH shows all action characters, including those that do not issue system commands. The display can be filtered and arranged to display specific action characters, such as those for a single panel, or only those action characters that issue system commands.

To find the command that is issued when an action character is used:

1. On any SDSF panel, enter **ACTH ALL**.
2. Enter **SORT OFF**.
3. Navigate to the desired panel (scroll or use the FILTER command to limit the display).
4. Find the action character.
5. Scroll to the OPERCMD column (or enter the / action character on a row).

To find all commands regardless of action:

1. On any SDSF panel, enter **ACTH ALL**.
2. Enter **SORT ?**.
3. From pop-up, enter:

```
OPERCMD A
PANEL A
COMMAND A
```

4. Scroll to the OPERCMD column.

This information is shown sorted by OPERCMDS resource names in [Table 295 on page 372](#).

## Table of action characters that generate system commands by OPERCMDS resource

In Table 295 on page 372, many action characters have more than one OPERCMDS resource name associated with them. The names vary according to the panel. Choose the OPERCMDS resource name that is related to the panel for which action character access is being given.

| <p><i>Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.</i></p> <p>Replace <i>jesx</i> with the name of the targeted JES subsystem, for example, JES2.</p> <p>Replace <i>type</i> with BAT (batch jobs), STC (started tasks), or TSU (TSO users). For APPC transactions, replace <i>type</i> with STC for transaction SYSOUT on the H and O panels, or ATX for transactions on the DA, I, and ST panels.</p> <p>Replace <i>hcproc</i> and <i>hcstcid</i> with the IBM Health Checker for z/OS procedure name and started task ID.</p> <p>Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the * command character indicates a JES3 command.</p> |                 |   |  |   |
|---|-----------------|---|--|---|
| OPERCMDs Resource Name  | Required Access | Action Character                          | JES/MVS Command  | SDSF Panel  |
| JES2MON.DISPLAY.DETAIL  | READ            | JD  | \$JDDetails  | RMA   |
| JES2MON.DISPLAY.HISTORY   | READ            | JH  | \$JDHistory  | RMA   |
| JES2MON.DISPLAY.JES   | READ            | JJ  | \$JDJES  | RMA   |
| JES2MON.DISPLAY.MONITOR   | READ            | J   | \$JDMonitor  | RMA   |
| JES2MON.DISPLAY.STATUS  | READ            | JS  | \$JDStatus   | RMA   |
| <i>jesx</i> .BACKSP.DEV   | UPDATE          | <i>Bnumber</i>                            | \$B  | PR PUN  |
| <i>jesx</i> .CALL.CR  | UPDATE          | X (all forms)                             | *X CR  | RDR   |
| <i>jesx</i> .CALL.DISPLAY   | UPDATE          | DL  | *X   | ST I  |
| <i>jesx</i> .CALL.dspname   | UPDATE          | X   | *X   | PUN   |
| <i>jesx</i> .CALL.MONITOR   | UPDATE          | SM  | *X   | JP  |
| <i>jesx</i> .CALL.NJE   | READ            | SN  | *X NJE,N=  | NO  |
| <i>jesx</i> .CALL.NJE   | UPDATE          | SN  | *X   | NC  |
| <i>jesx</i> .CALL.TCP   | UPDATE          | X   | *X TCP   | NS  |
| <i>jesx</i> .CALL.WTR   | UPDATE          | X   | *X   | PR  |
| <i>jesx</i> .CANCEL.DEV   | UPDATE          | C (all forms)                             | \$C  | PR PUN LI SO RDR  |
| <i>jesx</i> .CANCEL.DEV.device  | UPDATE          | C (all forms)                             | *CANCEL  | LI NC NS PR PUN RDR   |
| <i>jesx</i> .CANCEL.device  | UPDATE          | C, I                                      | *CANCEL  | LI  |
| <i>jesx</i> .CANCEL.type  | UPDATE          | C<br>C<br>CA<br>CD<br>CDA<br>P<br>P<br>PP | \$C<br>\$CO<br>\$C,ARMRESTART<br>\$C,D<br>\$C,D,ARMRESTART<br>\$C<br>\$CO<br>\$C | DA I O ST H<br>H O<br>DA I ST <sup>1</sup><br>DA I ST<br>DA I ST<br>DA I H O ST<br>H O<br>DA I ST |
| <i>jesx</i> .CANCEL.type  | UPDATE          | PP (TSU jobs)                             | \$C  | DA  |
| <i>jesx</i> .CANCEL.GROUP   | UPDATE          | C, CP                                     | \$C  | JG  |
| <i>jesx</i> .CANCEL.MONITOR   | UPDATE          | ZM  | *CANCEL  | JP  |
| <i>jesx</i> .CANCEL.TCP   | UPDATE          | C   | *CANCEL  | NC  |
| <i>jesx</i> .DEL.RESGROUP   | ALTER           | P   | \$DEL RESGROUP   | JRG   |

Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

Replace *jesx* with the name of the targeted JES subsystem, for example, JES2.

Replace *type* with BAT (batch jobs), STC (started tasks), or TSU (TSO users). For APPC transactions, replace *type* with STC for transaction SYSOUT on the H and O panels, or ATX for transactions on the DA, I, and ST panels.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name        | Required Access | Action Character            | JES/MVS Command | SDSF Panel               |
|-------------------------------|-----------------|-----------------------------|-----------------|--------------------------|
| <i>jesx.DISPLAY.type</i>      | READ            | D, DL, DP                   | \$D<br>\$DU     | DA I INIT LI NC NO PR ST |
| <i>jesx.DISPLAY.typeOUT</i>   | READ            | L, LL                       | \$DO<br>\$L     | H O ST<br>DA I           |
| <i>jesx.DISPLAY.A</i>         | READ            | DL                          | *I              | DA                       |
| <i>jesx.DISPLAY.APPL</i>      | READ            | DA                          | \$D             | NC NS                    |
| <i>jesx.DISPLAY.BUFDEF</i>    | READ            | D                           | \$D             | RM                       |
| <i>jesx.DISPLAY.CKPTDEF</i>   | READ            | D                           | \$D             | CKPT RM                  |
| <i>jesx.DISPLAY.CKPTSPACE</i> | READ            | D                           | \$DCKPTSPACE    | RM                       |
| <i>jesx.DISPLAY.CLASS</i>     | READ            | D                           | *I              | JC JCM                   |
| <i>jesx.DISPLAY.CONDEF</i>    | READ            | D                           | \$D             | RM                       |
| <i>jesx.DISPLAY.CONNECT</i>   | READ            | DC                          | \$DCONNECT,NA=  | NO                       |
| <i>jesx.DISPLAY.D</i>         | READ            | D, DL                       | *I              | LI PR PUN NC RDR         |
| <i>jesx.DISPLAY.DEV</i>       | READ            | D, DL                       | \$D<br>\$DU     | PR PUN SO                |
| <i>jesx.DISPLAY.G</i>         | READ            | D, DL                       | *I              | INIT                     |
| <i>jesx.DISPLAY.G</i>         | READ            | DC, DG                      | *I              | JC                       |
| <i>jesx.DISPLAY.GROUP</i>     | READ            | D                           | \$D             | JG                       |
| <i>jesx.DISPLAY.GRPDEF</i>    | READ            | D                           | \$D             | RM                       |
| <i>jesx.DISPLAY.INITIATOR</i> | READ            | D, DL                       | \$D             | INIT                     |
| <i>jesx.DISPLAY.INITINFO</i>  | READ            | DI                          | \$DINITINFO     | JES                      |
| <i>jesx.DISPLAY.JOB</i>       | READ            | D, DL                       | \$DJOBCLASS     | JC                       |
| <i>jesx.DISPLAY.JOB</i>       | READ            | D, DSD, DSH,<br>DSP, DX     | *I              | DA                       |
| <i>jesx.DISPLAY.JOB</i>       | READ            | D, DM, DSD,<br>DSH, DSP, DX | *I              | I ST                     |
| <i>jesx.DISPLAY.JOBCLASS</i>  | READ            | D, DL                       | \$DJOBCLASS     | JC JCM JRJC              |
| <i>jesx.DISPLAY.JOBDEF</i>    | READ            | D                           | \$D             | RM                       |
| <i>jesx.DISPLAY.JOBE</i>      | READ            | DE                          | *I              | DA I ST                  |
| <i>jesx.DISPLAY.JRG</i>       | READ            | D                           | \$D RESGROUP    | JRG                      |
| <i>jesx.DISPLAY.JST</i>       | READ            | J                           | \$D             | SP                       |
| <i>jesx.DISPLAY.L</i>         | READ            | D                           | \$D             | LI NC                    |
| <i>jesx.DISPLAY.LINE</i>      | READ            | D                           | \$D             | LI NC                    |
| <i>jesx.DISPLAY.LINE</i>      | READ            | DL                          | \$D             | NC                       |

Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name         | Required Access | Action Character                     | JES/MVS Command     | SDSF Panel |
|--------------------------------|-----------------|--------------------------------------|---------------------|------------|
| <i>jesx</i> .DISPLAY.LIMITS    | READ            | D                                    | \$DLIMITS           | JRI        |
| <i>jesx</i> .DISPLAY.LIMITS    | READ            | DL                                   | \$DLIMITS, LONG     | JRI        |
| <i>jesx</i> .DISPLAY.LIMITS    | READ            | DLI                                  | \$DLIMITS, LONG     | JRJ        |
| <i>jesx</i> .DISPLAY.LOGON     | READ            | D, DL                                | \$D                 | NS         |
| <i>jesx</i> .DISPLAY.MAIN      | READ            | D                                    | *I                  | JP         |
| <i>jesx</i> .DISPLAY.MAINX     | READ            | DL                                   | *I                  | JP         |
| <i>jesx</i> .DISPLAY.MEMBER    | READ            | D                                    | \$D                 | MAS        |
| <i>jesx</i> .DISPLAY.NETSRV    | READ            | D, DL                                | \$D<br>*I           | NS         |
| <i>jesx</i> .DISPLAY.NJE       | READ            | D, DL                                | *I                  | NO         |
| <i>jesx</i> .DISPLAY.NJEDEF    | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.NODE      | READ            | D, DL, DP                            | \$D                 | NO         |
| <i>jesx</i> .DISPLAY.OUTDEF    | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.PATH      | READ            | DP                                   | \$DPATH             | NO         |
| <i>jesx</i> .DISPLAY.POLICYLIB | READ            | DP                                   | \$DPOLICYLIB, DEBUG | JES        |
| <i>jesx</i> .DISPLAY.PROCLIB   | READ            | D                                    | \$DPROCLIB          | PROC       |
| <i>jesx</i> .DISPLAY.PROCLIB   | READ            | DD                                   | \$DPROCLIB, DEBUG   | PROC       |
| <i>jesx</i> .DISPLAY.Q         | READ            | D, DL, J                             | *I Q                | SP         |
| <i>jesx</i> .DISPLAY.RESGROUP  | READ            | D                                    | \$D                 | JRG        |
| <i>jesx</i> .DISPLAY.S         | READ            | DMA, DME,<br>DMR, DMSS,<br>DMSV, DMU | *I                  | I ST       |
| <i>jesx</i> .DISPLAY.SMFDEF    | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.SOCKET    | READ            | D                                    | \$D<br>*I           | NC         |
| <i>jesx</i> .DISPLAY.SOCKET    | READ            | DS                                   | \$D                 | NS         |
| <i>jesx</i> .DISPLAY.SPOOL     | READ            | D, DL                                | \$D                 | SP         |
| <i>jesx</i> .DISPLAY.SPOOLDEF  | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.SUBMITLIB | READ            | DS                                   | \$DSUBMITLIB, DEBUG | JES        |
| <i>jesx</i> .DISPLAY.T         | READ            | DE                                   | *I                  | LI         |
| <i>jesx</i> .DISPLAY.TPDEF     | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.TRACEDEF  | READ            | D                                    | \$D                 | RM         |
| <i>jesx</i> .DISPLAY.U         | READ            | D                                    | *I U J              | J0 JDS     |
| <i>jesx</i> .DISPLAY.U         | READ            | L, LB, LH, LT                        | *I                  | DA I ST    |



Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name  | Required Access              | Action Character                             | JES/MVS Command | SDSF Panel               |
|---|------------------------------|--|-----------------|--------------------------|
| <i>jesx</i> .FAIL.DEV.device  | CONTROL                      | L, LD  | *FAIL           | LI NS PR RDR             |
| <i>jesx</i> .FAIL.dspname   | CONTROL                      | L, LD  | *FAIL           | PUN                      |
| <i>jesx</i> .FORWARD.DEV  | UPDATE                       | F, FD,<br>Fnumber                            | \$F             | PR PUN                   |
| <i>jesx</i> .HALT.DEV<br><i>jesx</i> .HALT.INITIATOR<br><i>jesx</i> .HALT.SPOOL | UPDATE<br>CONTROL<br>CONTROL | Z  | \$Z             | PR PUN RDR<br>INIT<br>SP |
| <i>jesx</i> .INTERRUPT.DEV  | UPDATE                       | I  | \$I             | PR PUN                   |
| <i>jesx</i> .MODIFY.G   | UPDATE                       | P, S   | *F              | INIT                     |
| <i>jesx</i> .MODIFY.JOB   | UPDATE                       | A, C, CA, CD,<br>CDA, CDP, CP,<br>H, J, P, W | *F              | DA I ST                  |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL                      | A, H   | \$T             | JCM                      |
| <i>jesx</i> .MODIFY.type  | UPDATE                       | W  | \$T             | DA I JDS ST              |
| <i>jesx</i> .MODIFY.typeOUT   | UPDATE                       | A<br>H<br>O<br>OK                            | \$TO            | O H<br>O H<br>H<br>H     |
| <i>jesx</i> .MODIFY.type  | CONTROL                      | I, Q   | \$T             | LI                       |
| <i>jesx</i> .MODIFY.NJE   | UPDATE                       | A, EL, H                                     | *F              | NO                       |
| <i>jesx</i> .MODIFY.Q   | UPDATE                       | A, H, HC, HP,<br>P, U                        | *F Q            | SP                       |
| <i>jesx</i> .MODIFY.U   | UPDATE                       | C, H, O, P                                   | *F              | JDS JO                   |
| <i>jesx</i> .MODIFY.V   | UPDATE                       | PX, V, VF<br>V, VF                           | *F              | JP<br>LI PR PUN RDR      |
| <i>jesx</i> .MODIFYHOLD.type  | UPDATE                       | H  | \$H             | DA I ST                  |
| <i>jesx</i> .MODIFYHOLD.GROUP   | UPDATE                       | H  | \$H             | JG                       |
| <i>jesx</i> .MODIFYRELEASE.type   | UPDATE                       | A  | \$A             | DA I ST                  |
| <i>jesx</i> .MODIFYRELEASE.GROUP  | UPDATE                       | A  | \$A             | JG                       |
| <i>jesx</i> MON.DISPLAY.DETAIL  | READ                         | JD   | \$JDDetails     | MAS RMA                  |
| <i>jesx</i> MON.DISPLAY.HISTORY   | READ                         | JH   | \$JDHistory     | MAS RMA                  |
| <i>jesx</i> MON.DISPLAY.JES   | READ                         | JJ   | \$JDJES         | MAS RMA                  |
| <i>jesx</i> MON.DISPLAY.MONITOR   | READ                         | J  | \$JDMonitor     | MAS RMA                  |
| <i>jesx</i> MON.DISPLAY.STATUS  | READ                         | JS   | \$JDStatus      | MAS RMA                  |
| <i>jesx</i> MON.STOP.MONITOR  | CONTROL                      | ZM   | \$J             | MAS                      |
| <i>jesx</i> .MSEND.CMD  | READ                         | Any  | \$M             | I ST                     |

Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name  | Required Access              | Action Character     | JES/MVS Command   | SDSF Panel                             |
|---|------------------------------|----------------------|-------------------|--|
| <i>jesx</i> .RELEASE.typeOUT  | UPDATE                       | C<br>O<br>P          | \$O<br>\$O<br>\$O | H <sup>1</sup><br>ST<br>H <sup>1</sup> |
| <i>jesx</i> .REPEAT.DEV   | UPDATE                       | N                    | \$N               | PR PUN                                 |
| <i>jesx</i> .RESTART.BAT  | CONTROL                      | E (all forms)        | \$E               | DA I ST                                |
| <i>jesx</i> .RESTART.DEV<br><i>jesx</i> .RESTART.LINE<br><i>jesx</i> .RESTART.SYS | UPDATE<br>CONTROL<br>CONTROL | E, EC<br>E<br>E, ER  | \$E               | PR PUN LI SO<br>LI<br>MAS              |
| <i>jesx</i> .RESTART.device   | CONTROL                      | E                    | \$E               | LI NC NS                               |
| <i>jesx</i> .RESTART.DEV.device   | UPDATE                       | B, E, F              | *R                | NS PR PUN                              |
| <i>jesx</i> .RESTART.DEV.main   | CONTROL                      | E                    | *R                | DA I ST                                |
| <i>jesx</i> .RESTART.LINE   | CONTROL                      | E                    | \$E               | NC                                     |
| <i>jesx</i> .RESTART.RJP  | UPDATE                       | E                    | *R                | LI                                     |
| <i>jesx</i> .START.BAT  | UPDATE                       | J                    | \$S               | I ST                                   |
| <i>jesx</i> .START.DEV  | UPDATE<br>CONTROL            | S                    | \$S               | NC NS PR PUN LI SO RDR                 |
| <i>jesx</i> .START.DEV  | UPDATE                       | SR, ST               | \$S               | SO                                     |
| <i>jesx</i> .START.DEV.device   | CONTROL                      | S                    | *S                | LI NS                                  |
| <i>jesx</i> .START.DEV.device   | UPDATE                       | S (all forms)        | *S                | PR PUN RDR                             |
| <i>jesx</i> .START.DEV.device   | UPDATE                       | SNL, SNR,<br>SR,SRJP | *S                | LI                                     |
| <i>jesx</i> .START.DEV.main   | UPDATE                       | C, F                 | *S                | JP                                     |
| <i>jesx</i> .START.INITIATOR  | CONTROL                      | S                    | \$S               | INIT                                   |
| <i>jesx</i> .START.JSS  | UPDATE                       | S                    | *S                | JP                                     |
| <i>jesx</i> .START.LINE   | CONTROL                      | S                    | \$S               | LI                                     |
| <i>jesx</i> .START.MONITOR  | UPDATE                       | DM                   | *S                | JP                                     |
| <i>jesx</i> .START.NET  | CONTROL                      | SN                   | \$S               | LI NC NO                               |
| <i>jesx</i> .START.SPOOL  | CONTROL                      | SP                   | \$S               | SP                                     |
| <i>jesx</i> .START.SYS  | CONTROL                      | S, SC, SX            | \$S               | MAS                                    |
| <i>jesx</i> .START.TCP  | UPDATE                       | SN                   | *S                | NC                                     |
| <i>jesx</i> .START.TCP  | UPDATE                       | SN                   | *S                | NO                                     |
| <i>jesx</i> .STOP.DEV   | UPDATE                       | P                    | \$P               | NC NS PR PUN LI SO RDR                 |
| <i>jesx</i> .STOP.INITIATOR   | CONTROL                      | P                    | \$P               | INIT                                   |
| <i>jesx</i> .STOP.LINE  | CONTROL                      | P                    | \$P               | LI                                     |

Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name           | Required Access | Action Character            | JES/MVS Command   | SDSF Panel |
|----------------------------------|-----------------|-----------------------------|---|------------|
| <b>jesx.STOP.type</b>            | UPDATE          | P                           | \$P   | JG         |
| <b>jesx.STOP.typeOUT</b>         | UPDATE          | PO                          | \$PO  | ST         |
| <b>jesx.STOP.SPOOL</b>           | CONTROL         | P, PC                       | \$P   | SP         |
| <b>jesx.STOP.SYS</b>             | CONTROL         | P, PA, PC, PQ, PT, PX       | \$P   | MAS        |
| <b>jesx.STOP.RETURN</b>          | CONTROL         | P                           | *RETURN   | JP         |
| <b>MVS.CANCEL.type.jobname</b>   | UPDATE          | C<br>CD<br>K, KD<br>P<br>PP | C U=userid<br>C U=, DUMP<br>C jobname,A=asid<br>C U=userid<br>C U=userid<br>C jobname,A=asid <sup>2</sup> | DA         |
| <b>MVS.CANCEL.type.jobname</b>   | UPDATE          | C                           | C U=userid<br>C jobname,A=asid  | PS         |
| <b>MVS.CANCEL.STC.servername</b> | CONTROL         | K, KD                       | C   | NS         |
| <b>MVS.CONTROL.C</b>             | READ            | C                           | CONTROL C,A,  | SR         |
| <b>MVS.DISPLAY.ALLOC</b>         | READ            | D                           | D ALLOC,OPTIONS   | SYSP       |
|                                  | READ            | DALO                        | D ALLOC,OPTIONS   | SYS        |
| <b>MVS.DISPLAY.AUTOR</b>         | READ            | D                           | D AUTOR,P   | SYSP       |
| <b>MVS.DEVSERV</b>               | READ            | DSP                         | DS P  | DEV, DEVS  |
|                                  | READ            | DSP                         | DS P,unit   | UCB        |
|                                  | READ            | DSQD                        | DS QD   | DEV, DEVS  |
|                                  | READ            | DSQD                        | DS QD,unit  | UCB        |
|                                  | READ            | DSQP                        | DS QP   | DEV, DEVS  |
|                                  | READ            | DSQP                        | DS QP,unit  | UCB        |
|                                  | READ            | DSS                         | DS S  | DEV, DEVS  |
|                                  | READ            | DSS                         | DS S,unit   | UCB        |
| <b>MVS.DISPLAY.ASM</b>           | READ            | D                           | D ASM,PAGE=   | PAG        |
|                                  | READ            | DC                          | D ASM,COMMON  | PAG        |
|                                  | READ            | DD                          | D ASM,PAGEDEL   | PAG        |
|                                  | READ            | DL                          | D ASM,LOCAL   | PAG        |
|                                  | READ            | DP                          | D ASM,PLPA  | PAG        |
|                                  | READ            | DS                          | D ASM,SCM   | PAG        |
| <b>MVS.DISPLAY.CEE</b>           | READ            | DCEE                        | D CEE,ALL   | SYS        |
|                                  | READ            | D                           | D CEE,ALL   | SYSP       |

Table 295. Action Characters that Generate System Commands by OPERCMDS Resource Name.

Replace *jesx* with the name of the targeted JES subsystem, for example, JES2.

Replace *type* with BAT (batch jobs), STC (started tasks), or TSU (TSO users). For APPC transactions, replace *type* with STC for transaction SYSOUT on the H and O panels, or ATX for transactions on the DA, I, and ST panels.

Replace *hcproc* and *hccsid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name | Required Access | Action Character | JES/MVS Command            | SDSF Panel      |
|------------------------|-----------------|------------------|----------------------------|-----------------|
| MVS.DISPLAY.CONSOLES   | READ            | D                | D C                        | SYSP            |
|                        | READ            | DC               | D C                        | SYS             |
| MVS.DISPLAY.DEVSUP     | READ            | D                | D DEVSUP                   | SYSP            |
| MVS.DISPLAY.DIAG       | READ            | D                | D DIAG                     | SYSP            |
| MVS.DISPLAY.DUMP       | READ            | DD               | D D,E                      | SYS             |
|                        | READ            | D                | D D,E                      | SYSP            |
| MVS.DISPLAY.EMCS       | READ            | D                | D EMCS,I,CN=               | EMCS            |
|                        | READ            | DEM              | D EMCS                     | SYS             |
|                        | READ            | DL               | D EMCS,F,CN=               | EMCS            |
| MVS.DISPLAY.FXE        | READ            | D                | D FXE,,STATE               | FXE             |
|                        | READ            | DI               | D FXE,IPLPARMS             | FXE             |
|                        | READ            | D                | D FXE,IPLPARMS             | SYSP            |
| MVS.DISPLAY.GRS        | READ            | D                | D GRS,HEX,RES=             | ENQ, ENQC, ENQD |
|                        | READ            | DG               | D GRS,SYSTEM               | SYS             |
|                        | READ            | D                | D GRS,SYSTEM               | SYSP            |
| MVS.DISPLAY.GTZ        | READ            | D                | D GTZ,TRACKDATA=(OWNER=)   | GT              |
|                        | READ            | D                | D GTZ,TRACKDATA=(ALL)      | SYSP            |
|                        | READ            | DA               | D GTZ,TRACKDATA=(ALL)      | GT              |
|                        | READ            | DD               | D GTZ,DEBUG                | GT              |
|                        | READ            | DE               | D GTZ,EXCLUDE              | GT              |
|                        | READ            | DH               | D GTZ,TRACKDATA=(HOMEJOB=) | GT              |
|                        | READ            | DS               | D GTZ,STATUS               | GT              |
| MVS.DISPLAY.ICSF       | READ            | D                | D ICSF,OPT                 | SYSP            |
| MVS.DISPLAY.IEFOPZ     | READ            | D                | D IEFOPZ,STATUS            | SYSP            |
| MVS.DISPLAY.IKJTSO     | READ            | DTO              | D IKJTSO                   | SYS             |
|                        | READ            | D                | D IKJTSO                   | SYSP            |
| MVS.DISPLAY.IOS        | READ            | D                | D IOS,CONFIG               | SYSP            |
|                        | READ            | DI               | D IOS,CONFIG               | SYS             |
| MVS.DISPLAY.IPLINFO    | READ            | D, DB            | D IPLINFO                  | SYS             |
|                        | READ            | D                | D IPLINFO                  | SYSP            |
| MVS.DISPLAY.IQP        | READ            | DIQP             | D IQP                      | SYS             |
|                        | READ            | D                | D IQP                      | SYSP            |

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(continued)

| OPERCMDS Resource Name     | Required Access | Action Character | JES/MVS Command      | SDSF Panel         |
|----------------------------|-----------------|------------------|----------------------|--------------------|
| <b>MVS.DISPLAY.IZU</b>     | READ            | D                | D IZU                | SYSP               |
| <b>MVS.DISPLAY.JOB</b>     | READ            | DAA              | D A,ALL              | SYS                |
|                            | READ            | DAL              | D A,L                | SYS                |
|                            | READ            | DTS              | D TS,L               | SYS                |
|                            | READ            | D                | D TS,L               | SYSP               |
| <b>MVS.DISPLAY.LLA</b>     | READ            | DLL              | D LLA                | SYS                |
| <b>MVS.DISPLAY.LOGGER</b>  | READ            | D                | D LOGGER             | SYSP               |
|                            | READ            | DLO              | D LOGGER             | SYS                |
| <b>MVS.DISPLAY.LOGREC</b>  | READ            | D                | D LOGREC             | SYSP               |
|                            | READ            | DLR              | D LOGREC             | SYS                |
| <b>MVS.DISPLAY.M</b>       | READ            | DM               | D M                  | SYS                |
| <b>MVS.DISPLAY.MPF</b>     | READ            | DMP              | D MPF                | SYS                |
| <b>MVS.DISPLAY.OMVS</b>    | READ            | D                | D OMVS               | PS<br>UNIX Threads |
|                            | READ            | DO               | D OMVS,O             | SYS                |
|                            | READ            | DO               | D OMVS,O             | SYSP               |
|                            | READ            | D                | D OMVS,F,N=          | FS                 |
|                            | READ            | DA               | D OMVS,F             | FS                 |
|                            | READ            | DE               | D OMVS,F,E           | FS                 |
|                            | READ            | DO               | D OMVS,O             | BPXO               |
| <b>MVS.DISPLAY.OPDATA</b>  | READ            | DO               | D OPDATA             | SSI                |
| <b>MVS.DISPLAY.PARMLIB</b> | READ            | DE               | D PARMLIB,ERRORS     | PARM               |
|                            | READ            | D                | D PARMLIB            | PARM               |
| <b>MVS.DISPLAY.PCIE</b>    | READ            | DPCD             | D PCIE,DD            | SYS                |
|                            | READ            | DPCI             | D PCIE               | SYS                |
| <b>MVS.DISPLAY.PPT</b>     | READ            | D                | D PPT,ALL            | PPT SYSP           |
| <b>MVS.DISPLAY.PROD</b>    | READ            | D                | D PROD, <i>type</i>  | PROD               |
|                            | READ            | DA               | DA PROD, <i>type</i> | PROD               |
|                            | READ            | DP               | D PROD,REG           | SYS                |
|                            | READ            | D                | D PROD,REG           | SYSP               |

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

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(continued)

| OPERCMDS Resource Name     | Required Access | Action Character | JES/MVS Command              | SDSF Panel     |
|----------------------------|-----------------|------------------|------------------------------|----------------|
| <b>MVS.DISPLAY.PROG</b>    | READ            | D                | D PROG,APF, DSNAME=          | APF            |
|                            | READ            | D                | D PROG,EXIT,EX=              | DYNX           |
|                            | READ            | D                | D PROG,LNKLST, NAME=         | LLS LNK        |
|                            | READ            | D                | D PROG,APF,ALL               | SYSP           |
|                            | READ            | D                | D PROG,LNKLST                | SYSP           |
|                            | READ            | D                | D PROG,LPA,CSAMIN            | SYSP           |
|                            | READ            | DA               | D PROG,APF,ALL               | APF            |
|                            | READ            | DA               | D PROG,EXIT,ALL              | DYNX           |
|                            | READ            | DAI              | D PROG,EXIT,ALL,IMPLICIT     | DYNX           |
|                            | READ            | DD               | D PROG,EXIT,EX=,DIAG         | DYNX           |
|                            | READ            | DI               | D PROG,EXIT,INSTALLATION     | DYNX           |
|                            | READ            | DN               | D PROG,LNKST, NAMES          | LNK            |
|                            | READ            | DNP              | D PROG,EXIT,NOTPROGRAM       | DYNX           |
|                            | READ            | DP               | D PROG,EXIT,PROGRAM          | DYNX           |
|                            | READ            | DU               | D<br>PROG,LNKLST,USERS,NAME= | LLS            |
| <b>MVS.DISPLAY.R</b>       | READ            | D                | D R,CN=(ALL),MSG=            | SR             |
| <b>MVS.DISPLAY.SLIP</b>    | READ            | DSL              | D SLIP                       | SYS            |
| <b>MVS.DISPLAY.SMF</b>     | READ            | D                | D SMF                        | SMFD SMFL SMFR |
|                            | READ            | D                | D SMF,O                      | SMFO SMFS SYSP |
| <b>MVS.DISPLAY.SMFLIM</b>  | READ            | D                | D SMFLIM,R                   | SYSP           |
| <b>MVS.DISPLAY.SMS</b>     | READ            | D                | D SMS                        | SYSP           |
|                            | READ            | DSM              | D SMS                        | SYS            |
|                            | READ            | D                | D SMS,SG                     | SMSG           |
|                            | READ            | D                | D SMS,VOL                    | SMSV           |
|                            | READ            | DC               | D SMS,CFVOL                  | SMSV           |
|                            | READ            | DL               | D SMS,SG,LISTVOL             | SMSG           |
|                            | READ            | DS               | D SMS,SG                     | SMSV           |
|                            | READ            | DSL              | D SMS,SG,LISTVOL             | SMSV           |
| <b>MVS.DISPLAY.SSI</b>     | READ            | D, DA            | D SSI,ALL                    | SSI SYSP       |
|                            | READ            | D                | D SSI,SUB=                   | JES SSI        |
| <b>MVS.DISPLAY.SYMBOLS</b> | READ            | DSY              | D SYMBOLS                    | SYS            |
|                            | READ            | D, DL            | D SYMBOLS                    | SYM            |

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(continued)

| OPERCMDs Resource Name      | Required Access | Action Character | JES/MVS Command                                   | SDSF Panel |
|-----------------------------|-----------------|------------------|---|------------|
| <b>MVS.DISPLAY.TCPIP</b>    | READ            | D                | D   | JD         |
|                             | READ            | DA               | D TCPIP,stack, N,ALL,IPP=                         | NA JD      |
|                             | READ            | DAL              | D TCPIP,stack, N,ALL,IPP=, FORMAT=LONG            | NA JD      |
|                             | READ            | DB               | D TCPIP,stack, N,BYTE,IDLETIME, IPA=              | NA JD      |
|                             | READ            | DBL              | D TCPIP,stack, N,BYTE,IDLETIME, IPA=,FORMAT=LONG= | NA JD      |
|                             | READ            | DN               | D TCPIP,stack, N,CO,APPLDATA, IPP=                | NA JD      |
|                             | READ            | DNL              | D TCPIP,stack, N,CO,APPLDATA, IPP=,FORMAT=LONG    | NA JD      |
|                             | READ            | DR               | D TCPIP,stack, N,ROUTE,IPP=                       | NA JD      |
|                             | READ            | DRD              | D TCPIP,stack, N,ROUTE,DETAIL, IPP=               | NA JD      |
|                             | READ            | DRDL             | D TCPIP,stack, N,ROUTE,DETAIL, IPP=,FORMAT=LONG   | NA JD      |
|                             | READ            | DRL              | D TCPIP,stack, N,ROUTE,IPA=                       | NA JD      |
| <b>MVS.DISPLAY.TIMEDATE</b> | READ            | DT               | D T   | SYS        |
| <b>MVS.DISPLAY.TRACE</b>    | READ            | DTR              | D TRACE   | SYS        |
| <b>MVS.DISPLAY.U</b>        | READ            | D, DA, DI        | D U   | DEV        |
|                             | READ            | D                | D U,,,unit,1                                      | UCB        |
|                             | READ            | DA               | D U,ALLOC   | DEVS       |
|                             | READ            | DA               | D U,,ALLOC,unit,1                                 | UCB        |
| <b>MVS.DISPLAY.UNI</b>      | READ            | D                | D UNI,AL  | SYSP       |
| <b>MVS.DISPLAY.VIRTSTOR</b> | READ            | D                | D VIRTSTOR,HVCOMMON                               | SYSP       |
|                             |                 |                  | D VIRTSTOR,HVSHARE                                |            |

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the JES/MVS Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name  | Required Access | Action Character                               | JES/MVS Command   | SDSF Panel      |
|---|-----------------|--|---|-----------------|
| <b>MVS.DISPLAY.XCF</b>  | READ            | D  | D   | JD              |
|   | READ            | D, DA  | D XCF,CF,CFNAME= <i>cfname</i>  | CF JD           |
|   | READ            | D  | D XCF   | SYSP            |
|   | READ            | D  | D XCF,COUPLE,TYPE= <i>type</i>  | CFD             |
|   | READ            | D  | D XCF,GROUP, <i>groupname</i> ,<br><i>membername</i>                                    | XCFM            |
|   | READ            | D  | D XCF,SRV, SCOPE=DETAIL,<br>SRVNAME= <i>servername</i>                                  | XCFA            |
|   | READ            | D, DA  | D XCF,STR, STRNM=   | CFC CFS CFSA JD |
|   | READ            | D  | D XCF,SYSPLEX   | PLEX            |
|   | READ            | DA   | D XCF,COUPLE  | CFD             |
|   | READ            | DA   | D XCF,GROUP, <i>groupname</i> ,ALL  | XCFM            |
|   | READ            | DA   | D XCF,SRV, SCOPE=DETAIL,<br>TYPE=INST   | XCFA            |
|   | READ            | DG   | D XCF, GROUP, <i>groupname</i>  | XCFM            |
|   | READ            | DI   | D XCF,PI,DEV=ALL,STRNM=ALL  | XCFP            |
|   | READ            | DI   | D XCF,SRV,SCOPE=DETAIL,<br>SRVNAME= <i>servername</i> ,<br>INST#= <i>instancenumber</i> | XCFA            |
|   | READ            | DO   | D XCF,PO,DEV=ALL,STRNM=ALL  | XCFP            |
|   | READ            | DP   | D XCF,POL,TYPE=   | JD              |
|   | READ            | DX   | D XCF   | SYS             |
| <b>MVS.FORCE.type.jobname</b><br><b>MVS.FORCE.type.jobname.id</b> | CONTROL         | Z  | FORCE   | DA              |
| <b>MVS.FORCE.STC.servername</b>                                   | CONTROL         | Z  | FORCE   | NS              |
| <b>MVS.MODIFY.STC.fssproc.fssname</b>                             | UPDATE          | K  | F   | PR              |
| <b>MVS.MODIFY.STC.procname.stcid</b>                              | UPDATE          | A, D, DL, DP,<br>DPO, DS, E, H,<br>P, PF, R, U | F   | CK              |
| <b>MVS.MODIFY.STC.BPXOINIT.BPXOINIT</b>                           | UPDATE          | K, T   | F   | PS              |



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(continued)

| OPERCMDS Resource Name                       | Required Access | Action Character | JES/MVS Command                                       | SDSF Panel   |
|--|-----------------|------------------|---|--|
| <b>MVS.MODIFY.STC.CATALOG.CATALOG.SECURE</b> | READ            | D                | F CATALOG,REPORT                                      | CAT  |
|  | READ            | DC               | F CATALOG,REPORT,CACHE( <i>dsname</i> )               | CAT  |
|  | READ            | DS               | F CATALOG,REPORT,CATSTATX( <i>dsname</i> )            | CAT  |
|  | UPDATE          | VL               | F CATALOG,RECOVER,LOCK( <i>dsname</i> )               | CAT  |
|  | UPDATE          | VR               | F CATALOG,RECOVER,RESUME( <i>dsname</i> )             | CAT  |
|  | UPDATE          | VS               | F CATALOG,RECOVER,SUSPEND( <i>dsname</i> )            | CAT  |
|  | UPDATE          | VU               | F CATALOG,RECOVER,UNLOCK( <i>dsname</i> )             | CAT  |
| <b>MVS.DISPLAY.WLM</b>                       | READ            | D                | D WLM   | SE RES   |
|  | READ            | DW               | D WLM   | SYS  |
| <b>MVS.SET.PROG</b>                          | UPDATE          | ACT              | SETPROG LNKLIST,ACTIVATE,NAME=                        | LLS  |
|  | UPDATE          | A                | SETPROG EXIT,MODIFY,EXITNAME=,MODNAME=,STATE=ACTIVE   | DYNX   |
|  | UPDATE          | H                | SETPROG EXIT,MODIFY,EXITNAME=,MODNAME=,STATE=INACTIVE | DYNX   |
|  | UPDATE          | P                | SETPROG EXIT,DELETE,EXITNAME=,MODNAME=                | DYNX   |
|  | UPDATE          | PF               | SETPROG EXIT,DELETE,EXITNAME=,MODNAME=,FORCE=YES      | DYNX   |
|  | UPDATE          | U                | SETPROG EXIT,UNDEFINE,EXITNAME=                       | DYNX   |
| <b>MVS.SETCON.DELETE</b>                     | UPDATE          | P                | SETCON DELETE,CN=                                     | EMCS   |
| <b>MVS.SETOMVS.OMVS</b>                      | UPDATE          | N                | SETOMVS <i>optionname</i> =NOLIMIT                    | BPXO   |
| <b>MVS.RESET</b>                             | UPDATE          | R                | RESET   | DA <sup>RMF</sup>                                      |
| <b>MVS.RESET</b>                             | UPDATE          | RQ               | RESET   | DA <sup>RMF</sup>                                      |
| <b>MVS.RESET.CN</b>                          | CONTROL         | E                | RESET CN()  | EMCS   |
| <b>MVS.REPLY</b>                             | READ            | R                | REPLY   | SR   |
| <b>MVS.ROUTE</b>                             | READ            | Any              | ROUTE   | DA ENC INIT LI NO MAS<br>PR PS PUN RDR SO <sup>3</sup> |
| <b>MVS.SETAUTOR.AUTOR</b>                    | READ            | AI               | SETAUTOR  | SR   |

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(continued)

| OPERCMDS Resource Name  | Required Access | Action Character | JES/MVS Command                | SDSF Panel        |
|---|-----------------|------------------|--------------------------------|-------------------|
| <b>MVS.SETSSI.ACTIVATE.ssname</b>                               | CONTROL         | A                | SETSSI ACT,S=                  | SSI               |
| <b>MVS.SETSSI.DEACTIVATE.ssname</b>                             | CONTROL         | H                | SETSSI DEACT,S=                | SSI               |
|   | CONTROL         | PF               | SETSSI DELETE, S=,FORCE        | SSI               |
| <b>MVS.STOP.type.jobname</b><br><b>MVS.STOP.type.jobname.id</b> | UPDATE          | Y                | STOP                           | DA <sup>RMF</sup> |
| <b>MVS.VARY.DEV</b>   | UPDATE          | V                | V ONLINE                       | DEV               |
|   | CONTROL         | V                | V <i>unit</i> ,ONLINE          | UCB               |
|   | UPDATE          | VF               | V OFFLINE                      | DEV               |
|   | CONTROL         | VF               | V <i>unit</i> ,OFFLINE         | UCB               |
| <b>MVS.VARY.SMS</b>   | UPDATE          | VD               | V SMS,SG, DISABLE              | SMSG              |
|   | UPDATE          | VD               | V SMS,VOL, DISABLE             | SMSV              |
|   | UPDATE          | VDN              | V SMS,SG, DISABLE,NEW          | SMSG              |
|   | UPDATE          | VDN              | V SMS,VOL, DISABLE,NEW         | SMSV              |
|   | UPDATE          | VE               | V SMS,SG,ENABLE                | SMSG              |
|   | UPDATE          | VE               | V SMS,VOL,ENABLE               | SMSV              |
|   | UPDATE          | VQ               | V SMS,SG, QUIESCE              | SMSG              |
|   | UPDATE          | VQ               | V SMS,VOL, QUIESCE             | SMSV              |
|   | UPDATE          | VQN              | V SMS,SG, QUIESCE,NEW          | SMSG              |
|   | UPDATE          | VQN              | V SMS,VOL, QUIESCE,NEW         | SMSV              |
|   | UPDATE          | VS               | V SMS,SG,SPACE                 | SMSG              |
|   | UPDATE          | VS               | V SMS,VOL, SPACE               | SMSV              |
| <b>MVS.VARY.XCF</b>   | CONTROL         | V                | V XCF, <i>sysname</i> ,OFFLINE | PLEX              |
| <b>MVS.VARYAUTH.CN</b>  | CONTROL         | V                | V CN(), AUTH=                  | EMCS              |
| <b>racfsubsys.TARGET.DENYINBOUND</b>                            | CONTROL         | VAI, VDI         | #TARGET                        | RACR              |
| <b>racfsubsys.TARGET.LIST</b>                                   | READ            | D                | #TARGET                        | RACR              |
| <b>racfsubsys.TARGET.OPERATIVE</b>                              | CONTROL         | VD, VO           | #TARGET                        | RACR              |

Notes for Table 295 on page 372:

<sup>1</sup> This occurs only on a secondary JES system.

<sup>2</sup> This form of the CANCEL command is issued against APPC transaction programs.

<sup>3</sup> SDSF uses the MVS ROUTE command to route commands to a system in a sysplex other than the one the user is logged on to, for these panels, when they are showing sysplex-wide data: CK, ENC, INIT, LI, NO, PR, PS, PUN, RDR, RM and SO.

**RMF** The DA panel must be using RMF as the source of its data.

## Overtimeable fields

Use of an overtimeable field causes an interaction with three resources, all of which must be protected:

- The overtimeable field
- The object of the overtimeable field, such as an initiator, printer, MAS member, or job
- The MVS or JES command generated by overtyping the field

Protecting overtimeable fields is the same whether they are overtyped in the table or from the command line.

### Protecting the overtimeable field

The resource names for the overtimeable fields are in the SDSF class or GSDSF class and have a high level qualifier of ISFATTR. A user must have UPDATE authority to the ISFATTR resource to overtype a field. The fields and their resource names are shown in [“Tables of overtimeable fields” on page 387](#).

If the user is not authorized to overtype the field, the field is displayed on the panel but is not overtimeable. (The ISFFLD macros or the FLD statements of ISFPARMS can be used to control whether a field is displayed.)

### Protecting the objects of overtimeable fields

The objects of the overtimeable fields are such things as jobs, output groups, initiators, MAS members, nodes, printers, and so on. For information about protecting the objects of overtimeable fields, refer to the topic for the object type in Chapter 8, [“Protecting SDSF panels and functions,” on page 265](#), Chapter 9, [“Protecting secondary SDSF panels,” on page 361](#), and Chapter 11, [“Protecting functions,” on page 429](#).

### Protecting the generated MVS and JES commands

Overtyping fields generates MVS and JES commands. The resource names that protect these commands are in the OPERCMDS class and are shown in [“Tables of overtimeable fields” on page 387](#). The tables also contain the access levels required.

### Permitting access only while using SDSF

Users can be conditionally permitted to access OPERCMDS resources so they are authorized to use MVS and JES commands only while they are using SDSF. See [“Using conditional access” on page 260](#) for more information.

## Generic profiles

You can set up a generic profile in the SDSF class to allow access to all overtimeable fields. To protect resources individually in the SDSF class with more restrictive profiles, use the specific resource name associated with the overtimeable field. [Table 297 on page 388](#) contains these resource names.

Generic profiles in the SDSF class that protect different types of overtimeable fields are shown in [Table 296 on page 385](#). For the generic profiles in the OPERCMDS class, use [Table 300 on page 412](#).

*Table 296. Generic Profiles for Overtimeable Fields*

| Generic Profile             | Protects  |
|-----------------------------|---|
| <b>ISFATTR.**</b>           | All   |
| <b>ISFATTR.INIT.**</b>      | JES3 initiators   |
| <b>ISFATTR.JOB.**</b>       | DA, I, ST (jobs)  |
| <b>ISFATTR.JOBGROUPS.**</b> | JG  |
| <b>ISFATTR.OUTPUT.**</b>    | JDS (job data sets), JO (JES3 job 0), H and O (output groups) |

Table 296. Generic Profiles for Overtimeable Fields (continued)

| Generic Profile            | Protects   |
|----------------------------|--|
| <b>ISFATTR.OUTDESC.**</b>  | JDS (job data sets), JO (JES3 job 0)                           |
| <b>ISFATTR.CHECK.**</b>    | CK (checks)  |
| <b>ISFATTR.CKPT.**</b>     | CKPT   |
| <b>ISFATTR.EMCS.**</b>     | EMCS   |
| <b>ISFATTR.ENCLAVE.**</b>  | ENC (enclaves)   |
| <b>ISFATTR.JOBCL.**</b>    | JC (job classes), JRJC (class resource limits)                 |
| <b>ISFATTR.LINE.**</b>     | LI (lines), NC (network connections)                           |
| <b>ISFATTR.LOGON.**</b>    | NS (network servers)   |
| <b>ISFATTR.MEMBER.**</b>   | MAS (members of the MAS), JP (members of the JESPLEX)          |
| <b>ISFATTR.MODIFY.**</b>   | SO (spool offloaders)  |
| <b>ISFATTR.NETOPTS.**</b>  | NC, NS   |
| <b>ISFATTR.NODE.**</b>     | NO (nodes), NC   |
| <b>ISFATTR.OFFLOAD.**</b>  | SO (spool offloaders)  |
| <b>ISFATTR.OMVS.**</b>     | OMVS   |
| <b>ISFATTR.PROPTS.**</b>   | LI, NC, NS, PR (printers), PUN (punches)                       |
| <b>ISFATTR.RDR.**</b>      | RDR (readers)  |
| <b>ISFATTR.RESMON.**</b>   | RM (JES2 resources)  |
| <b>ISFATTR.RESOURCE.**</b> | RES (WLM resources)  |
| <b>ISFATTR.SELECT.**</b>   | INIT, LI, NC, NS, PR, PUN, SO (selection criteria for devices) |
| <b>ISFATTR.SPOOL.**</b>    | SP (spool volumes)   |

## Examples of protecting overtimeable fields

In the following examples, *jesx* is the name of the JES2 or JES3 subsystem. For example, it might be *JES2*, *JESA*, or to protect all JES2 subsystems, *JES%*.

1. To protect all overtimeable fields, the objects of the overtimeable fields, and the commands they generate, define the following profiles:

```

RDEFINE SDSF ISFAPPL.** UACC(NONE)
RDEFINE SDSF ISFATTR.** UACC(NONE)
RDEFINE SDSF ISFDISP.** UACC(NONE)
RDEFINE SDSF ISFINIT.** UACC(NONE)
RDEFINE SDSF ISFENC.** UACC(NONE)
RDEFINE SDSF ISFJDD.** UACC(NONE)
RDEFINE SDSF ISFJOBCL.** UACC(NONE)
RDEFINE SDSF ISFLINE.** UACC(NONE)
RDEFINE SDSF ISFNS.** UACC(NONE)
RDEFINE SDSF ISFNODE.** UACC(NONE)
RDEFINE SDSF ISFMEMB.** UACC(NONE)
RDEFINE SDSF ISFRDR.** UACC(NONE)
RDEFINE SDSF ISFRM.** UACC(NONE)

```

```

RDEFINE SDSF ISFRES.** UACC(NONE)
RDEFINE SDSF ISFSO.** UACC(NONE)
RDEFINE SDSF ISFSOCK.** UACC(NONE)
RDEFINE SDSF ISFSP.** UACC(NONE)
RDEFINE WRITER jesx.** UACC(NONE)
RDEFINE JESSPOOL ** UACC(NONE)
RDEFINE OPERCMDS jesx.CALL.** UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.** UACC(NONE)
RDEFINE OPERCMDS jesx.RESTART.** UACC(NONE)
RDEFINE OPERCMDS jesx.ROUTE.** UACC(NONE)
RDEFINE OPERCMDS jesx.START.** UACC(NONE)
RDEFINE OPERCMDS MVS.DISPLAY.** UACC(NONE)
RDEFINE OPERCMDS MVS.MODIFY.** UACC(NONE)
RDEFINE OPERCMDS MVS.RESET UACC(NONE)
RDEFINE XFACILIT HZS.** UACC(NONE)

```

2. To restrict the use of the overtypeable fields for all output groups on the Held Output Queue and Output Queue panels, define the more restrictive profiles:

```

RDEFINE SDSF ISFATTR.OUTPUT.** UACC(NONE)
RDEFINE JESSPOOL *.*.*.GROUP.* UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.BATOUT UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.STCOUT UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.TSUOUT UACC(NONE)

```

3. To further restrict the use to only the DEST field on the Held Output Queue and Output Queue panels, define the more restrictive profiles:

```

RDEFINE SDSF ISFATTR.OUTPUT.DEST UACC(NONE)
RDEFINE JESSPOOL *.*.*.GROUP.* UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.BATOUT UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.STCOUT UACC(NONE)
RDEFINE OPERCMDS jesx.MODIFY.TSUOUT UACC(NONE)

```

## Tables of overtypeable fields

The following tables describe the SDSF classes and resource names for each overtypeable field and the panels on which they are valid. The table shows the command that is issued, and the associated OPERCMDS resource, for the JES2 environment for each overtypeable field; if the field is overtypeable in the JES3 environment, the JES3 command and associated OPERCMDS resource are shown beneath the JES2 values.

For an alphabetical list by field name, see [Table 297 on page 388](#).

For an alphabetical list by OPERCMDS resource name, see [Table 300 on page 412](#).

[Appendix B, “SDSF resource names for SAF security,” on page 607](#) contains a table of all overtypeable fields.

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2    | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|------------------|--|-----------------|
|                   |            |  | Command, JES3    | OPERCMDS Resource, JES3  |                 |
| <b>System</b>     | RES        | ISFATTR.RESOURCE. <i>system</i>                | F                | MVS.MODIFY.WLM   | UPDATE          |
| <b>ACCT</b>       | JC         | ISFATTR.JOBCL.ACCT                             | \$T              | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>ACTION</b>     | JRJC       | ISFATTR.JOBCL.ACTION                           | \$T JOBCLASS     | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>ACTIVE</b>     | JC         | ISFATTR.JOBCL.ACTIVE                           | \$T              | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>ADDRESS</b>    | JDS        | ISFATTR.OUTDESC.ADDRESS                        | SSI              |  |                 |
|                   |            |  | SSI              |  |                 |
| <b>ADISC</b>      | LI         | ISFATTR.LINE.AUTODISC                          | \$T              | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -                | -  | -               |
| <b>AFPPARMS</b>   | JDS        | ISFATTR.OUTDESC.AFPPARMS                       | SSI              |  |                 |
|                   |            |  | SSI              |  |                 |
| <b>ALLOC</b>      | INIT       | ISFATTR.INIT.ALLOC                             | -                | -  | -               |
|                   |            |  | *F               | <i>jesx</i> .MODIFY.G  | UPDATE          |
| <b>ANODE</b>      | NC         | ISFATTR.NETOPTS.NODE                           | \$T              | <i>jesx</i> .MODIFY.APPL<br><i>jesx</i> .MODIFY.SOCKET<br><i>jesx</i> .MODIFY.LINE | CONTROL         |
|                   |            |  | -                | -  | -               |
| <b>AFPSTATS</b>   | JDS        | ISFATTR.OUTDESC.AFPSTATS                       | SSI              |  |                 |
|                   |            |  | SSI              |  |                 |
| <b>APPL</b>       | NS         | ISFATTR.NETOPTS.APPL                           | \$T              | <i>jesx</i> .MODIFY.LOGON  | CONTROL         |
|                   |            |  | -                | -  | -               |
| <b>APPLID</b>     | LI         | ISFATTR.LINE.APPLID                            | \$S              | <i>jesx</i> .START.NET   | CONTROL         |
|                   |            |  | -                | -  | -               |
| <b>ARCHIVE</b>    | SO         | ISFATTR.OFFLOAD.ARCHIVE                        | \$T              | <i>jesx</i> .MODIFY.OFFLOAD  | CONTROL         |
| <b>ASIS</b>       | PR         | ISFATTR.PROPTS.ASIS                            | \$T              | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -                | -  | -               |
| <b>AUTH</b>       | JC         | ISFATTR.JOBCL.AUTH                             | \$T              | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>AUTH</b>       | EMCS       | ISFATTR.EMCS.AUTH                              | V CN(),<br>AUTH= | MVS.VARY.CN  | UPDATE          |
| <b>AUTHORITY</b>  | RDR        | ISFATTR.RDR.AUTHORITY                          | \$T              | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -                | -  | -               |
| <b>AUTHORITY</b>  | NO         | ISFATTR.NODE.AUTHORITY                         | \$T              | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -                | -  | -               |

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2     | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|-------------------|--|-----------------|
|                   |            |  | Command, JES3     | OPERCMDS Resource, JES3  |                 |
| <b>B</b>          | PR PUN     | ISFATTR.PROPTS.BPAGE                           | -                 | -  | -               |
|                   |            |  | See note 3.       |  |                 |
| <b>BARRIER</b>    | INIT       | ISFATTR.INIT.BARRIER                           | -                 | -  | -               |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.G  | UPDATE          |
| <b>BLP</b>        | JC         | ISFATTR.JOBCL.BLP                              | \$T               | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>BUILDING</b>   | JDS        | ISFATTR.OUTDESC.BLDG                           | SSI               |  |                 |
|                   |            |  | SSI               |  |                 |
| <b>BURST</b>      | H O        | ISFATTR.OUTPUT.BURST                           | \$TO              | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
| <b>BURST</b>      | JDS J0     | ISFATTR.OUTPUT.BURST                           | -                 | -  | -               |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>C</b>          | H O        | ISFATTR.OUTPUT.CLASS                           | \$TO <sup>1</sup> | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
| <b>C</b>          | JDS J0     | ISFATTR.OUTPUT.CLASS                           | SSI <sup>1</sup>  |  |                 |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>C</b>          | I ST       | ISFATTR.JOB.CLASS                              | \$T               | <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU          | UPDATE          |
|                   |            |  | *F J              | <i>jesx</i> .MODIFY.JOB  | UPDATE          |
| <b>C</b>          | RDR        | ISFATTR.RDR.CLASS                              | \$T               | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -                 | -  | -               |
| <b>CC</b>         | JDS J0     | ISFATTR.OUTPUT.COPYCNT                         | SSI               |  |                 |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>CATEGORY</b>   | CK         | ISFATTR.CHECK.CATEGORY                         | F                 | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i>   | UPDATE          |
| <b>CB</b>         | PR         | ISFATTR.PROPTS.CB                              | -                 | -  | -               |
|                   |            |  | *S, *X            | See note 3.  |                 |
| <b>CCTL</b>       | PR PUN     | ISFATTR.PROPTS.CCTL                            | \$T               | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -                 | -  | -               |
| <b>CHARS</b>      | JDS J0     | ISFATTR.OUTPUT.CHARS                           | -                 | -  | -               |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>CHAR1-4</b>    | PR         | ISFATTR.PROPTS.CHAR                            | \$T               | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
| <b>CHAR1</b>      |            |  | See note 3.       |  |                 |

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2       | Required Access |
|-------------------|------------|--|---------------|-------------------------------|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3       |                 |
| <b>CKPTHOLD</b>   | MAS        | ISFATTR.MEMBER.CKPTHOLD                        | \$T           | <i>jesx</i> .MODIFY.MASDEF    | CONTROL         |
| <b>CKPTLINE</b>   | PR         | ISFATTR.PROPTS.CKPTLINE                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>CKPTLINE</b>   | PUN        | ISFATTR.PROPTS.CKPTLINE                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>CKPTMODE</b>   | PR         | ISFATTR.PROPTS.CKPTMODE                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>CKPTPAGE</b>   | PR         | ISFATTR.PROPTS.CKPTPAGE                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | See note 3.   |                               |                 |
| <b>CKPTPAGE</b>   | PUN        | ISFATTR.PROPTS.CKPTPAGE                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>CKPTSEC</b>    | PR         | ISFATTR.PROPTS.CKPTSEC                         | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | See note 3.   |                               |                 |
| <b>CLASSES</b>    | INIT       | ISFATTR.SELECT.JOBCLASS                        | \$T           | <i>jesx</i> .MODIFY.INITIATOR | CONTROL         |
|                   |            |  | -             | -                             | -               |
| <b>CLASS1-8</b>   | INIT       | ISFATTR.SELECT.JOBCLASS                        | \$T           | <i>jesx</i> .MODIFY.INITIATOR | CONTROL         |
|                   |            |  | -             | -                             | -               |
| <b>CMPCT</b>      | PR PUN     | ISFATTR.PROPTS.CMPCT                           | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>CODE</b>       | LI         | ISFATTR.LINE.CODE                              | \$T           | <i>jesx</i> .MODIFY.LINE      | CONTROL         |
|                   |            |  | -             | -                             | -               |
| <b>COLORMAP</b>   | JDS        | ISFATTR.OUTDESC.COLORMAP                       | SSI           |                               |                 |
|                   |            |  | SSI           |                               |                 |
| <b>COMMAND</b>    | JC         | ISFATTR.JOBCL.COMMAND                          | \$T           | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
| <b>COMP</b>       | LI         | ISFATTR.LINE.COMPRESS                          | \$T           | <i>jesx</i> .MODIFY.LINE      | CONTROL         |
|                   |            |  | -             | -                             | -               |
| <b>COMP</b>       | PR PUN     | ISFATTR.PROPTS.COMPRESS                        | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |
| <b>COMPACT</b>    | NC         | ISFATTR.NODE.COMPACT                           | \$T           | <i>jesx</i> .MODIFY.APPL      | CONTROL         |
|                   |            |  | -             | -                             | -               |
| <b>COMPACT</b>    | PR PUN     | ISFATTR.PROPTS.COMPACT                         | \$T           | <i>jesx</i> .MODIFY.DEV       | UPDATE          |
|                   |            |  | -             | -                             | -               |



Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| <b>COMSETUP</b>   | JDS        | ISFATTR.OUTDESC.COMSETUP                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| <b>CONNECT</b>    | LI         | ISFATTR.NETOPTS.CONNECT                        | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CONNECT</b>    | NC         | ISFATTR.NETOPTS.CONNECT                        | \$T           | <i>jesx</i> .MODIFY.APPL<br><i>jesx</i> .MODIFY.SOCKET<br><i>jesx</i> .MODIFY.LINE | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CONNECT</b>    | NO         | ISFATTR.NETOPTS.CONNECT                        | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CONN-INT</b>   | LI         | ISFATTR.NETOPTS.CTIME                          | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CONN-INT</b>   | NC         | ISFATTR.NETOPTS.CTIME                          | \$T           | <i>jesx</i> .MODIFY.APPL<br><i>jesx</i> .MODIFY.SOCKET<br><i>jesx</i> .MODIFY.LINE | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CONN-INT</b>   | NO         | ISFATTR.NETOPTS.CTIME                          | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>COPIES</b>     | PR PUN     | ISFATTR.PROPTS.COPIES                          | -             | -  | -               |
|                   |            |  | See note 3.   |  |                 |
| <b>COPYMARK</b>   | PR         | ISFATTR.PROPTS.COPYMARK                        | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | See note 3.   |  |                 |
| <b>CP</b>         | NO         | ISFATTR.NODE.COMPACT                           | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>CPR</b>        | JC         | ISFATTR.JOBCL.CONDPURG                         | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>CPY</b>        | JC         | ISFATTR.JOBCL.COPY                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>CPYMOD</b>     | JDS        | ISFATTR.OUTPUT.CPYMOD                          | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>CPYMOD</b>     | JO PR      | ISFATTR.PROPTS.CPYMOD                          | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | *S            | <i>jesx</i> .START.DEV. <i>device</i>  |                 |
| <b>CRTIME</b>     | SO         | ISFATTR.OFFLOAD.CRTIME                         | \$T           | <i>jesx</i> .MODIFY.OFFLOAD  | CONTROL         |
| <b>CTR</b>        | LI         | ISFATTR.PROPTS.CTRACE                          | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |

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The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field     | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2       | OPERCMDs Resource, JES2   | Required Access |
|-----------------------|------------|--|---------------------|---|-----------------|
|                       |            |  | Command, JES3       | OPERCMDs Resource, JES3   |                 |
| CTR                   | NC         | ISFATTR.PROPTS.CTRACE                          | \$T                 | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                       |            |  | *F                  | <i>jesx</i> .MODIFY.SOCKET  | UPDATE          |
| CTR                   | NS         | ISFATTR.PROPTS.CTRACE                          | \$T                 | <i>jesx</i> .MODIFY.NETSRV  | CONTROL         |
|                       |            |  | *F                  | <i>jesx</i> .MODIFY.NETSERV   |                 |
| DEBUG                 | CK         | ISFATTR.CHECK.DEBUG                            | F                   | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i>  | UPDATE          |
| DEFCOUNT              | INIT       | ISFATTR.INIT.DEFCNT                            | -                   | -   | -               |
|                       |            |  | *F                  | <i>jesx</i> .MODIFY.G   | UPDATE          |
| DEPARTMENT            | JDS        | ISFATTR.OUTDESC.DEPT                           | SSI                 |   |                 |
|                       |            |  | SSI                 |   |                 |
| DESC                  | JC         | ISFATTR.JOBCL.DESC                             | \$TJOBCLASS( ),DESC | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
| DEST                  | H O        | ISFATTR.OUTPUT.DEST                            | \$TOF <sup>1</sup>  | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT    | UPDATE          |
|                       |            |  | -                   | -   | -               |
| DEST                  | JDS J0     | ISFATTR.OUTPUT.DEST                            | SSI <sup>1</sup>    |   |                 |
|                       |            |  | *F                  | <i>jesx</i> .MODIFY.U   | UPDATE          |
| DEST (secondary JES2) | H          | ISFATTR.OUTPUT.DEST                            | \$O                 | <i>jesx</i> .RELEASE.BATOUT<br><i>jesx</i> .RELEASE.STCOUT<br><i>jesx</i> .RELEASE.TSUOUT | UPDATE          |
|                       |            |  | -                   | -   | -               |
| DFCB                  | PR         | ISFATTR.PROPTS.DEVFCB                          | \$T                 | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                       |            |  | -                   | -   | -               |
| DGRPY                 | PR PUN     | ISFATTR.PROPTS.DGRPY                           | -                   | -   | -               |
|                       |            |  | *F                  | <i>jesx</i> .MODIFY.W   | UPDATE          |
| DIRECT                | NO         | SFATTR.NODE,DIRECT                             | \$T                 | <i>jesx</i> .MODIFY.NODE  | CONTROL         |
|                       |            |  | -                   | -   | -               |
| DORMANCY              | MAS        | ISFATTR.MEMBER.DORMANCY                        | \$T                 | <i>jesx</i> .MODIFY.MASDEF  | CONTROL         |
| DSENQSHR              | JC         | ISFATTR.JOBCL.DSENQSHR                         | \$T                 | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
|                       |            |  | -                   | -   | -               |
| DSNAME                | SO         | ISFATTR.OFFLOAD.DATASET                        | \$T                 | <i>jesx</i> .MODIFY.OFFLOAD   | CONTROL         |

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

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When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| <b>DUPLEX</b>     | LI         | ISFATTR.LINE.DUPLEX                            | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>DYN</b>        | PR PUN     | ISFATTR.PROPTS.DYN                             | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.W  | UPDATE          |
| <b>EINTERVAL</b>  | CK         | ISFATTR.CHECK.EINTERVAL                        | F             | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i>   | UPDATE          |
| <b>END</b>        | NO         | ISFATTR.NODE.ENDNODE                           | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| <b>EXECNODE</b>   | I ST       | ISFATTR.JOB.EXECNODE                           | \$R           | <i>jesx</i> .ROUTE.JOBOUT  | UPDATE          |
|                   |            |  | -             | -  | -               |
| <b>FCB</b>        | H O        | ISFATTR.OUTPUT.FCB                             | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| <b>FCB</b>        | JDS JO     | ISFATTR.OUTPUT.FCB                             | -             | -  | -               |
|                   |            |  | *F U          | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>FCBL</b>       | PR         | ISFATTR.PROPTS.FCBLOAD                         | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| <b>FLASH</b>      | H O        | ISFATTR.OUTPUT.FLASH                           | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| <b>FLASH</b>      | JDS JO     | ISFATTR.OUTPUT.FLASH                           | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>FLS</b>        | PUN        | ISFATTR.PROPTS.FLUSH                           | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| <b>FORMDEF</b>    | JDS        | ISFATTR.OUTDESC.FORMDEF                        | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| <b>FORMLEN</b>    | JDS        | ISFATTR.OUTDESC.FORMLEN                        | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| <b>FORMS</b>      | H O        | ISFATTR.OUTPUT.FORMS                           | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2         | OPERCMDS Resource, JES2                  | Required Access |
|-------------------|------------|--|-----------------------|--|-----------------|
|                   |            |  | Command, JES3         | OPERCMDS Resource, JES3                  |                 |
| <b>FORMS</b>      | JDS J0     | ISFATTR.OUTPUT.FORMS                           | SSI                   |  |                 |
|                   |            |  | *F U                  | <i>jesx</i> .MODIFY.U                    | UPDATE          |
| <b>FSATRACE</b>   | PR         | ISFATTR.PROPTS.FSATRACE                        | \$T                   | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -                     | -  | -               |
| <b>FSSNAME</b>    | PR         | ISFATTR.PROPTS.FSSNAME                         | F                     | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -                     | -  | -               |
| <b>GDGBIAS</b>    | JC         | ISFATTR.JOBCL.GDGBIAS                          | \$TJOBCLASS, GDGBIAS= | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| <b>GROUP</b>      | INIT       | ISFATTR.INIT.GROUP                             | -                     | -  | -               |
|                   |            |  | *F                    | <i>jesx</i> .MODIFY.C                    | UPDATE          |
| <b>GROUP</b>      | JC         | ISFATTR.JOBCL.GROUP                            | \$T                   | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| <b>HOLD</b>       | JC         | ISFATTR.JOBCL.HOLD                             | \$T                   | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| <b>HOLD</b>       | RDR        | ISFATTR.RDR.HOLD                               | \$T                   | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -                     | -  | -               |
| <b>HONORTRC</b>   | PR         | ISFATTR.PROPTS.HONORTRC                        | \$T                   | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -                     | -  | -               |
| <b>INTERVAL</b>   | CK         | ISFATTR.CHECK.INTERVAL                         | F                     | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i> | UPDATE          |
| <b>INTF</b>       | LI         | ISFATTR.LINE.INTERFACE                         | \$T                   | <i>jesx</i> .MODIFY.LINE                 | CONTROL         |
|                   |            |  | -                     | -  | -               |
| <b>INTIDS</b>     | EMCS       | ISFATTR.EMCS.INTIDS                            | V CN(), INTIDS=       | MVS.VARY.CN                              | UPDATE          |
| <b>IPDEST</b>     | JDS        | ISFATTR.OUTDESC.IPDEST                         | SSI                   |  |                 |
|                   |            |  | SSI                   |  |                 |
| <b>IPNAME</b>     | NC         | ISFATTR.NETOPTS.IPNAME                         | \$T                   | <i>jesx</i> .MODIFY.SOCKET               | CONTROL         |
|                   |            |  | *F                    | <i>jesx</i> .MODIFY.SOCKET               | UPDATE          |
| <b>IPNAME</b>     | NS         | ISFATTR.NETOPTS.IPNAME                         | \$T                   | <i>jesx</i> .MODIFY.SOCKET               | CONTROL         |
|                   |            |  | *F                    | <i>jesx</i> .MODIFY.NETSERV              | UPDATE          |
| <b>ITY</b>        | JDS        | ISFATTR.OUTDESC.INTRAY                         | SSI                   |  |                 |
|                   |            |  | SSI                   |  |                 |
| <b>JCLIM</b>      | JC         | ISFATTR.JOBCL.JCLIM                            | \$T                   | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| <b>JESCANCEL</b>  | JC         | ISFATTR.JOBCL.JESCANCEL                        | \$T                   | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDs Resource, JES2   | Required Access |
|-------------------|------------|--|---------------|---|-----------------|
|                   |            |  | Command, JES3 | OPERCMDs Resource, JES3   |                 |
| JESCANCEL         | I ST       | ISFATTR.JOB.JESCANCEL                          | \$T           | <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU | UPDATE          |
| JESLOG            | JC         | ISFATTR.JOBCL.JESLOG                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.C   | UPDATE          |
| JOBRC             | JC         | ISFATTR.JOBCL.JOBRC                            | \$T           | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
|                   |            |  | -             | -   | -               |
| JRNL              | JC         | ISFATTR.JOBCL.JOURNAL                          | \$T           | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
| JRUNM             | LI         | ISFATTR.LINE.JRUNM                             | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| JRUNM             | NO         | ISFATTR.NODE.JRUNM                             | -             | -   | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE   | UPDATE          |
| JTNUM             | LI         | ISFATTR.LINE.JTNUM                             | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| JTNUM             | NO         | ISFATTR.NODE.JTNUM                             | -             | -   | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE   | UPDATE          |
| JTR               | LI         | ISFATTR.PROPTS.JTRACE                          | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| JTR               | NC         | ISFATTR.PROPTS.JTRACE                          | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.SOCKET  | UPDATE          |
| JTR               | NS         | ISFATTR.PROPTS.JTRACE                          | \$T           | <i>jesx</i> .MODIFY.NETSRV  | CONTROL         |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NETSERV   | UPDATE          |
| K                 | PR         | ISFATTR.PROPTS.SPACE                           | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | -             | -   | -               |
| LABEL             | SO         | ISFATTR.OFFLOAD.LABEL                          | \$T           | <i>jesx</i> .MODIFY.OFFLOAD   | CONTROL         |
| LIMIT             | RM         | ISFATTR.RESMON.LIMIT                           | \$T           | <i>jesx</i> .MODIFY.resource <sup>2</sup>                                     | CONTROL         |
| LIMIT%            | JRJC       | ISFATTR.JOBCL.LIMITPCT                         | \$T JOBCLASS  | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
| LINE              | NC         | ISFATTR.NODE.LINE                              | \$T           | <i>jesx</i> .MODIFY.APPL<br><i>jesx</i> .MODIFY.SOCKET                        | CONTROL         |
|                   |            |  | -             | -   | -               |
| LINE              | NO         | ISFATTR.NODE.LINE                              | \$T           | <i>jesx</i> .MODIFY.NODE  | CONTROL         |
|                   |            |  | -             | -   | -               |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2      | Required Access |
|-------------------|------------|--|---------------|------------------------------|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3      |                 |
| LINECCHR          | LI         | ISFATTR.LINE.LINECCHR                          | \$T           | <i>jesx</i> .MODIFY.LINE     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LINE-LIMIT        | LI NC      | ISFATTR.SELECT.LIM                             | \$T           | <i>jesx</i> .MODIFY.L        | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LINE-LIMIT        | PR         | ISFATTR.SELECT.LIM                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -             | -                            | -               |
| LINE-LIMIT        | PUN        | ISFATTR.SELECT.LIM                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -             | -                            | -               |
| LINE-LIMIT        | SO         | ISFATTR.SELECT.LIM                             | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| LINE-LIM-HI       | PR PUN     | ISFATTR.SELECT.LIM                             | -             | -                            | -               |
|                   |            |  | See note 3.   |                              |                 |
| LINE-LIM-LOW      | PR PUN     | ISFATTR.SELECT.LIM                             | -             | -                            | -               |
|                   |            |  | See note 3.   |                              |                 |
| LOG               | LI         | ISFATTR.LINE.LOG                               | \$T           | <i>jesx</i> .MODIFY.LINE     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LOG               | JC         | ISFATTR.JOBCL.JLOG                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.C        | UPDATE          |
| LOG               | NS         | ISFATTR.NETOPTS.LOG                            | \$T           | <i>jesx</i> .MODIFY.LOGON    | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LOGMODE           | NC         | ISFATTR.NODE.LOGMODE                           | \$T           | <i>jesx</i> .MODIFY.APPL     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LOGMODE           | NO         | ISFATTR.NODE.LOGMODE                           | \$T           | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LOGON             | NC         | ISFATTR.NETOPTS.LOGON                          | \$T           | <i>jesx</i> .MODIFY.APPL     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LOGON             | NO         | ISFATTR.NODE.LOGON                             | \$T           | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                   |            |  | -             | -                            | -               |
| LRECL             | PUN        | ISFATTR.PROPTS.LRECL                           | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -             | -                            | -               |
| M                 | PR         | ISFATTR.PROPTS.MARK                            | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -             | -                            | -               |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2      | Required Access |
|-------------------|------------|--|---------------|------------------------------|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3      |                 |
| MAILBCC           | JDS        | ISFATTR.OUTDESC.MAILBCC                        | SSI           |                              |                 |
|                   |            |  | SSI           |                              |                 |
| MAILCC            | JDS        | ISFATTR.OUTDESC.MAILCC                         | SSI           |                              |                 |
|                   |            |  | SSI           |                              |                 |
| MAILFILE          | JDS        | ISFATTR.OUTDESC.MAILFILE                       | SSI           |                              |                 |
|                   |            |  | SSI           |                              |                 |
| MAILFROM          | JDS        | ISFATTR.OUTDESC.MAILFROM                       | SSI           |                              |                 |
|                   |            |  | SSI           |                              |                 |
| MAILTO            | JDS        | ISFATTR.OUTDESC.MAILTO                         | SSI           |                              |                 |
|                   |            |  | SSI           |                              |                 |
| MAX-TIME          | JC         | ISFATTR.JOBCL.TIME                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| MAXRETRIES        | NO         | ISFATTR.NODE.MAXRETR                           | -             | -                            | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE      | UPDATE          |
| MBURST            | SO         | ISFATTR.MODIFY.BURST                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MC                | RDR        | ISFATTR.RDR.MCLASS                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -             | -                            | -               |
| MC                | JC         | ISFATTR.JOBCL.MSGCLASS                         | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| MCLASS            | SO         | ISFATTR.MODIFY.CLASS                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MDEST             | SO         | ISFATTR.MODIFY.DEST                            | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MFCB              | SO         | ISFATTR.MODIFY.FCB                             | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MFLH              | SO         | ISFATTR.MODIFY.FLASH                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MFORMS            | SO         | ISFATTR.MODIFY.FORMS                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MHOLD             | SO         | ISFATTR.MODIFY.HOLD                            | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MINPCT            | SP         | ISFATTR.SPOOL.MINPCT                           | -             | -                            | -               |
|                   |            |  | *F Q          | <i>jesx</i> .MODIFY.Q        | UPDATE          |
| MODE              | INIT       | ISFATTR.INIT.MODE                              | -             | -                            | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.G        | UPDATE          |
| MODE              | JC         | ISFATTR.JOBCL.MODE                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| MODE              | PR         | ISFATTR.PRPOPTS.MODE                           | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.F        |                 |
| MODSP             | SO         | ISFATTR.MODIFY.ODISP                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| MPRMODE           | SO         | ISFATTR.MODIFY.PRMODE                          | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2                  | OPERCMDS Resource, JES2      | Required Access |
|-------------------|------------|--|--------------------------------|------------------------------|-----------------|
|                   |            |  | Command, JES3                  | OPERCMDS Resource, JES3      |                 |
| <b>MSAFF</b>      | SO         | ISFATTR.MODIFY.SYSAFF                          | \$T                            | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>MSCOPE</b>     | EMCS       | ISFATTR.EMCS.MSCOPE                            | V CN(),<br>MSCOPE=             | MVS.VARY.CN                  | UPDATE          |
| <b>MSGLV</b>      | JC         | ISFATTR.JOBCL.MSGLEVEL                         | \$T                            | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| <b>MUCS</b>       | SO         | ISFATTR.MODIFY.UCS                             | \$T                            | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>MWRITER</b>    | SO         | ISFATTR.MODIFY.WRITER                          | \$T                            | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>NAME</b>       | JDS        | ISFATTR.OUTDESC.NAME                           | SSI                            |                              |                 |
|                   |            |  | SSI                            |                              |                 |
| <b>NSECURE</b>    | NS         | ISFATTR.NETOPTS.NSECURE                        | \$TNETSRV,<br>SECURE=          | <i>jesx</i> .MODIFY.NETSRV   | CONTROL         |
| <b>NETSRV</b>     | NC         | ISFATTR.NETOPTS.NETSRV                         | \$T                            | <i>jesx</i> .MODIFY.SOCKET   | CONTROL         |
|                   |            |  | -                              | -                            | -               |
| <b>NETSRV</b>     | NO         | ISFATTR.NODE.NETSRV                            | \$T                            | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                   |            |  | -                              | -                            | -               |
| <b>NEWPAGE</b>    | PR         | ISFATTR.PROPTS.NEWPAGE                         | \$T                            | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | -                              | -                            | -               |
| <b>NHOLD</b>      | NO         | ISFATTR.NODE.NETHOLD                           | -                              | -                            | -               |
|                   |            |  | *F                             | <i>jesx</i> .MODIFY.NJE      | UPDATE          |
| <b>NODE</b>       | LI         | ISFATTR.LINE.NODE                              | \$SN                           | <i>jesx</i> .START.NET       | CONTROL         |
|                   |            |  | *X                             | <i>jesx</i> .CALL.NJE        | UPDATE          |
| <b>NODENAME</b>   | NO         | ISFATTR.NODE.NODENAME                          | \$T                            | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                   |            |  | -                              | -                            | -               |
| <b>NOTIFY</b>     | JDS        | ISFATTR.OUTDESC.NOTIFY                         | SSI                            |                              |                 |
|                   |            |  | SSI                            |                              |                 |
| <b>NOTIFY</b>     | SO         | ISFATTR.OFFLOAD.NOTIFY                         | \$T                            | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>NPRO</b>       | PR         | ISFATTR.PROPTS.NPRO                            | \$T                            | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                   |            |  | See note 3.                    |                              |                 |
| <b>NUMVALUE</b>   | OMVS       | ISFATTR.OMVS.VALUE                             | SETOMVS<br><i>optionname</i> = | MVS.SETOMVS.OMVS             | UPDATE          |
| <b>OCOPYCNT</b>   | JDS        | SFATTR.OUTDESC.OCOPYCNT                        | SSI                            |                              |                 |
|                   |            |  | SSI                            |                              |                 |
| <b>ODISP</b>      | JC         | ISFATTR.JOBCL.ODISP                            | \$T                            | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |



Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| ODISP             | H JDS O    | ISFATTR.OUTPUT.ODISP                           | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| OFFSETXB          | JDS        | ISFATTR.OUTDESC.OFFSETXB                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OFFSETXF          | JDS        | ISFATTR.OUTDESC.OFFSETXF                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OFFSETYB          | JDS        | ISFATTR.OUTDESC.OFFSETYB                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OFFSETYF          | JDS        | ISFATTR.OUTDESC.OFFSETYF                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OPLOG             | PR         | ISFATTR.PROPTS.OPACTLOG                        | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.W  | UPDATE          |
| OUT               | JC         | ISFATTR.JOBCL.OUTPUT                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| OUTBN             | JDS        | ISFATTR.OUTDESC.OUTBIN                         | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OVERFNAM          | SP         | ISFATTR.SPOOL.OVFNAME                          | -             | -  | -               |
|                   |            |  | *F Q          | <i>jesx</i> .MODIFY.Q  | UPDATE          |
| OVERLAYB          | JDS        | ISFATTR.OUTDESC.OVERLAYB                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| OVERLAYF          | JDS        | ISFATTR.OUTDESC.OVERLAYF                       | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| PAGEDEF           | JDS        | ISFATTR.OUTDESC.PAGEDEF                        | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| PAGE-LIMIT        | LI NC      | ISFATTR.SELECT.PLIM                            | \$T           | <i>jesx</i> .MODIFY.L  | CONTROL         |
|                   |            |  | -             | -  | -               |
| PAGE-LIMIT        | PR         | ISFATTR.SELECT.PLIM                            | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PAGE-LIMIT        | SO         | ISFATTR.SELECT.PLIM                            | \$T           | <i>jesx</i> .MODIFY.OFF  | CONTROL         |
| PAGE-LIM-HI       | PR         | ISFATTR.SELECT.PLIM                            | -             | -  | -               |
|                   |            |  | See note 3.   |  |                 |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2                  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3                  |                 |
| PAGE-LIM-LOW      | PR         | ISFATTR.SELECT.PLIM                            | -             | -  | -               |
|                   |            |  | See note 3.   |  |                 |
| PARAMETERS        | CK         | ISFATTR.CHECK.PARM                             | F             | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i> | UPDATE          |
| PARTNAME          | JC         | ISFATTR.JOBCL.PARTNAME                         | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.C                    | UPDATE          |
| PARTNAME          | JP         | ISFATTR.SPOOL.SPARN                            | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.G                    | UPDATE          |
| PARTNAME          | NO         | ISFATTR.NODE.PARTNAM                           | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE                  | UPDATE          |
| PARTNAME          | SP         | ISFATTR.SPOOL.PARTNAME                         | -             | -  | -               |
|                   |            |  | *F Q          | <i>jesx</i> .MODIFY.Q                    | UPDATE          |
| PASSWORD          | LI         | ISFATTR.LINE.PASSWORD                          | \$T           | <i>jesx</i> .MODIFY.LINE                 | CONTROL         |
|                   |            |  | -             | -  | -               |
| PASSWORD          | NS         | ISFATTR.LOGON.PASSWORD                         | \$T           | <i>jesx</i> .MODIFY.LOGON                | CONTROL         |
|                   |            |  | -             | -  | -               |
| PATH              | NO         | ISFATTR.NODE.PATH                              | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE                  | UPDATE          |
| PAU               | PR PUN     | ISFATTR.PROPTS.PAUSE                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PDEFAULT          | PR         | ISFATTR.PROPTS.PDEFAULT                        | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.F                    | CONTROL         |
| PEN               | NO         | ISFATTR.NODE.PENCRYPT                          | \$T           | <i>jesx</i> .MODIFY.NODE                 | CONTROL         |
|                   |            |  | -             | -  | -               |
| PGN               | DA         | ISFATTR.JOB.PGN                                | RESET         | MVS.RESET                                | UPDATE          |
| PGN               | JC         | ISFATTR.JOBCL.PGN                              | \$T           | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| PGNM              | JC         | ISFATTR.JOBCL.PGMRNAME                         | \$T           | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |
| PI                | RDR        | ISFATTR.RDR.PRIOINC                            | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PL                | RDR        | ISFATTR.RDR.PRIO LIM                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PL                | JC         | ISFATTR.JOBCL.PROCLIB                          | \$T           | <i>jesx</i> .MODIFY.JOBCLASS             | CONTROL         |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2          | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|------------------------|--|-----------------|
|                   |            |  | Command, JES3          | OPERCMDS Resource, JES3  |                 |
| <b>PROCNAME</b>   | JC         | ISFATTR.JOBCL.PROCLIB                          | \$T                    | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>PMG</b>        | NO         | ISFATTR.NODE.PATHMGR                           | \$T                    | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -                      | -  | -               |
| <b>PORT</b>       | JDS        | ISFATTR.OUTDESC.PORTNO                         | SSI                    |  |                 |
|                   |            |  | SSI                    |  |                 |
| <b>PORT</b>       | NC         | ISFATTR.NETOPTS.PORT                           | \$T                    | <i>jesx</i> .MODIFY.SOCKET   | CONTROL         |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.SOCKET   | UPDATE          |
| <b>PORT</b>       | NS         | ISFATTR.NETOPTS.PORT                           | \$T                    | <i>jesx</i> .MODIFY.SOCKET   | CONTROL         |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.NETSERV  | UPDATE          |
| <b>PRINTO</b>     | JDS        | ISFATTR.OUTDESC.PRINTO                         | SSI                    |  |                 |
|                   |            |  | SSI                    |  |                 |
| <b>PRINTQ</b>     | JDS        | ISFATTR.OUTDESC.PRINTQ                         | SSI                    |  |                 |
|                   |            |  | SSI                    |  |                 |
| <b>PRMODE</b>     | JDS JO     | ISFATTR.OUTPUT.PRMODE                          | -                      | -  | -               |
|                   |            |  | *F U                   | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>PRMODE</b>     | H O        | ISFATTR.OUTPUT.PRMODE                          | \$TO                   | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -                      | -  | -               |
| <b>PRMODE</b>     | JDS        | ISFATTR.OUTPUT.PRMODE                          | -                      | -  | -               |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.U  | UPDATE          |
| <b>PROMORT</b>    | JC         | ISFATTR.JOBCL.PROMORATE                        | \$TJOBCLASS,<br>PROMO= | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| <b>PROT</b>       | SO         | ISFATTR.OFFLOAD.PROTECT                        | \$T                    | <i>jesx</i> .MODIFY.OFFLOAD  | CONTROL         |
| <b>PRTDEF</b>     | NO         | ISFATTR.NODE.PRTDEF                            | -                      | -  | -               |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.NJE  | UPDATE          |
| <b>PRTDEST</b>    | I ST       | ISFATTR.JOB.PRTDEST                            | \$R                    | <i>jesx</i> .ROUTE.JOBOUT  | UPDATE          |
| <b>PRTDEST</b>    | RDR        | ISFATTR.RDR.PRTDEST                            | \$T                    | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -                      | -  | -               |
| <b>PRTTSO</b>     | NO         | ISFATTR.NODE.PRTTSO                            | -                      | -  | -               |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.NJE  | UPDATE          |
| <b>PRTXWTR</b>    | NO         | ISFATTR.NODE.PRTXWTR                           | -                      | -  | -               |
|                   |            |  | *F                     | <i>jesx</i> .MODIFY.NJE  | UPDATE          |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| PRTY              | I ST       | ISFATTR.JOB.PRTY                               | \$T           | <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU          | UPDATE          |
|                   |            |  | *F J,P        | <i>jesx</i> .MODIFY.JOBP   | UPDATE          |
| PRTY              | H O        | ISFATTR.OUTPUT.PRTY                            | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| PRV               | NO         | ISFATTR.NODE.PRIVATE                           | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
| PSEL              | PR         | ISFATTR.PROPTS.PRESELCT                        | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PTYPE             | NO         | ISFATTR.NODE.PTYPE                             | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE  | UPDATE          |
| PUNDEF            | NO         | ISFATTR.NODE.PUNDEF                            | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE  | UPDATE          |
| PUNDEST           | RDR        | ISFATTR.RDR.PUNDEST                            | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| PWCNTL            | NO         | ISFATTR.NODE.PWCNTL                            | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE  | UPDATE          |
| QAFF              | JC         | ISFATTR.JOBCL.QAFF                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | ALTER           |
| QHLD              | JC         | ISFATTR.JOBCL.QHELD                            | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| QUIESCE           | DA         | ISFATTR.JOB.QUIESCE                            | RESET         | MVS.RESET  | UPDATE          |
| RECV              | NO         | ISFATTR.NODE.RECEIVE                           | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| REGION            | JC         | ISFATTR.JOBCL.REGION                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| RES               | SP         | ISFATTR.SPOOL.RESERVED                         | \$T           | <i>jesx</i> .MODIFY.SPOOL  | CONTROL         |
|                   |            |  | -             | -  | -               |
| REST              | LI         | ISFATTR.LINE.REST                              | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| REST              | NC         | ISFATTR.LINE.REST                              | \$T           | <i>jesx</i> .MODIFY.APPL<br><i>jesx</i> .MODIFY.SOCKET                                 | CONTROL         |
|                   |            |  | -             | -  | -               |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2   | Required Access |
|-------------------|------------|--|---------------|---|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3   |                 |
| REST              | NO         | ISFATTR.NODE.REST                              | \$T           | <i>jesx</i> .MODIFY.NODE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| RESTART           | LI         | ISFATTR.PROPTS.RESTART                         | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| RESTART           | NS         | ISFATTR.PROPTS.RESTART                         | \$T           | <i>jesx</i> .MODIFY.LOGON<br><i>jesx</i> .MODIFY.NETSRV                       | CONTROL         |
|                   |            |  | -             | -   | -               |
| REST-INT          | LI         | ISFATTR.PROPTS.RTIME                           | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| REST-INT          | NS         | ISFATTR.PROPTS.RTIME                           | \$T           | <i>jesx</i> .MODIFY.LOGON<br><i>jesx</i> .MODIFY.NETSRV                       | CONTROL         |
|                   |            |  | -             | -   | -               |
| RETAINF           | JDS        | ISFATTR.OUTDESC.RETAINF                        | SSI           |   |                 |
|                   |            |  | SSI           |   |                 |
| RETAINS           | JDS        | ISFATTR.OUTDESC.RETAINS                        | SSI           |   |                 |
|                   |            |  | SSI           |   |                 |
| RETRYL            | JDS        | ISFATTR.OUTDESC.RETRYL                         | SSI           |   |                 |
|                   |            |  | SSI           |   |                 |
| RETRYT            | JDS        | ISFATTR.OUTDESC.RETRYT                         | SSI           |   |                 |
|                   |            |  | SSI           |   |                 |
| REXXHLQ           | CK         | ISFATTR.CHECK.REXXHLQ                          | MODIFY        | MVS.MODIFY.STC. <i>hcproc</i> .<br><i>hcstcid</i>                             | UPDATE          |
|                   |            |  | MODIFY        | MVS.MODIFY.STC. <i>hcproc</i> .<br><i>hcstcid</i>                             | UPDATE          |
| ROUTCDE           | EMCS       | ISFATTR.EMCS.ROUTCDE                           | V CN(),ROUT   | MVS.VARY.CN   | UPDATE          |
| RST               |            | ISFATTR.JOBCL.RESTART                          | \$T           | <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         |
| RTPD              | SO         | ISFATTR.OFFLOAD.RETENT                         | \$T           | <i>jesx</i> .MODIFY.OFFLOAD   | CONTROL         |
| ROOM              | JDS        | ISFATTR.OUTDESC.ROOM                           | SSI           |   |                 |
|                   |            |  | SSI           |   |                 |
| SAFF              | I ST       | ISFATTR.JOB.SYSAFF                             | \$T           | <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU | UPDATE          |
| SAFF              | JG         | ISFATTR.JOBGROUP.SYSAFF                        | \$T           | <i>jesx</i> .MODIFY.GROUP   | UPDATE          |

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(continued)

| Overtypable Field      | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2      | Required Access |
|------------------------|------------|--|---------------|------------------------------|-----------------|
|                        |            |  | Command, JES3 | OPERCMDS Resource, JES3      |                 |
| <b>SAFF</b>            | SP         | ISFATTR.SPOOL.SYSAFF                           | \$T           | <i>jesx</i> .MODIFY.SPOOL    | CONTROL         |
| <b>SAFF1</b>           | RDR        | ISFATTR.RDR.SYSAFF                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | -             | -                            | -               |
| <b>SBURST</b>          | PR         | ISFATTR.SELECT.BURST                           | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | *S, *X        | See note 3.                  |                 |
| <b>SBURST</b>          | SO         | ISFATTR.SELECT.BURST                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SCHEDULING -ENV</b> | JC         | ISFATTR.JOBCL.SCHENV                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| <b>SCHEDULING -ENV</b> | I ST       | ISFATTR.JOB.SCHENV                             | \$T           | <i>jesx</i> .MODIFY.BAT      | UPDATE          |
| <b>SCHEDULING -ENV</b> | JG         | ISFATTR.JOBGROUP.SCHENV                        | \$T           | <i>jesx</i> .MODIFY.GROUP    | UPDATE          |
| <b>SCLASS</b>          | PR PUN     | ISFATTR.SELECT.CLASS                           | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | See note 3.   |                              |                 |
| <b>SCLASS</b>          | SO         | ISFATTR.SELECT.CLASS                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SCLASS1-8</b>       | SO         | ISFATTR.SELECT.CLASS                           | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SCN</b>             | JC         | ISFATTR.JOBCL.SCAN                             | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| <b>SDEPTH</b>          | JC         | ISFATTR.JOBCL.SDEPTH                           | -             | -                            | -               |
|                        |            |  | *F            | <i>jesx</i> .MODIFY.C        | UPDATE          |
| <b>SDEST1</b>          | PR         | ISFATTR.SELECT.DEST                            | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | -             | -                            | -               |
| <b>SDEST1</b>          | PUN        | ISFATTR.SELECT.DEST                            | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | -             | -                            | -               |
| <b>SDEST1</b>          | SO         | ISFATTR.SELECT.DEST                            | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SDISP</b>           | SO         | ISFATTR.SELECT.DISP                            | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SECURE</b>          | NO         | ISFATTR.NETOPTS.SECURE                         | -             | -                            | -               |
|                        |            |  | *F            | <i>jesx</i> .MODIFY.NJE      | UPDATE          |
| <b>SECURE</b>          | NS         | ISFATTR.NETOPTS.SECURE                         | \$T           | <i>jesx</i> .MODIFY.SOCKET   | CONTROL         |
|                        |            |  | -             | -                            | -               |
| <b>SECURE</b>          | NC         | ISFATTR.NETOPTS.SECURE                         | \$T           | <i>jesx</i> .MODIFY.SOCKET   | CONTROL         |
|                        |            |  | -             | -                            | -               |
| <b>SELECT</b>          | PR PUN     | ISFATTR.PROPTS.SELECT                          | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                        |            |  | -             | -                            | -               |

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field      | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2                  | Required Access |
|------------------------|------------|--|---------------|--|-----------------|
|                        |            |  | Command, JES3 | OPERCMDS Resource, JES3                  |                 |
| <b>SELECTMODE NAME</b> | JP         | ISFATTR.MEMBER.SELMNAME                        | -             | -  | -               |
|                        |            |  | *F            | <i>jesx</i> .MODIFY.G                    | UPDATE          |
| <b>SENDP</b>           | NO         | ISFATTR.NODE.SENDP                             | \$T           | <i>jesx</i> .MODIFY.NODE                 | CONTROL         |
|                        |            |  | -             | -  | -               |
| <b>SENTRS</b>          | NO         | ISFATTR.NODE.SENTREST                          | \$T           | <i>jesx</i> .MODIFY.NODE                 | CONTROL         |
|                        |            |  | -             | -  | -               |
| <b>SEP</b>             | PR         | ISFATTR.PROPTS.SEP                             | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | -             | -  | -               |
| <b>SEP</b>             | PUN        | ISFATTR.PROPTS.SEP                             | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | -             | -  | -               |
| <b>SEPCHAR</b>         | PR         | ISFATTR.PROPTS.SEPCHARS                        | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | -             | -  | -               |
| <b>SEPDS</b>           | PR PUN RDR | ISFATTR.PROPTS.SEPDS                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | See note 3.   |  |                 |
| <b>SETUP</b>           | PR PUN     | ISFATTR.PROPTS.SETUP                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | *F            | <i>jesx</i> .MODIFY.W                    |                 |
| <b>SETUP</b>           | PUN        | ISFATTR.PROPTS.SETUP                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | -             | -  | -               |
| <b>SEVERITY</b>        | CK         | ISFATTR.CHECK.SEVERITY                         | F             | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i> | UPDATE          |
| <b>SFCB</b>            | PR         | ISFATTR.SELECT.FCB                             | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | See note 3.   |  |                 |
| <b>SFCB</b>            | SO         | ISFATTR.SELECT.FCB                             | \$T           | <i>jesx</i> .MODIFY.OFF                  | CONTROL         |
| <b>SFLH</b>            | SO         | ISFATTR.SELECT.FLASH                           | \$T           | <i>jesx</i> .MODIFY.OFF                  | CONTROL         |
| <b>SFLH</b>            | PR         | ISFATTR.SELECT.FLASH                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | *R, *S        | See note 3.                              |                 |
| <b>SFORMS</b>          | PR PUN     | ISFATTR.SELECT.FORMS                           | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | See note 3.   |  |                 |
| <b>SFORMS</b>          | SO         | ISFATTR.SELECT.FORMS                           | \$T           | <i>jesx</i> .MODIFY.OFF                  | CONTROL         |
| <b>SHOLD</b>           | SO         | ISFATTR.SELECT.HOLD                            | \$T           | <i>jesx</i> .MODIFY.OFF                  | CONTROL         |
| <b>SJOBNAME</b>        | PR PUN     | ISFATTR.SELECT.JOBNAME                         | \$T           | <i>jesx</i> .MODIFY.DEV                  | UPDATE          |
|                        |            |  | -             | -  | -               |

Table 297. Overtypable Fields.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

When a set of related fields can be overtyped with the Overtyping Extension pop-up, all of the fields in the set are protected by the same resource.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2   | Required Access |
|-------------------|------------|--|---------------|---|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3   |                 |
| <b>SJOBNAME</b>   | SO         | ISFATTR.SELECT.JOBNAME                         | \$T           | <i>jesx</i> .MODIFY.OFF   | CONTROL         |
| <b>SOCKET</b>     | NS         | ISFATTR.NETOPTS.SOCKET                         | \$T           | <i>jesx</i> .MODIFY.NETSRV  | CONTROL         |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NETSERV   | UPDATE          |
| <b>SODSP</b>      | LI         | ISFATTR.SELECT.ODISP                           | \$T           | <i>jesx</i> .MODIFY.L   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SODSP</b>      | NC         | ISFATTR.SELECT.ODISP                           | \$T           | <i>jesx</i> .MODIFY.L   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SODSP</b>      | SO         | ISFATTR.SELECT.ODISP                           | \$T           | <i>jesx</i> .MODIFY.OFF   | UPDATE          |
| <b>SOWNER</b>     | PR         | ISFATTR.SELECT.OWNER                           | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SOWNER</b>     | PUN        | ISFATTR.SELECT.OWNER                           | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SOWNER</b>     | SO         | ISFATTR.SELECT.OWNER                           | \$T           | <i>jesx</i> .MODIFY.OFF   | CONTROL         |
| <b>SPEED</b>      | LI         | ISFATTR.LINE.SPEED                             | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| <b>SPRMODE1</b>   | SO         | ISFATTR.SELECT.PRMODE                          | \$T           | <i>jesx</i> .MODIFY.OFF   | CONTROL         |
| <b>SPRMODE1</b>   | PR PUN RDR | ISFATTR.SELECT.PRMODE                          | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | See note 3.   |   |                 |
| <b>SRANGE</b>     | PR         | ISFATTR.SELECT.RANGE                           | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SRANGE</b>     | PUN        | ISFATTR.SELECT.RANGE                           | \$T           | <i>jesx</i> .MODIFY.DEV   | UPDATE          |
|                   |            |  | -             | -   | -               |
| <b>SRANGE</b>     | SO         | ISFATTR.SELECT.RANGE                           | \$T           | <i>jesx</i> .MODIFY.OFF   | CONTROL         |
| <b>SRNUM</b>      | LI         | ISFATTR.LINE.SRNUM                             | \$T           | <i>jesx</i> .MODIFY.LINE  | CONTROL         |
|                   |            |  | -             | -   | -               |
| <b>SRNUM</b>      | NO         | ISFATTR.NODE.SRNUM                             | -             | -   | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.NJE   | UPDATE          |
| <b>SRVCLASS</b>   | DA         | ISFATTR.JOB.SRVCLASS                           | RESET         | MVS.RESET   | UPDATE          |
| <b>SRVCLASS</b>   | I ST       | ISFATTR.JOB.SRVCLS                             | \$T           | <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU | CONTROL         |
|                   |            |  | *F J          | <i>jesx</i> .MODIFY.JOB   | UPDATE          |



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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

When an overtypeable field does not apply in a particular JES environment, the command and OPERCMDS resource are shown as a hyphen (-).

(continued)

| Overtypable Field       | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2      | Required Access |
|-------------------------|------------|--|---------------|------------------------------|-----------------|
|                         |            |  | Command, JES3 | OPERCMDS Resource, JES3      |                 |
| <b>SRVCLASS</b>         | ENC        | ISFATTR.ENCLAVE.SRVCLASS                       |               |                              |                 |
| <b>SRVNAME</b>          | NC         | ISFATTR.NETOPTS.NETSRV                         | -             | -                            | -               |
|                         |            |  | *F            | <i>jesx</i> .MODIFY.SOCKET   | UPDATE          |
| <b>SSAFF</b>            | SO         | ISFATTR.SELECT.SYSAFF                          | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SSCHEDULING -ENV</b> | SO         | ISFATTR.SELECT.SCHENV                          | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SSRVCLASS</b>        | SO         | ISFATTR.SELECT.SRVCLS                          | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SSIGNON</b>          | NO         | ISFATTR.NODE.SSIGNON                           | \$T           | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                         |            |  | *F            | <i>jesx</i> .MODIFY.NJE      | UPDATE          |
| <b>STACK</b>            | NS         | ISFATTR.NETOPTS.STACK                          | \$T           | <i>jesx</i> .MODIFY.NETSRV   | CONTROL         |
|                         |            |  | *F            | <i>jesx</i> .MODIFY.NETSERV  |                 |
| <b>STNUM</b>            | LI         | ISFATTR.LINE.STNUM                             | \$T           | <i>jesx</i> .MODIFY.LINE     | CONTROL         |
|                         |            |  | -             | -                            | -               |
| <b>SUBNET</b>           | NO         | ISFATTR.NODE.SUBNET                            | \$T           | <i>jesx</i> .MODIFY.NODE     | CONTROL         |
|                         |            |  | -             | -                            | -               |
| <b>SUCS</b>             | PR         | ISFATTR.SELECT.UCS                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                         |            |  | See note 3.   |                              |                 |
| <b>SUCS</b>             | SO         | ISFATTR.SELECT.UCS                             | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SUS</b>              | PUN        | ISFATTR.PROPTS.SUSPEND                         | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                         |            |  | -             | -                            | -               |
| <b>SVOL</b>             | SO         | ISFATTR.SELECT.VOL                             | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SVOL</b>             | PR PUN     | ISFATTR.SELECT.VOL                             | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                         |            |  | -             | -                            | -               |
| <b>SWA</b>              | JC         | ISFATTR.JOBCL.SWA                              | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
| <b>SWRITER</b>          | PR PUN     | ISFATTR.SELECT.WRITER                          | \$T           | <i>jesx</i> .MODIFY.DEV      | UPDATE          |
|                         |            |  | -             | -                            | -               |
| <b>SWRITER</b>          | SO         | ISFATTR.SELECT.WRITER                          | \$T           | <i>jesx</i> .MODIFY.OFF      | CONTROL         |
| <b>SYNCTOL</b>          | MAS        | ISFATTR.MEMBER.SYNCTOL                         | \$T           | <i>jesx</i> .MODIFY.MASDEF   | CONTROL         |
| <b>SYSSYM</b>           | JC         | ISFATTR.JOBCL.SYSSYM                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         |
|                         |            |  | *F            | <i>jesx</i> .MODIFY.C        | UPDATE          |
| <b>TDEPTH</b>           | JC         | ISFATTR.JOBCL.TDEPTH                           | -             | -                            | -               |
|                         |            |  | *F            | <i>jesx</i> .MODIFY.C        | UPDATE          |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| TITLE             | JDS        | ISFATTR.OUTDESC.TITLE                          | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| TP6               | JC         | ISFATTR.JOBCL.TYPE6                            | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| TP26              | JC         | ISFATTR.JOBCL.TYPE26                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |
| TR                | LI NC      | ISFATTR.PROPTS.TRACE                           | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| TR                | NO         | ISFATTR.NODE.TRACE                             | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| TR                | NS         | ISFATTR.PROPTS.TRACE                           | \$T           | <i>jesx</i> .MODIFY.LOGON<br><i>jesx</i> .MODIFY.NETSRV                                | CONTROL         |
|                   |            |  | -             | -  | -               |
| TR                | PR PUN     | ISFATTR.PROPTS.TRACE                           | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| TR                | RDR        | ISFATTR.RDR.TRACE                              | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| TRANS             | PR         | ISFATTR.PROPTS.TRANS                           | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.F  |                 |
| TRANS             | NO         | ISFATTR.NODE.TRANSMIT                          | \$T           | <i>jesx</i> .MODIFY.NODE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| TRANSP            | LI         | ISFATTR.LINE.<br>TRANSPARENCY                  | \$T           | <i>jesx</i> .MODIFY.LINE   | CONTROL         |
|                   |            |  | -             | -  | -               |
| TRKCELL           | PR         | ISFATTR.PROPTS.TRKCELL                         | PR            | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| UCS               | H O        | ISFATTR.OUTPUT.UCS                             | \$TO          | <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| UCS               | JDS J0     | ISFATTR.OUTPUT.UCS                             | -             | -  | -               |
|                   |            |  | *F            | <i>jesx</i> .MODIFY.U  | UPDATE          |
| UCSV              | PR         | ISFATTR.PROPTS.UCSVERIFY                       | \$T           | <i>jesx</i> .MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| UJP               | JC         | ISFATTR.JOBCL.IEFUJP                           | \$T           | <i>jesx</i> .MODIFY.JOBCLASS   | CONTROL         |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2     | OPERCMDs Resource, JES2                   | Required Access |
|-------------------|------------|--|-------------------|---|-----------------|
|                   |            |  | Command, JES3     | OPERCMDs Resource, JES3                   |                 |
| UNALLOC           | INIT       | ISFATTR.INIT.UNALLOC                           | -                 | -   | -               |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.G                     | UPDATE          |
| UNIT              | LI         | ISFATTR.PROPTS.UNIT                            | \$T               | <i>jesx</i> .MODIFY.LINE                  | UPDATE          |
|                   |            |  | -                 | -   | -               |
| UNIT              | PR PUN     | ISFATTR.PROPTS.UNIT                            | \$T               | <i>jesx</i> .MODIFY.DEV                   | UPDATE          |
|                   |            |  | -                 | -   | -               |
| UNIT              | SO         | ISFATTR.PROPTS.UNIT                            | \$T               | <i>jesx</i> .MODIFY.OFFLOAD               | CONTROL         |
| UNIT              | RDR        | ISFATTR.RDR.UNIT                               | \$T               | <i>jesx</i> .MODIFY.DEV                   | UPDATE          |
|                   |            |  | -                 | -   | -               |
| UNKNIDS           | EMCS       | ISFATTR.EMCS.UNKNIDS                           | V CN(), UNKNIDS=  | MVS.VARY.CN                               | UPDATE          |
| USERDATA1         | JDS        | ISFATTR.OUTDESC.USERDATA                       | SSI               |   |                 |
|                   |            |  | SSI               |   |                 |
| USERDATE          | CK         | ISFATTR.CHECK.USERDATE                         | F                 | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i>  | UPDATE          |
| USERLIB           | JDS        | ISFATTR.OUTDESC.USERLIB                        | SSI               |   |                 |
|                   |            |  | SSI               |   |                 |
| USO               | JC         | ISFATTR.JOBCL.IEFUSO                           | \$T               | <i>jesx</i> .MODIFY.JOBCLASS              | CONTROL         |
| VALIDATE          | SO         | ISFATTR.OFFLOAD.VALIDATE                       | \$T               | <i>jesx</i> .MODIFY.OFFLOAD               | CONTROL         |
| VERBOSE           | CK         | ISFATTR.CHECK.VERBOSE                          | F                 | MVS.MODIFY.STC.<br><i>hcproc.hcstcid</i>  | UPDATE          |
| VERIFYP           | NO         | ISFATTR.NODE.VERIFYP                           | \$T               | <i>jesx</i> .MODIFY.NODE                  | CONTROL         |
|                   |            |  | -                 | -   | -               |
| VFYPATH           | NO         | ISFATTR.NODE.VFYPATH                           | \$TNODE, VFYPATH= | <i>jesx</i> .MODIFY.NODE                  | CONTROL         |
| VOLS              | SO         | ISFATTR.OFFLOAD.VOLS                           | \$T               | <i>jesx</i> .MODIFY.OFFLOAD               | CONTROL         |
| VTR               | LI         | ISFATTR.PROPTS.VTRACE                          | \$T               | <i>jesx</i> .MODIFY.LINE                  | CONTROL         |
|                   |            |  | -                 | -   | -               |
| VTR               | NC         | ISFATTR.PROPTS.VTRACE                          | \$T               | <i>jesx</i> .MODIFY.LINE                  | CONTROL         |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.SOCKET                | UPDATE          |
| VTR               | NS         | ISFATTR.PROPTS.VTRACE                          | \$T               | <i>jesx</i> .MODIFY.NETSRV                | CONTROL         |
|                   |            |  | *F                | <i>jesx</i> .MODIFY.NETSERV               | UPDATE          |
| WARN%             | RM         | ISFATTR.RESMON.WARNPCT                         | \$T               | <i>jesx</i> .MODIFY.resource <sup>2</sup> | CONTROL         |

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(continued)

| Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) | Command, JES2 | OPERCMDS Resource, JES2  | Required Access |
|-------------------|------------|--|---------------|--|-----------------|
|                   |            |  | Command, JES3 | OPERCMDS Resource, JES3  |                 |
| WORK-SELECTION    | LI NC      | ISFATTR.PROPTS.WS                              | \$T           | jesx.MODIFY.L  | CONTROL         |
|                   |            |  | -             | -  | -               |
| WORK-SELECTION    | PR         | ISFATTR.PROPTS.WS                              | \$T           | jesx.MODIFY.DEV  | UPDATE          |
|                   |            |  | *R            | jesx.RESTART.DEV.device  |                 |
| WORK-SELECTION    | PUN        | ISFATTR.PROPTS.WS                              | \$T           | jesx.MODIFY.DEV  | UPDATE          |
|                   |            |  | See note 3.   |  |                 |
| WORK-SELECTION    | SO         | ISFATTR.PROPTS.WS                              | \$T           | jesx.MODIFY.OFF  | CONTROL         |
| WTOTYPE           | CK         | ISFATTR.CHECK.WTOTYPE                          | F             | MVS.MODIFY.STC.<br>hcproc.hcstcid                              | UPDATE          |
| WTR               | H O        | ISFATTR.OUTPUT.WRITER                          | \$TO          | jesx.MODIFY.BATOUT<br>jesx.MODIFY.STCOUT<br>jesx.MODIFY.TSUOUT | UPDATE          |
|                   |            |  | -             | -  | -               |
| WTR               | JDS JO     | ISFATTR.OUTPUT.WRITER                          | SSI           |  |                 |
|                   |            |  | SSI           |  |                 |
| XBM               | JC         | ISFATTR.JOBCL.XBM                              | \$T           | jesx.MODIFY.JOBCLASS   | CONTROL         |
| XEQDEST           | RDR        | ISFATTR.RDR.XEQDEST                            | \$T           | jesx.MODIFY.DEV  | UPDATE          |
|                   |            |  | -             | -  | -               |
| XEQMAX            | JCM        | ISFATTR.JOBCL.JCLIM                            | \$T           | jesx.MODIFY.JOBCLASS   | CONTROL         |

Notes for Table 297 on page 388:

<sup>1</sup> SDSF uses the subsystem interface (SSI) when you overtype the C (JES output class) or DEST (JES print destination name) on the JDS panel. You can change the class or destination without releasing the output. In order to release output when the JESSPOOL class is enabled, the user must have ALTER authority to the JESSPOOL resource. This authority is implied for the JESSPOOL resources created by the user.

<sup>2</sup> The SAF resource varies with the JES2 resource. Refer to “JES2 resources” on page 411.

<sup>3</sup> In a JES3 environment, you must also type an action character when overtyping the field. The command issued and OPERCMDS resource depend on the action character that is used with the overtype. Refer to Table 298 on page 410.

Table 298. Actions with Overtypes on the PR and PUN Panels in a JES3 Environment

| Action Character | Command  | OPERCMDS Resource                       | Required Access |
|------------------|----------|---|-----------------|
| B, E, F          | *RESTART | <i>jesx</i> .RESTART.DEV. <i>device</i> | UPDATE          |
| S                | *START   | <i>jesx</i> .START.DEV. <i>device</i>   | UPDATE          |

Table 298. Actions with Overtypes on the PR and PUN Panels in a JES3 Environment (continued)

| Action Character | Command | OPERCMDS Resource | Required Access |
|------------------|---------|-------------------|-----------------|
| X                | *CALL   | jesx.CALL.dspname | UPDATE          |

## Access authority

Multiple OPERCMDS class resources are often provided for the same overtypable field, but they are for different panels. You choose the OPERCMDS resource that you need according to the panels you are protecting. In the table, *jesx* should be replaced by the name of the targeted JES subsystem.

## JES2 resources

The following table shows the SAF resources in the OPERCMDS class for the JES2 resources displayed on the RM panel.

Table 299. OPERCMDS Resources That Protect Overtyping JES2 Resources

| JES2 Resource | OPERCMDS Resource     | Required Access |
|---------------|-----------------------|-----------------|
| BERT          | jesx.MODIFY.CKPTSPACE | CONTROL         |
| BSCB          | jesx.MODIFY.TPDEF     | CONTROL         |
| BUFX          | jesx.MODIFY.BUFDEF    | CONTROL         |
| CKVR          | jesx.MODIFY.CKPTDEF   | CONTROL         |
| CMBS          | jesx.MODIFY.CONDEF    | CONTROL         |
| CMDS          | jesx.MODIFY.CONDEF    | CONTROL         |
| ICES          | jesx.MODIFY.TPDEF     | CONTROL         |
| JNUM          | jesx.MODIFY.JOBDEF    | CONTROL         |
| JOES          | jesx.MODIFY.OUTDEF    | CONTROL         |
| JQES          | jesx.MODIFY.JOBDEF    | CONTROL         |
| LBUF          | jesx.MODIFY.BUFDEF    | CONTROL         |
| NHBS          | jesx.MODIFY.NJEDEF    | CONTROL         |
| SMFB          | jesx.MODIFY.SMFDEF    | CONTROL         |
| TBUF          | Not applicable        |                 |
| TGS           | jesx.MODIFY.SPOOLDEF  | CONTROL         |
| TTAB          | jesx.MODIFY.TRACEDEF  | CONTROL         |
| VTMB          | jesx.MODIFY.TPDEF     | CONTROL         |
| ZJC           | jesx.MODIFY.GRPDEF    | CONTROL         |

## Table of overtypable fields by OPERCMDS resource

The following tables describe the SDSF classes and resource names for each overtypable field and the panels on which they are valid. The table shows the command that is issued, and the associated OPERCMDS resource, for the JES2 environment for each overtypable field; if the field is overtypable in the JES3 environment, the JES3 command and associated OPERCMDS resource are shown beneath the JES2 values.

For an alphabetical list by field name, see Table 297 on page 388.

Appendix B, “SDSF resource names for SAF security,” on page 607 contains a table of all overtypable fields.

| Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.  |                 |                  |                   |            |  |
|--|-----------------|------------------|-------------------|------------|--|
| The variable <i>jesx</i> should be replaced by the name of the targeted JES subsystem.   |                 |                  |                   |            |  |
| Replace <i>hcproc</i> and <i>hcstcid</i> with the IBM Health Checker for z/OS procedure name and started task ID.  |                 |                  |                   |            |  |
| Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the * command character indicates a JES3 command. |                 |                  |                   |            |  |
| OPERCMDs Resource Name   | Required Access | MVS/JES Command  | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|  |                 | SSI              | ADDRESS           | JDS        | ISFATTR.OUTDESC.ADDRESS                        |
|  |                 | SSI              | AFPPARMS          | JDS        | ISFATTR.OUTDESC.AFPPARMS                       |
|  |                 | SSI              | AFPSTATS          | JDS        | ISFATTR.OUTDESC.AFPSTATS                       |
|  |                 | SSI              | BUILDING          | JDS        | ISFATTR.OUTDESC.BLDG                           |
|  |                 | SSI <sup>1</sup> | C                 | JDS J0     | ISFATTR.OUTPUT.CLASS                           |
|  |                 | SSI              | CC                | JDS J0     | ISFATTR.OUTPUT.COPYCNT                         |
|  |                 | SSI              | COLORMAP          | JDS        | ISFATTR.OUTDESC.<br>COLORMAP                   |
|  |                 | SSI              | COMSETUP          | JDS        | ISFATTR.OUTDESC.<br>COMSETUP                   |
|  |                 | SSI              | DEPARTMENT        | JDS        | ISFATTR.OUTDESC.DEPT                           |
|  |                 | SSI <sup>1</sup> | DEST              | JDS J0     | ISFATTR.OUTPUT.DEST                            |
|  |                 | SSI              | FORMDEF           | JDS        | ISFATTR.OUTDESC.FORMDEF                        |
|  |                 | SSI              | FORMLEN           | JDS        | ISFATTR.OUTDESC.FORMLEN                        |
|  |                 | SSI              | FORMS             | JDS J0     | ISFATTR.OUTPUT.FORMS                           |
|  |                 | SSI              | INTRAY            | JDS        | ISFATTR.OUTDESC.INTRAY                         |
|  |                 | SSI              | IPDEST            | JDS        | ISFATTR.OUTDESC.IPDEST                         |
|  |                 | SSI              | MAILBCC           | JDS        | ISFATTR.OUTDESC.MAILBCC                        |
|  |                 | SSI              | MAILCC            | JDS        | ISFATTR.OUTDESC.MAILCC                         |
|  |                 | SSI              | MAILFILE          | JDS        | ISFATTR.OUTDESC.MAILFILE                       |
|  |                 | SSI              | MAILFROM          | JDS        | ISFATTR.OUTDESC.MAILFROM                       |
|  |                 | SSI              | MAILTO            | JDS        | ISFATTR.OUTDESC.MAILTO                         |
|  |                 | SSI              | NAME              | JDS        | ISFATTR.OUTDESC.NAME                           |
|  |                 | SSI              | OCOPYCNT          | JDS        | ISFATTR.OUTDESC.OCOPYCNT                       |
|  |                 | SSI              | OFFSETXB          | JDS        | ISFATTR.OUTDESC.<br>OFFSETXB                   |
|  |                 | SSI              | OFFSETXF          | JDS        | ISFATTR.OUTDESC.<br>OFFSETXF                   |
|  |                 | SSI              | OFFSETYB          | JDS        | ISFATTR.OUTDESC.<br>OFFSETYB                   |
|  |                 | SSI              | OFFSETYF          | JDS        | ISFATTR.OUTDESC.<br>OFFSETYF                   |
|  |                 | SSI              | NOTIFY            | JDS        | ISFATTR.OUTDESC.NOTIFY                         |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name   | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--------------------------|-----------------|-----------------|-------------------|------------|--|
|                          |                 | SSI             | OUTBN             | JDS        | ISFATTR.OUTDESC.OUTBIN                         |
|                          |                 | SSI             | OVERLAYB          | JDS        | ISFATTR.OUTDESC.OVERLAYB                       |
|                          |                 | SSI             | OVERLAYF          | JDS        | ISFATTR.OUTDESC.OVERLAYF                       |
|                          |                 | SSI             | PAGEDEF           | JDS        | ISFATTR.OUTDESC.PAGEDEF                        |
|                          |                 | SSI             | PORT              | JDS        | ISFATTR.OUTDESC.PORTNO                         |
|                          |                 | SSI             | PRINTO            | JDS        | ISFATTR.OUTDESC.PRINTO                         |
|                          |                 | SSI             | PRINTQ            | JDS        | ISFATTR.OUTDESC.PRINTQ                         |
|                          |                 | SSI             | PRMODE            | JDS JO     | ISFATTR.OUTPUT.PRMODE                          |
|                          |                 | SSI             | RETAINF           | JDS        | ISFATTR.OUTDESC.RETAINF                        |
|                          |                 | SSI             | RETAINS           | JDS        | ISFATTR.OUTDESC.RETAINS                        |
|                          |                 | SSI             | RETRYL            | JDS        | ISFATTR.OUTDESC.RETRYL                         |
|                          |                 | SSI             | RETRYT            | JDS        | ISFATTR.OUTDESC.RETRYT                         |
|                          |                 | SSI             | ROOM              | JDS        | ISFATTR.OUTDESC.ROOM                           |
|                          |                 | SSI             | TITLE             | JDS        | ISFATTR.OUTDESC.TITLE                          |
|                          |                 | SSI             | UCS               | JDS JO     | ISFATTR.OUTPUT.UCS                             |
|                          |                 | SSI             | USERDATA1         | JDS        | ISFATTR.OUTDESC.USERDATA                       |
|                          |                 | SSI             | USERLIB           | JDS        | ISFATTR.OUTDESC.USERLIB                        |
|                          |                 |                 | SRVCLASS          | ENC        | ISFATTR.ENCLAVE.SRVCLASS                       |
|                          |                 | SSI             | WTR               | JDS JO     | ISFATTR.OUTPUT.WRITER                          |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | B                 | PUN        | ISFATTR.PROPTS.BPAGE                           |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | CB                | PR         | ISFATTR.PROPTS.CB                              |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | CHAR1             | PR         | ISFATTR.PROPTS.CHAR                            |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | CKPTPAGE          | PR         | ISFATTR.PROPTS.CKPTPAGE                        |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | CKPTSEC           | PR         | ISFATTR.PROPTS.CKPTSEC                         |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | COPIES            | PR         | ISFATTR.PROPTS.COPIES                          |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | COPYMARK          | PR         | ISFATTR.PROPTS.COPYMARK                        |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | LINE-LIM-HI       | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx.CALL.dspname</i> | UPDATE          | *X. See note 3. | LINE-LIM-LO       | PR PUN     | ISFATTR.SELECT.LIM                             |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hctestid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDS Resource Name   | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--|-----------------|-----------------|-------------------|------------|--|
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | NPRO              | PR         | ISFATTR.PROPTS.NPRO                            |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | PAGE-LIM-HI       | PR         | ISFATTR.SELECT.PLIM                            |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | PAGE-LIM-LO       | PR         | ISFATTR.SELECT.PLIM                            |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SBURST            | PR         | ISFATTR.SELECT.BURST                           |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SCLASS            | PR PUN     | ISFATTR.SELECT.CLASS                           |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SEPDS             | PUN        | ISFATTR.PROPTS.SEPDS                           |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SFCB              | PR         | ISFATTR.SELECT.FCB                             |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SFORMS            | PR PUN     | ISFATTR.SELECT.FORMS                           |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SPRMODE1          | PR PUN     | ISFATTR.SELECT.PRMODE                          |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | SUCS              | PR         | ISFATTR.SELECT.UCS                             |
| <i>jesx.CALL.dspname</i>   | UPDATE          | *X. See note 3. | WORK-SELECTION    | PUN        | ISFATTR.PROPTS.WS                              |
| <i>jesx.CALL.NJE</i>   | UPDATE          | *X              | NODE              | LI NO      | ISFATTR.LINE.NODE                              |
| <i>jesx.MODIFY.resource</i> <sup>2</sup>                                   | CONTROL         | \$T             | LIMIT             | RM         | ISFATTR.RESMON.LIMIT                           |
| <i>jesx.MODIFY.resource</i> <sup>2</sup>                                   | CONTROL         | \$T             | WARN%             | RM         | ISFATTR.RESMON.WARNPCT                         |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | ANODE             | NC         | ISFATTR.NETOPTS.NODE                           |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | COMPACT           | NC         | ISFATTR.NODE.COMPACT                           |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | CONNECT           | NC         | ISFATTR.NETOPTS.CONNECT                        |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | CONN-INT          | NC         | ISFATTR.NETOPTS.CTIME                          |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | LINE              | NC         | ISFATTR.NODE.LINE                              |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | LOGMODE           | NC         | ISFATTR.NODE.LOGMODE                           |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | LOGON             | NC         | ISFATTR.NETOPTS.LOGON                          |
| <i>jesx.MODIFY.APPL</i>  | CONTROL         | \$T             | REST              | NC         | ISFATTR.LINE.REST                              |
| <i>jesx.MODIFY.BAT</i>   | UPDATE          | \$T             | SCHEDULING-ENV    | I ST       | ISFATTR.JOB.SCHENV                             |
| <i>jesx.MODIFY.BAT</i><br><i>jesx.MODIFY.STC</i><br><i>jesx.MODIFY.TSU</i> | UPDATE          | \$T             | JESCANCEL         | I ST       | ISFATTR.JOB.JESCANCEL                          |
| <i>jesx.MODIFY.BAT</i><br><i>jesx.MODIFY.STC</i><br><i>jesx.MODIFY.TSU</i> | UPDATE          | \$T             | SAFF              | I ST       | ISFATTR.JOB.SYSAFF                             |



Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name   | Required Access | MVS/JES Command       | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--|-----------------|-----------------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU          | UPDATE          | \$T                   | C                 | I ST       | ISFATTR.JOB.CLASS                              |
| <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU          | UPDATE          | \$T                   | PRTY              | I ST       | ISFATTR.JOB.PRTY                               |
| <i>jesx</i> .MODIFY.BAT<br><i>jesx</i> .MODIFY.STC<br><i>jesx</i> .MODIFY.TSU          | CONTROL         | \$T                   | SRVCLASS          | I ST       | ISFATTR.JOB.SRVCLS                             |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | BURST             | H O        | ISFATTR.OUTPUT.BURST                           |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO SSI <sup>1</sup> | C                 | H O        | ISFATTR.OUTPUT.CLASS                           |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO SSI <sup>1</sup> | DEST              | H O        | ISFATTR.OUTPUT.DEST                            |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | FCB               | H O        | ISFATTR.OUTPUT.FCB                             |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | FLASH             | H O        | ISFATTR.OUTPUT.FLASH                           |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | FORMS             | H O        | ISFATTR.OUTPUT.FORMS                           |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | ODISP             | H O        | ISFATTR.OUTPUT.ODISP                           |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | PRMODE            | H O        | ISFATTR.OUTPUT.PRMODE                          |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | PRTY              | H O        | ISFATTR.OUTPUT.PRTY                            |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | UCS               | H O        | ISFATTR.OUTPUT.UCS                             |
| <i>jesx</i> .MODIFY.BATOUT<br><i>jesx</i> .MODIFY.STCOUT<br><i>jesx</i> .MODIFY.TSUOUT | UPDATE          | \$TO                  | WTR               | H O        | ISFATTR.OUTPUT.WRITER                          |
| <i>jesx</i> .MODIFY.C  | UPDATE          | *F                    | JESLOG            | JC         | ISFATTR.JOBCL.JESLOG                           |
| <i>jesx</i> .MODIFY.C  | UPDATE          | *F                    | LOG               | JC         | ISFATTR.JOBCL.JLOG                             |
| <i>jesx</i> .MODIFY.C  | UPDATE          | *F                    | PARTNAME          | JC         | ISFATTR.JOBCL.PARTNAME                         |
| <i>jesx</i> .MODIFY.C  | UPDATE          | *F                    | SDEPTH            | JC         | ISFATTR.JOBCL.SDEPTH                           |
| <i>jesx</i> .MODIFY.C  | UPDATE          | *F                    | SYSSYM            | JC         | ISFATTR.JOBCL.SYSSYM                           |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name  | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|-------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.C   | UPDATE          | *F              | TDEPTH            | JC         | ISFATTR.JOBCL.TDEPTH                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | ASIS              | PR         | ISFATTR.PROPTS.ASIS                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CCTL              | PR PUN     | ISFATTR.PROPTS.CCTL                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CHAR1–4           | PR         | ISFATTR.PROPTS.CHAR                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CMPCT             | PR PUN     | ISFATTR.PROPTS.CMPCT                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | COMP              | PR PUN     | ISFATTR.PROPTS.COMPRESS                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | COMPACT           | PR PUN     | ISFATTR.PROPTS.COMPACT                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CKPTLINE          | PR PUN     | ISFATTR.PROPTS.CKPTLINE                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CKPTMODE          | PR         | ISFATTR.PROPTS.CKPTMODE                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CKPTPAGE          | PR PUN     | ISFATTR.PROPTS.CKPTPAGE                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CKPTSEC           | PR         | ISFATTR.PROPTS.CKPTSEC                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | COPYMARK          | PR         | ISFATTR.PROPTS.COPYMARK                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | CPYMOD            | PR         | ISFATTR.PROPTS.COPYMOD                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | DFCB              | PR         | ISFATTR.PROPTS.DEVFCB                          |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | FCBL              | PR         | ISFATTR.PROPTS.FCBLOAD                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | FSSNAME           | PR         | ISFATTR.PROPTS.FSSNAME                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | HONORTRC          | PR         | ISFATTR.PROPTS.HONORTRC                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | K                 | PR         | ISFATTR.PROPTS.SPACE                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | LINE-LIMIT        | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | LRECL             | PR PUN     | ISFATTR.PROPTS.LRECL                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | M                 | PR         | ISFATTR.PROPTS.MARK                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | MODE              | PR         | ISFATTR.PROPTS.MODE                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | NEWPAGE           | PR         | ISFATTR.PROPTS.NEWPAGE                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | NPRO              | PR         | ISFATTR.PROPTS.NPRO                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PAGE-LIMIT        | PR         | ISFATTR.SELECT.PLIM                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PAU               | PR PUN     | ISFATTR.PROPTS.PAUSE                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PSEL              | PR         | ISFATTR.PROPTS.PRESELECT                       |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SBURST            | PR SO      | ISFATTR.SELECT.BURST                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SCLASS            | PR PUN     | ISFATTR.SELECT.CLASS                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SDEST1            | PR PUN     | ISFATTR.SELECT.DEST                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SELECT            | PR PUN     | ISFATTR.PROPTS.SELECT                          |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SEP               | PR PUN     | ISFATTR.PROPTS.SEP                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SEPCHAR           | PR         | ISFATTR.PROPTS.SEPCHARS                        |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SEPDS             | PR PUN     | ISFATTR.PROPTS.SEPDS                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SETUP             | PR PUN     | ISFATTR.PROPTS.SETUP                           |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name  | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|-------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SFCB              | PR         | ISFATTR.SELECT.FCB                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SFLH              | PR         | ISFATTR.SELECT.FLASH                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SFORMS            | PR PUN     | ISFATTR.SELECT.FORMS                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SJOBNAME          | PR PUN     | ISFATTR.SELECT.JOBNAME                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SOWNER            | PR PUN     | ISFATTR.SELECT.OWNER                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SPRMODE1          | PR PUN     | ISFATTR.SELECT.PRMODE                          |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SRANGE            | PR PUN     | ISFATTR.SELECT.RANGE                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SUCS              | PR         | ISFATTR.SELECT.UCS                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SUS               | PR PUN     | ISFATTR.SELECT.SUSPEND                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SVOL1             | PR         | ISFATTR.SELECT.VOL                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SWRITER           | PR PUN     | ISFATTR.SELECT.WRITER                          |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | TR                | PR PUN     | ISFATTR.PROPTS.TRACE                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | TRANS             | PR         | ISFATTR.PROPTS.TRANS                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | TRKCELL           | PR         | ISFATTR.PROPTS.TRKCELL                         |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | UCSV              | PR         | ISFATTR.PROPTS.UCSVERIFY                       |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | UNIT              | PR PUN     | ISFATTR.PROPTS.UNIT                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | WORK-SELECTION    | PR PUN     | ISFATTR.PROPTS.WS                              |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | FLS               | PUN        | ISFATTR.PROPTS.FLUSH                           |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | LINE-LIMIT        | PUN        | ISFATTR.SELECT.LIM                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SVOL              | PUN        | ISFATTR.SELECT.VOL                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | AUTHORITY         | RDR        | ISFATTR.RDR.AUTHORITY                          |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | C                 | RDR        | ISFATTR.RDR.CLASS                              |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | HOLD              | RDR        | ISFATTR.RDR.HOLD                               |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | MC                | RDR        | ISFATTR.RDR.RMCLASS                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PI                | RDR        | ISFATTR.RDR.PRIOINC                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PL                | RDR        | ISFATTR.RDR.PRIOLIM                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PRTDEST           | RDR        | ISFATTR.RDR.PRTDEST                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | PUNDEST           | RDR        | ISFATTR.RDR.PUNDEST                            |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | SAFF              | RDR        | ISFATTR.RDR.SYSAFF                             |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | TR                | RDR        | ISFATTR.RDR.TRACE                              |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | UNIT              | RDR        | ISFATTR.RDR.UNIT                               |
| <i>jesx</i> .MODIFY.DEV | UPDATE          | \$T             | XEQDEST           | RDR        | ISFATTR.RDR.XEQDEST                            |
| <i>jesx</i> .MODIFY.F   | UPDATE          | *F              | MODE              | PR         | ISFATTR.PROPTS.MODE                            |
| <i>jesx</i> .MODIFY.F   | CONTROL         | *F              | PDEFAULT          | PR         | ISFATTR.PROPTS.PDEFAULT                        |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name        | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|-------------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.F         | UPDATE          | *F              | SETUP             | PR         | ISFATTR.PROPTS.SETUP                           |
| <i>jesx</i> .MODIFY.F         | UPDATE          | *F              | TRANS             | PR         | ISFATTR.PROPTS.TRANS                           |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | ALLOC             | INIT       | ISFATTR.INIT.ALLOC                             |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | BARRIER           | INIT       | ISFATTR.INIT.BARRIER                           |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | DEFCOUNT          | INIT       | ISFATTR.INIT.DEFCOUNT                          |
| <i>jesx</i> .MODIFY.C         | UPDATE          | *F              | GROUP             | INIT       | ISFATTR.INIT.GROUP                             |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | MODE              | INIT       | ISFATTR.INIT.MODE                              |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | UNALLOC           | INIT       | ISFATTR.INIT.UNALLOC                           |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | SELECTMODE NAME   | JP         | ISFATTR.MEMBER.SELMNAME                        |
| <i>jesx</i> .MODIFY.G         | UPDATE          | *F              | PARTNAME          | JP         | ISFATTR.MEMBER.SPARTN                          |
| <i>jesx</i> .MODIFY.GROUP     | UPDATE          | \$T             | SAFF              | JG         | ISFATTR.JOBGROUP.SYSAFF                        |
| <i>jesx</i> .MODIFY.GROUP     | UPDATE          | \$T             | SCHEDULING-ENV    | JG         | ISFATTR.JOBGROUP.SCHENV                        |
| <i>jesx</i> .MODIFY.INITIATOR | CONTROL         | \$T             | CLASSES           | INIT       | ISFATTR.SELECT.JOBCLASS                        |
| <i>jesx</i> .MODIFY.INITIATOR | CONTROL         | \$T             | CLASS1-8          | INIT       | ISFATTR.SELECT.JOBCLASS                        |
| <i>jesx</i> .MODIFY.JOB       | UPDATE          | *F              | C                 | I ST       | ISFATTR.JOB.CLASS                              |
| <i>jesx</i> .MODIFY.JOB       | UPDATE          | *F              | SRVLCASS          | I ST       | ISFATTR.JOB.SRVCLS                             |
| <i>jesx</i> .MODIFY.JOB       | UPDATE          | *F              | C                 | I ST       | ISFATTR.JOB.CLASS                              |
| <i>jesx</i> .MODIFY.JOBP      | UPDATE          | *F              | PRTY              | I ST       | ISFATTR.JOB.PRTY                               |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | ACCT              | JC         | ISFATTR.JOBCL.ACCT                             |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | ACTION            | JRJC       | ISFATTR.JOBCL.ACTION                           |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | ACTIVE            | JC         | ISFATTR.JOBCL.ACTIVE                           |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | AUTH              | JC         | ISFATTR.JOBCL.AUTH                             |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | BLP               | JC         | ISFATTR.JOBCL.BLP                              |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | COMMAND           | JC         | ISFATTR.JOBCL.COMMAND                          |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | CPR               | JC         | ISFATTR.JOBCL.CONDPURG                         |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | CPY               | JC         | ISFATTR.JOBCL.COPY                             |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | DESC              | JC         | ISFATTR.JOBCL.DESC                             |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | DSENQSHR          | JC         | ISFATTR.JOBCL.DSENQSHR                         |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | GDGBIAS           | JC         | ISFATTR.JOBCL.GDGBIAS                          |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | GROUP             | JC         | ISFATTR.JOBCL.GROUP                            |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | HOLD              | JC         | ISFATTR.JOBCL.HOLD                             |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | JCLIM             | JC         | ISFATTR.JOBCL.JCLIM                            |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$t             | JESCANCEL         | JC         | ISFATTR.JOBCL.JESCANCEL                        |
| <i>jesx</i> .MODIFY.JOBCLASS  | CONTROL         | \$T             | JESLOG            | JC         | ISFATTR.JOBCL.JESLOG                           |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

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(continued)

| OPERCMDs Resource Name       | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|------------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | JOBRC             | JC         | ISFATTR.JOBCL.JOBRC                            |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | JRNL              | JC         | ISFATTR.JOBCL.JOURNAL                          |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | LIMIT%            | JRJC       | ISFATTR.JOBCL.LIMITPCT                         |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | LOG               | JC         | ISFATTR.JOBCL.LOG                              |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | MAX-TIME          | JC         | ISFATTR.JOBCL.TIME                             |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | MC                | JC         | ISFATTR.JOBCL.MSGCLASS                         |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | MODE              | JC         | ISFATTR.JOBCL.MODE                             |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | MSGLV             | JC         | ISFATTR.JOBCL.MSGLEVEL                         |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | ODISP             | JC         | ISFATTR.JOBCL.ODISP                            |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | OUT               | JC         | ISFATTR.JOBCL.OUTPUT                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | PGN               | JC         | ISFATTR.JOBCL.PGN                              |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | PGNM              | JC         | ISFATTR.JOBCL.PGMRNAME                         |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | PROCNAME          | JC         | ISFATTR.JOBCL.PROCLIB                          |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | PROMORT           | JC         | ISFATTR.JOBCL.PROMORATE                        |
| <i>jesx</i> .MODIFY.JOBCLASS | ALTER           | \$T             | QAFF              | JC         | ISFATTR.JOBCL.PROCLIB                          |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | QHLD              | JC         | ISFATTR.JOBCL.QHLD                             |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | REGION            | JC         | ISFATTR.JOBCL.REGION                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | RST               | JC         | ISFATTR.JOBCL.RESTART                          |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | SCHEDULING-ENV    | JC         | ISFATTR.JOBCL.SCHENV                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | SCN               | JC         | ISFATTR.JOBCL.SCAN                             |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | SWA               | JC         | ISFATTR.JOBCL.SWA                              |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | SYSSYM            | JC         | ISFATTR.JOBCL.SYSSYM                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | TP6               | JC         | ISFATTR.JOBCL.TYPE6                            |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | TP26              | JC         | ISFATTR.JOBCL.TYPE26                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | UJP               | JC         | ISFATTR.JOBCL.IEFUJP                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | USO               | JC         | ISFATTR.JOBCL.IEFUSO                           |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | XBM               | JC         | ISFATTR.JOBCL.XBM                              |
| <i>jesx</i> .MODIFY.JOBCLASS | CONTROL         | \$T             | XEQMAX            | JCM        | ISFATTR.JOBCL.JCLIM                            |
| <i>jesx</i> .MODIFY.L        | CONTROL         | \$T             | LINE-LIMIT        | LI NC      | ISFATTR.SELECT.LIM                             |
| <i>jesx</i> .MODIFY.L        | CONTROL         | \$T             | PAGE-LIMIT        | LI NC      | ISFATTR.SELECT.PLIM                            |
| <i>jesx</i> .MODIFY.L        | UPDATE          | \$T             | SODSP             | LI NC      | ISFATTR.SELECT.ODISP                           |
| <i>jesx</i> .MODIFY.L        | CONTROL         | \$T             | WORK-SELECTION    | LI NC      | ISFATTR.PROPTS.WS                              |
| <i>jesx</i> .MODIFY.LINE     | CONTROL         | \$T             | ADISC             | LI         | ISFATTR.LINE.AUTODISC                          |
| <i>jesx</i> .MODIFY.LINE     | CONTROL         | \$T             | ANODE             | NC         | ISFATTR.NETOPTS.NODE                           |

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The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

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(continued)

| OPERCMDs Resource Name     | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|----------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CONNECT           | NC         | ISFATTR.NETOPTS.CONNECT                        |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CONN-INT          | NC         | ISFATTR.NETOPTS.CTIME                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CODE              | LI         | ISFATTR.LINE.CODE                              |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | COMP              | LI         | ISFATTR.LINE.COMPRESS                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CONNECT           | LI         | ISFATTR.NETOPTS.CONNECT                        |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CONN-INT          | LI         | ISFATTR.NETOPTS.CTIME                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | CTR               | LI NC      | ISFATTR.PROPTS.CTRACE                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | DUPLEX            | LI         | ISFATTR.LINE.DUPLEX                            |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | INTF              | LI         | ISFATTR.LINE.INTERFACE                         |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | JRNUM             | LI         | ISFATTR.LINE.JRNUM                             |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | JTNUM             | LI         | ISFATTR.LINE.JTNUM                             |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | JTR               | LI NC      | ISFATTR.PROPTS.JTRACE                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | LINECCHR          | LI         | ISFATTR.LINE.LINECCHR                          |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | LOG               | LI         | ISFATTR.LINE.LOG                               |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | REST              | LI         | ISFATTR.LINE.REST                              |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | RESTART           | LI         | ISFATTR.PROPTS.RESTART                         |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | REST-INT          | LI         | ISFATTR.PROPTS.RTIME                           |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | SPEED             | LI         | ISFATTR.LINE.SPEED                             |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | SRNUM             | LI         | ISFATTR.LINE.SRNUM                             |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | STNUM             | LI         | ISFATTR.LINE.STNUM                             |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | TR                | LI NC      | ISFATTR.PROPTS.TRACE                           |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | TRANSP            | LI         | ISFATTR.LINE.<br>TRANSPARENCY                  |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | UNIT              | LI         | ISFATTR.PROPTS.UNIT                            |
| <i>jesx</i> .MODIFY.LINE   | CONTROL         | \$T             | VTR               | LI NC      | ISFATTR.PROPTS.VTRACE                          |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | APPL              | NS         | ISFATTR.NETOPTS.APPL                           |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | LOG               | NS         | ISFATTR.NETOPTS.LOG                            |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | PASSWORD          | NS         | ISFATTR.LOGON.PASSWORD                         |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | RESTART           | NS         | ISFATTR.PROPTS.RESTART                         |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | RESTART-INT       | NS         | ISFATTR.PROPTS.RTIME                           |
| <i>jesx</i> .MODIFY.LOGON  | CONTROL         | \$T             | TR                | NS         | ISFATTR.PROPTS.TRACE                           |
| <i>jesx</i> .MODIFY.MASDEF | CONTROL         | \$T             | CKPTHOLD          | MAS        | ISFATTR.MEMBER.CKPTHOLD                        |
| <i>jesx</i> .MODIFY.MASDEF | CONTROL         | \$T             | DORMANCY          | MAS        | ISFATTR.MEMBER.DORMANCY                        |
| <i>jesx</i> .MODIFY.MASDEF | CONTROL         | \$T             | SYNCTOL           | MAS        | ISFATTR.MEMBER.SYNCTOL                         |

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Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name      | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|-----------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | CTR               | NS         | ISFATTR.PROPTS.CTRACE                          |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | JTR               | NS         | ISFATTR.PROPTS.JTRACE                          |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | NSECURE           | NS         | ISFATTR.NETOPTS.NSECURE                        |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | RESTART           | NS         | ISFATTR.PROPTS.RESTART                         |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | RESTART-INT       | NS         | ISFATTR.PROPTS.RTIME                           |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | SOCKET            | NS         | ISFATTR.NETOPTS.SOCKET                         |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | STACK             | NS         | ISFATTR.NETOPTS.STACK                          |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | TR                | NS         | ISFATTR.PROPTS.TRACE                           |
| <i>jesx</i> .MODIFY.NETSRV  | CONTROL         | \$T             | VTR               | NS         | ISFATTR.PROPTS.VTRACE                          |
| <i>jesx</i> .MODIFY.NETSERV | CONTROL         | *F              | CTR               | NS         | ISFATTR.PROPTS.CTRACE                          |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | IPNAME            | NS         | ISFATTR.NETOPTS.HOSTNAME                       |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | JTR               | NS         | ISFATTR.PROPTS.JTRACE                          |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | PORT              | NS         | ISFATTR.NETOPTS.PORT                           |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | SOCKET            | NS         | ISFATTR.NETOPTS.SOCKET                         |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | STACK             | NS         | ISFATTR.NETOPTS.STACK                          |
| <i>jesx</i> .MODIFY.NETSERV | UPDATE          | *F              | TR                | NS         | ISFATTR.PROPTS.VTRACE                          |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | HOLD              | NO         | ISFATTR.NODE.HOLD                              |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | JRNUM             | NO         | ISFATTR.NODE.JRNUM                             |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | JTNUM             | NO         | ISFATTR.NODE.JTNUM                             |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | NHOLD             | NO         | ISFATTR.NODE.NETHOLD                           |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | MAXRETRIES        | NO         | ISFATTR.NODE.MAXRETR                           |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PARTNAME          | NO         | ISFATTR.NODE.PARTNAM                           |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PATH              | NO         | ISFATTR.NODE.PATH                              |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PRTDEF            | NO         | ISFATTR.NODE.PRTDEF                            |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PRTTSO            | NO         | ISFATTR.NODE.PRTTSO                            |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PRTXWTR           | NO         | ISFATTR.NODE.PRTXWTR                           |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PTYPE             | NO         | ISFATTR.NODE.PTYPE                             |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PUNDEF            | NO         | ISFATTR.NODE.PUNDEF                            |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | PWCNTL            | NO         | ISFATTR.NODE.PWCNTL                            |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | SECURE            | NO         | ISFATTR.NODE.SECURE                            |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | SRNUM             | NO         | ISFATTR.NODE.SRNUM                             |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | SSIGNON           | NO         | ISFATTR.NODE.SSIGNON                           |
| <i>jesx</i> .MODIFY.NJE     | UPDATE          | *F              | STNUM             | NO         | ISFATTR.NODE.STNUM                             |
| <i>jesx</i> .MODIFY.NODE    | CONTROL         | \$T             | AUTHORITY         | NO         | ISFATTR.NODE.AUTHORITY                         |
| <i>jesx</i> .MODIFY.NODE    | CONTROL         | \$T             | CONNECT           | NO         | ISFATTR.NETOPTS.CONNECT                        |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name   | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | CONN-INT          | NO         | ISFATTR.NETOPTS.CTIME                          |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | CP                | NO         | ISFATTR.NODE.COMPACT                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | DIRECT            | NO         | ISFATTR.NODE.DIRECT                            |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | END               | NO         | ISFATTR.NODE.ENDNODE                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | HOLD              | NO         | ISFATTR.NODE.HOLD                              |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | LINE              | NO         | ISFATTR.NODE.LINE                              |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | LOGMODE           | NO         | ISFATTR.NODE.LOGMODE                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | NODENAME          | NO         | ISFATTR.NODE.LOGON                             |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | NETSRV            | NO         | ISFATTR.NODE.NETSRV                            |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | PEN               | NO         | ISFATTR.NODE.PENCRYPT                          |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | PMG               | NO         | ISFATTR.NODE.PATHMGR                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | PRV               | NO         | ISFATTR.NODE.PRIVATE                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | RECV              | NO         | ISFATTR.NODE.RECEIVE                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | REST              | NO         | ISFATTR.NODE.REST                              |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | SENDP             | NO         | ISFATTR.NODE.SENDP                             |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | SENTRS            | NO         | ISFATTR.NODE.SENTREST                          |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | SSIGNON           | NO         | ISFATTR.NODE.SSIGNON                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | SUBNET            | NO         | ISFATTR.NODE.SUBNET                            |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | TR                | NO         | ISFATTR.NODE.TRACE                             |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | TRANS             | NO         | ISFATTR.NODE.TRANSMIT                          |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | VERIFYP           | NO         | ISFATTR.NODE.VERIFYP                           |
| <i>jesx</i> .MODIFY.NODE | CONTROL         | \$T             | VFYPATH           | NO         | ISFATTR.NODE.VFYPATH                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | LINE-LIMIT        | SO         | ISFATTR.SELECT.LIM                             |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MBURST            | SO         | ISFATTR.MODIFY.BURST                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MCLASS            | SO         | ISFATTR.MODIFY.CLASS                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MDEST             | SO         | ISFATTR.MODIFY.DEST                            |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MFCB              | SO         | ISFATTR.MODIFY.FCB                             |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MFLH              | SO         | ISFATTR.MODIFY.FLASH                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MFORMS            | SO         | ISFATTR.MODIFY.FORMS                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MHOLD             | SO         | ISFATTR.MODIFY.HOLD                            |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MODSP             | SO         | ISFATTR.MODIFY.ODISP                           |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MPRMODE           | SO         | ISFATTR.MODIFY.PRMODE                          |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MSAFF             | SO         | ISFATTR.MODIFY.SYSAFF                          |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MUCS              | SO         | ISFATTR.MODIFY.UCS                             |
| <i>jesx</i> .MODIFY.OFF  | CONTROL         | \$T             | MWRITER           | SO         | ISFATTR.MODIFY.WRITER                          |



Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name      | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|-----------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | NOTIFY            | SO         | ISFATTR.OFFLOAD.NOTIFY                         |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | PAGE-LIMIT        | SO         | ISFATTR.SELECT.PLM                             |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SBURST            | SO         | ISFATTR.SELECT.BURST                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SCLASS            | SO         | ISFATTR.SELECT.CLASS                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SCLASS1-8         | SO         | ISFATTR.SELECT.CLASS                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SDEST1            | SO         | ISFATTR.SELECT.DEST                            |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SDISP             | SO         | ISFATTR.SELECT.DISP                            |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SRANGE            | SO         | ISFATTR.SELECT.RANGE                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SFCB              | SO         | ISFATTR.SELECT.FCB                             |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SFLH              | SO         | ISFATTR.SELECT.FLASH                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SFORMS            | SO         | ISFATTR.SELECT.FORMS                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SHOLD             | SO         | ISFATTR.SELECT.HOLD                            |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SJOBNAME          | SO         | ISFATTR.SELECT.JOBNAME                         |
| <i>jesx</i> .MODIFY.OFF     | UPDATE          | \$T             | SODSP             | SO         | ISFATTR.SELECT.ODISP                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SOWNER            | SO         | ISFATTR.SELECT.OWNER                           |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SPRMODE1          | SO         | ISFATTR.SELECT.PRMODE                          |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SSAFF             | SO         | ISFATTR.SELECT.SYSAFF                          |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SSCHEDULING-ENV   | SO         | ISFATTR.SELECT.SCHENV                          |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SSRVCLASS         | SO         | ISFATTR.SELECT.SRVCLS                          |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SUCS              | SO         | ISFATTR.SELECT.UCS                             |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SVOL              | SO         | ISFATTR.SELECT.VOL                             |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | SWRITER           | SO         | ISFATTR.SELECT.WRITER                          |
| <i>jesx</i> .MODIFY.OFF     | CONTROL         | \$T             | WORK-SELECTION    | SO         | ISFATTR.PROPTS.WS                              |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | ARCHIVE           | SO         | ISFATTR.OFFLOAD.ARCHIVE                        |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | CRTIME            | SO         | ISFATTR.OFFLOAD.CRTIME                         |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | DSNAME            | SO         | ISFATTR.OFFLOAD.DATASET                        |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | LABEL             | SO         | ISFATTR.OFFLOAD.LABEL                          |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | PROT              | SO         | ISFATTR.OFFLOAD.PROTECT                        |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | RTPD              | SO         | ISFATTR.OFFLOAD.RETENT                         |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | UNIT              | SO         | ISFATTR.PROPTS.UNIT                            |
| <i>jesx</i> .MODIFY.OFFLOAD | CONTROL         | \$T             | VALIDATE          | SO         | ISFATTR.OFFLOAD.VALIDATE                       |
| <i>jesx</i> .MODIFY.Q       | UPDATE          | *F              | MINPCT            | SP         | ISFATTR.SPOOL.MINPCT                           |
| <i>jesx</i> .MODIFY.Q       | UPDATE          | *F              | OVERFNAM          | SP         | ISFATTR.SPOOL.OVFNAME                          |
| <i>jesx</i> .MODIFY.Q       | UPDATE          | *F              | PARTNAME          | SP         | ISFATTR.SPOOL.PARTNAME                         |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name                  | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|---|-----------------|-----------------|-------------------|------------|--|
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | ANODE             | NC         | ISFATTR.NETOPTS.NODE                           |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | CONNECT           | NC         | ISFATTR.NETOPTS.CONNECT                        |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | CONN-INT          | NC         | ISFATTR.NETOPTS.CTIME                          |
| <i>jesx</i> .MODIFY.SOCKET              | UPDATE          | *F              | CTR               | NC         | ISFATTR.PROPTS.CTRACE                          |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | IPNAME            | NS         | ISFATTR.NETOPTS.IPNAME                         |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | IPNAME            | NC         | ISFATTR.NETOPTS.IPNAME                         |
| <i>jesx</i> .MODIFY.SOCKET              | UPDATE          | *F              | IPNAME            | NC         | ISFATTR.NETOPTS.IPNAME                         |
| <i>jesx</i> .MODIFY.SOCKET              | UPDATE          | *F              | JTR               | NC         | ISFATTR.PROPTS.JTRACE                          |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | LINE              | NC         | ISFATTR.NODE.LINE                              |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | NETSRV            | NC         | ISFATTR.NETOPTS.NETSRV                         |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | PORT              | NC NS      | ISFATTR.NETOPTS.PORT                           |
| <i>jesx</i> .MODIFY.SOCKET              | UPDATE          | *F              | PORT              | NC         | ISFATTR.NETOPTS.PORT                           |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | \$T             | REST              | NC         | ISFATTR.LINE.REST                              |
| <i>jesx</i> .MODIFY.SOCKET              | CONTROL         | *F              | SRVNAME           | NC         | ISFATTR.NETOPTS.NETSRV                         |
| <i>jesx</i> .MODIFY.SOCKET              | UPDATE          | *F              | VTR               | NC         | ISFATTR.PROPTS.VTRACE                          |
| <i>jesx</i> .MODIFY.SPOOL               | CONTROL         | \$T             | RES               | SP         | ISFATTR.SPOOL.SYSAFF                           |
| <i>jesx</i> .MODIFY.SPOOL               | CONTROL         | \$T             | SAFF              | SP         | ISFATTR.SPOOL.RESERVED                         |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | BURST             | JDS        | ISFATTR.OUTPUT.BURST                           |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | C                 | JDS        | ISFATTR.OUTPUT.CLASS                           |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | CC                | JDS        | ISFATTR.OUTPUT.COPYCNT                         |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | CHARS             | JDS        | ISFATTR.OUTPUT.CHARS                           |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | CPYMOD            | JDS        | ISFATTR.OUTPUT.COPYMOD                         |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | CPYMOD            | J0         | ISFATTR.PRTOPTS.COPYMOD                        |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | DEST              | JDS        | ISFATTR.OUTPUT.DEST                            |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | FCB               | JDS        | ISFATTR.OUTPUT.FCB                             |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | FLASH             | JDS        | ISFATTR.OUTPUT.FLASH                           |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | FORMS             | JDS        | ISFATTR.OUTPUT.FORMS                           |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | PRMODE            | JDS        | ISFATTR.OUTPUT.PRMODE                          |
| <i>jesx</i> .MODIFY.U                   | UPDATE          | *F              | UCS               | JDS        | ISFATTR.OUTPUT.UCS                             |
| <i>jesx</i> .MODIFY.W                   | UPDATE          | *F              | DGRPY             | PR PUN     | ISFATTR.PROPTS.DGRPY                           |
| <i>jesx</i> .MODIFY.W                   | UPDATE          | *F              | DYN               | PR PUN     | ISFATTR.PROPTS.DYN                             |
| <i>jesx</i> .MODIFY.W                   | UPDATE          | *F              | OPLOG             | PR         | ISFATTR.PROPTS.OPACTLOG                        |
| <i>jesx</i> .RESTART.DEV. <i>device</i> | UPDATE          | *R. See note 3. | B                 | PUN        | ISFATTR.PROPTS.BPAGE                           |
| <i>jesx</i> .RESTART.DEV. <i>device</i> | UPDATE          | *R. See note 3. | CHAR1             | PR         | ISFATTR.PROPTS.CHAR                            |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name         | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--------------------------------|-----------------|-----------------|-------------------|------------|--|
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | CKPTPAGE          | PR         | ISFATTR.PROPTS.CKPTPAGE                        |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | CKPTSEC           | PR         | ISFATTR.PROPTS.CKPTSEC                         |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | COPIES            | PR PUN     | ISFATTR.PROPTS.COPIES                          |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | COPYMARK          | PR         | ISFATTR.PROPTS.COPYMARK                        |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | LINE-LIM-HI       | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | LINE-LIM-LO       | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | NPRO              | PR         | ISFATTR.PROPTS.NPRO                            |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | PAGE-LIM-HI       | PR         | ISFATTR.SELECT.PLIM                            |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | PAGE-LIM-LO       | PR         | ISFATTR.SELECT.PLIM                            |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SCLASS            | PR PUN     | ISFATTR.SELECT.CLASS                           |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SEPDS             | PR PUN     | ISFATTR.PROPTS.SEPDS                           |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SFCB              | PR         | ISFATTR.SELECT.FCB                             |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SFLH              | PR         | ISFATTR.SELECT.FLASH                           |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SFORMS            | PR PUN     | ISFATTR.SELECT.FORMS                           |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SPRMODE1          | PR         | ISFATTR.SELECT.PRMODE                          |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R. See note 3. | SUCS              | PR         | ISFATTR.SELECT.UCS                             |
| <i>jesx.RESTART.DEV.device</i> | UPDATE          | *R              | WORK-SELECTION    | PR PUN     | ISFATTR.PROPTS.WS                              |
| <i>jesx.ROUTE.JOBOUT</i>       | UPDATE          | \$R             | EXECNODE          | I ST       | ISFATTR.JOB.EXECNODE                           |
| <i>jesx.ROUTE.JOBOUT</i>       | UPDATE          | \$R             | PRTDEST           | I ST       | ISFATTR.JOB.PRTDEST                            |
| <i>jesx.START.DEV.device</i>   | UPDATE          | *S              | B                 | PR PUN     | ISFATTR.PROPTS.BPAGE                           |
| <i>jesx.START.DEV.device</i>   | UPDATE          | *S. See note 3. | CHAR1             | PR         | ISFATTR.PROPTS.CHAR                            |
| <i>jesx.START.DEV.device</i>   | UPDATE          | *S. See note 3. | CB                | PR         | ISFATTR.PROPTS.CB                              |
| <i>jesx.START.DEV.device</i>   | UPDATE          | *S. See note 3. | CKPTPAGE          | PR         | ISFATTR.PROPTS.CKPTPAGE                        |

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The variable *jesx* should be replaced by the name of the targeted JES subsystem.

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(continued)

| OPERCMDs Resource Name                           | Required Access | MVS/JES Command | Overtypable Field | SDSF Panel | SDSF Resource Name (UPDATE Authority Required) |
|--|-----------------|-----------------|-------------------|------------|--|
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | CKPTSEC           | PR         | ISFATTR.PROPTS.CKPTSEC                         |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | COPIES            | PR PUN     | ISFATTR.PROPTS.COPIES                          |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | COPYMARK          | PR         | ISFATTR.PROPTS.COPYMARK                        |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S              | CPYMOD            | PR         | ISFATTR.PROPTS.COPYMOD                         |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | LINE-LIM-HI       | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | LINE-LIM-LO       | PR PUN     | ISFATTR.SELECT.LIM                             |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | NPRO              | PR         | ISFATTR.PROPTS.NPRO                            |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | PAGE-LIM-HI       | PR PUN     | ISFATTR.SELECT.PLIM                            |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | PAGE-LIM-LO       | PR PUN     | ISFATTR.SELECT.PLIM                            |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SBURST            | PR         | ISFATTR.SELECT.BURST                           |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SCLASS            | PR PUN     | ISFATTR.SELECT.CLASS                           |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SEPDS             | PUN        | ISFATTR.PROPTS.SEPDS                           |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SFCB              | PR         | ISFATTR.SELECT.FCB                             |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SFLH              | PR         | ISFATTR.SELECT.FLASH                           |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SFORMS            | PR PUN     | ISFATTR.SELECT.FORMS                           |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SPRMODE1          | PR PUN     | ISFATTR.SELECT.PRMODE                          |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | SUCS              | PR         | ISFATTR.SELECT.UCS                             |
| <i>jesx.START.DEV.device</i>                     | UPDATE          | *S. See note 3. | WORK-SELECTION    | PUN        | ISFATTR.PROPTS.WS                              |
| <i>jesx.START.NET</i>                            | CONTROL         | \$S             | APPLID            | LI         | ISFATTR.LINE.APPLID                            |
| <b>MVS.MODIFY.STC.<br/><i>hcproc.hcstcid</i></b> | UPDATE          | MODIFY          | CATEGORY          | CK         | ISFATTR.CHECK.CATEGORY                         |
| <b>MVS.MODIFY.STC.<br/><i>hcproc.hcstcid</i></b> | UPDATE          | MODIFY          | DEBUG             | CK         | ISFATTR.CHECK.DEBUG                            |
| <b>MVS.MODIFY.STC.<br/><i>hcproc.hcstcid</i></b> | UPDATE          | MODIFY          | EINTERVAL         | CK         | ISFATTR.CHECK.EINTERVAL                        |
| <b>MVS.MODIFY.STC.<br/><i>hcproc.hcstcid</i></b> | UPDATE          | MODIFY          | INTERVAL          | CK         | ISFATTR.CHECK.INTERVAL                         |

Table 300. Overtypable Fields Sorted by OPERCMDS Resource Name.

The variable *jesx* should be replaced by the name of the targeted JES subsystem.

Replace *hcproc* and *hcstcid* with the IBM Health Checker for z/OS procedure name and started task ID.

Resources apply to the JES indicated by the command in the MVS/JES Command column: the \$ command character indicates a JES2 command and the \* command character indicates a JES3 command.

(continued)

| OPERCMDs Resource Name                          | Required Access | MVS/JES Command | Overtypable Field   | SDSF Panel              | SDSF Resource Name (UPDATE Authority Required) |
|---|-----------------|-----------------|---|-------------------------|--|
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | REXXHLQ   | CK                      | ISFATTR.CHECK.REXXHLQ                          |
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | PARAMETERS  | CK                      | ISFATTR.CHECK.PARM                             |
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | SEVERITY  | CK                      | ISFATTR.CHECK.SEVERITY                         |
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | USERDATE  | CK                      | ISFATTR.CHECK.USERDATE                         |
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | VERBOSE   | CK                      | ISFATTR.CHECK.VERBOSE                          |
| <b>MVS.MODIFY.STC.</b><br><i>hcproc.hcstcid</i> | UPDATE          | MODIFY          | WTOTYPE   | CK                      | ISFATTR.CHECK.WTOTYPE                          |
| <b>MVS.MODIFY.WLM</b>                           | UPDATE          | MODIFY          | System  | RES                     | ISFATTR.RESOURCE. <i>system</i>                |
| <b>MVS.RESET</b>                                | UPDATE          | RESET           | PGN   | DA                      | ISFATTR.JOB.PGN                                |
| <b>MVS.RESET</b>                                | UPDATE          | RESET           | QUIESCE   | DA                      | ISFATTR.JOB.QUIESCE                            |
| <b>MVS.RESET</b>                                | UPDATE          | RESET           | SRVCLASS  | DA                      | ISFATTR.JOB.SRVCLASS                           |
| <b>MVS.ROUTE</b>                                | READ            | RO              | Any, when the system is other than the one the user is logged on to | DA<br>INIT<br>MAS<br>PR |  |

Notes on Table 300 on page 412:

1. SDSF uses the subsystem interface (SSI) when you overtype the C (JES output class) or DEST (JES print destination name) on the JDS panel. You can change the class or destination without releasing the output. In order to release output when the JESSPOOL class is enabled, the user must have ALTER authority to the JESSPOOL resource. This authority is implied for the JESSPOOL resources created by the user.
2. The SAF resource varies with the JES2 resource. See “JES2 resources” on page 411.
3. In a JES3 environment, the command issued and OPERCMDS resource depend on the action character that is used with the overtype. See Table 298 on page 410.



# Chapter 11. Protecting functions

This topic describes how to protect functions that might require access to allow SDSF to display data on panels.

## Destination names

You can protect destination names that are used on the DEST command and the IDEST parameter of ISFPARMS.

You can also give users operator authority by destination to jobs, output groups, and SYSIN/SYSOUT data sets without explicitly authorizing the users to the JESSPOOL resources. For more information see [“Destination operator authority” on page 430](#).

The DEST command is protected like any other SDSF authorized command; see [“Authorized SDSF commands” on page 265](#).

## Protecting destination names

You use two resources:

- ISFOPER.ANYDEST.*jesx*
- ISFAUTH.DEST.*destname*

You must define the ISFOPER.ANYDEST.*jesx* resource before defining any ISFAUTH.DEST.*destname* resources. Otherwise, unexpected authorization results may occur.

The resources are described in [Table 301 on page 429](#).

Table 301. Authority Required for Destination Names

| Object  | Resource Names                | Class | Access |
|---|-------------------------------|-------|--------|
| <b>Any destination name on the DEST command or IDEST list</b>       | ISFOPER.ANYDEST. <i>jesx</i>  | SDSF  | READ   |
| <b>Specific destination names on the DEST command or IDEST list</b> | ISFAUTH.DEST. <i>destname</i> | SDSF  | READ   |

In the table,

*jesx*

is the name of the JES subsystem. For example, it might be JES2, JESA, or, to protect all JES2 subsystems, JES%.

*destname*

is a destination name in the standard form: ISFAUTH.DEST.Nx.Rx

## Initializing destinations

Each SDSF user should have a set of default destinations. SDSF uses these default destinations to:

- Initialize the SDSF panels
- Respond to a DEST command that is entered with no parameters

When no default destinations are defined, the user's destination filter is set to blanks or the character string ????????, and no jobs appear on the tabular SDSF panels. To establish the default destinations you can:

- Use the IDEST parameter in ISFPARMS. Refer to [“Group function parameters reference” on page 14](#) for more information.

- Give the user access to all destinations with the ISFOPER.ANYDEST.jesx resource.
- Give the user access to specific destinations with the ISFAUTH.DEST.destname resource.

If you don't define default destinations with the IDEST parameter, give the user authority to issue the DEST command. DEST allows the user to define a default set of destinations. The command only has to be entered once, as SDSF saves the values across sessions.

## Example of protecting destination names

To allow USER1 unlimited use of all destination names, define the following profile and give the user READ authority:

```
RDEFINE SDSF ISFOPER.ANYDEST.jesx UACC(NONE)
PERMIT ISFOPER.ANYDEST.jesx CLASS(SDSF) ID(USER1) ACCESS(READ)
```

Then, to restrict the use of the destination names for USER2, define profiles for a specific destination name and give that user READ authority to only that resource:

```
RDEFINE SDSF ISFAUTH.DEST.RMT1 UACC(NONE)
PERMIT ISFAUTH.DEST.RMT1 CLASS(SDSF) ID(USER2) ACCESS(READ)
```

## Destination operator authority

You can give operators access to jobs, output groups, or SYSIN/SYSOUT data sets for a particular destination, without authorizing the operators to those jobs, output groups, or SYSIN/SYSOUT data sets through the JESSPOOL class.

To provide destination operator authority you:

1. Give the user READ authority to the ISFOPER.DEST.jesx profile in the SDSF class. This identifies a user as a destination operator for the SDSF session.
2. Give the user authorization for the profiles that protect destinations for jobs, output groups, and data sets.

The ability to modify output descriptors (Address, Building and so on) on the JDS panel in a JES3 environment cannot be granted using destination operator authority. You must use the resources in the JESSPOOL class, as described in [“Jobs, job groups, output groups, and SYSIN/SYSOUT data sets” on page 431](#).

## Protecting operator authority by destination

The resources are shown in [Table 302 on page 430](#).

Table 302. Authority Required for Destination Operator Authority

| Action Character  | Resource Name   | Class | Access       |
|---|---|-------|--------------|
| //, =, +, ? or Q action characters on the DA, H, I, JDS, JO, O, and ST panels | No security checking is done.                             | N/A   | N/A          |
| S, X, or V action characters on the ELOG, H, I, JDS, JO, O, and ST panels     | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.destname.DATASET.dsname | SDSF  | READ<br>READ |
| S, X, or V action characters on the DA panel                                  | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.DATASET.dsname          | SDSF  | READ<br>READ |
| D or L action characters on the H, I, O, and ST panels                        | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.destname                | SDSF  | READ<br>READ |



Table 302. Authority Required for Destination Operator Authority (continued)

| Action Character   | Resource Name                              | Class | Access        |
|--|--|-------|---------------|
| <b>D or L action characters on the DA panel</b>          | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.         | SDSF  | READ<br>READ  |
| <b>All others on the H, I, JDS, JO, O, and ST panels</b> | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.destname | SDSF  | READ<br>ALTER |
| <b>All others on the DA panel</b>                        | ISFOPER.DEST.jesx<br>ISFAUTH.DEST.         | SDSF  | READ<br>ALTER |

If the user does not have authority to both of the required resources, then the user must have access to the individual job or data set defined in the JESSPOOL class.

If your installation is performing SECLABEL checking, a user must be logged on with the appropriate SECLABEL in order to access the JESSPOOL resources even if the user has operator authorization. For more information about SECLABEL checking, see [z/OS Security Server RACF Security Administrator's Guide](#).

The authority level (READ or ALTER) must be the same as the authority for the JESSPOOL resources, as described in [“Jobs, job groups, output groups, and SYSIN/SYSOUT data sets”](#) on page 431.

## Jobs, job groups, output groups, and SYSIN/SYSOUT data sets

JES uses the JESSPOOL class to protect SYSIN/SYSOUT data sets and the EVENTLOG, which SDSF uses to display job step information. SDSF extends the use of the JESSPOOL class to protect SDSF job and output group resources as well.

SDSF checks a user's SAF authorization to:

- Job resources on the Display Active Users, Input Queue, and Status panels
- Job groups on the Job Group panel
- Output groups on the Held Output Queue, Job Data Set, Output Queue, and Output Descriptors panels
- SYSIN/SYSOUT data sets on the Job Data Set panel, Job 0 panel, and any other panel used for browsing with the S or V action characters and printing with the X action character
- The JES EVENTLOG data set, used for job step information on the Job Step panel.

Controlling access to the commands that display jobs, job groups and output is described in [“Authorized SDSF commands”](#) on page 265.

Protection for each type of resource can be defined separately, so that, for example, a user may be authorized to issue action characters for a job, but not be authorized to browse that job's data sets. Users can always access the JESSPOOL resources they own; they do not need additional authority to work with their own jobs and output.

## Protecting jobs, job groups, output groups, and SYSIN/SYSOUT data sets

If you don't want to make a distinction between types of resources, you can allow users access to everything with the following profile for USER1 on node N1:

```
RDEFINE JESSPOOL N1.USER1.** UACC(NONE)
```

You may also want to allow users to access all JESSPOOL resources by giving them operator authority, as described in [“Destination operator authority”](#) on page 430. Operators do not need explicit authorization to access JESSPOOL resources if they are given operator authority.

In addition, you can use the JESSPOOL class to permit users to select other user's jobs, output, and SYSIN/SYSOUT data sets for browsing, viewing and printing, as described in [“Permitting other users to view your data”](#) on page 432. Also, the JESSPOOL class can be used to provide function comparable to the notify authority provided by ISFPARMS (by specifying NOTIFY for CMDAUTH and DSPAUTH) as described in [“Providing function comparable to NOTIFY authority”](#) on page 433.

Typically, when you define SAF authority for JESSPOOL resources, you will also need to define other authority for action characters and overtypable fields. See [“Table of action characters that generate system commands by OPERCMDS resource”](#) on page 372 and [Table 297](#) on page 388 for the resources to define them. For most action characters, a user must be authorized for jobs or output groups. However, the S, V, and X action characters require authorization only for SYSIN/SYSOUT data sets. No security checking is made for the object when the ?, JD, JM, JP, JS, JY or Q action character is used.

## Job step data

If SMF data exists for the job, SDSF attempts to use SMF records from the JES EVENTLOG data set that are protected by the *nodeid.userid.jobname.jobid.EVENTLOG.SMFSTEP* resource. If access to that resource is denied, or if no SMF data exists for the job, SDSF attempts to use records that are protected by the *nodeid.userid.jobname.jobid.EVENTLOG.STEPDATA* resource. If access to that resource is also denied, access to the JS panel is denied.

Be aware that JES only checks the resource *node.userid.jobname.jobid.EVENTLOG* (without the last qualifier). As a result, to create profiles that work for both cases, you should do one of the following:

- Create two profiles, defined as:
  - *node.userid.jobname.jobid.EVENTLOG*
  - *node.userid.jobname.jobid.EVENTLOG.\**
- Create a single profile defined as *node.userid.jobname.jobid.EVENTLOG\**.

## Security label (SECLABEL) checking

If your installation is performing security label (SECLABEL) checking, a user must be logged on with the appropriate SECLABEL to access JESSPOOL resources. For more information about SECLABEL checking, see [z/OS Security Server RACF Security Administrator's Guide](#).

## Permitting other users to view your data

Users can permit others to select their jobs, output groups, and SYSIN/SYSOUT data sets using the S (browse), V (view page mode), and X (print) action characters.

When using the S, V, and X action characters, the user is not automatically authorized to access all SYSIN/SYSOUT data sets within a job or output group when the user is authorized to access the job or output group itself. Security checks are made for each data set within the job or output group to verify the user's authority to access each data set, and only those SYSIN/SYSOUT data sets to which the user has at least READ authority are displayed.

To protect all of the user's jobs, output groups, and SYSIN/SYSOUT data in the same way, use the following profile to protect resources for USER1 on node N1:

```
RDEFINE JESSPOOL N1.USER1.** UACC(NONE)
```

To just permit USER2 to browse USER1's output:

1. Define the profile:

```
RDEFINE JESSPOOL N1.USER1.*.*.D*. * UACC(NONE)
```

2. Permit USER2 to read USER1's output:

```
PERMIT N1.USER1.*.*.D*. * CLASS(JESSPOOL) ID(USER2) ACCESS(READ)
```

To provide short-term authorization, a user can overtype the DEST field with another user's user ID. This can be done on either the O or H panels.

## Providing function comparable to NOTIFY authority

**Note:** As of SDSF 2.5, the NOTIFY value of DSPAUTH and CMDAUTH is no longer used. The following discussion describes how to use RACF to implement a similar capability.

By specifying a value of NOTIFY for the DSPAUTH and CMDAUTH parameters in the ISFGRP macros or GROUP statements, you can allow a group member to display output and issue commands, respectively, for any job that has the NOTIFY parameter on its job card set to the member's user or group ID. There is no one-to-one SAF equivalent for this authorization.

However, when using RACF, the security administrator and job owner can give a user comparable authority, under the scope of the GENERICOWNER option of the SETROPTS command, through profiles that use the JESSPOOL class, and for CMDAUTH, the OPERCMDS class.

With RACF, when GENERICOWNER processing is in effect, a security administrator can assign ownership to profiles in a general resource class, so that end users can create and/or manipulate those general resource class profiles they own, while ensuring that the end users cannot interfere with profiles created by another user. (For the impact of GENERICOWNER on the CLAUTH user attribute and on the system as a whole, see [z/OS Security Server RACF Security Administrator's Guide](#)).

For an example of providing NOTIFY authority, see [“Examples of protecting jobs and output groups” on page 433](#).

## Examples of protecting jobs and output groups

1. To protect all jobs for user ID USER1 on node N1, issue the following command:

```
RDEFINE JESSPOOL N1.USER1.*.* UACC(NONE)
```

To permit USER2 to access the resource, issue the following command:

```
PERMIT N1.USER1.*.* CLASS(JESSPOOL) ID(USER2) ACCESS(ALTER)
```

2. To protect all output groups for user ID USER1 on node N1, issue the following command:

```
RDEFINE JESSPOOL N1.USER1.*.*.GROUP.* UACC(NONE)
```

Then, to permit USER2 to access this resource, issue the following command:

```
PERMIT N1.USER1.*.*.GROUP.* CLASS(JESSPOOL) ID(USER2) ACCESS(ALTER)
```

The use of the GROUP character string in the fifth qualifier of the profile name distinguishes the output group's profile from other JESSPOOL profiles.

3. To protect all SYSIN/SYSOUT data sets for jobs beginning with DPT on node N1, use the following:

```
RDEFINE JESSPOOL N1.*.DPT*.*.D*.* UACC(NONE)
PERMIT N1.*.DPT*.*.D*.* CLASS(JESSPOOL) ID(USER2) ACCESS(READ)
```

The use of the D character string in the fifth qualifier of the profile name distinguishes the data set's profile from other JESSPOOL profiles.

4. The following example shows how a security administrator can give USER1 at node N1 authority to control access to his own output via the JESSPOOL class. USER1 can then give authority to USER2 to some or all of that output. A generic refresh for USER2 on the JESSPOOL class generic profiles is required for this support to take effect.

The security administrator does the following:

- Activates the GENERICOWNER option:

```
SETROPTS GENERICOWNER
```

- Owns the least specific JESSPOOL profile:

```
RDEFINE JESSPOOL N1.** UACC(NONE) OWNER(SECADM)
RDEFINE JESSPOOL ** UACC(NONE) OWNER(SECADM)
```

- Gives USER1 the ability to create JESSPOOL profiles more specific than N1.USER1.\*\* and to control access to the jobs, output groups, and SYSIN/SYSOUT data sets governed by those profiles:

```
RDEFINE JESSPOOL N1.USER1.** UACC(NONE) OWNER(USER1)
```

The above profile, along with a generic refresh, restricts a user with JESSPOOL class authorization to create and manipulate only a small subset of profiles within the JESSPOOL class (such as N1.USER1.\*\* and any that are more specific).

The security administrator should caution the user not to delete the *nodeid.userid.\*\** profile. If deleted, the user may lose control over any more specific profiles created and the access to them.

- Gives USER1 class authorization to the JESSPOOL class:

```
ALTUSER USER1 CLAUTH(JESSPOOL)
```

- Effects a generic refresh so this support will take effect for newly created profiles, by either:

Creating an STC (started task) that will automatically refresh a specific general resource class at specified intervals of time, or

Instructing USER2, after being permitted by USER1, to log off and logon to effect the refresh. (This method will not work when the JESSPOOL class has SETROPTS RACLIST or GENLIST processing activated.)

With GENERICOWNER support in effect, USER1 can create and manipulate JESSPOOL profiles to control another user's access to his output. USER1 does this as follows:

- The profile N1.USER1.\*\* is defined by the security administrator and USER1 has the following output groups on the Held Output Queue panel:

| JOBNAME      | JOBID  | OWNER |
|--------------|--------|-------|
| <b>JOB A</b> | JOB123 | USER1 |
| <b>JOB B</b> | JOB345 | USER1 |
| <b>JOB C</b> | JOB678 | USER1 |

- To permit USER2 to browse only JOB123, USER1 issues the following commands:

```
RDEFINE JESSPOOL N1.USER1.JOB A.JOB123.**
PERMIT N1.USER1.JOB A.JOB123.** CLASS(JESSPOOL) ID(USER2) ACCESS(READ)
```

- To permit USER2 to issue action characters and overtypes against JOB123, USER1 gives USER2 access of ALTER. Also, USER2 must have authority to the OPERCMDS resources for the MVS and JES commands generated, as described in [“Action characters” on page 371](#) and [“Overtypable fields” on page 385](#).
- For USER2's authorization to take effect, a generic refresh is required. This will be automatic if there is an STC in effect, or USER2 can log off and logon when RACLIST or GENLIST processing for the JESSPOOL class is not in effect.

## SDSF slash (/) command

Most action characters generate MVS or JES commands. The resource names that protect these commands are in the OPERCMDS class. [“Table of action characters that generate system commands by OPERCMDS resource” on page 372](#) shows all the action characters and their resource names.

You can control a user's authority to use the SDSF slash (/) command to issue MVS or JES commands from SDSF. SAF checks the user's authority to use the slash command, but does not check the MVS or JES command or the object of the command. MVS and JES command authorization to the OPERCMDS class is done by MVS and JES only after SDSF authorizes use of the slash command.

You should control use of the slash command as you would a console with master authority.

The character for the slash command can be changed from the default, /, to some other character with a custom property in ISFPARMS. For more information, refer to [“Customized properties \(PROPLIST\)”](#) on page 53.

For more information on the console used by SDSF to issue the command, see [“Issuing MVS and JES commands”](#) on page 452. For more information on protecting the console, see [z/OS MVS Planning: Operations](#).

## Protecting the slash command

Protect the slash command by defining a resource name in the SDSF class. The resource is shown in [Table 303](#) on page 435.

*Table 303. Authority Required for the Slash Command*

| Command   | Resource Name  | Class | Access |
|-----------|----------------|-------|--------|
| Slash (/) | ISFOPER.SYSTEM | SDSF  | READ   |

**Note:** The WHEN(CONSOLE(SDSF)) clause for conditional access checking does not apply to commands issued from the command line.

The character for the slash command can be changed from the default, /, to some other character with a custom property in ISFPARMS. For more information, refer to [“Customized properties \(PROPLIST\)”](#) on page 53.

For more information on the console used by SDSF to issue the command, see [“Issuing MVS and JES commands”](#) on page 452. For more information on protecting the console, see [z/OS MVS Planning: Operations](#).

## Slash command and User Log

The slash command can return a response to the user terminal and write a response to the User Log (ULOG). To have the response sent back to the user's terminal, the user needs authorization to the ULOG command and to the extended console. See [“User log \(ULOG panel\)”](#) on page 357 for information.

## Example of protecting the slash command

To authorize use of the slash command, issue the following commands:

```
RDEFINE SDSF ISFOPER.SYSTEM UACC(NONE)
PERMIT ISFOPER.SYSTEM CLASS(SDSF) ID(userid or groupid) ACCESS(READ)
```



---

## Chapter 12. Using installation exit routines

This topic describes how to use an installation exit routine to customize your security authorization strategy.

**Note:** SDSF's support for installation exits can change. With each new release of SDSF, you should review your exit routines to ensure that they still function correctly, and make changes as necessary. For the most common uses, SDSF's installation exits have been superseded by custom properties in ISFPARMS, which are significantly easier to define and maintain. For more information, see [“Customized properties \(PROPLIST\)”](#) on page 53.

As of SDSF 2.5, only the ISFUSER initialization, termination, and pre-SAF exits are called. In addition, the exits receive control in key 4, rather than key 1 as in prior releases. If you have existing ISFUSER exit routines, these environmental changes might affect their functionality and resource use (such as the storage subpool and key for any GETMAIN or FREEMAIN operations).

**Important:** The pre-SAF exit is driven *before* the initialization exit due to the security processing logic that is used to build the user's environment prior to SDSF initialization.

---

### Installation exit routines

You can write installation exit routines for the set of installation exit points provided by SDSF. These routines can supplement the authorization you established with ISFPARMS and the SAF security interface. Your installation exit routines supply customized authorization processing for your installation and return to SDSF their authorization decisions.

The PROPLIST and PROPERTY statements provide an alternative to some of the customization available through the exit routines. For more information, see [“Customized properties \(PROPLIST\)”](#) on page 53.

### Using the ISFUSER module

You add your installation exit routines to the ISFUSER module supplied by SDSF in member ISFUSER of the ISF.SISFSRC data set. As supplied, module ISFUSER performs no authorization functions and is always present, whether you add installation exit routines or not.

Instructions for the use of module ISFUSER are contained in the module, which indicates where you should add the code to be used for each exit point. The module also has information about the function codes and registers used in the exit point interface. Note that the pre-SAF exit will be the first exit point.

ISFUSER is called and must return in 31-bit mode, key 4, and supervisor state. To install the ISFUSER module after adding installation exit routines, perform SMP/E RECEIVE and APPLY.

You cannot share the ISFUSER module across SDSF releases. Although your implementation may be the same, you must re-install your modifications on each release running SDSF.

### ISFUPRM macro

The installation exit routine can use parameters supplied in the ISFUPRM macro, which maps the user parameter area. A pointer to the user parameter area is passed to ISFUSER upon entry. The user parameter area contains such information as:

- User ID, logon procedure name, and terminal name
- User authority based on ISFGRP macro or GROUP specifications
- Prefix and group prefix information defined in ISFGRP macros or GROUP statements
- Pointers to include and exclude lists defined in ISFGRP macros or GROUP statements
- Pointers to the primary and alternate field lists defined in ISFFLD macros or FLD statements

- Pointers to destination name tables and user selected node/remote names defined in ISFNTBL macros or NTBL statements
- Trace table information
- Job information

To communicate between exits, you can establish a user data area and anchor it in field UPRUWORD. This field is passed unmodified to all exits. If you obtain storage and anchor it in UPRUWORD, you must release the storage in the termination exit.

## Installation exit points

The installation exit points within SDSF link to the ISFUSER module at entry point ISFUSER. SDSF provides the following exit points for installation routines to customize authorization:

| Exit Point              | Use to Control                                   |
|-------------------------|--|
| <b>Initialization</b>   | Who can use SDSF                                 |
| <b>SDSF termination</b> | Termination processing                           |
| <b>Pre-SAF</b>          | How the SAF authorization decision is to be made |

These exit points are described in detail in the remainder of this topic. The descriptions include input, output (if any), and return codes.

Note that the following exit points are obsolete in SDSF 2.5 or later:

| Exit Point                      | Previously Used to Control                   |
|---------------------------------|--|
| <b>Command Authority</b>        | Which commands users can issue               |
| <b>SYSOUT Display Authority</b> | For which jobs users can display output      |
| <b>Post-SAF</b>                 | Accept or ignore result of SAF authorization |
| <b>SAF indeterminate</b>        | Action for SAF indeterminate responses       |
| <b>Table build</b>              | What is displayed on tabular panels          |

## SAF considerations for exit points

For information about the SAF resources used for SDSF security, see [Chapter 8, “Protecting SDSF panels and functions,”](#) on page 265.

As of SDSF 2.5, the Command Authority and SYSOUT Display Authority exits are no longer taken.

Use the SDSF exits for SAF calls made by SDSF. SAF calls may be made by other components; for example, JES2 makes a SAF call for a resource in the JESSPOOL class when you browse a data set. You cannot affect SAF calls made by other components with the SDSF exits.

## Initialization exit point

This exit is taken during SDSF initialization after all of the authorization parameters from ISFPARMS and the ISPF profile have been moved into the user parameter area. The initialization exit routine can control authorization to use SDSF.

The initialization exit routine also controls the source of information for the Display Active Users panel.

The initialization exit point may not be the first exit called by SDSF. In particular, security related exits such as the pre-SAF exit are called prior to the initialization exit point.

In addition, your initialization exit can set the following to B'1' to perform other functions.



**Note:** Many of these settings are also controlled through custom properties defined in ISFPRMxx. Using ISFPRMxx is the preferred method of enabling an option, rather than implementing the initialization exit.

| Field                    | Description  |
|--------------------------|--|
| <b>UPRSFLAG.UPRNORMF</b> | Derive information for the DA panel directly from MVS control blocks rather than from RMF  |
| <b>UPRSFLAG.UPRNORMS</b> | Disable use of sysplex DA  |
| <b>UPRCKLIM</b>          | Sets the default maximum number of instances for each health check that will be read from the logstream for the CKH panel. Users can override this with the SET CKLIM command.   |
| <b>UPRCMDLM</b>          | Sets the number of system commands entered with the / command that SDSF stores. When the number is exceeded, the oldest command is removed from the list. The default is 1,000. System commands are stored only when using SDSF under ISPF.  |
| <b>UPROFLG1.UPRO1GHO</b> | Append a generic pattern-matching character to the job specified with the H command, unless the prefix already ends with a generic character or is already the maximum length (8 characters). For example, if the user enters H GREER, this setting would result in a prefix of H GREER*.  |
| <b>UPROFLG1.UPRO1GPF</b> | Append a generic pattern-matching character to the prefix specified with the PREFIX command, unless the prefix already ends with a generic character or is already the maximum length (8 characters). For example, if the user enters PREFIX JONES, this would result in a prefix of JONES*.   |
| <b>UPROFLG1.UPRO1GST</b> | Append a generic pattern-matching character to the job specified with the ST command, unless the prefix already ends with a generic character or is already the maximum length (8 characters). For example, if the user enters ST GREER, this setting would result in a prefix of ST GREER*.   |
| <b>UPROFLG1.UPRO1LNF</b> | Specifies the SAF logging option to use when a job's data sets are browsed from an SDSF panel, with the exception of the JDS panel. If the value is TRUE, the SAF logging setting is LOG=NOFAIL (rather than the default, LOG=ASIS).   |
| <b>UPROFLG1.UPRO1SFW</b> | Controls issuing a warning message when a SAF no-decision is converted to a failure  |
| <b>UPROFLG2.UPRO2DNL</b> | Affects normalization of the CPU% column on the DA panel. If the value is TRUE, the CPU% column is normalized using the LPAR value for CPU busy for the system. If the value is FALSE, the CPU% column is normalized with the MVS value for CPU busy for the system. The LPAR value takes into account several states related to PR/SM. The LPAR value requires RMF. If the LPAR value is not available, SDSF uses the MVS value to normalize the CPU% column. FALSE is the default. |
| <b>UPROFLG2.UPRO2DU8</b> | Controls how device names are formatted on the PUN panel. If the value is TRUE, the device names are shown in a shortened format. Otherwise, the name is shown with dots between subtypes.   |

| Field                    | Description   |
|--------------------------|---|
| <b>UPROFLG2.UPRO2DR8</b> | Controls how device names are formatted on the RDR panel. If the value is TRUE, the device names are shown in a shortened format. Otherwise, the name is shown with dots between subtypes.  |
| <b>UPROFLG2.UPRO2NMD</b> | Disables modification of the console name when console activation fails due to the console being in use. A value of TRUE disables the function and a value of FALSE enables it. FALSE is the default.   |
| <b>UPROFLG2.UPRO2NPS</b> | Disables point-and-shoot fields such as column titles.  |
| <b>UPROFLG3.UPRO3NOD</b> | Controls whether duplicate SYSOUT data sets are included when you browse or print a job.  |
| <b>UPRSFLG3.UPRS3MEM</b> | Restricts user access to jobs that have run or will run on another member in a MAS configuration  |
| <b>UPRSFLG3.UPRS3NOF</b> | Bypasses all filtering for DA, H, I, O and ST, including include and exclude lists set in ISFPARMS  |
| <b>UPRSFLG3.UPRS3SWP</b> | Specifies that, when browsing job data sets, SDSF should not gather data from in-core buffers if the job is swapped out. This is ignored for systems other than the one you are logged onto.  |
| <b>UPROFLG4.UPRO4CDP</b> | Controls whether the size of the System Command Extension pop-up varies with the screen size of the emulator session.   |
| <b>UPROFLG4.UPRO4JSM</b> | Controls scope of the SYM panel.  |
| <b>UPRSFLG4.UPRS4NCM</b> | Disables use of communications between servers in a server group  |
| <b>UPRSFLG5.UPRS5CSX</b> | Allows sharing of an EMCS console if it is in use but was activated in a different address space than the user. Console sharing means that commands will be issued using that console, and any responses will be directed to the ULOG for the task that has activated the console. The option to allowing sharing is effective only when console sharing is permitted. See UPRSFLAG.UPRSNOCS. |
| <b>UPRSFLG5.UPRS5DSI</b> | Specifies that the system SIO rate is included on the title line of the DA panel, but the system zAAP use is not.   |
| <b>UPROFLG6.UPRO6NJM</b> | Disables use of SDSFAUX for Job Memory (JM) panel. Ignored, SDSFAUX is always used.   |
| <b>UPROFLG6.UPRO6NJD</b> | Disables use of SDSFAUX for Job Device (JD) panel. Ignored, SDSFAUX is always used.   |
| <b>UPROFLG6.UPRO6INN</b> | Controls command generation on the initiator panel.   |
| <b>UPROFLG6.UPRO6NRA</b> | Controls right alignment of values in numeric columns.  |
| <b>UPROFLG6.UPRO6NDA</b> | Controls use of the SDSFAUX data gatherer for the DA panel.   |
| <b>UPRSFLG6.UPRS6JS3</b> | ON if SDSF is running under JES3. <sup>1</sup>  |
| <b>UPRS6FSY</b>          | Controls the use of system symbols with filtering.  |
| <b>UPRSSNME</b>          | Contains the JES subsystem name for the JES that SDSF is running under. <sup>1</sup>  |

| Field           | Description  |
|-----------------|--|
| <b>UPXCONSF</b> | Names the list of suffixes to use when modifying the console name when the console activation fails due to the console being in use. The default is \$#@12345. |

**Note:**

1. SDSF invokes other exit points prior to the initialization exit point (such as the pre-SAF call). Fields listed for the initialization exit point are not available for exit points that are invoked earlier.

## Input

- Function code (X'00') in register 0
- Address of user parameters (ISFUPRM) in register 1

## Return codes

### 00

Allows the user to use SDSF.

### Nonzero

The user is not authorized to use SDSF. Message ISF024I is issued.

## SDSF termination exit point

This exit is taken during SDSF termination prior to any data sets being closed or storage being freed.

## Input

- Function code (X'0C') in register 0
- Address of user parameters (ISFUPRM) in register 1

## Return codes

No return codes are expected from this exit.

## Pre-SAF exit point

This exit is taken prior to the call to SAF and prior to the initialization exit. It allows the installation to control how the authorization decision is to be made. It is taken only for SAF calls done by SDSF. In addition to the SAF calls done by SDSF, SAF calls may be made by other components.

## Input

- Function code (X'10') in register 0
- Address of user parameters (ISFUPRM) in register 1
- SAF class name being checked is in field UPRCLASS
- Resource name area is pointed to by UPRRSCN. The first halfword is the length of the resource name which is followed by the resource name.
- Authorization required for the resource is in field UPRATTR. The values are:
  - X'02'— READ
  - X'04'— UPDATE
  - X'08'— CONTROL
  - X'80'— ALTER

## **Return codes**

### **00**

Perform SDSF SAF call.

### **04**

Skip SDSF SAF call and allow access.

### **08**

Skip SDSF SAF call and deny access.

### **Other**

Same as return code 08, but IBM recommends that the return code be explicitly set to 08 to indicate that access is to be denied.

## Chapter 13. SDSF health checks

SDSF provides health checks that run under the z/OS Health Checker. The SDSF checks are automatically added when the SDSF server starts. The owner for all SDSF health checks is IBMSDSF.

### **SDSF\_CLASS\_SDSF\_IS\_ACTIVE**

**Description:**

Determines that the SDSF SAF class is active and verifies the resources used by SDSF are defined.

**Reason for check:**

Access to resources in the SDSF class are required to use various SDSF functions, such as display of panels. The check can be used to develop the profiles needed to control SDSF. This check only verifies profiles in the SDSF class although SDSF uses other classes such as JESSPOOL and OPERCMDS.

**z/OS release the check applies to:**

z/OS V1R1 and later.

**Parameters accepted:**

None

**User override of IBM values:**

None

**Debug support:**

No

**Verbose support:**

No

**Messages:**

This check issues the following messages:

- ISFH1008I
- ISFH1015I
- ISFH1016E
- ISFH1017I
- ISFH1022E
- ISFH1023E
- ISFH1024E
- ISFH1025I
- ISFH1027E
- ISFH1033E

### **SDSF\_ISFPARMS\_IN\_USE**

**Description:**

Determines that the SDSF server is active and the ISFPRMxx member that is in use.

**Reason for check:**

The SDSF server is required to be active for access to SDSF.

**z/OS release the check applies to:**

z/OS V1R1 and later.

**Parameters accepted:**

SERVER(server-name) is obsolete but accepted for compatibility with prior releases.

**User override of IBM values:**

None

**Debug support:**

No

**Verbose support:**

No

**Messages:**

This check issues the following messages:

- ISFH1001I
- ISFH1002I
- ISFH1003I
- ISFH1008I
- ISFH1009I

---

## Chapter 14. Installation and configuration considerations

This topic describes several considerations when installing or configuring SDSF.

### Configuring SDSF for the first time

---

Several tasks need to be performed when you are installing SDSF for the first time. The steps are described in this topic and assumes that the SDSF product has been installed on your system and enabled.

In the tasks that follow, the default SDSF data set names are used, but your installation may have modified the high level qualifier.

### Add SDSF runtime data sets to the link list and LPA

The SDSF runtime data sets are ISF.SISFLOAD and ISF.SISFLPA.

#### Add ISF.SISFLOAD to the lnklst

Add ISF.SISFLOAD to the lnklst using either the LNKLIST or PROGxx parmlib members.

#### Add ISF.SISFLOAD to the APF list

ISF.SISFLOAD must be APF authorized. This can be done through LNKAUTH=LNKST in IEASYSxx, adding ISF.SISFLOAD to your IEAAPFxx member, or setting ISF.SISFLOAD in your PROGxx member.

#### Add ISF.SISFLPA to the LPA

ISF.SISFLPA must be in the LPA. This can be done using the LPAListxx or PROGxx parmlib members.

### Set up the SDSF server

The SDSF server consists of several address spaces. Sample JCL is provided in ISF.SISFJCL and must be copied to your system proclib data set.

Copy the sample JCL as follows:

- Copy ISF.ISFJCL(SDSF) to SYS1.PROCLIB(SDSF)
- Copy ISF.ISFJCL(SDSFAUX) to SYS1.PROCLIB(SDSFAUX)

### Configure the SDSF parmlib member ISFPRMxx

The SDSF server reads parmlib member ISFPRMxx during startup or when a parmlib refresh occurs.

By default, ISFPRM00 is read but a different member can be specified.

Copy ISF.ISFJCL(ISFPRM00) to a data set contained in your system logical parmlib concatenation.

ISFPRM00 contains defaults suitable for many installations. Refer to Chapter 2, [“Using ISFPARMS for customization,”](#) on page 7 for information about how to tailor the member to your needs.

## Set up SDSF server security

The SDSF server address spaces should be running under a user identity.

### Assign an identity to the SDSF address spaces

If you are running RACF, the identity is assigned through profiles in the STARTED class.

Both SDSF and SDSFAUX can be running under the same user ID. The server requires access to some SAF resources. See [Chapter 3, “Using the SDSF server,” on page 73](#) for more details.

### SAF class usage

SDSF checks resources in several SAF classes based on the action being performed.

The SDSF class is used to control SDSF itself, as well as what functions a user may perform. The SDSF class should be active.

SDSF checks resources in other classes to control what actions can be performed. The definition of those resources is provided by the subsystem that owns the resource. Some of those resources are:

- JESSPOOL class resources protect JES jobs and spool data sets.
- OPERCMDS class resources protect MVS, JES, and other system commands that might be issued.
- WRITER class resources protect devices such as printers.

For details on each of the resources checked by SDSF, see the related links.

#### Related reference

[“Protecting SDSF panels and functions” on page 265](#)

[“Protecting secondary SDSF panels” on page 361](#)

[“Protecting action characters and overtypable fields” on page 371](#)

[“Protecting functions” on page 429](#)

[“SDSF resource names for SAF security” on page 607](#)

## Start the SDSF server

The SDSF server is started with an operator START command (for example, **S SDSF**).

### Update COMMNDxx

The SDSF address space will internally start the SDSFAUX address space. You should update your COMMNDxx parmlib member to start SDSF when the system is IPLed. This can be done with a statement similar to **COM= 'S SDSF'**.

### Review the SDSF logs

When the server starts, it creates logs describing the options in use and any errors found during initialization. The logs are created as sysout data sets owned by the SDSF address space.

You can use the logs to diagnose any errors that occur during SDSF initialization. The logs are:

- HSFLOG describes SDSF initialization
- SDSFLOG describes ISFPRMxx processing
- MAPLOG describes memory map processing



## Enable SDSF as an ISPF dialog

### Make SDSF data sets accessible to ISPF

To run SDSF as an ISPF dialog, the SDSF ISPF data sets must be accessible to ISPF. This can be done either by adding the data sets to the logon proc or adding the data sets as ISPF libdefs.

The data sets are:

- ISPPLIB: ISF.SISFPLIB (panels)
- ISPMLIB: ISF.SISFMLIB (messages)
- ISPSLIB: ISF.SISFSLIB (skeletons)
- ISPTLIB: ISF.SISFTLIB (tables)
- SYSEXEC: ISF.SISFEXEC (execs)

### Modify the ISPF main panel

You can access SDSF through ISPF option 13.14, which is supplied by ISPF.

Many installations prefer to add option S to the ISPF main panel. This is described in [“ISPF considerations”](#) on page 447.

## ISPF considerations

z/OS provides sample ISPF primary option menus with SDSF and other elements and features already added under option 13.14, as described in the program directory. If you want to add SDSF to your own customized ISPF menu, you should add text to the body for the SDSF menu option, for example:

```
S  SDSF          System Display and Search Facility
```

and update the ZSEL statement in the PROC section to invoke SDSF with the ISFISP entry point, as shown in the following excerpt. The lines added for SDSF are shown in **bold**.

```
.
.
.
7, 'PGM(ISPYXDR) PARM(&ZTAPPLID) SCRNAME(DTEST) NOCHECK'
8, 'PANEL(ISRLPRIM) SCRNAME(LMF)'
9, 'PANEL(ISRDIIS) ADDPOP'
10, 'PGM(ISRSCLM) SCRNAME(SCLM) NOCHECK'
11, 'PGM(ISRUDA) PARM(ISRWORK) SCRNAME(WORK)'
   S, 'PANEL(ISFSDOP2) NEWAPPL(ISF) SCRNAME(SDSF)'
   X,EXIT
SP, 'PGM(ISPSAM) PARM(PNS)'
.
.
.
*, '?' )
IF (&ZCMD = 'S')
  &ZSEL = 'PGM(ISFISP) NOCHECK NEWAPPL(ISF) SCRNAME(SDSF)'
IF (&ZCMD = 'S.')
  &ZSEL = 'PGM(ISFISP) NOCHECK NEWAPPL(ISF) SCRNAME(SDSF)'
```

**Note:** The IF statements are required. Failure to include this logic may result in an incorrect number of rows being displayed on split screens, a failure to process additional options specified on the S command, or message ISF922E. The IF statements must be added after the ZSEL statement.

If you want to be able to invoke SDSF as a command from within ISPF, you can add SDSF to the ISPF command table. This can be done using the ISPF Command Table Utility accessed with ISPF option 3.9. You can define the entry to start SDSF with an initial panel, or can specify whether ISPF is to start a new session or a new instance of SDSF running in the same session.

The following examples show different types of invocations.

```
Verb  T  Action
SDSF  0  SELECT PGM(ISPSTRT) PARM(S)
```

```
Verb  T  Action
SDSF  0  SELECT PGM(ISFISP) NEWAPPL(ISF) SCRNAME(SDSF)
```

```
Verb T Action
SDSF 0 SELECT PGM(ISFISP) NEWAPPL(ISF) PARM(&ZPARM)
```

```
Verb  T  Action
SDHQ  0  SELECT PGM(ISFISP) NEWAPPL(ISF) PARM(H)
```

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Filter criteria remain in effect until you add new filters or turn filtering off. Filter criteria are saved in the ISPF profile when SDSF ends.

**mode**

Is the relationship between filters:

**AND**

The row must match all filters.

**OR**

The row must match any filter.

This is valid only when ISPF is invoked from a web client.

**action-character**

Is an action character to be applied to the tabular panel. If building the panel or applying the filters results in more than one row, or if the panel is not a tabular panel, the action character is ignored. This is valid only when ISPF is invoked from a web client.

## Specifying that SDSF should process JES2

By default, SDSF determines whether to process JES2 or JES3. You can specify that SDSF should not do that determination and process JES2 by invoking it with an alternate command: use ISFISP2 rather than ISFISP in the PROC section of an ISPF panel, and SDSF2 rather than SDSF in an ISPF command table.

## Using the z/OS UNIX file system for session settings

SDSF saves settings such as prefix, owner, arrange, filter, and sort criteria across SDSF sessions. By default, the ISPF profile is used to save the settings. You can configure SDSF to instead use the z/OS UNIX file system to save settings, which offers some advantages over ISPF.

The ISPF profile has a fixed size for each application and thus limits the amount of data that can be saved. When the file system is used, there is no limitation on the number of settings that can be saved, other than available space in the file system.

Additionally, when using the file system, settings are saved both when SDSF is running as an ISPF dialog and when running under TSO.

The first time the file system is used for the settings, SDSF will create the required directories and migrate any saved ISPF settings to the file system. Any updates to the file system settings will not be saved back to the ISPF profile.

### Requirements

To use the z/OS UNIX file system, the user must have the following:

- An OMVS segment defined to RACF
- A home directory defined
- The ability to create directories under the home directory
- Adequate space in the home directory to save the session-setting documents

SDSF will create the required directory structure upon entry to SDSF. If the directories cannot be created or accessed, SDSF will fall back and use the ISPF profile.

### Profile root path

The file system session settings are saved in a path created under the user's home directory. The path used is:

```
{homedir}/.isf/{userid}/{proffpath}/{screen-name}
```

Where:

- *homedir* is the home directory for the user
- *userid* is the userid of the current user
- *proppath* is an optional path qualifier
- *screen-name* is the ISPF screen name when non-blank and not "SDSF"

Additional directories that are used by SDSF will be created under the root path.

A message will be written to the ULOG with the actual path name used.

## Profile documents

SDSF stores various profile documents under the profile root path. You should not edit the documents or use them as input to other applications. The documents are exclusively for SDSF use.

## User override of profile type

SDSF implements special DD names to allow the user to select the profile type to be used. This allows the installation to define the default and the user can override based on personal preference. For more information, see [z/OS SDSF User's Guide](#).

When the GROUP PROFILE(ISPFONLY) option is in effect in ISPFPRMxx, the user cannot override usage of the ISPF profile.

## JES2 considerations

---

This topic discusses special considerations for JES.

### DESTDEF considerations

The JES2 DESTDEF initialization statement controls how destination names are displayed and controlled. The values of DESTDEF control how SDSF processes destinations.

If DESTDEF SHOWUSER=WITHLOCAL is coded, then destinations of the form *local-node.userid*, which are otherwise displayed as *userid*, are displayed as *LOCAL.userid*.

If you changed the field list definitions for the PR display and you coded a default width for the destination column in the ISFFLD macro or FLD statement (that is a width of 'D'), then the length of the column will be 18 rather than 8 to accommodate the longer destination name that will be displayed.

### SDSF with a secondary JES2 subsystem

SDSF can process data from a secondary JES2 subsystem. This allows you to use SDSF for JES subsystems that you may be testing.

All SDSF functions are available when processing a secondary JES, with the following restrictions:

- The LOG command displays all SYSLOG data sets on spool. Since MVS allocates the SYSLOG data sets using the primary JES, there may be no SYSLOG data sets on the secondary spool. This may lead to no data being shown when the LOG display is accessed. However, if OPERLOG is active, the LOG command will display the log data from the OPERLOG regardless of the JES being processed.
- The C, O, and P action characters, and the C and DEST overtypes will not be available on the Job Data Set (JDS) display.

## JES3 considerations

---

SDSF may be invoked on either a local or global processor.

SDSF retrieves information about the JES being processed, including the JES3 global system name, during initialization. As a result, if a JES3 DSI is done to move the global system, SDSF users must re-access SDSF so that initialization can take place.

ISFPARMS must be in the statement format (parmlib member ISFPRMxx) rather than the assembler macro format. ISFPRMxx is processed by the SDSF server, which must be started. If the initial ISFPRMxx fails to activate and the server falls back to ISFPARMS, SDSF will use the default ISFPARMS regardless of any modifications you have made to ISFPARMS.

SDSF security must be provided by SAF rather than ISFPARMS.

For new SDSF function to be available, both the processor from which SDSF is invoked and the JES3 global processor must have SDSF at the level that provides the new function.

## Getting started running SDSF in the JES3 environment

The following tasks are associated with running SDSF in a JES3 environment.

| Task                           | Reference Information  |
|--------------------------------|--|
| <b>Prepare ISFPRMxx.</b>       | <a href="#">“ISFPARMS in the JES3 environment” on page 451</a>   |
| <b>Start the SDSF server.</b>  | <a href="#">Chapter 3, “Using the SDSF server,” on page 73</a>   |
| <b>Implement SAF security.</b> | <a href="#">Chapter 5, “Using SAF for security,” on page 253</a> |

### ISFPARMS in the JES3 environment

The statements in parmlib member ISFPRMxx are largely the same for JES2 and JES3 environments. If you have a mixed JES2 and JES3 environment, you can use a single ISFPRMxx parmlib member. When processing ISFPRMxx, SDSF ignores statements and keywords that do not apply to the current JES type, such as statements and keywords that define field lists for panels that are not supported in the JES3 environment.

A JES3NAME parameter of the OPTIONS statement allows you to specify the JES3 that is to be processed. The syntax is as follows:

```
JES3NAME (* ) | (JES-name)
```

Indicates the name of the JES3 subsystem. The name can be 1 to 4 characters. The default is \*, which requests the JES system the user is currently running under.

The details of the differences for the JES3 environment are included in the descriptions of the ISFPARMS statements in [Chapter 2, “Using ISFPARMS for customization,” on page 7](#).

You can use the SET SECTTRACE command, or the SECTTRACE parameter on the SDSF command, to view the results of all SAF calls in the ULOG.

## SDSF considerations

SDSF does not support more than a single instance of SDSF executing under the same task control block (TCB).

SDSF makes use of 64-bit memory wherever possible. If you use the z/OS default of 2GB for all address spaces, then no action is required. If you have set a MEMLIMIT default for TSO users and batch jobs that is below 512MB, consider increasing the value to avoid any problems relating to SDSF use of 64-bit memory.

### SDSF panel dependencies

Some SDSF panels require features or functions to be enabled to display data. These dependencies are listed in the Dependency column on the CMDH panels.

## Issuing MVS and JES commands

---

SDSF uses a console when issuing MVS or JES commands that were entered with a / command. The console used varies.

System commands are stored in the ISPF profile for use the next time that you access SDSF. To increase the number of commands that are stored, you can allocate an ISPF table data set.

### Console for issuing MVS and JES commands

SDSF uses a console when issuing MVS or JES commands that were entered with a / command. The console used varies. SDSF attempts to activate an extended console so that command responses can be returned to the user. If console activation fails, SDSF uses console ID 0 (the internal console) when issuing commands. Any command responses will appear in the SYSLOG, but will not be returned to the user.

As of SDSF 2.5, ULOG authority is no longer required to activate an extended console. The console will be activated as long as the user has READ access to the MVS.MCSOPER.*consname* resource in the OPERCMDS class.

Users can request that SDSF use a console ID of 0 with the i parameter on the / command (*i/command*). For this to be accepted, a console ID of 0 must be allowed by the setting for EMCSREQ in ISFPARMS.

Installations should control use of the / command as they would a console with master authority. For more information, see “Group function parameters reference” on page 14. For information on protecting consoles, see [z/OS MVS Planning: Operations](#).

### Extended console name

The name of the extended console used by SDSF defaults to the user ID. Users can change it with the SET CONSOLE command.

When SDSF needs to activate an extended console and the default console name is in use (for example, when you invoke SDSF from a REXX exec while also using SDSF interactively) SDSF attempts to activate a new console with a different name, which is derived by modifying the default console name. To modify the name, SDSF appends 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 for the modification to occur.

You can control console name modification with:

- The SET CONMOD (ON|OFF) command, which turns console name modification on and off.
- In ISFPARMS, the custom property Console.EMCS.ConModChars, which specifies the characters to be used as the suffix. By default, the characters are \$#@12345.
- In ISFPARMS, the custom property Console.EMCS.NoConMod, which turns console name modification off.
- In a REXX exec, with the ISFCONMOD special variable.
- In a Java program, with ISFRequestSettings.

### Storing MVS and JES commands

System commands that are entered with the slash (/) command, along with any comments and groups, are stored on exiting SDSF, so that they can be displayed and reissued in the next SDSF session. By default, they are stored in the ISPF profile. Up to 50 commands can be stored this way.

When an ISPF table data set is allocated for that purpose, SDSF can store up to 2,000 commands, depending on an option for your installation. The default is 1,000.

The 20 most recent commands are displayed in the list on the System Command Extension pop-up. The complete list is displayed with the Details function key (PF6).

The ISPF table data set must exist before using SDSF, and have these properties:

**Type**

PDS or PDSE

**RECFM**

FB

**LRECL**

80

**Size**

A good starting point is 100 blocks using a block size of 29720. The size that is required depends on the length of the commands, comments and group names, as well as the block size of the data set. The maximum size of each command entry is approximately 500 bytes. SDSF also adds header information.

If the data set runs out of space, a system abend occurs, and commands created during that session are lost. To avoid the abend, allocate the space generously and use secondary extents.

**Note:** The maximum size of a command entry may change in the future.

Once the table data set is created, it must be allocated to ddname ISFTABL prior to accessing SDSF. For example, if the data set is ibmuser.sdsf.tabl, you could use this command:

```
alloc fi(isftabl) da('ibmuser.sdsf.tabl') shr reus
```

Like the ISPF profile, the ISFTABL data set should be unique for each user. IBM does not recommend sharing the ISFTABL data set across users.

For more information about the option to control the number of commands that are stored, refer to the description of the Command.SLASH.CommandLimit custom property in [“Customized properties \(PROPLIST\)”](#) on page 53.

## Recovering from the system abend

### About this task

If the table data set runs out of space, a system abend occurs, and commands entered during that session are lost.

You then need to perform the following.

### Procedure

1. Exit SDSF.
2. Free the table data set.
3. Re-access ISPF.
4. Allocate a data set with a larger size.
5. Copy the contents of the original data set to the new data set, so that you do not lose any previously stored commands.
6. Allocate the new data set to ddname ISFTABL.

## RMF considerations

---

The following require that RMF Monitor I be started:

- The DA panel for all columns
- LPAR, zIIP, and zAAP statistics on the DA panel
- The PAG panel
- The DEV panel

By default, Monitor I is started when you start RMF.

**Note:** When RMF Monitor I is not active or RMF is not installed, the DA panel will show a small subset of all panels.

RMF Monitor I is also needed to obtain the LPAR and zAAP views of CPU utilization displayed on the title line of the DA panel, and the values for the SzaAP% and SzIIP% columns on the DA panel.

The following requires that RMF Monitor III be started:

- The Job Delay panel (accessed with the JY action character).
- The CFSA panel
- The LPAR panel

RMF Monitor III can be started with an operator command similar to the following, once the RMF control session has been started:

```
F RMF,S III
```

For more information, refer to [z/OS Resource Measurement Facility User's Guide](#).

SDSF uses RMF to gather data for the DA, PAG, DEV, and job delay panels. Use of RMF is protected using resources in the FACILITY class. The following resources are required to allow SDSF to use RMF for data gathering:

| Table 304. Required Resource Access for RMF-based Panels |   |                 |
|--|---|-----------------|
| User   | FACILITY class resource name  | Required access |
| SDSF server (typically userid SDSF)                      | ERBSDS.MON2DATA   | READ            |
| SDSF users   | ERBSDS.MON3DATA<br>ERBSDS.MON3EXIT.ISFRMFXR<br>ERBSDS.MON3EXIT.ISFRMFXF | READ            |

Access to these resources is optional. However, when the server or the user does not have the required access, the RMF-based panels are not available.

## SDSF generic trackers

SDSF generic tracker events are created to provide information about some functions or configuration changes. You can use the “Generic Tracker panel (GT)” on page 126 to view generic tracker events.

| Table 305. SDSF Generic Tracker Events   |         |   |   |              |
|--|---------|---|---|--------------|
| Event  | OWNER   | EVENTDESC                                 | PROGRAM                                 | EVENTDATA    |
| Server started in NOPARM mode. Fallback to a default ISFPARMS is occurring.                              | IBMSDSF | SDSF NOPARM FALLBACK: ISFPRMXX NOT ACTIVE | The SDSF module that detected the event | Set to zeros |
| Track SDSF batch and AFD usage. Can identify processes that might be potentially converted to SDSF REXX. | IBMSDSF | SDSF BATCH IN USE or SDSF AFD IN USE      | The SDSF module that detected the event | Set to zeros |



Table 305. SDSF Generic Tracker Events (continued)

| Event   | OWNER   | EVENTDESC   | PROGRAM                                 | EVENTDATA    |
|---|---------|---|---|--------------|
| The special dd ISFMIGNB is used to disable color and highlighting support. Note that this event is not created when the custom property Browse.Enhanced.DisableAttrs is used.   | IBMSDSF | SDSF ENHANCED BROWSE DISABLED: ISFMIGNB ALLOCATED | The SDSF module that detected the event | Set to zeros |
| The SDSF profile is used to save values across SDSF sessions and is specified in ISFPRMxx. The settings can either be saved in the ISPF profile or in a z/OS UNIX file. The user can override the specification in ISFPRMxx using a special DD name. When ISFPRMxx specifies that the z/OS UNIX file system profile is to be used, but the user includes the ISFOPTPI special DD to override it to use ISPF, this generic tracker event is created. | IBMSDSF | SDSF FILESYS PROFILE OVERRIDE TO ISPF             | The SDSF module that detected the event | Set to zeros |

## z/OSMF considerations

IBM® z/OS Management Facility (z/OSMF) provides a framework for managing various aspects of a z/OS system through a web browser interface. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify some areas of z/OS system management.

The SDSF task of z/OSMF lets you see key summary information about your sysplex in graphical form, work with jobs and checks for IBM z/OS Health Checker, and issue system commands. It includes function that is analogous to these functions of z/OS SDSF:

- AS, DA, H, I, O, ST, Job Data Set and Output Data Set (browse) panels, for jobs and job output
- CK and Health Check History panels, for health checks
- APF, CF, CFS, CFSA, ELOG, EV, FS, LLS, LNK, LPA, LPAR, MFD, MFJ, MFM, NA, OMVS options (BPXO), PAG, PARM, PLEX, PPT, PROD, RAC, SMSG, SMSV, SP, SYS, UCB, XCFA, XCFP panels
- ULOG panel, for command and message responses issued during the current session
- Editing JCL

- Action characters for controlling jobs, devices, and checks
- Overtypable fields, for modifying the attributes of jobs and checks
- Slash (/) command, for issuing system commands
- PREFIX, DEST, OWNER, SYSNAME, FILTER and SORT commands, for filtering and sorting tabular data
- ARRANGE command, for customizing the order and widths of columns

To select the SDSF task, double-click the SDSF icon on the z/OSMF desktop.

## Requirements

The SDSF task requires a TSO logon proc and related settings, which you specify using the **Settings** option within the SDSF task. When you first access the SDSF task, you will be presented with the **Settings** dialog to provide those settings.

**Note:** The SDSF Settings icon on the z/OSMF desktop is no longer used.

The TSO logon proc is used to launch a TSO address space that is created on behalf of the user. For details on the settings, refer to [“Defining required settings for the SDSF task” on page 456](#).

## Adding the SDSF task to z/OSMF

To add the SDSF task to z/OSMF, you import a properties file through the Import Manager task of z/OSMF, which is in the z/OSMF Administration category. This process is described in the z/OSMF online help.

By default, the properties file for SDSF is /usr/lpp/sdsf/zosmf/sdsf.properties. Specify this file name in the Import dialog.

The import is generally a one-time process. The SDSF plug-in only needs to be imported the first time you are installing SDSF or after you have deleted the plug-in and want to restore it.

## Defining required settings for the SDSF task

When the user launches SDSF the first time (by double-clicking the SDSF icon on the z/OSMF desktop), the **Settings** dialog is shown. The following information is required to complete the settings:

For TSO logon proc, you can specify any logon proc for which the user is authorized that is suitable for SDSF, as long as it contains either a //SYSEXEC or //SYSPROC that references data set ISF.SISFEXEC.

You do not need to create a new logon procedure for exclusive use of the z/OSMF SDSF task.

**Example:** The following is a sample logon proc that can be used by the SDSF task, with the minimum allocations. You may need to adjust the data set name for your installation.

```
//SDSF EXEC PGM=IKJEFT01,DYNAMNBR=500
//SYSEXEC DD DISP=SHR,DSN=ISF.SISFEXEC
```

The SDSF task does not use ISPF, so ISPF allocations are not required. If you use a logon proc that includes ISPF allocations, ensure that the allocations can be shared between the launched TSO address space and a standard TSO login. In particular, ensure that any ISPF profile allocation will allow both the launched TSO address space and the standard login to proceed.

If your logon proc invokes an initial command (using the PARM= keyword on the EXEC statement), the command must return to the TSO READY prompt. When the logon completes, SDSF waits for the TSO READY prompt before proceeding.

If the logon fails when launching the SDSF task, click the TSO Messages link to view TSO messages that were issued during logon. Common errors preventing a successful launch include a JCL error in the logon proc, an invalid account number, and a missing ISF.SISFEXEC data set in the //SYSEXEC concatenation.

## Reviewing z/OS UNIX System Services settings

SDSF uses the z/OS UNIX System Services interprocess communications (IPC) message queue for communications between SDSF and z/OSMF. The maximum message size is controlled by the size of the queue defined by the IPCMSGQBYTES option of PARMLIB member BPXPRMxx.

Message sizes used by SDSF vary based on the request type and amount of data returned in the response. You should review the setting of IPCMSGQBYTES on your system (using the BPXO panel or the D OMVS,O operator command) to ensure it is large enough for the messages sent by SDSF.

For details, refer to the topic about BPXPRMxx in [z/OS MVS Initialization and Tuning Reference](#).

## Protecting SDSF function in z/OSMF

The function provided by the SDSF task in z/OSMF is protected just as z/OS SDSF is protected, with the same SAF resources.

To determine group membership, SDSF checks the SAF resource GROUP.*group-name.server-name* in the SDSF class. This is explained in detail in [“Using SAF to control group membership”](#) on page 13.

To hide SDSF functions that you are not authorized to, open the **Settings** dialog, open the User Preferences tab, and select the Hide functions option.

To use the SDSF task in z/OSMF:

- You must have access to resources in the ZMFAPLA class.

Table 306. Resources in the ZMFAPLA Class

| z/OSMF Task | Resource                                   | Access Required | Class   |
|-------------|--|-----------------|---------|
| SDSF        | <i>saf-prefix</i> .ZOSMF.IBMSDSF.SDSF.JOBS | READ            | ZMFAPLA |

You configure *saf-prefix* in z/OSMF. The default is IZUDFLT.

- Your user ID must be connected to the IZUUSER group.

Access to views in z/OSMF is protected in the same way as the corresponding panel command in z/OS SDSF. For a description of protecting SDSF commands with SAF, refer to [“Authorized SDSF commands”](#) on page 265.

Table 307. z/OSMF Views and Corresponding z/OS SDSF Commands

| Group   | View                  | SDSF Command |
|---------|-----------------------|--------------|
| Jobs    | Active jobs           | DA           |
| Jobs    | All jobs              | ST           |
| Jobs    | Input queue           | I            |
| Jobs    | Output queue          | O            |
| Jobs    | Held output queue     | H            |
| Jobs    | Unix processes        | PS           |
| Jobs    | Address space memory  | AS           |
| Jobs    | Job groups            | JG           |
| Sysplex | Spool data sets       | SP           |
| Sysplex | CF connections        | CFC          |
| Sysplex | CF structures         | CFS          |
| Sysplex | CF groups and members | XCFM         |

*Table 307. z/OSMF Views and Corresponding z/OS SDSF Commands (continued)*

| <b>Group</b>  | <b>View</b>                       | <b>SDSF Command</b> |
|---------------|-----------------------------------|---------------------|
| Sysplex       | Coupling facilities               | CF                  |
| Sysplex       | Extended consoles                 | EMCS                |
| Sysplex       | XCF signaling paths               | XCFP                |
| Sysplex       | XCF application servers           | XCFA                |
| Sysplex       | Sysplex information               | PLEX                |
| Sysplex       | CF structure activity             | CFSA                |
| System        | APF data sets                     | APF                 |
| System        | Page data sets                    | PG                  |
| System        | Link list data sets               | LNK                 |
| System        | Link pack data sets               | LPA                 |
| System        | Parmlib data sets                 | PARM                |
| System        | OMVS options                      | BPXO                |
| System        | System parameters                 | SYSP                |
| System        | Link list sets                    | LLS                 |
| System        | z/OS health checks                | CK                  |
| System        | Systems information               | SYS                 |
| System        | Subsystems                        | SSI                 |
| System        | Generic tracker                   | GT                  |
| System        | Logical partitions                | LPAR                |
| Network       | Network activity                  | NA                  |
| Devices       | Devices activity                  | DEV                 |
| Devices       | SMS storage groups                | SMSG                |
| Devices       | SMS volumes                       | SMSV                |
| Devices       | File systems                      | FS                  |
| Devices       | Unit control block                | UCB                 |
| JES devices   | Initiator display                 | INIT                |
| JES devices   | Spool offload                     | SO                  |
| JES devices   | Printer                           | PR                  |
| JES resources | Proclib                           | PROC                |
| JES resources | Resource information              | JRI                 |
| JES resources | Resource information usage by job | JRJ                 |
| JES resources | Resource monitoring               | RM                  |
| JES resources | Resource monitoring alerts        | RMA                 |
| Memory        | Virtual storage map               | VMAP                |

Table 307. z/OSMF Views and Corresponding z/OS SDSF Commands (continued)

| Group               | View                     | SDSF Command |
|---------------------|--------------------------|--------------|
| Memory              | Common storage remaining | CSR          |
| Workload management | Policy                   | WLM          |
| Workload management | Workloads                | WKLD         |
| Workload management | Service classes          | SRVC         |
| Workload management | Report classes           | REPC         |
| Workload management | Resource groups          | RGRP         |
| Program             | Link pack directory      | LPD          |
| Program             | Fetch data sets          | MFD          |
| Program             | Fetch jobnames           | MFJ          |
| Program             | Fetch modules            | MFM          |
| Program             | PC routines              | PC           |
| Program             | Program properties       | PPT          |
| Program             | Product enablement       | PROD         |
| Program             | SVC routines             | SVC          |
| Security            | RACF classes             | RAC          |
| Logs                | Event log                | ELOG         |

The Home view requires access to these SDSF functions:

- The DA and SP panels for the system activity graph
- The CK panel for the active health check graph
- The slash (/) command, for the system command line

Modifying values in tables or on property sheets in z/OSMF is protected in the same way as overtyping fields in z/OS SDSF. The columns have the same titles in z/OSMF as in z/OS SDSF. For more information about protecting overtyping fields with SAF, refer to [“Overtypable fields”](#) on page 385.

Actions on tables in z/OSMF are protected in the same way as the corresponding action characters in z/OS SDSF. When using the zosmf UI, the dialog that displays actions for a selected item(s) internally generates the same SDSF action characters that are used interactively. The same SAF profiles that are already defined for SDSF are used for the zosmf UI. You can use the SECTRACE facility to determine the resources that are checked. For a complete discussion of protecting action characters with SAF, refer to [“Action characters”](#) on page 371.

## Managing security for SDSF with the Security Configuration Assistant task

The z/OSMF Security Configuration Assistant is a component of z/OSMF that provides the ability to check SAF definitions. The Security Configuration Assistant task can be used to verify that security is properly configured for SAF resources that are used by SDSF.

You must first import the SDSF security descriptor file into the Security Configuration Assistant task as follows:

1. Log in to z/OSMF.
2. Launch the Security Configuration Assistant from your z/OSMF desktop, or if not present, find the tool in the App Center.

3. Once the task has been launched, click **Import**.
4. Import all files contained in the `/usr/lpp/sdsf/sca` directory.

Once the security descriptor file has been imported, you can review and validate the SAF resources that are required for SDSF.

For additional information related to using the Security Configuration Assistant task, click the question mark (help) icon on the Security Configuration Assistant task main panel. This will open the help topics that describe the Security Configuration Assistant task and its capabilities.

## Diagnosing problems in z/OSMF

**TSO messages:** In addition to z/OSMF messages that are displayed in a message window, TSO messages may be issued in response to starting a session or other interactions. To display these messages, click **TSO Messages**.

**Log files in z/OSMF:** The directory of the z/OSMF log file is configurable, as described in [IBM z/OS Management Facility Configuration Guide](#).

**Determining the level of the SDSF plug-in:** From the z/OSMF Welcome panel, click the About link. Find the IBM SDSF plug-in in the list. The associated information contains the SDSF FMID and the service level of the plug-in.

## Removing the SDSF task from z/OSMF

To remove the SDSF and SDSF Settings tasks from z/OSMF, use the Import Manager task to import properties file `/usr/lpp/sdsf/zosmf/sdsfDelete.properties`.

## Using the SDSF classic interface

SDSF function is available through the z/OSMF ISPF task. To use the ISPF task, select ISPF in the z/OS Classic Interfaces category.

You can link to SDSF function that is available through the z/OSMF ISPF task from other function in z/OSMF. To do that, register the SDSF function as an event handler for z/OSMF events. For more information, refer to *Linking z/OSMF tasks and external applications* in [z/OSMF Configuration](#).

---

## Chapter 15. SDSF messages and codes

This topic explains the messages and abend codes that SDSF issues to the terminal or console.

### Displaying message help

---

There is a help panel for each SDSF message. To display the help for a message, in ISPF you can:

- Use the **SEARCH** command, for example **SEARCH ISF024I**.
- **CSRSEARCH** enables cursor-sensitive search on SDSF panels when SDSF is running under ISPF. To use **CSRSEARCH**, assign the **CSRSEARCH** command to a PF key, place the cursor under the word to be searched, and press the PF key. It is recommended that you redefine key PF6 for this purpose. Key PF6, previously used for the **BOOK** command, by default now invokes the **LOOKAT** command. You can change the default to **CSRSEARCH** using the ISFPRMxx **OPTIONS CSRSEARCH** parameter.

### User authorization

---

You might see a message that you are not authorized to perform a certain task. If you should be authorized, do the following:

1. Issue the **WHO** command. This 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.)
2. Check or ask the system programmer to check your authorization group against the ISFGRP, ISFNTBL, and ISFFLD macros in ISFPARMS. The macros are described in [Chapter 2, “Using ISFPARMS for customization,” on page 7](#).
3. If SAF rejects the security check, do the following:
  - a. Issue the TSO command **PROFILE WTPMSG**.
  - b. Try the SDSF request that failed.
  - c. Note the text of the ICH408I message that appears. This message identifies the profile (by name and class) that caused the authorization failure. Report the complete text of this message when asking for authorization.
4. Turn on security trace (**SET SECTRACE ON**) and retry the request. Review the security messages that are written to ULOG to determine the resource that has failed.

### SDSF messages

---

This section explains the SDSF messages. The messages are in alphabetic order.

Write-to-operator messages appear at the end of the log panels. For information on those messages, see [“Messages with ISF message numbers” on page 516](#).

Messages issued in response to SDSF's checks for IBM Health Checker for z/OS are described in [“Messages for IBM Health Checker for z/OS” on page 585](#).

The entry for each message includes a brief description of the meaning of the message and a suggested response.

#### Routing and descriptor codes

Writer-to-operator messages use the following default routing and/or descriptor codes:

- Routing codes 2 and 10

- Descriptor code 4

When a message issues a different routing or descriptor code, the codes that are issued are provided in the message.

---

**ACTIVE**  
**MODIFY**  
**INVALID**

### Explanation

An attempt to issue an action character or to modify a field for an active job, user, started task, printer or node was made. However, the action character or field modification is invalid for the active job, user, started task, or printer or node.

### User response

Remove the action character or modification from the panel by restoring or blanking the field, or enter the RESET command.

---

**AFD CURSOR**  
*row,column*

### Explanation

A job that invokes SDSF with program name ISFAFD has encountered an error in working with an SDSF panel. The cursor is positioned at *row,column*, where *row* is the number of rows from the top of the display, and *column* is the number of characters from the left of the panel. The possible values for *row* and *column* are 1-9999.

#### User response:

Use the cursor location to determine the row and column in error and retry the request.

---

**AFD ERROR**  
*error-number*

### Explanation

An error has been encountered in a job that invokes SDSF with program name ISFAFD.

### User response

Use the error number to resolve the error. The error numbers are:

#### 001

A comment has not been closed. Comments should be enclosed in /\* \*/, for example: /\* This is a comment \*/

#### 002

An action character or overwrite has been entered on a non-tabular panel, such as a print panel.

Action characters and overtypes are valid only on tabular panels.

#### 003

A record has exceeded the maximum length of 9999 bytes. Trailing commas are treated as a continuation character.

#### 004

There is an error in the input syntax. Correct the syntax.

#### 005

Input could not be processed because there are no rows on the panel. This may be because all rows have been blanked out by filters such as FILTER, PREFIX, DEST, and OWNER.

#### 006

An attempt was made to enter an action character, but the NP column is not conditioned for input. The NP column is not conditioned for input on the OD panel. On other tabular panels, the problem may be that there are no rows because all rows have been filtered out by filters such as FILTER, PREFIX, DEST, and OWNER.

#### 007

The specified column could not be found. Either it is not a valid column for the panel, or the column name is an abbreviation that does not uniquely identify a column on the panel. If the column name is an abbreviation, specify the full column name.

#### 008

An attempt has been made to overwrite a column that is not overwriteable. If the column is a valid overwriteable column for the panel, it may be that the user is not authorized for that column either through ISFPARMS or SAF.

#### 009

Brackets with no column or value, that is <>, were entered on a tabular panel. This syntax is valid only on non-tabular panels such as the print panels.

#### 010

An overwrite with no column name, that is <=value> was entered on a tabular panel. This syntax is valid only on non-tabular panels such as the print panels.

#### 011

An attempt has been made to overwrite the fixed field. The fixed field is not overwriteable.

#### 012

The input could not be processed because there were no rows on the screen. This may be because



all rows have been filtered out by filters such as FILTER, PREFIX, DEST, and OWNER.

**013**

There is an error in the input syntax. Correct the syntax..

---

**ALLOC ERROR**

*return-code*

*error-code*

*information-  
code*

**Explanation**

Dynamic allocation of the print file failed. SDSF was unable to allocate or create a print file in response to a PRINT command, to a print action character (X), or to the processing of an open print data set panel.

An accompanying message that describes the error can also appear.

For information on dynamic allocation error codes, see the appropriate manual concerning system macros and facilities, or job management.

**User response**

Use the codes in the message text to determine the source of the error.

---

**ALLOCATION**

**ERROR - error-  
code**

**Explanation**

An error has occurred during the dynamic allocation of a SYSOUT data set.

**User response**

For information on dynamic allocation error codes, see the appropriate manual concerning system macros and facilities, or job management.

---

**APPL NOT  
AVAILABLE****Explanation**

An action or overtype requires a SNA application to be associated with the object. However, no SNA application is associated with the object

**User response**

Remove the action character or modification from the panel by restoring or blanking the field, or type the RESET command.

---

**ARR CRITERIA  
DISCARDED****Explanation**

SDSF detected that the arrange criteria that had been saved from a previous session is invalid. The arrange criteria were deleted from your ISPF profile.

**User response**

Use the Arrange pop-up or the ARRANGE command to rearrange columns.

---

**ARRANGE  
CRITERIA  
OBSOLETE****Explanation**

One or more of the columns saved from a previous arrange command has been removed from the ISFPARMS definition for this panel. A column might have been removed because of security changes, release migration, or customization of the field lists.

**User response**

Look at the INVALID COLUMN message displayed in the message line to see the number of obsolete columns.

---

**ARRANGE  
PENDING****Explanation**

You selected a column or block of columns but did not enter the destination for it.

**User response**

Scroll the list to the desired column and mark the destination by typing a or b next to it.

---

**AUTHORIZED  
DEST  
REQUIRED****Explanation**

During SDSF initialization or DEST command processing, SDSF did not find any authorized destination names. You are not authorized to access all destinations, therefore, a valid destination list, specified by IDEST in ISFPARMS, is required. This message also appears in response to a destination query command (DEST ?) if no destination names are authorized.

### User response

Enter the DEST command specifying one or more authorized destinations. Notify the SDSF or security administrator regarding the ISF005I messages issued during session initialization.

---

**AUTHORIZED  
DESTINATION  
REQUIRED.  
PRESS THE  
HELP KEY FOR  
MORE  
INFORMATION**

### Explanation

This message corresponds to the current AUTHORIZED DEST REQUIRED message, and is issued when you display the Destination pop-up.

### User response

Press PF1 for complete information, and contact the system programmer.

---

**\*\*\*\* AUTO  
UPDATE -  
*number*  
SECONDS \*\*\*\***

### Explanation

SDSF is running in automatic update mode. The interval between updates is given in seconds. (See the online help for more information on automatic update mode.)

### User response

None.

---

**BLOCK  
COMMAND  
INCOMPLETE**

### Explanation

You entered a block command but did not close it (the beginning of a block has been marked with //, but the end has not been marked with //). SDSF does not process pending actions until you close the block.

### User response

Close the open block, or use the RESET command to cancel all pending actions.

---

**BLOCK  
COMMAND  
INVALID**

### Explanation

You entered data both on the first and last rows of the block you want to repeat. Only the first or last row of the block can contain data.

### User response

Blank out the changes on either the first or last row of the block, or use the RESET command to cancel all pending actions.

---

**BLOCK INPUT  
REQUIRED**

### Explanation

You entered a block command but did not specify the action character or overtype. The first row of the block is made current to allow you to enter the action character or overtype to be repeated throughout the block.

### User response

Specify the action character or overtype on either on the first or last row of the block or use the RESET command to cancel all pending actions.

---

**BLOCK IS  
INCOMPLETE**

### Explanation

You marked the beginning of a block with //, but the end has not been marked with //.

### User response

Mark the end of the block with //.

---

**BOOKMANAGE  
R IS REQUIRED**

### Explanation

The command or pull-down choice requires BookManager READ/MVS.

### User response

Blank out the command or pull-down choice.

---

**BOOKMGR**  
**SELECT**  
**RC=return-code**

**Explanation**

The BOOK command has been issued but SDSF was unable to invoke BookManager. The message text contains the decimal return code from the ISPF select service used to invoke the BOOKMGR command.

**User response**

Ensure that BookManager is installed and available to your SDSF session, and then retry the BOOK command.

---

**\*BOTTOM OF**  
**DATA**  
**REACHED\***

**Explanation**

A FIND command reached the bottom of the data without finding the requested character string.

**User response**

Use the Repeat-Find PF key, or enter an F on the command line, to resume the search at the top of the data.

---

**BRIF ERROR**  
**RC=return-code**

**Explanation**

An unexpected error occurred during invocation of the ISPF browse service. The message contains the decimal *return-code* from ISPF. SDSF terminates the browse request.

**User response**

Refer to [\*z/OS ISPF Services Guide\*](#).

---

**BROWSE NOT**  
**AVAILABLE**

**Explanation**

The SB action character was entered to browse a data set using ISPF, but either SDSF is not running under ISPF or the ISPF level is insufficient. Instead, SDSF does the browse.

**User response**

Reenter the SB action character when running under the required level of ISPF.

---

**CANNOT MOVE**  
**FIXED FIELD**

**Explanation**

You have attempted to move the fixed field with the ARRANGE command. ARRANGE can be used to move columns after the fixed field, but the fixed field itself cannot be moved.

**User response**

None

---

**CHAIN LIMIT**  
**REACHED**

**Explanation**

The SDSF run chain that was initiated using the RC action character from the MEM panel reached the user-supplied limit. Traversing the control block chain was stopped.

**User response**

Increase the chain limit and retry the action.

---

**number CHARS**  
**'string'**

**Explanation**

In response to a FIND ALL command on the ODS panel or the logs, a number of occurrences of a character string have been found. If SDSF finds more than 999,999 occurrences, *number* is displayed as 999999+. The cursor is positioned on the character string.

**User response**

None.

---

**CHARS 'string'**  
**FOUND**

**Explanation**

In response to a FIND command, a character string has been found. The cursor is positioned on the character string.

## User response

None.

---

**number CHARS**  
**'string' FOUND**

## Explanation

In response to a FIND ALL command a number of occurrences of a character string has been found. If SDSF finds more than 9,999 occurrences, *number* is displayed as 9999+ . The cursor is positioned on the character string.

## User response

None.

---

**CHECK NO**  
**LONGER VALID**

## Explanation

An attempt was made to browse a check. However, the instance of the check has changed since the CK panel was displayed, probably because the check has run.

## User response

Press Enter to refresh the CK panel, then browse the check again.

---

**CHECKPOINT**  
**OUT OF DATE**

## Explanation

A checkpoint version has been obtained, but the data might not be current. This can indicate that JES2 is down or not responding. The panel is built using the old data.

## User response

Retry the request. If the problem persists, contact your system programmer to determine the cause of the out-of-date data.

---

**CHECKPOINT**  
**READ ERROR**

## Explanation

An error occurred when SDSF attempted to read from the checkpoint data set in order to determine a user's authority to issue a command.

## User response

Retry the command. If the problem persists, contact the system programmer.

---

**CHOICE NOT**  
**AVAILABLE ON**  
**THIS PANEL**

## Explanation

The pull-down choice is not available on the current SDSF panel.

## User response

Use the HELP PF key for information on the pull-down choice.

---

**CIRCULAR**  
**LIST**

## Explanation

The SDSF run chain that was initiated using the RC action character from the MEM panel detected a circular list. Traversing the chain was stopped.

## User response

Decrease the chain limit and retry the action.

---

**CKPT OBT ERR**  
*return-code-*  
*reason-code*

## Explanation

An error has occurred obtaining a checkpoint version. In the message text, *return-code* is the hexadecimal SSI return code from SSOBRETN and *reason-code* is the hexadecimal reason code from field SSJIRETN. The version is not obtained.

## User response

Contact your system programmer to determine the reason for the failure. The return and reason codes are documented in macro IAZSSJI.

---

**CKPT REL ERR**  
*return-code-*  
*reason-code*

## Explanation

An error has occurred releasing a checkpoint version. In the message text, *return-code* is the hexadecimal SSI return code from SSOBRETN and *reason-code* is

the hexadecimal reason code from file SSJIRETN. The version is not released.

### User response

Contact your system programmer to determine the reason for the failure. The return and reason codes are documented in macro IAZSSJI.

---

**CLEAR  
COMPLETE**

### Explanation

A request to clear commands from the list of saved system commands has been completed. The commands have been removed from the list.

### User response

None required.

---

**CMD NOT  
ISSUED - NO  
CONS**

### Explanation

The function that was attempted requires an EMCS console to issue a system command, and an EMCS console was not available. The command was not issued.

### User response

None required.

---

**count CMDS  
NOT ISSUED**

### Explanation

A block of action characters was discarded at the request of the user. *count* is the number of action characters that were discarded. No commands were issued.

### User response

None.

---

**COLUMN NOT  
ALLOWED**

### Explanation

A command has referenced a column that is not allowed. Some columns are defined by SDSF as special. Special columns have restrictions on the commands that can reference them.

For **SORT** and **FILTER**, the .END column cannot be sorted or filtered.

### User response

Remove the column from the command and retry the request.

---

**COLUMN NOT  
FOUND**

### Explanation

You specified a column that does not exist for the panel. The cursor is positioned under the column name.

### User response

Correct the column name and reenter the command.

---

**COLUMN NOT  
UNIQUE**

### Explanation

The column name matches more than one column on the current panel. The cursor is positioned under the column name.

### User response

Reenter the column name.

---

**COLUMN  
TRUNCATED**

### Explanation

The column width specified with the Arrange function for one or more columns is shorter than the title for the column. The column will be truncated to the specified width.

### User response

None required.

---

**COMM NO  
LONGER AVAIL**

### Explanation

The user is no longer communicating with the local SDSF server. SDSF will show only data for the system the user is logged on to.

### User response

The system may have issued a previous message describing the error. To restore communications, correct any errors and re-access SDSF.

---

#### COMMAND ISSUED

### Explanation

SDSF has issued the requested MVS or JES system command.

### User response

None.

---

#### COMMAND NOT ACCEPTED

### Explanation

The command cannot be processed in the current environment.

Some commands, such as HELP and SRCH, stack their results. Processing the current command will cause the stack limit to be exceeded. Therefore, the command cannot be processed.

### User response

Enter a different command or PF3 to dismiss the current panel.

---

#### COMMAND NOT APPLICABLE

### Explanation

The command does not apply to the current panel and so is not allowed. It may be valid only on tabular panels.

### User response

Access a panel to which the command applies and try the command again. For more information, see "Where used" in the online help for the command.

---

#### COMMAND NOT AUTHORIZED

### Explanation

You entered an SDSF command that you are not authorized to issue. Refer to ["User authorization"](#) on [page 461](#) for more information.

### User response

Delete the command.

---

#### COMMAND NOT ISSUED

### Explanation

An action character was discarded at the request of the user. No command was issued.

### User response

None.

---

#### COMMAND NOT VALID

### Explanation

The command is not valid on the command line of the pop-up.

### User response

Correct or erase the command.

---

#### COMMAND OBSOLETE

### Explanation

The command is obsolete and is no longer used. The command is accepted but has no effect. Operands are not syntax checked.

### User response

Discontinue use of the command.

---

#### COMMAND SAVED

### Explanation

The list of commands was updated with the command. The command was not issued. If there is already an entry in the list with the same command text and group, only the comment is updated. If there is not already an entry in the list with the same command text and group, a new entry is added to the list.

### User response

None required.

---

#### COMMAND TRUNCATED

## Explanation

You have overtyped more fields than can be processed in a single JES request. All fields up to the JES limit are processed.

## User response

Refresh the SDSF displays and overwrite the fields that were not updated.

---

**command-  
count**  
**COMMANDS  
ISSUED**

## Explanation

A block command has successfully executed and *command-count* commands have been issued.

## User response

None.

---

**CONS ACT ERR**  
**returncode-  
reasoncode**

## Explanation

An attempt to activate an extended console has failed. The message text contains the hexadecimal return code and reason code from the MCSOPER macro. Message ISF032I is also written to the ULOG display.

## User response

Use the return code and reason code to determine the cause of the error. Issue the ULOG command to activate the console.

---

**CONS ACT ERR**  
**- IN USE**

## Explanation

An attempt to activate an extended console has failed because the console name is in use. The MCSOPER macro return code is 4 and reason code is 0.

## User response

None required. Use the SET CONSOLE command to specify a different console.

---

**CONS DEACT  
ERR**  
**returncode-  
reasoncode**

## Explanation

An attempt to deactivate an extended console has failed. The message text contains the hexadecimal return code and reason code from the MCSOPER macro.

## User response

Use the return and reason codes to determine the cause of the error. For the MCSOPER return and reason codes, see [z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU](#).

---

**CONSOLE**  
**console-name**  
**SHARED**

## Explanation

An attempt has been made to activate an extended console but the console is in use. SDSF shares the console by issuing commands using its console ID. However, responses are not returned to the SDSF session issuing the commands.

If the console is in use by another SDSF session (such as through split screen), any command responses caused by the shared session is returned to that session.

Message ISF031I is written to the ULOG display.

## User response

None

---

**CONVERSION  
COMPLETE**

## Explanation

SDSF parameters in ISFPARMS have been assembled through the conversion utility and converted to ISFPARMS in statement format.

## User response

You can edit the statements from the pop-up. To activate the ISFPARMS, or check their syntax, use the MODIFY command.

---

**DATA ACCESS  
ERROR**

## Explanation

An error has occurred retrieving data to build an SDSF panel. Communications with the server may have been lost, or an error may have occurred accessing

a job. Additional messages may have been issued to describe the error.

**User response**

See accompanying messages, if any, for more information about the problem. Retry the request.

---

**DATA NOT  
AVAIL *system-  
name***

**Explanation**

A sysplex request for data has been processed, but the data from *system-name* cannot be gathered. The plus (+) character is shown if more than one system is not responding, if there is available space. The data could not be gathered because the system is not at the required level, the SDSF server is not active, XCF is not configured, or a data gatherer is not active.

An asterisk is shown after the *system-name* if the data is out of date because it could not be collected during the last data-gathering interval.

**User response**

None if the system is not at the required level. Otherwise, ensure that the SDSF server is started and configured to process XCF and data-gathering requests.

---

**DATA NOT  
SAVED**

**Explanation**

A user entered the SE action character to edit a data set using ISPF, and either entered the SAVE command or made changes to the data during the ISPF session. The changes were not saved upon exit since permanent changes cannot be made.

**User response**

None.

---

**DATA SET  
ALLOCATED**

**Explanation**

In response to a browse action, a data set has been allocated.

**User response**

None.

---

**DATA SET  
DISPLAYED**

**Explanation**

SDSF is displaying the requested SYSOUT data set on the Output Data Set panel.

**User response**

None.

---

**\*\*\*\* DATA SET  
NOT  
CATALOGED  
DSNAME=  
*data-set-name***

**Explanation**

The required data set is not cataloged. This message accompanies the message ALLOC *ERRORreturn-code error-code information-code*, or LOCATE *ERRORreturn-code*, and explains why allocation of the print file failed.

**User response**

None.

---

**DATA SET NOT  
ELIGIBLE**

**Explanation**

The data set is not eligible for the operation. The data set is not changed. This condition can occur if the output group is in operator or system hold or is currently being processed by the SSI.

**User response**

Ensure that the output group is not in operator or system hold.

---

**DATA SET NOT  
FOUND**

**Explanation**

A data set entered on an SDSF panel could not be located.

**User response**

Either allocate the data set or change the name of the data set on the SDSF panel.



---

**\*\*\*\*\* DATA  
SET NOT ON  
VOLUME  
DSNAME=  
data-set-name**

### Explanation

The required data set is not on the specified volume. This message accompanies the message `ALLOC ERRORreturn-code error-code information-code`, or `OBTAIN ERRORreturn-code`, and explains why allocation of the print file failed.

### User response

None.

---

**\*\*\*\* DATA SET  
OPEN DSNAME  
= data-set-  
name**

### Explanation

The data set *data-set-name* is open. This message accompanies the message `ALLOC ERRORreturn-code error-code information-code`, and explains why dynamic allocation of the print file failed.

### User response

None.

---

**\*\*\*\* DATA SET  
UNAVAILABLE  
DSNAME=  
data-set-name**

### Explanation

The required data set is unavailable. This message accompanies the message `ALLOC ERRORreturn-code error-code information-code`, and explains why dynamic allocation of the print file failed.

### User response

None.

---

**DATA  
TRUNCATED  
FOR EDIT**

### Explanation

A request has been made to edit a data set using the SE action character, but the job contains a data set that exceeds the maximum record length supported

by edit. The edit request is processed, but the data is truncated to the 255 character maximum.

### User response

Use the S or SB action characters to display the entire record.

---

**DEALLOCATION  
N ERROR -  
error-code**

### Explanation

An error has occurred during the dynamic deallocation of a SYSOUT data set.

### User response

For information on dynamic allocation error codes, see the appropriate manual concerning system macros and utilities or job management.

---

**DEST ALREADY  
EXISTS**

### Explanation

The DEST command was issued to add a destination that already exists in the current destination list.

### User response

Use DEST ? or SET DISPLAY to display the current destinations and correct the command.

---

**DEST NOT  
FOUND**

### Explanation

The DEST command was issued to delete a destination that is not in the current destination list. The destination not in the list has the cursor positioned under it.

### User response

Use DEST ? or SET DISPLAY to display the current destinations and correct the command.

---

**DETAIL NOT  
AVAIL**

### Explanation

A request to retrieve the enclave detail information has failed because the information is not available. The enclave may no longer be valid.

## User response

None required.

---

### DISPLAY RESET

## Explanation

The logical screen size changed, causing SDSF to rebuild the display. SDSF ignored and cleared any action characters or commands you had entered but had not yet executed.

## User response

None.

---

### DSORG NOT PS OR PO

## Explanation

In a PRINT ODSN command, the specified data set was not sequential, (DSORG=PS) or partitioned (DSORG=PO).

## User response

Reissue the PRINT ODSN command specifying an acceptable data set name. When the data set is allocated, a data set organization of sequential or partitioned must be specified.

---

### EDIF ERROR RC=*return-code*

## Explanation

An unexpected error occurred during invocation of the ISPF edit service. The message contains the decimal *return-code* from ISPF. SDSF terminates the edit request.

## User response

Refer to [z/OS ISPF Services Guide](#).

---

### EDIT NOT AVAILABLE

## Explanation

The SE action character was entered to edit a data set using ISPF, but SDSF is not running under ISPF. Instead, SDSF does a browse.

## User response

Reenter the SE action character when SDSF is running under the required level of ISPF.

---

### ENC IMPLICITLY QUIESCED

## Explanation

An attempt was made to quiesce an enclave that is already implicitly quiesced because one or more address spaces associated with it is quiesced.

## User response

None required.

---

### END OF DATA ON MENU

## Explanation

SDSF could not read a requested help panel from the SDSF help panel data set.

## User response

The system programmer should check any changes that have been made to the SDSF help panel data set. If the problem cannot be found, the system programmer might want to replace the installed SDSF help panel data set with the original help panel data set on the SDSF distribution tape.

---

### %*exec-name* ENDED

## Explanation

A REXX exec invoked with the % action character ended without returning a return code.

## User response

None required.

---

### ENGLISH HELP NOT AVAILABLE

## Explanation

You selected the English language but the English help panels are not available.

### User response

Erase the selection or see your system programmer about the installation.

**ENTER  
REQUIRED  
FIELD**

### Explanation

Data is missing for a required field. The cursor is positioned at the field in error.

### User response

Enter the requested data.

**ERROR IN  
ASSEMBLING  
PARAMETERS.  
RETURN CODE**  
*return-code*

### Explanation

SDSF parameters being assembled through the conversion utility caused assembly errors.

### User response

Use the return code from the assembler to help identify the problem. The conversion utility pop-up lets you edit the ISFPARMS source data set (PF4) or browse the assembler listing (PF5).

**ERROR  
PROCESSING  
DATA**

### Explanation

SDSF could not successfully process the spool control blocks of one of the jobs on the panel.

### User response

The user or system programmer could use one of the filter commands to identify which job is causing the problem.

For example, the user's panel shows these jobs:  
ABLEJOB ABLEBJOB ANDJOB BJOB BBBJOB CJOB

The user issues PREFIX A\*, and the panel shows these jobs: ABLEJOB ABLEBJOB ANDJOB

The error message still appears on the panel, so the problem is with one of the three jobs shown. The user then issues a second PREFIX command, PREFIX ABLE\*. The panel then shows: ABLEJOB ABLEBJOB

The error message no longer appears on the panel. The user knows that the problem is not with ABLEJOB or ABLEBJOB; the problem must be with ANDJOB.

**ERROR  
PROCESSING  
LINE line-  
number: text-  
of-line**

### Explanation

The conversion exec has encountered an error in the indicated line.

### User response

Follow your local procedure for reporting a problem to IBM

**EXEC NAME  
REQUIRED**

### Explanation

The % action character was issued without an exec name and SDSF is not running under ISPF.

### User response

Supply the name of the REXX exec and any arguments after the % action character, for example, %abc arg1 arg2

Alternatively, access SDSF from ISPF. Then, you can type the % action character by itself to display a pop-up on which you can supply the exec name and any arguments.

**service FAILED  
WITH  
RC=return-code  
REASON=ispf-  
message-text**

### Explanation

An ISPF or TSO service, *service*, failed with the indicated return code, and text of an ISPF message if it is available.

### User response

Use the return code and the message text, if any, to understand and resolve the problem. If the problem persists, follow your local procedure for reporting a problem to IBM

**FIELD INVALID**

## Explanation

Invalid information was typed in a field.

## User response

Correct what was typed in the field or type RESET on the command line.

---

### FIELD NOT NUMERIC

## Explanation

A numeric field was overtyped with non-numeric data, or there are blanks in the numeric field. The cursor is positioned at the field in error.

## User response

Enter the field using numeric data. Within a tabular panel, use the RESET command to clear any overtyped data.

---

### FILE SIZE NOT AVAILABLE

## Explanation

A request has been made to view a data set, but the file size (in bytes) is not available from JES. The file size is required by SDSF to allocate the temporary file used by GDDM

---

### FILTER CRIT DISCARDED

## Explanation

SDSF detected that the filter criteria that had been saved from a previous session are invalid. The filter criteria were deleted from your ISPF profile.

## User response

Use the Filter pop-up or FILTER command to define filters.

---

### FILTER CRITERIA OBSOLETE

## Explanation

One or more of the columns saved from a previous session has been removed from the ISFPARMS definition for this panel. A column might have been removed because of security changes, release migration, customization of the field lists in ISFPARMS,

or other customization of function such as symbol support. The obsolete filter criteria are deleted.

SDSF filtered the columns using the remaining columns. Look at the INVALID COLUMN message displayed in the message line to see the number of obsolete columns.

## User response

No action is required.

---

### FILTER NOT FOUND

## Explanation

An attempt was made to delete a filter that does not exist.

## User response

No action is required. If the command to delete the filter was entered incorrectly, correct the command.

---

### FILTER VALUE TRUNCATED

## Explanation

A filter value entered with a previous command exceeds the 25-character length of the value field on the Filter pop-up. The value is truncated to fit the field.

## User response

None required. To change the value, type the changes on the pop-up.

---

### FILTERING IS ON|OFF

## Explanation

In response to a query of the filters, the current state of filtering is displayed.

## User response

If a filter is displayed on the command line, pressing Enter issues the command and makes the filter active.

---

### GDDM ERROR *severity- msgnumber*

## Explanation

An error occurred during execution of a GDDM service. *severity* is the severity code, in decimal, of the

message; *msgnumber* is the GDDM message number in decimal.

The request to view a data set is ended. Other explanatory messages might have been issued by GDDM.

**User response**

Correct the error described by the GDDM message text and retry the view request.

---

**GDDM LEVEL  
ERR *gddm-level***

**Explanation:**  
The view function was requested, but the installed level of GDDM cannot be used by SDSF. *gddm-level* is the level of GDDM currently being accessed by SDSF. SDSF requires GDDM Version 2 Release 2 or a later release.

**User response:**  
The system programmer should ensure that the correct level of GDDM is available to the SDSF session either through a STEPLIB or the system LINKLST.

---

**GDDM NOT  
AVAILABLE**

**Explanation:**  
SDSF was unable to load the GDDM interface module, ADMASPT, in response to a view request to compose a page-mode data set. The view function is not available because GDDM services cannot be used.

**User response:**  
The system programmer should ensure the GDDM load modules are available to the SDSF session either through a STEPLIB or the system LINKLST.

---

**GET ERROR  
RC=*return-code***

**Explanation**

The GET request for the spool data for a job failed. The job's SYSOUT is not displayed. This may occur if the job was purged or if the SYSOUT data was selected from the Display Active Users (DA) panel and the job was swapped out.

**User response**

Try displaying the SYSOUT later. If the job was active and swapped out, the SYSOUT will be accessible. If the job was purged, the SYSOUT will not be found. For a description of the return codes, refer to [z/OS DFSMS Macro Instructions for Data Sets](#).

---

**GROUP NAME  
NOT VALID**

**Explanation**

The name provided for a command group is not valid. A group name must consist of alphanumeric characters or these special characters: @ # \$ . : - It must begin with an alphabetic character and cannot begin with isf or ibm. Those names are reserved for use by IBM. It cannot contain embedded blanks.

**User response**

Type a valid name. For a list of groups, press the Prompt key (PF4) with the cursor in the field.

---

**GROUP OLD-  
NAME  
RENAMED TO  
NEW-NAME:  
COUNT  
COMMANDS,  
SKIP-COUNT  
SKIPPED**

**Explanation**

Command group *old-name* has been renamed to group *new-name* and *count* commands have been changed.

The skip-count is the number of commands that were not changed because they already exist in the new group. The skipped commands remain in the old group.

**User response**

No response is required. If commands were skipped, review them and delete them if necessary.

---

**HC NOT  
ACTIVE  
*sysname* |  
*count* SYSTEMS**

**Explanation**

Checks could not be displayed because z/OS is not running. If a single system reports that z/OS is not running, the system name, *sysname*, is displayed. If more than one system reports that z/OS is not running, the number of systems, *count*, is shown.

**User response**

For information on starting z/OS, the system programmer should refer to [IBM Health Checker for z/OS User's Guide](#).

---

**HELP MENU**  
**ERROR=**  
*member-name*

### Explanation

SDSF could not find the requested help panel.

### User response

The system programmer should check any changes that have been made to the SDSF help panel data set. If the problem cannot be found, the system programmer might want to replace the installed SDSF help panel data set with the original help panel data set supplied by IBM

---

**HEX STRING**  
**INVALID**

### Explanation

The FIND command with a hexadecimal string has been issued on a panel other than the logs or ODS panels.

### User response

Correct the command and reissue it.

---

**INACTIVE**  
**MODIFY**  
**INVALID**

### Explanation

An attempt to issue an action character or to modify a field for an inactive job, user, started task, printer or node was made. However, the action character or field modification is invalid for the inactive job, user, started task, or printer or node.

### User response

Remove the action character or modification from the panel by restoring or blanking the field, or enter the RESET command.

---

**INCONSISTEN**  
**T PARAMETERS**

### Explanation

The FIND command has been issued with parameters that conflict.

### User response

Correct the command and reissue it.

---

**\*\*\*\***

**INCORRECT**  
**UNIT NAME**  
**SUPPLIED**

### Explanation

The dynamic allocation of a tape drive failed with a X'021C' return code. This return code specifies that an incorrect unit name has been supplied. The valid units that are supported are: 3480, 3400-3, 3400-5, 3400-6, and 3400-9.

### User response

Specify a cataloged data set name that is on a supported tape unit.

---

**INPUT FILE**  
**ALLOC FAILED**

### Explanation

An error occurred trying to allocate the input file to be composed. Additional messages describing the reason for the allocation failure is issued by the system. The file cannot be viewed using GDDM.

### User response:

Contact your system programmer to determine the cause of the error.

---

**INPUT**  
**INVALID WITH**  
**BLOCK**

### Explanation

An action character or overwrite was entered within an open block. Data to be repeated can only be entered on the first or last row of the block. The display is positioned to the row containing the data within the block.

### User response

Blank out the data on the row or enter the RESET command to cancel all pending actions.

---

**INPUT**  
**INVALID**  
**WITHIN BLOCK**

**Explanation**

You entered one or more characters within a block on the pop-up.

**User response**

Erase the character.

---

**INT CONSOLE  
NOT ALLOWED**

**Explanation**

An attempt was made to issue a system command using console ID 0 (INTERNAL), but an EMCS console is required by values specified in ISFPARMS.

**User response**

Reissue the command using an EMCS console. If you are issuing a command using *i*/, remove the *i*.

---

**INVALID CALL  
TYPE**

**Explanation**

During initialization, SDSF found an error processing ISFPARMS. The error is in the ISFNTBL macro or NTBL statement named in the IDEST parameter of the ISFGRP macro or GROUP statement for the user.

**User response**

The system programmer should check the ISFNTBL macro or NTBL statement named in the IDEST parameter of the ISFGRP macro or GROUP statement that was used to place the user in a user group.

The system programmer might also want to put the installation-defined names last in the ISFNTBL macro or NTBL statement, as the installation-defined names can be the most likely to cause an error. When SDSF encounters an error in the destination names during initialization, it continues initialization with the destination names that were successfully processed before the error.

---

**INVALID  
CLASS *class*  
ENTERED**

**Explanation**

An invalid class was entered with the ST, I, or O command. The class is ignored. Valid class names are:

**ST command:**  
A-Z, 0-9, +, !, \$, \*, ), -, ?, #, @, = and /

**I command:**  
A-Z, 0-9, !, \$, \*, #, and @

**JC command:**  
A-Z, 0-9, \$ and #

**O command:**  
A-Z, 0-9, and @

**User response**

Retry the command with a valid class.

---

**INVALID  
CLASS NAME**

**Explanation**

This field was updated with an invalid class name. Valid class names consist of the characters A-Z and 0-9.

**User response**

Type either a valid class name or a blank in the field, or type RESET in the command line.

---

**INVALID  
COLUMN:  
*column-info***

**Explanation**

Column criteria for this panel were saved from a previous SDSF session, but one or more of the columns have been removed from this panel. SDSF ignores the criteria and deletes it from your SDSF profile. *column-info* is either a number of columns, or, for SORT, a list of columns. This message is issued as explanatory information with the ARRANGE, FILTER, or SORT CRITERIA OBSOLETE message.

**User response**

No action is required. You can establish new arrange, filter, or sort criteria.

---

**INVALID  
COMMAND**

**Explanation**

A command or action character was entered that is not recognized by SDSF, was entered in an unsupported environment, or was entered on a panel or row for which it is invalid. The command or action character might have been entered with an invalid parameter.

## User response

Correct the command or action character and retry the request. See the SDSF publications or online help for a list of valid SDSF commands and action characters. For system commands, see the appropriate MVS and JES manuals. For the AFD command, see [z/OS SDSF User's Guide](#).

---

### INVALID DESTINATION NAME

## Explanation

The specified destination name is invalid for this system. If the destination name is an installation-defined destination name, this message might be issued because JES is not active. When JES is not active, the installation-defined destination names are not available to SDSF.

## User response

Enter a valid destination name.

---

### INVALID DSN - LENGTH

## Explanation

A data set name has been entered that is longer than 44 characters.

## User response

Correct the data set name being entered.

---

### INVALID DSN - QUOTES

## Explanation

A data set name has been entered with unmatched quotes.

## User response

Correct the data set name being entered.

---

### INVALID HEX STRING

## Explanation

Invalid hexadecimal data has been entered either by overtyping a field or with a FIND command. The invalid data contains non-hexadecimal characters or has an uneven number of digits.

## User response

Correct the hexadecimal string.

---

### INVALID LEFT BOUNDARY

## Explanation

The value entered for the starting column with a FIND command is greater than the logical record size or is greater than the length of the field.

## User response

Correct the FIND command and reissue it.

---

### INVALID RETURN CODE

## Explanation

An invalid return code has been received after a call to an internal SDSF subroutine. The table being displayed might be incomplete.

## User response

Retry the command, and if the problem persists, contact IBM

---

### INVALID SAVED DEST

## Explanation

A saved destination name from a previous SDSF session is no longer valid. This could occur if an enhanced destination name was retrieved from an SDSF session that was running on a system prior to MVS/ESA SP-JES2 4.2.0. Use DEST ? or SET DISPLAY ON to view the current destination list.

## User response

None. SDSF is initialized using any remaining saved values.

---

### INVALID SCROLL AMOUNT

## Explanation

The amount specified in the SCROLL field of the panel, or in a scroll command, is invalid.

## User response

Enter one of the following valid scroll amounts:



**Page**

to scroll one panel.

**Half**

to scroll half of one panel.

**number**

to scroll a specific number of lines or columns.  
*number* can be up to four digits.

**Max**

to scroll to the end of the data.

**Csr**

to scroll to the position of the cursor.

**Data**

to scroll one line or column less than one page.  
 This is valid only under ISPF.

If the message is accompanied by an audible alarm, it was issued by ISPF. Pressing the PF key assigned to HELP signals ISPF to display the valid scroll entries on line 3 of the display.

---

**INVALID  
SELECTION**
**Explanation**

The input is not valid for this panel.

**User response**

Enter a valid command or menu option.

---

**INVALID  
SYNTAX**
**Explanation**

The command entered on the command line has too many parameters, has unmatched quotes, or is an invalid range.

**User response**

Use the appropriate manual or online help to find the syntax of the command.

---

**INVALID UNIT**
**Explanation**

Either an invalid device number was entered on the PR, PUN, RDR or LI panel, or both a volume serial and a generic unit have been specified on the open print data set panel.

For the PR or PUN panel, the unit device number must consist of all hexadecimal digits. Leading zeros are required.

For the LI panel, the unit device number must be either all hexadecimal digits or SNA. Leading zeros are required.

The device number can be preceded with a slash (/).

For the open print data set panel, only one of the fields (volume serial or unit) can be specified.

**User response**

Enter a valid device number or specify only one of the print panel fields.

---

**INVALID  
UPDATE VALUE**
**Explanation**

The user has entered an invalid update value for an overtypeable field. Invalid values include: a semicolon, a comma when not enclosed in parentheses, or a left parenthesis if it is the first update character in a field that does not allow multiple values to be entered.

**User response**

Enter a valid name.

---

**INVALID  
VALUE**
**Explanation**

A value has been entered that is unrecognized or not allowed on the current panel.

**User response**

Change the input to an allowable value.

---

**IRXEXEC  
RC=return-code**
**Explanation**

An error occurred after invocation of the IRXEXEC interface in response to a % action character. The message contains the return code from IRXEXEC.

**User response**

Examine the return code and associated system messages, if any. For more information on the return codes from IRXEXEC, refer to [z/OS TSO/E REXX Reference](#).

---

**ISFTRACE DD  
MISSING**

### Explanation

A TRACE command has been entered, but the ISFTRACE file is not allocated. The TRACE command is not processed.

### User response

Allocate the ISFTRACE file and reissue the TRACE command.

---

**ISPF  
REQUIRED**

### Explanation

The command was issued when SDSF was not operating under ISPF. Some commands are valid only when SDSF was accessed through ISPF.

### User response

Access SDSF through ISPF and reissue the command.

---

**JAPANESE  
HELP NOT  
AVAILABLE**

### Explanation

The Japanese Help/Tutorial feature is not installed.

**Note:** As of z/OS V2R3 the help and tutorial panels are no longer translated into Japanese.

### User response

See your system programmer.

---

**JCT NOT  
AVAILABLE**

### Explanation

Either the object has no job control table (JCT) or an error occurred trying to process the JCT for the object.

### User response

Delete the command or type RESET on the command line.

---

***jesx* NOT  
ACTIVE**

### Explanation

The JES subsystem *jesx* is not active and one of the following has happened:

- You attempted to enter a command, select a pull-down choice, or process a pop-up that requires JES.
- SDSF attempted to obtain a checkpoint version. The checkpoint is not obtained.

### User response

Exit SDSF and retry the request when *jesx* is active.

---

**JES REQUIRED**

### Explanation

You issued a command, selected a pull-down choice or attempted to process a pop-up that requires JES. JES is not currently active.

### User response

Contact the system programmer. When JES is active again, exit SDSF and re-access it to make all SDSF functions available.

---

**JES REQUIRED  
FOR MAS**

### Explanation

The RES panel was accessed with the default parameter of MAS, either with the command or pull-down choice, but SDSF cannot determine which members are in the MAS. SDSF requires JES2 to determine the members in the MAS, and JES2 is unavailable. As a result, the panel shows all systems in the sysplex.

### User response

None required.

---

**JES 1.7  
REQUIRED**

### Explanation

The function that was attempted requires z/OS V1R7 JES2. For action characters and overtypable columns, both the user's system and the object's system must be at z/OS V1R7 JES2.

### User response

Delete the action character or overwrite.

---

**JES2  
ENVIRONMENT  
ONLY**

## Explanation

A command or option was entered that requires SDSF to be processing a JES2 subsystem, but SDSF is processing a JES3 subsystem. The command is rejected.

## User response

None required.

---

### JES3 ENVIRONMENT ONLY

## Explanation

A command or option was entered that requires SDSF to be processing a JES3 subsystem, but SDSF is processing a JES2 subsystem. The command is rejected.

## User response

None required.

---

### JES2 REQUIRED FOR MAS

## Explanation

A command included the MAS option when SDSF was processing a JES3 subsystem. The MAS option requires the JES2 environment. The option is internally converted to ALL.

## User response

None required.

---

### JOB IS PROTECTED

## Explanation

The P action character has been used against a protected job. The job has not been canceled.

## User response

Use the PP action character to cancel a protected job.

---

### JOB NO LONGER VALID

## Explanation

A command that was issued for a job failed, which may be because:

- The job has been purged
- The output group is no longer available. This could be because the characteristics have changed.
- The job is no longer active in the address space.

## User response

If the output group is no longer available but the data sets still exist, re-access the panel again and try again.

---

### JPN HELP NOT AVAILABLE

## Explanation

The Japanese Help/Tutorial feature is not installed.

**Note:** As of z/OS V2R3 the help and tutorial panels are no longer translated into Japanese.

## User response

See your system programmer.

---

### number LINES PRINTED

## Explanation

In response to a PRINT command or print action character (X), *number* lines have been printed. When you enter multiple X action characters, *number* is the lines in the last printed data set.

## User response

None.

---

### LINE NOT AVAILABLE

## Explanation

An action or overwrite requires a line device to be associated with the object. However, no line device is associated with the object

## User response

Remove the action character or modification from the panel by restoring or blanking the field, or type the RESET command.

---

### LOCATE ERROR return-code

## Explanation

An attempt was made to open a print data set. A LOCATE request for the specified data set failed with return code *return-code*. The system can also issue an explanatory message.

## User response

Ensure that the data set being processed is an existing data set.

---

### LOG BROWSE

#### ERR

*returncode-  
reasoncode*

## Explanation

An error occurred in trying to browse the log stream displayed on the OPERLOG panel. The message text contains the hexadecimal return and reason codes from the IXGBRWSE macro.

## User response

Try issuing the LOG command again or scrolling up or down with a scroll amount of MAX. If the problem persists, use the return and reason codes to determine the cause of the error.

---

### LOG CONN ERR

*returncode-  
reasoncode*

## Explanation

An error occurred in trying to connect to the log stream when displaying the OPERLOG panel. The message text contains the hexadecimal return and reason codes from the IXGCONN macro.

## User response

Use the return and reason codes to determine the cause of the error.

---

### LOG DISC ERR

*returncode-  
reasoncode*

## Explanation

An error occurred in trying disconnect from the log stream displayed on the OPERLOG panel. The message text contains the hexadecimal return and reason codes from the IXGCONN macro.

## User response

Use the return and reason codes to determine the cause of the error.

---

### LOG FUNCTION INOPERATIVE

## Explanation

The SDSF SYSLOG panel is not available due to an SDSF initialization error.

## User response

The system programmer should check the accompanying write-to-operator message for more information.

---

### LOGIC ERROR

1

## Explanation

SDSF could not process the command as it was entered.

## User response

Delete the command or enter the correct command.

---

### LOGIC ERROR

2

## Explanation

SDSF could not process the command as it was entered.

## User response

Delete the command or enter the correct command.

---

### LOGIC ERROR

3

## Explanation

An internal error has occurred processing action characters or overtypes. Some actions since the last enter might have been lost.

## User response

Press Enter to refresh the display and retry the actions or overtypes. If the problem persists, contact IBM for assistance.

---

**LOGLIM**  
*yyyy.ddd*  
*hh:mm:ss*

### Explanation

The OPERLOG is being filtered and the limit for the number of hours to search has been reached. *yyyy.ddd hh:mm:ss* is the date and time of the record being processed when the limit was reached. Processing is ended for the current request.

SDSF might have been reading forward or backward in the OPERLOG. If SDSF detected more than one limit in processing a single request, the message is issued for the last record that was processed.

### User response

Enter the LOGLIM command to change the limit for the operlog display. You can also enter the LOCATE command (by date and time) the NEXT and PREV commands, or SCROLL UP or DOWN MAX commands to scroll to a new position in the OPERLOG.

---

**LRECL TOO  
LARGE FOR  
GDDM**

### Explanation

An attempt was made to view a file using the V action character. However, GDDM could not be invoked because the input record length of the file exceeded the maximum that can be processed by GDDM. See the GDDM documentation for the maximum record lengths acceptable to GDDM.

### User response

The view request is terminated. The file can be browsed using SDSF, but not viewed using GDDM.

---

**MEMBER NAME  
MISSING**

### Explanation

A member name was not specified on an SDSF panel, but the data set being used is partitioned.

### User response

Specify a member name for the data set, or use a different data set name.

---

**MEMBER NAME  
NOT ALLOWED**

### Explanation

A member name was specified on a command or panel, but the data set being used is sequential.

### User response

Delete the member name for the data set, or use a different data set name.

---

**MEMBER NOT  
FOUND**

### Explanation

A member of a PDS was specified on an SDSF panel, but the PDS does not contain a member with that name.

### User response

Correct the member name.

---

**MENU READ  
LOOP**

### Explanation

A loop has occurred processing the SDSF help panels under TSO.

### User response

Contact IBM for assistance.

---

**MERGE ERROR**  
*returncode-*  
*reasoncode*

### Explanation

An error occurred issuing an SJF merge request. In the message text, *returncode* is the decimal return code from the SJF merge service and *reasoncode* is the decimal reason code.

### User response

Attempt to reissue the modify request. If the error persists, contact your system programmer for assistance.

---

**MIGRAT ALLOC  
FAILURE**

### Explanation

In response to a PRINT ODSN command, the required print data set was migrated and could not be allocated.

### User response

Recall the print data set and reissue the PRINT ODSN command.

---

#### **MOD NOT ALLOWED FOR PDS**

### Explanation

An attempt has been made to allocate a print data set with MOD, but the data set is partitioned. SDSF does not support MOD for this case.

### User response

Change the disposition to OLD or NEW or specify a sequential data set.

---

#### **MODULE NOT FOUND**

### Explanation

A QUERY MODULE command was issued for a module but the module could not be located.

### User response

The module named on the QUERY MODULE command must be an SDSF module that is accessible or currently loaded by SDSF.

---

#### **MODIFY ISSUED- number DS**

### Explanation

A request to modify the output descriptors has been scheduled. *number* is a count of the number of data sets in the output group at the time the request was issued (leading zeros suppressed). A SWB modify request applies to all the data sets in the group.

### User response

None.

---

#### **MULTI-ACTION UNAVAILABLE**

### Explanation

An attempt was made to issue multiple actions or overtypes on a panel that only supports a single action.

### User response

Remove the extra action characters or overtypes from the panel by restoring or blanking the field, or enter the RESET command.

---

#### **MUTUALLY EXCLUSIVE UPD**

### Explanation

The use of an action character or overtype was incompatible with the concurrent use of another overtype. For example, you cannot use the P action character on the H display while simultaneously overtyping the class field. Purge and the class change are mutually exclusive.

### User response

Either restore or delete the field, or type RESET on the command line.

---

#### **NO *sysid* SYSLOG FOUND**

### Explanation

SDSF is unable to locate any SYSLOG data sets for the SYSID being processed.

### User response

Use the SYSID command to change the SYSID, for example SYSID IP01.

---

#### **NO CHARS 'string' FOUND**

### Explanation

The FIND command could not find the character string *string*.

### User response

None.

---

#### **NO COMMANDS FOUND IN GROUP GROUP-NAME**

### Explanation:

No commands were found in group *group-name* to process. The commands have been left unchanged.

### User response:

No response is required.

---

**NO COMMAND  
PROVIDED****Explanation**

No command text was entered with the command on the System Command Extension pop-up or the / command, or no action character or otype was entered with row numbers on the command line.

**User response**

None required. If you are attempting to save a command on the System Command Extension pop-up, type a command on the command line and then press the Save PF key (PF10).

To issue an action character from the command line, use this syntax:

*rows action-character*

To otype a field from the command line, use this syntax:

*rows column-title=value*

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

---

**NO DATA IN  
DATA SETS****Explanation**

The data sets for the job that has been selected are all empty data sets. There is no data to browse.

**User response**

None.

---

**NO DATA SETS  
ALLOCATED****Explanation**

An allocation failure has occurred for each data set in the job to be displayed. Since no data sets were allocated, they cannot be browsed.

Additional messages describing the specific allocation failures might have been issued by the system.

**User response**

Use the system messages to determine the reason for the allocation failure and retry the request.

---

**NO DATA SETS  
AUTHORIZED****Explanation**

An attempt was made to display a job but there is no data set the user is authorized to view.

**User response**

If you have been denied access in error, see [“User authorization” on page 461](#) for more information.

---

**NO DATA SETS  
OPENED****Explanation**

An open failure occurred for each data set in the job to be displayed. Since no data sets were opened, they cannot be browsed.

Additional messages can be issued by the system describing the error.

**User response**

Determine the reason for the open failure using the error codes in the message.

---

**NO DATA TO  
DISPLAY****Explanation**

There is no data to display for the request. If you are requesting slash command details or groups, there may not be data because there are no commands in the list. The value for Show may be excluding commands from the list. If you are accessing an SDSF panel, data may not yet be available.

**User response**

To see command or group details, try changing the value for Show to include commands in the list. For example, a value of \* includes all commands for all groups, including commands that are not assigned to a group. To see panel data, try accessing the panel again. For the main panel, use the **SET MENU ALL** command to display hidden entries.

---

**NO  
DISPLAYABLE  
DATA****Explanation**

A user has attempted to display a job's SYSOUT data, but the job has no data that can be displayed by that user.

## User response

Delete the command or type RESET on the command line.

---

### NO FILTERS AVAILABLE

## Explanation

An attempt was made to turn filtering on when there are no available filters.

## User response

None required. To filter the panel, type a filter command or type FILTER ? to enter a filter on the Filter pop-up.

---

### NO HELP AVAILABLE

## Explanation

SDSF could not show a help panel under TSO because it was unable to allocate or open the SDSF help panel data set.

## User response

Check that the SDSFMENU data set is allocated to the SDSF help panel library. Check the MENUS and MENUVOL parameters in ISFPARMS to see that they are coded correctly.

---

### NO OPERLOG FOUND

## Explanation

You entered a LOG command to display the OPERLOG panel, but no log stream is available to display.

## User response

To display the SYSLOG panel, which contains messages for a single system, type LOG S.

---

### NO PREFIX 'string' FOUND

## Explanation

The character string *string* was not found in response to a FIND command.

## User response

None.

---

### NO PREVIOUS INPUT

## Explanation

You entered a repeat command, but no modification has yet been done to repeat.

## User response

Enter an action character or overwrite a field prior to using the repeat command.

---

### NO RESPONSE FROM RMF

## Explanation

SDSF has passed the timeout limit awaiting a response from RMF to display the DA panel.

## User response

Retry the request. To bypass the error, use the SYSNAME command or pull-down choice to limit the number of systems being processed.

---

### NO RESPONSE RECEIVED

## Explanation

The delay interval for a command response or sysplex data had been reached. The command response or data on the SDSF panel is not shown. Sysplex data not shown may include WTORs on the Log panel, when you have used the SYSID command to request the log for a system other than the one you are logged on to.

## User response

To see the command response, issue the ULOG command to view the user log. To increase the delay interval, use the SET DELAY command.

To increase the delay interval for sysplex data, use the SET TIMEOUT command.

You might also try limiting the amount of sysplex data being returned, with one or more of the following:

- Parameters on the panel command, for example, PR 1 to see only printer 1.
- The SYSNAME command or pull-down choice, to restrict the systems to be included.
- The DEST command or pull-down choice, to restrict the destinations to be included.



- The SELECT command, to temporarily restrict the panel based on the fixed field, for example, SELECT PRT33 to see only printer PRT33.

Note that the Filter function does not have the effect of limiting the data returned

If the problem cannot be corrected with these methods, the operator or system programmer should ensure that one or more SDSF servers has not been stopped by issuing the F *server*, D, C command.

---

**NO STEP DATA  
FOUND****Explanation**

No job step data was found in response to a JS action character.

**User response:**

No response is required.

---

**NO SUFFIX  
'string' FOUND****Explanation**

The character string *string* was not found in response to a FIND command.

**User response**

None.

---

**NO WORD  
'string' FOUND****Explanation**

The character string *string* was not found in response to a FIND command.

**User response**

None.

---

**NOT ALL  
SYMBOLS  
SHOWN****Explanation**

The number of symbols exceeds the number of symbols that can be shown by the pop-up.

**User response**

Follow your local procedure for reporting a problem to IBM.

---

**NOT ALLOWED  
- PRIOR OD****Explanation**

The % action character was used to invoke a REXX exec, but REXX execs are not allowed because the current panel was accessed from the OD (Output Descriptor) panel.

**User response**

Delete the action character. If possible, access the panel without first accessing OD, then try the action character again.

---

**NOT ALLOWED  
WITH  
OUTDESC****Explanation**

A value for forms, process mode, PAGEDEF, or FORMDEF has been entered along with an Output Descriptor Name. Those fields cannot be specified when Output Descriptor Name is used.

**User response**

Delete the value for forms, process mode, PAGEDEF, or FORMDEF if an Output Descriptor Name is to be used. Alternatively, delete the Output Descriptor Name.

---

**NOT AUTH TO  
LOGSTREAM****Explanation**

You are not authorized to the log stream. Access to the log stream is required for this function.

**User response**

Contact your security administrator for authorization to the log stream.

---

**NOT AUTH TO  
OPERLOG****Explanation**

You entered a LOG command to display the OPERLOG panel, but are not authorized to the log stream that is displayed on the OPERLOG panel.

**User response**

To display the SYSLOG panel, which contains messages for a single system, type LOG S.

---

**NOT  
AUTHORIZED  
BY EXIT****Explanation**

You attempted to issue a command that you are not authorized by the SDSF user exit to issue.

**User response**

Delete the command.

If you have been denied authorization in error, the system programmer should check the SDSF user exit module, ISFUSER.

---

**NOT  
AUTHORIZED  
FOR CHECK****Explanation**

You are not authorized to issue the command for the check.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR CHOICE****Explanation**

You are not authorized for the pull-down choice.

**User response**

Select another choice or press PF3 to close the pull-down. If your authorization has changed during the current SDSF session and the change is not yet reflected in the pull-down, either type the SDSF command associated with the choice or exit and reenter SDSF.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR CLASS****Explanation**

The user is not authorized to issue commands against the class.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR CMD****Explanation**

You attempted to issue an action character, overwrite a field, or issue an MVS or JES command that you are not authorized to issue.

**User response**

Delete the action character, overtyped information, or MVS or JES command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR CONS****Explanation**

You attempted to activate an extended console but are not authorized to the console. The console is not activated, and the message responses is not available to the ULOG panel or with the slash command.

**User response**

Contact your security administrator to grant you access to the extended console.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR DEV****Explanation**

The user is not authorized to issue commands against the device.

### User response

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR DEST**

### Explanation

You are not authorized for a requested destination name.

### User response

Delete the destination name.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR ENC**

### Explanation

The user is not authorized to issue commands for the enclave.

### User response

Delete the command.

---

**NOT  
AUTHORIZED  
FOR FUNCTION**

### Explanation

You are not authorized for the function provided by a pop-up.

### User response

Cancel the pop-up.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR INIT**

### Explanation

You are not authorized to issue commands to the initiator.

### User response

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR JOB**

### Explanation

You are not authorized to issue commands against the job.

### User response

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR NODE**

### Explanation

The user is not authorized to issue commands against the node.

### User response

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR PROC**

### Explanation

You are not authorized to issue commands to the z/OS UNIX process.

### User response

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR PRT**

**Explanation**

You are not authorized to issue commands to the printer.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR RES**

**Explanation**

You are not authorized to issue commands to the system resource.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR SE**

**Explanation**

You are not authorized to issue commands to the WLM scheduling environment.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
FOR SYS**

**Explanation**

You are not authorized to issue commands for the member of the MAS.

**User response**

Delete the command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**NOT  
AUTHORIZED  
TO DATA**

**Explanation**

The server has rejected a request for sysplex data due to an authorization failure. The data is not displayed.

**User response**

Exit SDSF and then re-access it.

---

**NOT ISSUED -  
NO CMDCHAR**

**Explanation**

An attempt to issue an action character against a row that should contain a subsystem command character (cmdchar) was not issued because the command character was missing. The command was not issued.

**User response**

Determine the reason that the command character is missing, which could be that the row reflects an object that is not in the required status (for example, not active).

---

**NOT PAGE  
MODE DATA**

**Explanation**

A view request was entered for a data set that is not page mode. SDSF considers a data set to be page mode only if it is identified as being page mode by JES. SDSF converts the view request to browse. The data set is not be composed by the view utility, but is displayed on the ODS panel.

**User response**

None.

---

**NOT VALID FOR  
TYPE****Explanation**

The action character is not a valid action against that object type.

**User response**

Enter the correct action character.

---

**NOT VALID  
WHEN REXX****Explanation**

An SDSF command was issued or a command operand was used that is not valid in the REXX environment.

**User response**

Delete the command or operand.

Refer to *z/OS SDSF User's Guide* for more information.

---

**"O" ACTION  
REQUIRED****Explanation**

The field modification the user has attempted requires the O action character.

**User response**

Issue the O action character.

---

**OBTAIN ERROR  
*return-code*****Explanation**

An attempt was made to open a print data set. An OBTAIN request failed with return code *return-code*.

The system can also issue an explanatory message.

**User response**

Ensure that the data set being processed exists either on the volume pointed to by the catalog or specified on the request.

For a description of the return code, refer to *z/OS DFSMSdfp Advanced Services*.

---

**OFFSET NOT  
ZERO****Explanation**

The number specified after the destination name in an ISFNTBL macro is not 1. The number must be 1 in ISFNTBL macros that are named in the IDEST parameter.

**User response**

The system programmer should check the ISFNTBL macros named in the IDEST parameter of the ISFGRP macro.

---

**OLD AND NEW  
NAMES MUST  
BE DIFFERENT****Explanation**

A command group is being renamed but the new name is the same as the old name.

**User response**

Ensure that the new name is different from the old name.

---

**OPERLOG NOT  
ACTIVE****Explanation**

You entered the LOG O command but OPERLOG is not active on the system to which you are logged on. The OPERLOG panel is displayed, but may not contain messages from the system to which you are logged on.

**User response**

To see messages from the system to which you are logged on, type LOG or LOG S.

---

**OPTION  
LOCALLY  
DISABLED****Explanation**

The command or option has been disabled by the installation.

**User response**

If the command or option should be allowed, contact your system programmer to review the SDSF configuration options.

---

**OPTS=*mask*  
REC-  
CNT=*record-***

*count*  
**DSNAME=***data-*  
*set-name*

## Explanation

This message is issued to the message line in response to a TRACE command. *mask* is the event mask used for tracing; *record-count* indicates the number of records written to the trace data set; *data-set-name* is the name of the trace data set.

## User response

None.

---

**\*\*\*\* OS CVOL**  
**ERROR**

## Explanation

This message accompanies the ALLOC ERRORreturn-code error-code information code message.

## User response

None.

---

**OUTADD**  
**ERROR** *return-*  
*code-reason-*  
*code*

## Explanation

An error occurred creating an output descriptor for the PRINT command. *return-code* is the decimal return code from the OUTADD macro, and *reason-code* is the hexadecimal reason code. The PRINT request is not executed.

## User response

Use the return and reason codes to diagnose the error.

---

**OUTPUT DESC**  
**NOT AVAIL**  
*return-code*

## Explanation

An error occurred trying to obtain the output descriptors for at least one data set being displayed on the JDS panel. The output descriptor fields begin with the PageDef column in the default field list (PageDef, FormDef, Title, Name, and so on) in the default field list. See [“Job Data Set panel \(JDS\)” on page 147](#).

In the message text, *return-code* is a reason code describing the source of the error, as follows:

**01**

SJF service error

**02**

SWBIT block validation error

**03**

SWBIT job or data set key validation error

**04**

SWBIT read I/O error.

The output descriptors for the data set are not shown. If the reason code is 01, message ISF027I is also issued to further identify the data set and error that occurred.

## User response

Contact your system programmer to determine the cause of the error.

---

**OVERTYPE**  
**VALUE TOO**  
**LONG**

## Explanation

The value typed on an overtime extension pop-up is longer than the maximum width for the field.

## User response

Correct the value.

---

*number* **PAGES**  
**PRINTED**

## Explanation

In response to a PRINT command, *number* pages were printed.

## User response

None.

---

**PARM INVALID**

## Explanation

You entered a command with an invalid parameter, invalid printer name, invalid row number or row number range, invalid action character, or the parameter is not allowed in the current environment. The cursor is positioned under the parameter in error.

## User response

Correct the invalid parameter.

---

**PARM NOT  
ACCEPTABLE****Explanation**

The command that was entered is not valid in the current environment. It may have been rejected because of a setting in the SDSF configuration parameters, ISFPARMS.

**User response**

Correct the invalid parameter.

---

**PARTIAL DATA  
SHOWN****Explanation**

While generating the PR panel, SDSF detected that printers were being added dynamically. SDSF was unable to build a complete printer list because the list exceeded a table retry limit. The printer list is incomplete.

**User response**

Refresh the PR panel after dynamic addition of printers is complete.

---

**POINT ERROR  
RC=return-code****Explanation**

The POINT request for the spool data for a job failed. The job's SYSOUT is not displayed. This may occur if the job was purged or if the SYSOUT data was selected from the Display Active Users (DA) panel and the job was swapped out.

**User response**

Try displaying the SYSOUT later. If the job was active and swapped out, the SYSOUT will be accessible. If the job was purged, the SYSOUT will not be found. For a description of the return codes, refer to [\*z/OS DFSMS Macro Instructions for Data Sets\*](#).

---

**number  
PREFIX string****Explanation**

In response to a FIND command, a number of occurrences of a character string have been found. If SDSF finds more than 999999 occurrences, *number* is 999999+. The cursor is positioned on the character string.

**User response**

None.

---

**PREFIX  
INVALID****Explanation**

The PREFIX parameter was used with the FIND command on a panel other than the SYSLOG or ODS panel. The cursor is positioned on the character string.

**User response**

None.

---

**PRINT ABEND  
abend-code****Explanation**

An abend occurred during an SDSF print request. *abend-code* is the abend completion code in hexadecimal. The print operation is terminated and the print file is closed.

**User response**

Use the abend code to determine the reason for the abend. Additional explanatory messages might have been issued by the system to further describe the abend.

---

**PRINT  
ALREADY  
OPEN****Explanation**

An attempt has been made to open a previously opened print file.

**User response**

If a different print file is to be used, issue a PRINT CLOSE command to close the current file.

If the current print file is to be used, use the PRINT command or print action character (X) to print to the file.

---

**PRINT CLOSED  
number LINE****Explanation**

In response to a PRINT CLOSE command or a print action character, *number* lines were printed before the print file was closed.

## User response

None.

---

### **PRINT CRITERIA OBSOLETE**

## Explanation

SDSF detected that the saved print criteria are obsolete and cannot be used. Any saved values found to be invalid have been reset. Additional messages might have been written to ULOG that describe the fields that are recognized as being invalid.

## User response

No action is required. However, new values for the reset fields will be required when accessing the print pop-ups.

---

### **PRINT ENDED - LOOP COND**

## Explanation

An attempt was made to print an open print data set. The data set was not printed. This error occurs if you are trying to print an active print file or trying to print the active SDSF trace data set.

## User response

Data sets other than the open print data set belonging to the user's TSO session can be printed individually from the JDS panel. Issue a PRINT CLOSE or TRACE OFF command before printing.

---

### **PRINT FILE ERROR**

## Explanation

The *ddname* you specified for printing cannot be found.

## User response

Allocate a *ddname* and retry the request.

---

### **PRINT NOT OPENED**

## Explanation

A command requiring an open print data set was issued, but the print data set has not been opened.

## User response

Issue either the PRINT OPEN or PRINT ODSN command to retry the request. For information on printing, see the online help.

---

### **PRINT OPEN ERROR**

## Explanation

The PRINT OPEN command or print action character failed.

## User response

See the online help to diagnose the cause of error.

---

### **PRINT OPENED**

## Explanation

The print file has been successfully opened.

## User response

None.

---

### **PRINT SCREEN UNAVAILABLE**

## Explanation

Another print job was in progress when you requested the print screen panel.

## User response

Retry the command.

---

### **\*\*\*\* PRIVATE CATALOG ERROR**

## Explanation

This message accompanies the ALLOC *ERRORreturn-code error-code information-code* or LOCATE *ERRORreturn-code* message, and explains why the allocation of the print file failed.

## User response

Ensure that the data set used in the PRINT ODSN command is an existing data set.

---

### **PROFILE DESCRIPTION S CREATED.**



## Explanation

The first step of the ISFPARMS-to-RACF conversion is complete. Profile descriptions have been created for the ISFPARMS.

## User response

Review the profile descriptions for completeness and appropriateness. In particular, look for lines marked CHANGE. These lines need to be edited.

---

**PROFILE  
DESCRIPTION  
S DATA SET  
MUST BE  
ALLOCATED.**

## Explanation

The menu option that has been selected requires the profile description data set, but the data set has not been allocated. The data set is named on the conversion utility profile pop-up, which you display with option 1 of the conversion utility menu.

## User response

Choose another menu option, or allocate the profile description data set. It must be a sequential file with record length of at least 80.

---

**PROMPT NOT  
AVAILABLE**

## Explanation

The Prompt function is not available. It may have been disabled by the installation.

## User response

None required. You can type the desired value in the field.

---

**RACF  
COMMANDS  
CREATED.**

## Explanation

Creation of the RACF commands from profile descriptions is complete.

## User response

Review the RACF commands for completeness and appropriateness. In particular, look for lines marked CHANGE. These lines need to be edited.

---

**RACF  
COMMANDS  
DATA SET  
MUST BE  
ALLOCATED.**

## Explanation

The menu option that has been selected requires the RACF commands data set, but the data set has not been allocated. The data set is specified in the SDSF Security Assist profile.

## User response

Choose another menu option, or allocate the RACF commands data set. It must be a sequential file with record length of at least 133.

---

**%exec-name  
RC=return-code**

## Explanation

A REXX exec invoked with the % action character ended and returned the string *return-code*.

## User response

Examine the return code and respond as appropriate.

---

**number  
RECORDS  
SEARCHED**

## Explanation

A FIND command searched *number* SYSLOG or output data set records without finding the requested character string. The FIND ended before FINDLIM was reached.

## User response

Use the Repeat-Find PF key or enter an F in the command input area to resume the search, or reset FINDLIM if authorized.

---

**RESPONSE  
NOT RECEIVED**

## Explanation

The timeout interval has been reached before one or more SDSF servers responded with data. The data on the SDSF panel is incomplete.

## User response

To increase the timeout interval, use the SET TIMEOUT command or pull-down choice.

You might also try limiting the amount of sysplex data being returned, with one or more of the following:

- Parameters on the panel command, for example, PR 1 to see only printer 1.
- The SYSNAME command or pull-down choice, to restrict the systems to be included.
- The DEST command or pull-down choice, to restrict the destinations to be included.
- The SELECT command, to temporarily restrict the panel based on the fixed field, for example, SELECT PRT33 to see only printer PRT33.

Note that the Filter function does not have the effect of limiting the data returned

If the problem cannot be corrected with these methods, the operator or system programmer should ensure that one or more SDSF servers has not been stopped by issuing the F *server*, D, C command. WebSphere® MQ support is obsolete as of z/OS V2R3.

---

### *number* RESPONSES NOT SHOWN

## Explanation

An action character or slash command has been entered that results in messages being displayed on the screen, and the number of message responses received exceeds the screen depth. *number* message responses could not be shown.

## User response

Enter the ULOG or LOG commands to view all of the message responses.

---

### RMF EXIT NOT INSTALLED

## Explanation

The SDSF-supplied RMF data reduction exit is not installed on all systems in the sysplex. RMF is installed and active, but the SDSF exit is not in the RMF steplib or accessible to it.

## User response

Ensure that the exit is installed. Refer to “[RMF considerations](#)” on page 453 for information.

---

### RMF III NOT AVAILABLE

## Explanation

An attempt was made to access a panel that requires RMF Monitor III, and RMF Monitor III is not started. SDSF uses RMF Monitor III to obtain data for the panel.

## User response

Ensure that RMF Monitor III is started. For more information, refer to “[RMF considerations](#)” on page 453.

---

### RMF LOCAL ERR *returncode-* *reasoncode*

## Explanation

An error occurred during invocation of the RMF ERBSMFI Application Interface. *returncode-reasoncode* is the decimal return and reason code from the interface.

## User response

Use the return code and reason code, along with the appropriate RMF documentation, to determine the cause of the error.

---

### RMF NOT ENABLED

## Explanation

An attempt was made to access the DA panel with RMF as the source of the data. RMF is not enabled on your system.

## User response

None required. The DA panel is displayed with information derived from MVS control blocks rather than RMF. To request that DA use the MVS control blocks rather than RMF, and prevent display of this message, the installation can use the installation exit point of ISFUSER. For more information on the installation exit routines, refer to [Chapter 12, “Using installation exit routines,”](#) on page 437.

---

### RMF PLEX ERR *returncode-* *reasoncode*

## Explanation

An error occurred during invocation of the RMF ERB2XDGS Application Interface. *returncode-reasoncode* is the decimal return and reason code from the interface.

## User response

Use the return code and reason code, along with the appropriate RMF documentation, to determine the cause of the error.

You can bypass the problem by typing SYSNAME with no operands to see data for the local system.

---

### RMF REQUIRED

## Explanation

An attempt was made to access the DA panel when SDSF is processing JES3, and either RMF is not installed or is disabled. The command is rejected.

## User response

None required.

---

### RMF SYSPLEX NOT ACTIVE

## Explanation

The RMF server is not active. Sysplex data cannot be obtained for the DA display.

## User response

You can bypass the problem by typing SYSNAME with no operands to see data for the local system.

For information about the RMF server, see your system programmer.

---

### SAPI ERROR *returncode - reasoncode*

## Explanation

A problem was encountered related to the SYSOUT application programming interface (SAPI). The return code *returncode* is from the SSOBRETN field and the reason code *reasoncode* is from the SSS2REAS field.

## User response

For a description of the return code and reason code, see [z/OS MVS Using the Subsystem Interface](#).

---

### SCREEN DEFINITION ERROR

## Explanation

Incorrect or invalid screen dimensions have been specified for SDSF running in batch. The dimensions are ignored.

Possible causes of this error are:

- Dimensions out of bounds
- Non-numeric dimensions
- Syntax error specifying parameter.

## User response

Correct the screen dimensions and resubmit the SDSF job.

---

### SCREEN IMAGE PRINTED

## Explanation

The contents of the screen have been printed in response to an SDSF PRINT SCREEN command.

## User response

None.

---

### SDSF ABEND *abend-code*

## Explanation

A recoverable abend occurred. *abend-code* is the abend completion code in hexadecimal. SDSF continues; some functions may not be available.

## User response

Use the abend code and the dump to diagnose the problem.

---

### SERVER NAME *server-name* TOO LONG

## Explanation

The server name *server-name* specified on the SERVER parameter is longer than 8 characters.

## User response

Correct *server-name*.

---

**SERVER NOT  
COMPATIBLE****Explanation**

The SDSF client attempted to connect to an SDSF server, but the level of the server is not compatible with the level of the client.

**User response**

Ensure the client is connecting to the correct server. To see the name of the server, issue the WHO command.

Refer to “Accessing the server” on page 74 for details on how SDSF selects a server for connection.

---

**SERVER server-  
name  
NOTAVAIL****Explanation**

SDSF was invoked using the SERVER keyword, but the named server is not available. SDSF continues execution using the parameters from the ISFPARMS in assembler macro format.

**User response**

Ensure that the named server is running and that the ISFPARMS statements have been activated.

---

**SET COMMAND  
COMPLETE****Explanation**

The user issued the SET command and it has been completed successfully.

**User response**

None.

---

**SET SCREEN  
FAILED  
function code****Explanation**

SDSF has received an error from the ISPF dialog manager. *function* is a number indicating the ISPF dialog function that failed. The numbers and the functions they represent are:

- 01** VDEFINE
- 02** VGET

- 03** DISPLAY
- 04** VPUT
- 05** VCOPY
- 06** ADDPOP
- 07** VREPLACE

*code* is the return code from the failing function. Refer to [z/OS ISPF Dialog Developer's Guide and Reference](#) or [z/OS ISPF Services Guide](#) for the meaning of the return code.

**User response**

The system programmer should correct the error with the ISPF function.

---

**SHOW VALUE  
NOT VALID****Explanation**

The value provided for Show is not valid. It must be a valid group name, or a group name with the pattern matching characters (\* and % by default). A group name must consist of alphanumeric characters or these special characters: @ # \$ . : - It must begin with an alphabetic character and cannot begin with isf or ibm. Those names are reserved for use by IBM. It cannot contain embedded blanks.

**User response**

Type a valid name. For a list of groups, press the Prompt key (PF4) with the cursor in the field.

---

**SOCKET NOT  
AVAILABLE****Explanation**

An action or oertype requires a socket to be associated with the object. However, no socket is associated with the object

**User response**

Remove the action character or modification from the panel by restoring or blanking the field, or type the RESET command.

---

**SORT COLUMN  
NOT FOUND**

## Explanation

A SORT command was entered specifying a column name that does not exist for this panel. The cursor is positioned under the column name that was not recognized.

## User response

Correct the column name and reenter the command.

---

**SORT COLUMN  
NOT UNIQUE**

## Explanation

A SORT command was entered using an abbreviated column name that does not uniquely identify one column in the panel. The cursor is positioned under the column name in error.

## User response

Reenter the command specifying a unique abbreviation or a full column name.

---

**SORT COLUMN  
REPEATED**

## Explanation

In a sort request, a column was specified more than once.

## User response

Correct the sort request so that no column is specified more than once.

---

**SORT  
CRITERIA  
OBSOLETE**

## Explanation

During the current SDSF session, this is the first display of this panel. This first display uses sort criteria saved from a previous session. One or more of the saved criteria specify a column name that has been removed from the ISFPARMS definition of this panel. A column might have been removed because of security changes, release migration, or customization of the installation supplied field lists.

The obsolete criteria are deleted. If there are any valid sort criteria, the panel is sorted using only the valid criteria.

An additional message, INVALID COLUMN, is displayed in the message line and indicates the column name that no longer exists.

## User response

No action is required. A new SORT command can be issued to establish new sort criteria. See the additional message in the message line for more information.

---

**SORT ORDER  
NOT A OR D**

## Explanation

A SORT command was entered, but the sort order specified is not A (for ascending sort) or D (for descending sort). The cursor is positioned under the operand in error.

## User response

Correct the command and reenter it.

---

**SPOOL DATA  
ERROR**

## Explanation

The spool data for a job became invalid while the job's SYSOUT data was being displayed. This might occur if the job was purged or if the SYSOUT data was selected from the DA panel and the job was swapped out.

## User response

Try displaying the SYSOUT later. If the job was active and swapped out, the SYSOUT is accessible. If the job was purged, the SYSOUT will not be found.

---

**SRVCLASS  
NAME INVALID**

## Explanation

The value entered for a service class was rejected by the WLM programmable service IWMERES.

## User response

Refer to [z/OS MVS Programming: Workload Management Services](#) for more information about service classes.

---

**SSI 82 ERR  
returncode -  
reasoncode**

## Explanation

A problem was encountered retrieving data from SSI 82. The return code is from the SSOBRETN field and the reason code is from the SSJPRETN field.

## User response

For a description of the return and reason code, see [z/OS MVS Using the Subsystem Interface](#).

---

### SSI RETURN CODE *return-* code

## Explanation

A subsystem interface (SSI) return code of *return-code* was issued when a user tried to requeue an output group from the H panel or the JDS panel or tried to overwrite a field on the OD panel.

## User response

The system programmer should see one of the following return codes:

- 4** Subsystem does not support this function
- 8** Subsystem exists but is not up
- 12** Subsystem does not exist
- 16** Function not completed
- 20** Logical error.

---

### SSOB RETURN CODE *return-* code

## Explanation

An SSOB return code of *return-code* was issued when a user tried to requeue an output group from the H panel or the JDS panel.

## User response

The system programmer should see one of the following return codes:

- 4** No more data sets to select
- 8** Job not found

- 12** Invalid search arguments

- 16** Unable to process now

- 20** Duplicate job names

- 24** Invalid combination of job name and job ID

- 28** Invalid destination specified.

---

### STEP NAME NOT AVAILABLE

## Explanation

The user is trying to reset the performance group number for a started task and the step name is unavailable.

## User response

None.

---

### STORAGE NOT AVAILABLE

## Explanation

A request to obtain storage failed because the storage was not available.

## User response

The request is not processed. If possible, increase the region size used to invoke SDSF.

In the REXX environment, use special variables or other filter options to limit the number of REXX variables needed to satisfy a request. For more information, type REXXHELP (ISPF only).

---

### SUBS RETURN CODE *return-* code

## Explanation

SDSF has issued a return code of *return-code*.

## User response

The system programmer should refer to the return code for a description of the error. The return codes are:

- 4** Bad option passed

|           |  |
|-----------|--|
| <b>8</b>  | Not in an authorized state   |
| <b>12</b> | Different JES system   |
| <b>16</b> | Requested address space identifier not valid   |
| <b>20</b> | Requested address space identifier not a TSO user  |
| <b>24</b> | JES not active   |
| <b>28</b> | Bad job key  |
| <b>32</b> | SRB abend  |
| <b>36</b> | Parameter invalid  |
| <b>40</b> | User swapped out   |
| <b>48</b> | Abend processing parameter   |
| <b>52</b> | Bad data set key   |
| <b>56</b> | Bad member-track-track-record (MTTR).<br><br>If SUBS RETURN CODE 56 appears randomly on the log, and disappears when the user presses Enter, and if the system has a high paging rate, the message might indicate a timing exposure. Press Enter when the message appears. |
| <b>60</b> | Buffer full  |
| <b>64</b> | GETMAIN failed   |
| <b>68</b> | User canceled  |
| <b>72</b> | Attention key pressed  |
| <b>76</b> | Cross-memory not active  |
| <b>80</b> | Bad application copy error   |
| <b>84</b> | Application copy level error   |
| <b>88</b> | Application copy update error  |
| <b>92</b> | Application copy no longer available   |
| <b>96</b> | ECSA application copy no longer available  |

|            |                                   |
|------------|-----------------------------------|
| <b>100</b> | Invalid spool data set name call  |
| <b>104</b> | Buffer size invalid               |
| <b>108</b> | Dynamic printer addition overflow |
| <b>112</b> | JQE no longer valid               |
| <b>116</b> | SJB/SDB invalid.                  |
| <b>120</b> | Checkpoint version error          |
| <b>124</b> | Subsystem not defined             |
| <b>128</b> | Invalid buffer header             |
| <b>132</b> | Unable to obtain printer data     |

---

***number* SUFFIX**  
**'*string*'**

### Explanation

In response to a FIND ALL command, *number* occurrences of a character string have been found. If SDSF finds more than 999,999 occurrences, *number* is 999999+. The cursor is positioned on the character string.

### User response

None.

---

**SUFFIX**  
**INVALID**

### Explanation

The SUFFIX parameter was used with the FIND command on a panel other than the logs or ODS panels.

### User response

Correct the command and reissue it.

---

**SWB ERROR**  
***nnnn-rea1-rea2***

### Explanation

An error occurred issuing a SWB modify request. In the message text, *nnnn* is the decimal return code from the SWB modify request. *rea1* and *rea2* are the decimal reason codes.

## User response

Attempt to reissue the modify request. If the error persists, contact your system programmer for assistance.

---

*field-name*

**SYNTAX  
ERROR**

## Explanation

An output descriptor has been overtyped, but SJF has detected a syntax error in the input for the *field-name* keyword. The variable *field-name* is the name of the output descriptor and might not necessarily be the same as the field title shown on the display.

## User response

Correct the overtype.

---

**SYSOUT NOT  
FOUND**

## Explanation

An attempt to work with SYSOUT was rejected by the subsystem interface (SSI).

## User response

Try the request again.

---

**SYSOUT  
REQUEUED**

## Explanation

In response to your request, SYSOUT has been queued or purged.

## User response

None.

---

*number*  
**SYSOUT  
REQUEUED |  
PURGED**

## Explanation

In response to your request, *number* SYSOUT data sets have been queued or purged.

## User response

None.

---

**SYSPLEX DA  
NOT AVAILABLE**

## Explanation

You requested a sysplex-wide DA display, but either the RMF ERB2XDGS interface could not be loaded, or the installation has disabled the use of RMF for the DA display.

## User response

No action is required. For information about the RMF server, see your system programmer.

---

**SYSTEM BUSY,  
RETRY**

## Explanation

SDSF was unable to gather the data for a panel because a required system was busy.

## User response

Refresh the panel by pressing Enter. If the problem persists, follow your local procedure for contacting IBM for service.

---

**SYSTEM  
MESSAGES  
NOT AVAILABLE**

## Explanation

An error occurred initializing the Consoles query environment. WTORs and AMRF queue entries will not be displayed on the SR panel or the LOG panel.

## User response

See your system programmer. SDSF may have previously issued a message describing the error.

---

**SYSTEM NOT  
CONNECTED**

## Explanation

A command has been issued for a member of the MAS, but the command must be routed to the system and the system is not accessible.

## User response

Retry the command when the system is connected.

---

**TEMP FILE  
ALLOC FAILED**



## Explanation

An error occurred attempting to allocate the temporary file required by the GDDM view utility. The request to view a data set is ended.

## User response

See the accompanying explanatory system message describing the error.

---

**TEMP FILE  
OPEN FAILED**  
*reason-code*

## Explanation

An error occurred in the attempt to open the temporary file required by the GDDM view utility. The request to view a data set is ended. *reason-code* is one of the following:

**01**

SDSF was unable to open the temporary file DCB. Accompanying messages can further describe the error.

**02**

The block size of the temporary file exceeded the capacity of the DASD device on which it is allocated.

## User response

Determine the reason for the failure and retry the view request. If *reason-code* is 02, the system programmer should change the unit name for the temporary file (defined by the VIO keyword in the ISFGRP macro of ISFPARMS) to a device capable of holding a copy of the page-mode data to be composed.

---

**TOO FEW  
PARMS**

## Explanation

There were not enough parameters specified on the command. SDSF does not process the command.

## User response

Correct the command and retry the request.

---

**TOO MANY  
COLUMNS  
SELECTED**

## Explanation

You have selected too many columns or blocks on the pop-up.

## User response

Correct the selection. For ARRANGE, you can select one column.

---

**TOO MANY  
DEST NAMES**

## Explanation

More than four destination names were specified in an ISFNTBL macro or NTBL statement that is named in the IDEST parameter of the user's ISFGRP macro or GROUP statement.

No more than four destination names can be specified in an ISFNTBL macro or NTBL statement that is named in the IDEST parameter of the ISFGRP macro or GROUP statement.

## User response

The system programmer should correct ISFPARMS. The user should correct or delete the DEST command so the maximum number is not exceeded.

---

**TOO MANY  
FILTERS**

## Explanation

An attempt was made to enter more filters than are allowed. The maximum number of filters is 25.

## User response

Delete the command. You can remove a filter with `FILTER -column`. Under ISPF, you can use `FILTER ?` to display the pop-up, which allows you to modify filters, or delete them by blanking them out.

---

**TOO MANY  
PARAMETERS**

## Explanation

Too many parameters were specified with a command.

## User response

Correct or delete the command.

---

**TOO MANY  
PARMS**

## Explanation

Too many parameters were specified with a command.

## User response

Correct or delete the command.

---

### \* TOP OF DATA REACHED \*

## Explanation

A FIND PREV or FIND FIRST command reached the top of the data without finding the requested character string.

## User response

Use the Repeat-Find PF key or enter an F in the command input area to resume the search at the bottom of the data.

---

### TRACE DCB ALREADY CLOSED

## Explanation

A TRACE OFF command was entered, but the ISFTRACE file has already been closed. The TRACE OFF command is ignored.

## User response

None.

---

### TRACE DCB ALREADY OPENED

## Explanation

A TRACE ON command was entered, but the ISFTRACE file has already been opened. The TRACE ON command is ignored.

## User response

None.

---

### TRACE DCB CLOSED

## Explanation

In response to a TRACE OFF command, the ISFTRACE file has been closed.

## User response

None.

---

### TRACE DCB OPENED

## Explanation

In response to a TRACE ON command, the ISFTRACE file has been opened.

## User response

None.

---

### TRACE NOT AVAILABLE

## Explanation

SDSF is operating in split-screen mode, and the trace facility is not available in the session in which the message was issued. The trace facility is available in the other session.

## User response

To use the trace facility, swap sessions.

---

### TRACE OFF - ABEND *abend-* *code*

## Explanation

An I/O error has caused SDSF to turn tracing off. A system abend with an abend code of *abend-code* has occurred but has been handled by SDSF.

## User response

To continue tracing, allocate a new trace data set. For more information on the abend, see the appropriate system codes manual.

---

### TRACE OFF - PERM I/O ERR

## Explanation

An I/O error has caused SDSF to turn tracing off.

## User response

To continue tracing, allocate a new trace data set.

---

### TRACING IS ON|OFF

## Explanation

In response to a TRACE command, the status of tracing is shown to be on or off.

**User response**

None.

---

**TYPE A  
COLUMN NAME**

**Explanation**

You left a field requiring a column name blank.

**User response**

Type a valid column name in the field.

---

**TYPE A  
NUMBER IN  
THIS FIELD**

**Explanation**

You typed data that was not numeric in a numeric field, or there are blanks in the numeric field. The cursor is positioned on the field in error.

**User response**

Enter numeric data in the field.

---

**TYPE A OR D  
FOR SORT  
ORDER**

**Explanation**

You typed something other than an A, D, or a blank on the Sort pop-up. The valid values are A (for ascending) or D (for descending). If the character is blank, the order is ascending.

**User response**

Type an A or D or blank out the character.

---

**TYPE LINES OR  
TIMES AND  
DATES**

**Explanation**

You pressed Enter on a Print pop-up but didn't specify either lines or times and dates to print.

**User response**

Type values for either lines or times and dates.

---

**ULOG CLOSED**

**Explanation**

A ULOG CLOSE command was issued and the user log has been successfully closed. All message responses have been deleted from the user log and the extended console has been deactivated.

**User response**

None.

---

**UNABLE TO  
FIND  
ORIGINAL**

**Explanation**

The user attempted an action on a foreign, independent enclave, but the corresponding original enclave could not be found. The original enclave may have terminated before the action was attempted.

**User response**

None.

---

**UNABLE TO  
FIND OWNER**

**Explanation**

The user attempted an action on a dependent enclave, but the owning address space could not be found. The owning address space may have ended before the action was attempted, or may be running on a system that does not support the Enclave Reset function.

**User response**

None.

---

**UNABLE TO  
MAP**

**Explanation**

A user has attempted to map a block of memory that is not contiguous. Possible reasons for this error are that the entire block was not available or that the storage key changed at some point between the start and end of the memory. The formatting of the map is terminated.

**User response**

Validate that the entire block is available in contiguous memory and that the storage key is consistent throughout.

---

**UNBALANCED  
PARENTHESIS****Explanation**

In attempting to overwrite a field, the user has omitted a required parenthesis.

**User response**

Enter the required parenthesis.

---

**UNBALANCED  
QUOTES****Explanation**

An ending quotation mark is either missing or you have an extra quote at the end.

**User response**

Correct the quote marks or enter a new string.

---

**UPDATE  
LENGTH TOO  
LONG****Explanation**

The update interval entered with the & command is longer than three digits.

**User response**

Retry the & command with an interval of 999 or less.

---

**UPDATE NOT  
AUTHORIZED****Explanation**

You have attempted to issue the & command to enter automatic update mode, but are not authorized to do so.

**User response**

Delete the & command.

If you have been denied authorization in error, see [“User authorization” on page 461](#) for more information.

---

**UPDATE TIME  
TOO SMALL****Explanation**

The user has issued the & command to enter automatic update mode, but the update interval specified was less than the installation-defined minimum.

**User response**

Retry the & command with a larger interval.

---

**USE EQ,NE  
WITH  
PATTERNS****Explanation**

You specified an operator with less than or greater than and the value contained pattern matching.

**User response**

Change the operator to EQ or NE, or remove the pattern matching.

---

**USE EQ OR NE  
WHEN THE  
FILTER VALUE  
INCLUDES  
PATTERN  
MATCHING****Explanation**

You specified an operator with less than or greater than and the value contained pattern matching.

**User response**

Change the operator to EQ or NE, or remove the pattern matching.

---

**VALUE NOT  
AUTHORIZED****Explanation**

The value that was specified in an overwriteable field was rejected by SAF security. The value is ignored.

**User response**

None required. You can overwrite the field with a different value. If the value should be allowed, contact your security administrator.

---

**VALUE TOO  
LONG**

### Explanation

An attempt was made to add a value that was selected from a list to existing text. The resulting combination was too long for the field. As a result, the existing text was not changed.

### User response

None required. You might change or delete the existing text and then try selecting a value from the list again.

---

#### VIIF ERROR

**RC=return-code**

### Explanation

An unexpected error occurred during invocation of the ISPF/PDF View service. The message contains the decimal return code from ISPF/PDF. SDSF ends the View request.

### User response

See *z/OS ISPF Messages and Codes* for a description of the error codes for ISPF/PDF.

---

#### \*\*\*\* VOLUME

**NOT MOUNTED**

### Explanation

This message accompanies message ALLOC ERROR *return-code error-code information-code* or OBTAIN ERROR *return-code* and explains why allocation of the print file failed.

### User response

Ensure that the PRINT ODSN command is issued using a valid existing data set.

---

#### WIDTH

**CANNOT**

**EXCEED**

*maximum*

### Explanation

The column width specified with the Arrange function is longer than the maximum allowed, which is *maximum*.

### User response

Change the width to a number that is valid.

---

#### WIDTH

**CHANGE NOT**

**ALLOWED**

### Explanation

An **ARRANGE** command was used to change the width of a special column. The column width for a special column such as **.END** cannot be changed.

### User response

Do not use the **ARRANGE** command to change column width of a special column.

---

#### number WORD

**'string'**

### Explanation

In response to a FIND ALL command, *number* occurrences of a character string have been found. If SDSF finds more than 999,999 occurrences, *number* is 999999+. The cursor is positioned on the character string.

### User response

None.

---

#### WORD INVALID

### Explanation

The WORD parameter was used with the FIND command on a panel other than the logs or ODS panels.

### User response

None.

---

## Messages with HSF message numbers

This section describes messages issued with HSF message numbers.

A letter following the message number indicates the severity of the message:

- I**  
Information.
- W**  
Warning.
- E**  
Error.

---

**HSF0001I      Server initializing**

**Explanation**

The SDSFAUX server is initializing. This message is issued when the SDSFAUX server starts the SDSFAUX address space.

The SDSFAUX address space provides data collection services used by various SDSF commands and displays.

**User response**

No response is required.

---

**HSF0002I      Server initialization complete.**

**Explanation**

SDSFAUX server initialization is complete. This message indicates that the SDSFAUX server has finished initializing and is ready to accept requests from SDSF users.

The SDSFAUX address space provides data collection services used by various SDSF commands and displays.

**User response**

No response is required.

---

**HSF0003E      Connect failed. RC=return-code  
RSN=reason**

**Explanation**

The connection request to the SDSFAUX server has failed for the indicated return and reason codes.

The SDSFAUX services are unavailable to the caller.

**User response**

Verify that the SDSFAUX server is active and that the caller has the required security access.

---

**HSF0004E      Cross-system resource group  
version mismatch with member**

**Explanation**

The SDSFAUX server has detected an unsupported version of SDSF on the specified member and has stopped its XCF data collection agent.

SDSFAUX cannot share XCF resources with an unsupported release of SDSF.

**User response**

Update to a supported release of SDSF on the member listed.

---

**HSF0005E      SDSFAUX server is already active  
on this system.**

**Explanation**

An attempt has been made to start the SDSFAUX server, which was already active on the system.

The SDSFAUX server attempting to start will stop.

There must only be one SDSFAUX server active at any one time.

**User response**

Before you restart the SDSFAUX or SDSF server, stop the current instance and ensure SDSFAUX is inactive.

---

**HSF0006E      Operating system level not  
supported.**

**Explanation**

An attempt has been made to start the SDSFAUX server on a system that is running an unsupported version of the operating system.

The SDSFAUX server will stop.

**User response**

Upgrade to a supported release of the operating system.

---

**HSF0007I      Joined data-sharing group name  
as member.**

## Explanation

The SDSFAUX server has successfully joined the indicated XCF group. The server will use this XCF group to perform cross-system data gathering requests.

## User response

No response is required.

---

**HSF0009E**      **Incorrect execution key.**

## Explanation

The SDSFAUX server cannot start because the execution key of the HSFSRV00 program did not match the IBM value of 4.

The SDSFAUX server will not start.

## User response

Verify that all required maintenance has been applied for SDSF and confirm that there are no modifications to the SCHEDxx PARMLIB members that override the IBM PPT entry for HSFSRV00.

---

**HSF0010I**      **Module *name* loaded successfully at address *hex*.**

## Explanation

The SDSFAUX server successfully loaded the indicated module at the specified address.

This message appears only in the HSFLOG output.

## User response

No response is required.

---

**HSF0011I**      **Queue recovery for *jobname*  
ASCB( *ascb* ) TCB( *tcb* ) RB( *rb* )**

## Explanation

The SDSFAUX server has attempted to recover a pending request for the indicated unit of work. The requestor's ASCB, TCB and RB addresses are listed.

This message is issued when there are problems with the task that owns the request queue in the SDSFAUX server. Typically there was an abend or server error when there were active requests.

This message appears only in the HSFLOG output.

## User response

The requesting unit of work will be resumed with an appropriate return and reason code.

---

**HSF0020I**      **Command entered: *command***

## Explanation

The SDSFAUX server has received the specified operator command.

## User response

No response is required.

---

**HSF0025E**      **Unknown operation**

## Explanation

The SDSFAUX server has received an unknown operator command. Only DISPLAY and MODIFY operations are supported.

## User response

Issue a supported operator command.

---

**HSF0026I**      **Command accepted: *text***

## Explanation

The SDSFAUX server has accepted the specified operator command.

## User response

No response is required.

---

**HSF0027E**      **Invalid command : *text***

## Explanation

The SDSFAUX server has rejected the specified operator command because it is unrecognized or contains invalid syntax.

## User response

Examine related messages and correct the operator command.

---

**HSF0028W**      **RMF data collection failed  
ERBSMFI RC=*rc* RSN=*rsn***

## Explanation

The SDSF data collection task received a non-zero return code and reason code from the RMF interface program ERBSMFI. Any SDSF commands that depend

on the data collected by this RMF interface program will not be able to show any results.

**User response**

Ensure that RMF Monitor I has been started and that the ERBSMFI program is available to SDSFAUX.

---

**HSF0030W      Critical error in data collection for name**

**Explanation**

The named task has encountered a non-recoverable error during data collection. Any SDSF commands that depend on the data collected by this task will not be able to show any results.

**User response**

Look for any other earlier error messages issued by this task to determine the root cause of the problem.

---

**HSF0031I      Keyword keyword updated with new value value**

**Explanation**

The SDSFAUX server has refreshed the specified keyword with the new value.

**User response**

No response is required.

---

**HSF0032W      Internal resource shortage type : percent**

**Explanation**

The SDSFAUX server has detected an internal resource shortage of the specified type. The percentage of the maximum limit for the resource type is listed.

Known types:

- PRV-STOR : Private storage below 16Mb
- EPRV-STOR : Private storage above 16Mb

**User response**

Examine the resource type to see if there is an underlying issue that is causing the shortage.

---

**HSF0033I      Internal resource shortage relieved for type**

**Explanation**

The SDSFAUX server internal resource shortage of the indicated type has been relieved.

Known types:

- PRV-STOR : Private storage below 16Mb
- EPRV-STOR : Private storage above 16Mb

**User response**

No response is required.

---

**HSF0034I      Task name terminated RC= rc**

**Explanation**

The SDSFAUX server task has terminated with the specified return code.

This message is written to the HSFLOG output.

**User response**

No response is required.

---

**HSF0035W      SAF Class SDSF not active RC= rc RSN= rsn**

**Explanation**

The SDSF SAF class is required for the SDSFAUX server to protect its services. A RACROUTE REQUEST=STAT service for the class has responded with the specified return and reason code.

All protected services will return a SAF "No Decision" return code.

**User response**

Activate the SDSF SAF class and define the required profiles to protect the SDSFAUX services.

For more information see [Chapter 5, "Using SAF for security,"](#) on page 253.

---

**HSF0036I      Task name initialization complete**

**Explanation**

The SDSFAUX server task successfully initialized.

This message is written to the HSFLOG output.

**User response**

No response is required.

---

**HSF0037W      SAF Class SDSF not RACLISed**



## Explanation

The SDSF SAF class is not RACLISTed. The SDSFAUX server uses RACROUTE REQUEST=FASTAUTH to verify access to its services, and therefore, must have the SDSF class RACLISTed.

All protected services will return a SAF "No Decision" return code.

## User response

RACLIST the SDSF class so that the SDSFAUX server can use the RACROUTE REQUEST=FASTAUTH service.

For more information see [Chapter 6, "SDSF and RACF,"](#) on page 257.

---

**HSF0038W**      **SAF Class *class* not enabled for  
GENERIC profiles**

## Explanation

The SDSF SAF class is not enable for generic profiles.

## User response

If applicable for your security product, enable the GENERIC attribute for the SDSF SAF class so that profiles with generic masking characters can be defined.

---

**HSF0040I**      **ENF listener *name* installed for  
event code**

## Explanation

The SDSFAUX server has successfully installed the specified module as an ENF listener for the event code.

This message appears only in the HSFLOG output.

## User response

No response is required.

---

**HSF0041I**      **ENF listener *name* delete for event  
code RC= *rc***

## Explanation

The SDSFAUX server has attempted to delete the specified module from the ENF listeners for the event code.

This message appears only in the HSFLOG output.

## User response

If the return code is non-zero, contact IBM Software Support.

---

**HSF0042E**      **ENF listener install for *name* event  
code *num* failed RC= *rc***

## Explanation

The SDSFAUX server has attempted to install the specified module as an ENF listener for the event code, and the operation has failed with the indicated return code.

## User response

Contact IBM Software Support.

---

**HSF0044E**      **Command *name* install failed RC=  
RC RSN= *rsn***

## Explanation

The SDSFAUX server has attempted to install the specified command and the operation has failed with the indicated return and reason code.

The command and its associated data gathering service will be unavailable.

## User response

Contact IBM Software Support.

---

**HSF0045I**      **Command *name* installed  
successfully**

## Explanation

The SDSFAUX server has successfully installed the specified command.

This command and its associated data gathering service will be available.

This message appears only in the HSFLOG output.

## User response

No response is required.

---

**HSF0047I**      **Left data-sharing group *name***

## Explanation

The SDSFAUX server has left its data-sharing group.

All cross-system services for this SDSFAUX server are now marked unavailable.

This message appears only in the HSFLOG output.

## User response

No response is required.

---

**HSF0048I**      **No active users**

### Explanation

During shutdown, the SDSFAUX server determined that there are no connected users. Shutdown will proceed without delay.

### User response

No response is required.

---

**HSF0049E**      **Required SDSF server not active**

### Explanation

During startup the SDSFAUX server has determined that the SDSF server is not active.

The SDSFAUX server will stop.

### User response

The SDSFAUX server is typically started automatically by the SDSF server. Restart the SDSF server.

---

**HSF0050I**      **Sectoken \userid lvl access to  
name class profile res**

### Explanation

This message appears in the HSFTRACE output when the SDSFAUX security trace is active.

The userid has requested the indicated level of access to the SAF class profile.

The result of this access request will be described by a subsequent HSF0061I message that uses the same sectoken value.

### User response

No response is required.

---

**HSF0051I**      **SDSFAUX RESPONSE IN  
PROGRESS / RESPONSE  
COMPLETE Sysname JES Version  
Status**

### Explanation

This message is produced in response to the SDSFAUX DISPLAY JES operator command.

The "RESPONSE IN PROGRESS" message will be followed by a list of the systems, JES subsystems and versions that are known by the SDSFAUX server.

After all responses are sent, the "RESPONSE COMPLETE" message is issued.

### User response

No response is required.

---

**HSF0052I**      **SDSFAUX RESPONSE IN  
PROGRESS / RESPONSE  
COMPLETE Jobname ASID TCB  
Connect UCON**

### Explanation

This message is produced in response to the SDSFAUX DISPLAY USER operator command.

A "RESPONSE IN PROGRESS" message will be followed by a list of the active SDSFAUX users and their connect date stamps.

After all responses are sent, the "RESPONSE COMPLETE" message is issued.

### User response

No response is required.

---

**HSF0053I**      **SDSFAUX RESPONSE IN  
PROGRESS / RESPONSE  
COMPLETE TaskTCB RXTA Flag  
Samples CPU**

### Explanation

This message is produced in response to the SDSFAUX DISPLAY TASK operator command.

A "RESPONSE IN PROGRESS" message will be followed by a list of the active SDSFAUX tasks and their resource consumption.

After all responses are sent, the "RESPONSE COMPLETE" message is issued..

### User response

No response is required.

---

**HSF0054I**      **SDSFAUX RESPONSE IN  
PROGRESS / RESPONSE  
COMPLETE Name Active Get Free  
Lost RXBP**

### Explanation

This message is produced in response to the SDSFAUX DISPLAY BPOOL operator command.

A "RESPONSE IN PROGRESS" message will be followed by a list of the SDSFAUX buffer pools.

After all responses are sent, the "RESPONSE COMPLETE" message is issued.

## User response

No response is required.

---

|                 |  |
|-----------------|--|
| <b>HSF0056I</b> | <b>SDSFAUX RESPONSE IN<br/>PROGRESS / RESPONSE<br/>COMPLETE</b> <i>Name EPA Invoke<br/>Normal Return Abend</i> |
|-----------------|--|

---

## Explanation

This message is produced in response to the SDSFAUX DISPLAY EXIT operator command.

A "RESPONSE IN PROGRESS" message will be followed by a list of the system exits installed by SDSFAUX.

After all responses are sent, the "RESPONSE COMPLETE" message is issued.

## User response

No response is required.

---

|                 |   |
|-----------------|---|
| <b>HSF0057I</b> | <b>SDSFAUX RESPONSE IN<br/>PROGRESS / RESPONSE<br/>COMPLETE</b> <i>Name Jobname TCB<br/>CPU-SRB CPU-TCB</i> |
|-----------------|---|

---

## Explanation

This message is produced in response to the SDSFAUX DISPLAY ZIIP operator command.

A "RESPONSE IN PROGRESS" message will be followed by a list of the zIIP offload environments managed by SDSFAUX.

After all responses are sent, the "RESPONSE COMPLETE" message is issued.

## User response

No response is required.

---

|                 |  |
|-----------------|--|
| <b>HSF0060E</b> | <b>SDSFAUX must be started under<br/>SDSF server control</b> |
|-----------------|--|

---

## Explanation

The SDSFAUX server address space has been started with a native z/OS **START** operator command (for example, **S SDSFAUX**). The SDSFAUX server address space must be started under the control of the main SDSF server address space using the **F SDSF,S AUX** operator command.

## User response

Use the **F SDSF,S AUX** operator command to start the SDSFAUX server address space.

---

|                 |   |
|-----------------|---|
| <b>HSF0061I</b> | <b>Sectoken</b> <i>token</i> <b>SAF RC=</b> <i>safrc</i><br><b>RACF RC=</b> <i>rc</i> <b>RACF RSN=</b> <i>rsn</i> |
|-----------------|---|

---

## Explanation

This message appears in the HSFTRACE output when the SDSFAUX security trace is active.

This trace message qualifies an earlier HSF0050I message with the same internal sectoken value. The HSF0050I message will describe the access request details.

The message specifies the SAF return code and the RACF return and reason codes from the RACROUTE REQUEST=FASTAUTH service.

## User response

No response is required.

---

|                 |  |
|-----------------|--|
| <b>HSF0062I</b> | <b>Server shutdown waiting for users<br/>to disconnect</b> |
|-----------------|--|

---

## Explanation

During shutdown, the SDSFAUX server will wait for connected users to gracefully disconnect before shutdown proceeds.

The SDSFAUX server lists any connected users in a ISF352I message.

The SDSFAUX waits for a short period of time for users to disconnect and then shuts down.

## User response

No response is required.

**Descriptor code:**  
7,11

---

|                 |   |
|-----------------|---|
| <b>HSF0063E</b> | <b>level access to name class profile<br/>resource failed</b> |
|-----------------|---|

---

## Explanation

The SDSF server does not have sufficient access to the specified resource in the named class and cannot gather the associated data. This error can cause data to be missing from SDSF command displays that reply on the SDSF server successfully extracting data protected by the indicated security resource.

### User response

Permit the user ID associated with the SDSF server to access the indicated resource.

---

**HSF0064E**      **Service name failed RC= rc RSN= rsn**

### Explanation

The named service failed with the specified return and reason code.

This is a generic message that is used to present non-zero return codes from both internal SDSF services and other external programs and interfaces.

### User response

When the service name is clear, refer to the return and reason codes in the appropriate manual for the owning software product.

If the cause is unclear, contact IBM Software Support.

---

**HSF0065E**      **Data not available for name task**

### Explanation

The SDSF server task cannot gather some or all of the expected data. Missing data in the SDSF server can cause SDSF command displays to have empty values in certain columns.

### User response

Examine previous error messages to discover the cause of the failure to collect the data. If the cause is unclear, contact IBM support.

---

**HSF0066W**      **Required exit *exitname* for SMF subsystem *sms-subsystem* not enabled.**

### Explanation

Data might be missing in the SDSF event log. The SDSF event log requires the indicated SMF exit to be enabled for the specified subsystem. When the ELOG feature started, the indicated exit was not enabled. This might cause some event data to not be recognized by SDSF and the data will be missing from the event log.

### User response

Ensure that the named exit is enabled in the SMF subsystem definition in the SMFPRMxx member of PARMLIB.

---

**HSF0067E**      **CSVDYLPA add for module *name* failed RC= rc RSN= rsn DIAG= code**

### Explanation

The SDSFAUX server failed to dynamically add the specified module into LPA.

After this error, the SDSFAUX server issues a user abend and stops.

### User response

Refer to the return and reason codes for the CSVDYLPA service in [z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU](#).

If the cause is unclear, contact IBM Software Support.

---

**HSF0068W**      **z/OS UNIX services unavailable, possibly due to OMVS segment not defined.**

### Explanation

SDSF determined that the server main task cannot be dubbed in preparation for using z/OS UNIX services.

### User response

Ensure that the userid associated with the server address space has a valid OMVS segment defined and restart SDSF.

---

**HSF0072I**      **Server shutdown proceeding**

### Explanation

During shutdown processing, SDSF has determined that no users are connected or that the time allowed for users to disconnect has been exceeded.

Shutdown processing continues and any user who is still connected will receive an error response when they resume processing.

### User response

No response is required.

---

**HSF0074I**      **CSVDYLPA delete for type module *name* RC= rc RSN= rsn**

### Explanation

The SDSFAUX server attempted to delete the specified module from LPA and it completed with the indicated return and reason code.

### User response

If the return code is non-zero, refer to the return and reason code descriptions for the CSVDYLPA service in

If the cause is unclear, contact IBM Software Support.

**HSF0078I RMF Monitor I not active - some data may not be available**

### Explanation

The SDSF server has detected that RMF Monitor I is not active. Any SDSF commands that depend on the data collected by RMF will not be able to show any results.

### User response

Ensure that RMF Monitor I has been started and that the ERBSMFI program is available to SDSFAUX.

**HSF0079I RMF Monitor I data now available**

### Explanation

After previously being unavailable, RMF Monitor I data that is required for various SDSF displays is now available.

### User response

None.

**HSF0080I Event : text**

### Explanation

The SDSFAUX server is logging the occurrence of a specific event in the HSFLOG output for diagnostic purposes.

### User response

No response is required.

**HSF0102E Unable to operation ddname due to I/O error.**

### Explanation

SDSF was unable to read from or write to the *ddname* that is listed in the message text.

### User response

Ensure that the *ddname* is present in the JCL.

**HSF0103I Line: line-number : text**

### Explanation

This message displays input that shows the *line-number* and the *text*.

### User response

No action is required.

**HSF0104W "parameter" was seen in statement line-number where one of the following was expected: expected-parameter. Statement ignored.**

### Explanation

Parameter MAPINCL was expected as the first parameter, but could not be found. The statement is ignored. Processing continues.

### User response

For valid syntax, see ["Using the MAPGEN utility" on page 50.](#)

**HSF0105W parameter value is missing or too long, maximum length allowed is max-allowed. Statement ignored.**

### Explanation

Either the parameter displayed in the message text was expected in the input but is missing, or the parameter is longer than the allowed value. The statement is ignored. Processing continues.

### User response

Correct the MAPINCL statement parameter and try again. For valid syntax, see ["Using the MAPGEN utility" on page 50.](#)

**HSF0106W parameter value "parameter-value" is not numeric. Statement ignored.**

### Explanation

The parameter value that is listed in the message text must be numeric. The statement is ignored. Processing continues.

### User response

Correct the MAPINCL statement parameter and try again. For valid syntax, see ["Using the MAPGEN utility" on page 50.](#)

**HSF0107W**      **Statement *line-number* ignored  
due to syntax error.**

### Explanation

The statement that is referenced in the message text contains a syntax error. The statement is ignored.

### User response

Correct the MAPINCL statement parameter and try again. For valid syntax, see [“Using the MAPGEN utility” on page 50.](#)

## Messages with ISF message numbers

This section describes messages issued by SDSF with message numbers.

A letter following the message number indicates the severity of the message:

#### I

Information.

#### W

Warning. The command will be processed, or the ISFPARMS will be activated. For ISFPARMS, SDSF has found an inconsistency and may have changed a value for a parameter.

#### E

Error. A command will not be processed, or the ISFPARMS will not be activated.

**ISF005I**      **INVALID IDEST FOR *userid* entry  
reason**

### Explanation

During initialization for *userid*, SDSF found an error processing *entry* in the ISFNTBL macro named in the IDEST parameter of the ISFGRP macro. The ISFGRP macro is in the ISFPARMS module.

The values for *reason* are:

#### INVALID CALL

means that a logic error exists in SDSF. Follow your local procedure for calling IBM. Have the following documentation of the problem ready:

- A description of the panel being used and the operation being performed when the message was received
- A record of the message
- The name of the module that issues the message

#### INVALID DEST

means that the destination name is invalid for this system. If the name is an installation-defined name, the error could be caused by the JES system not being active during the installation of SDSF.

#### NAME NOT AUTH

At SDSF initialization, SDSF found the user was not authorized to access one or more destination names specified in the ISFNTBL macro for the IDEST parameter in the user's ISFGRP macro. If both the IDEST and DEST parameters are coded, the destination names in the IDEST ISFNTBL macro must also be in the DEST ISFNTBL macro in order for the user to be authorized.

If this is not the problem, a logic error might exist in SDSF. Follow your local procedure for calling IBM and have the following documentation of the problem ready:

- A description of the panel being used and the operation being performed when the message was received
- A record of the message
- The name of the module that issues the message

#### nnnn NOT SPECIFIED

During SDSF initialization or DEST command processing, SDSF did not find any authorized destination names. The user is not authorized to access all destinations, therefore, a valid authorized destination list is required. *nnnn* is the number of destinations.

This message also appears in response to a destination query command (DEST ?) if no destination names are authorized.

The system programmer or security administrator should either add an IDEST parameter to the user's ISFGRP macro, or authorize the user to access the ISFOPER.ANYDEST.jesx resource. If these conditions are not met, the user's destination filter is set to blanks or the character string QQQQ, and no jobs appear on the panels.

#### OFFSET NOT ZERO

means that the number specified after the destination name in the ISFNTBL macro is not 1. This number must be 1 in ISFNTBL macros that are named in the IDEST parameter.

## TOO MANY DESTS

means that more than four destination names were specified. No more than four destination names can be specified in ISFNTBL macros that are named in the IDEST parameter.

## User response

The system programmer should check the ISFNTBL macros named in the IDEST parameter of the user's ISFGRP macro. The ISFGRP macro is described in [“Group authorization parameters \(GROUP\)”](#) on page 13.

The system programmer might also want to put the installation-defined names last in the ISFNTBL macros, as the installation-defined names can be the most likely to cause an error. When SDSF encounters an error in the destination names during initialization, it continues initialization with the destination names that were successfully processed before the error.

---

|                |  |
|----------------|--|
| <b>ISF006I</b> | <b>ERROR PROCESSING INITIAL<br/>CHECKPOINT REQUEST<br/>FOR SUBSYSTEM <i>subsystem-<br/>name</i>, CODE=<i>error-code</i>,<br/>REASON=<i>reason-code</i></b> |
|----------------|--|

---

## Explanation

An error occurred during SDSF initialization attempting to obtain checkpoint data from *subsystem-name*. The *error-code* contains the reason for the failure and is listed below. If the error occurred processing a checkpoint version, *reason-code* indicates the return code (SSJIRETN) from the checkpoint version obtain request.

## User response

Use the return and reason codes to diagnose the error.

- |           |   |
|-----------|---|
| <b>4</b>  | Bad option passed                                 |
| <b>8</b>  | Not in an authorized state                        |
| <b>12</b> | Different JES system                              |
| <b>16</b> | Requested address space identifier not valid      |
| <b>20</b> | Requested address space identifier not a TSO user |
| <b>24</b> | JES not active                                    |
| <b>28</b> | Bad job key                                       |

- |            |   |
|------------|---|
| <b>32</b>  | SRB abend                                 |
| <b>36</b>  | Parameter invalid                         |
| <b>40</b>  | User swapped out                          |
| <b>48</b>  | Abend processing parameter                |
| <b>52</b>  | Bad data set key                          |
| <b>56</b>  | Bad member-track-track-record (MTTR)      |
| <b>60</b>  | Buffer full                               |
| <b>64</b>  | GETMAIN failed                            |
| <b>68</b>  | User canceled                             |
| <b>72</b>  | Attention key pressed                     |
| <b>76</b>  | Cross-memory not active                   |
| <b>80</b>  | Bad application copy error                |
| <b>84</b>  | Application copy level error              |
| <b>88</b>  | Application copy update error             |
| <b>92</b>  | Application copy no longer available      |
| <b>96</b>  | ECSA application copy no longer available |
| <b>100</b> | Invalid spool data set name call          |
| <b>104</b> | Buffer size invalid                       |
| <b>108</b> | Dynamic printer definition overflow       |
| <b>112</b> | JQE no longer valid                       |
| <b>116</b> | SJB/SDB invalid.                          |
| <b>120</b> | Checkpoint version error                  |
| <b>124</b> | Subsystem not defined                     |

---

|                |   |
|----------------|---|
| <b>ISF008I</b> | <b>DYNAMIC ALLOCATION ERROR</b>                     |
|                | <b>RC=<i>return-code</i> EC=<i>error-code</i></b>   |
|                | <b>IC=<i>information-code</i> DDN=<i>ddname</i></b> |

---

**VOL=volume-serial DSN=data-set-name \*\*\*\*\***

### Explanation

An error has occurred during the dynamic allocation of a data set.

### User response

For information on dynamic allocation return, error, and information codes, see the appropriate manual concerning system macros and facilities, or job management.

---

**ISF009I SDSF TRACE I/O ERROR**

---

### Explanation

An error occurred while writing a record to the trace output data set. Trace is no longer available for this SDSF session.

### User response

Allocate a new trace output data set.

---

**ISF011I OPEN ERROR *ddname***

---

### Explanation

An error occurred trying to open the indicated *ddname*, which is SDSFMENU, the SDSF help panel data set.

### User response

Verify the *ddname* is allocated to the proper data set.

---

**ISF012I SDSF ABEND USER|SYSTEM  
*abend-code* AT *address* IN  
MODULE *module-name* OFFSET  
*offset***

---

### Explanation

SDSF has abended with the user or system abend code *abend-code*. User abend codes are in decimal; system abend codes are in hexadecimal.

If the abend address is not in module *module-name*, UNKNOWN is displayed for *address*.

### User response

The system programmer should see [“SDSF user abend codes” on page 593](#) for information on the user abend codes, or the appropriate system codes manual for information on the system abend codes.

---

**ISF013I Rx-Ry *rega\_rega regb\_regb*  
*regc\_regc regd\_regd***

---

### Explanation

The registers listed here are displayed in conjunction with ISF012I. Rx-Ry indicates the range of registers and *rega\_rega regb\_regb regc\_regc regd\_regd* is the contents of those registers.

### User response

None.

---

**ISF014I TEA=*tea* BEA=*bea* IN MODULE  
*module-name* OFFSET *offset***

---

### Explanation

This message is displayed in conjunction with ISF012I. TEA is the translation exception address and BEA is the breaking event address. If they cannot be displayed, the message shows N/A.

### User response

None.

---

**ISF015I SDSF COMMAND ATTEMPTED|  
EXECUTED *command* *userid* *logon-*  
*proc* *terminal-name***

---

### Explanation

For COMMAND EXECUTED, a user issued an MVS or JES system command. For COMMAND ATTEMPTED, a user attempted to issue an MVS or JES system command that the user is not authorized to issue. *command* is the first 42 characters of the command text. If the text exceeds 42 characters, the text ends with a plus sign (+).

### User response

For COMMAND ATTEMPTED, the operator should take whatever action is appropriate according to the installation's procedures.

**Note:** If the command attempted or executed is the REPLY command, the command field of this message contains "REPLY *nn* TEXT of REPLY IS SUPPRESSED". The text of the REPLY command is suppressed to prevent confidential data from being logged.

---

**ISF016I SDSF RETINFO  
CSECT=*csect-name* PTF=*service-*  
*level* COMPID=*component-id*  
ID=*identifier* OFFSET=*offset***

---



**PROC=procedure-name**  
**TITLE=procedure-title**  
**RC=return-code RSN=reason-code**  
**SERVNAME=service-name**  
**SERVTYPE=service-type**  
**SERVRC=service-rc**  
**SERVRSN=service-rsn**  
**D1=diagword1 D2=diagword2**  
**D3=diagword3 D4=diagword4**  
**DC1=diagchar1 DC2=diagchar2**

## Explanation

SDSF has detected an unusual condition and will attempt to recover. This message provides diagnostic information related to the condition.

In the message text:

- *csect-name* names the CSECT that detected the condition.
- *service-level* is the PTF level of the CSECT.
- *component-id* is the SDSF internal component identifier.
- *identifier* is an SDSF internal value used to identify the event.
- *offset* is the offset within the module where the event was detected.
- *procedure-name* is the name of the procedure that detected the condition.
- *procedure-title* is the title of the procedure that detected the condition.
- *return-code* is a return code associated with the event.
- *reason-code* is a reason code associated with the event.
- *service-name* is the service being invoked.
- *service-type* is the type of the service being invoked.
- *service-rc* is the return code from the service.
- *service-rsn* is the reason code from the service.
- *diagword1* through *diagword4* are additional diagnostic words.
- *diagchar1* through *diagchar2* are additional diagnostic fields.

Based on the condition being processed, not all field values may be shown.

## User response

No response is required. However, if the problem raising the condition reoccurs, the information contained in this message can be used in diagnosing the event by IBM Software Support.

**ISF019I**

**OUTPUT REQUEUE|RELEASE|**  
**PURGE ATTEMPTED|SUCCESSFUL**  
**JOBNAME=jobname JOBID=jobid**  
**CLASS=class DEST=dest userid**  
**logon-proc terminal-name**

## Explanation

A user *userid* running with logon procedure *logon-proc* on terminal *terminal-name* has requested that the indicated job (*jobname* and *jobid*) be requeued to the class *class* and destination *dest*, or released to the output queue to the class *class* and destination *dest*, or purged. If the message indicates the requeue was attempted rather than successful, the user was not authorized to make the request.

## User response

None.

**Routing code:**

9

**Descriptor code:**

7

**ISF020E**

**SDSF LEVEL ERROR FOR MODULE**  
**module, SDSF ASSEMBLED FOR**  
**module\_level BUT name IS AT**  
**name\_level**

## Explanation

SDSF has determined that the assembly level *module\_level* of the indicated module *module* does not match the named execution level *name-level*. SDSF initialization continues and the message is written to ULOG.

## User response

The system programmer should verify that SDSF has been installed correctly and that the current runtime data sets are not from other releases of SDSF or local copies of SDSF members from other releases.

**Routing code:**

11

**Descriptor code:**

7

**ISF023I**

**I/O ERROR text**

## Explanation

An I/O error occurred while SDSF was creating the temporary file used as input for the GDDM view utility. In the message, *text* describes the type of error.

All records up to the record causing the error are passed to the view utility. Other records are ignored. Because only partial data is passed to the view utility, formatting errors can occur.

## User response

Ensure that the data set being viewed contains the correct data streams for the view utility.

---

**ISF024I**      **USER *user-id* NOT AUTHORIZED TO SDSF, reason**

---

## Explanation

An unauthorized user, *user-id*, has attempted to use SDSF.

## User response

Contact the system programmer or the Help Desk to find out if the user should be authorized to use SDSF.

A user is not authorized to use SDSF for one of these reasons:

- **COMMAND OPTION ERROR.** A failure occurred in parsing the parameters passed to SDSF. Initialization failed. If this problem persists, contact IBM support.
- **CONNECT FAILED.** SDSF was unable to connect to the SDSF server, possibly because the task is already connected. Additional messages may have been issued by the server.
- **CONNECT NOT AUTHORIZED.** SDSF was unable to connect to the server because the user is not authorized. Additional messages may have been issued by the server.
- **DENIED BY EXIT.** An initialization exit routine has denied authority.
- **INVALID BCP LEVEL.** SDSF was invoked under an unsupported level of the BCP. Initialization failed. Be sure the appropriate level of SDSF is being used with the level of operating system that you are running.
- **NO GROUP ASSIGNMENT.** The user does not fall into any group of users defined by ISFPARMS. For more information, see [“Group authorization parameters \(GROUP\)” on page 13](#).
- **PRODUCT NOT ENABLED.** SDSF has attempted to register its invocation on a z/OS system, and the registration has failed. If SDSF should be enabled for execution, check the IFAPRDxx member of your parmlib concatenation for an entry for SDSF.
- **REXX INIT FAILED.** Initialization of the REXX environment failed.
- **SERVER NOT AVAILABLE.** The SDSF server is required for ISFPARMS but is not active. The

server is required for ISFPARMS when the user is not authorized to revert to an ISFPARMS defined with assembler macros. For more information, see [Chapter 3, “Using the SDSF server,” on page 73](#).

- **STORAGE NOT AVAIL.** The amount of storage available was insufficient to complete the request.
- **UNEXPECTED INIT FAIL.** SDSF has encountered an unrecoverable error during execution. Follow your local procedure for reporting a problem to IBM.
- **NOPARM DENIED.** The SDSF server is running in NOPARM mode, but the user does not have access to the SERVER.NOPARM resource in the SDSF class. The SDSF server runs in NOPARM mode when either the initial ISFPRMxx encounters a syntax error or the server is started in NOPARM mode. When the server is in NOPARM mode, the user must be authorized to the SERVER.NOPARM resource in the SDSF class. Either grant the user access to the resource or correct the syntax error in ISFPRMxx.

---

**ISF025E**      **SDSF TERMINATING DUE TO ISFPARMS VERIFICATION FAILURE, REASON=reason-code**

---

## Explanation

SDSF failed to initialize because SDSF detected that ISFPARMS is invalid. The reason code describes the verification failure, as follows:

| Reason code (hexadecimal) | Description                             |
|---------------------------|---|
| 00000004                  | ISFPMAC is not at current release level |
| 00000008                  | ISFPMAC is not at current feature level |
| 0000000C                  | ISFGRP length incorrect                 |
| 00000010                  | ISFGRP version incorrect                |
| 00000014                  | ISFPMAC version incorrect               |

This problem is generally caused by using a copy of ISFPARMS from a different SDSF release or failing to reassemble ISFPARMS using the current SDSF macros.

SDSF terminates with a U0083 abend.

## User response

Ensure that the correct level of ISFPARMS is being used and reassemble using the current SDSF macros if necessary. Consider migrating to ISFPRMxx rather than using ISFPARMS.

**Routing code:**  
11

---

|                |  |
|----------------|--|
| <b>ISF027I</b> | <b>ERROR OCCURRED PROCESSING<br/>OUTPUT DESCRIPTORS FOR<br/><i>jobname</i>, <i>procstep</i>, <i>stepname</i>,<br/><i>ddname</i>, RC=<i>return-code</i> <i>reason-<br/>code</i></b> |
|----------------|--|

---

### Explanation

An error occurred retrieving the output descriptors for job *jobname*, procedure step *procstep*, step *stepname*, and ddname *ddname*. The scheduler JCL facility (SJF) SWBTUREQ service failed with return-code *return-code* and reason-code *reason-code*.

The output descriptors for the indicated data set are not shown on the JDS panel. The message OUTPUT DESC NOT AVAIL is issued in the SDSF message area.

### User response

The meanings of the return and reason codes are documented in the SJF macro IEFSJTRC. Use the SDSF TRACE command to trace the SJF service calls to obtain additional information about the problem.

---

|                |  |
|----------------|--|
| <b>ISF028E</b> | <b>ISFGRP INDEX <i>return-code</i><br/>HAS AN INVALID ISFNTBL<br/>SPECIFICATION for <i>listname</i>.</b> |
|----------------|--|

---

### Explanation

During SDSF initialization, an include or exclude list was being processed for a non-destination list. However, an ISFNTBL TYPE=DEST macro was used to specify the list. In the message text, *return-code* is the index number of the ISFGRP macro being processed, and *listname* is the name of the ISFGRP list that was being processed. (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.)

Initialization is terminated with a U0016 abend after the remaining include and exclude lists are processed.

### User response

Correct the ISFNTBL macro pointed to by the indicated ISFGRP statement.

---

|                |   |
|----------------|---|
| <b>ISF029I</b> | <b>SWB MODIFY ATTEMPTED <br/>EXECUTED <i>data-set-name</i> <i>userid</i><br/><i>logon-proc</i> <i>terminal-name</i></b> |
|----------------|---|

---

### Explanation

A user *userid* running with logon procedure *logon-proc* on terminal *terminal-name* has requested that output descriptors for data set *data-set-name* be modified.

If the message indicates ATTEMPTED, the user was not authorized to make the request. If the message indicates EXECUTED, the request has been scheduled for execution.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF031I</b> | <b>CONSOLE <i>console-name</i><br/>(<i>migration-id</i>) ACTIVATED (<i>share-<br/>status</i>)</b> |
|----------------|---|

---

### Explanation

A user log has been started using console *console-name*. If a migration identifier has been assigned, *migration-id* contains the ID being used. If the console is being shared, the *share-status* is (SHARED).

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF032I</b> | <b>CONSOLE <i>console-name</i> ACTIVATE<br/>FAILED, RETURN CODE <i>return-<br/>code</i>, REASON CODE <i>reason-code</i></b> |
|----------------|---|

---

### Explanation

An attempt to activate an extended console has failed. The message text contains the hexadecimal *return-code* and *reason-code* from the MCSOPER macro.

### User response

Use the return and reason codes to determine the cause of the error. For the MCSOPER return and reason codes, see [z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU](#).

---

|                |  |
|----------------|--|
| <b>ISF033I</b> | <b><i>console-name</i> MESSAGE<br/>RETRIEVAL FAILED, MCSOPMSG<br/>RETURN CODE <i>return-code</i>,<br/>REASON CODE <i>reason-code</i></b> |
|----------------|--|

---

### Explanation

An attempt to retrieve a message from the extended console *console-name* failed. The message text contains the hexadecimal *return-code* and *reason-code* from the MCSOPMSG macro. Some messages might have been discarded by consoles.

### User response

Use the return and reason codes to determine the cause of the error. You can reset the console by

issuing a ULOG CLOSE command, followed by a ULOG command.

---

**ISF034I ULOG IS EMPTY**

---

### Explanation

An attempt has been made to access the user log, but it contains no records.

### User response

If the ULOG is inactive, issue the ULOG command to activate it.

---

**ISF035I SDSF TDUMP FAILED,  
RETURN CODE=*return-code*  
REASON=*reason-code***

---

### Explanation

SDSF failed to take a transaction dump (TDUMP). The IEATDUMP return and reason codes are shown in the message.

### User response

Use the return and reason codes to determine the cause of the error. For more information, refer to [z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU](#).

---

**ISF036I NO RECORDS TO DISPLAY**

---

### Explanation

A LOG command has been entered to display the OPERLOG panel, but there are no log records to display.

### User response

To display the SYSLOG panel, which contains messages for a single system, type LOG S.

---

**ISF037I *dump-type* NOT TAKEN,  
SUPPRESSED BY DAE**

---

### Explanation

SDSF attempted to take a *dump-type*, but it has been suppressed by the Dump Analysis and Elimination (DAE) component.

### User response

None.

---

**ISF039I ERROR PROCESSING ISPF *service*  
RC=*return-code*: *message-text***

---

### Explanation

An error has been encountered in using the ISPF service *service*. The return code from the service and the text of the ISPF short and long message is displayed.

### User response

Use the return code and message text to understand and resolve the problem. If the problem persists, follow your local procedure for reporting a problem to IBM.

If the error is a system abend due to an out-of-space condition (such as SB37, SD37, or SE37) for table ISFACMTB, the table data set allocated to ddname ISFTABL is too small to store all of the commands. Reallocate the data set to a larger size. After the abend, the data set may still be in use by ISPF; exit ISPF to free it. When allocating the new data set, copy the existing ISFACMTB table to the new table to preserve your stored commands. Due to the abend, commands added during the current session are not preserved. For more information, refer to [“Issuing MVS and JES commands”](#) on page 452.

---

**ISF040I INVALID MDB DISCARDED FOR  
BLOCKID *blockid***

---

### Explanation

SDSF encountered an invalid message data block (MDB) in the log stream when displaying the OPERLOG panel. The MDB is discarded. The ID of the block in which the MDB was found is *blockid*.

### User response

None.

### Routing code

ERLOG

---

**ISF041I CONSOLE *console-name* IS IN USE**

---

### Explanation

SDSF needed to activate an extended console and the default console name was already in use. As a result, SDSF activated a console with a unique name generated by modifying the default name.

### User response

None.

---

**ISF042I CONSOLE *console-name* IS IN USE**

---

### Explanation

SDSF attempted to activate an extended console but the console name was in use. The console was not activated. The console will be shared by SDSF if sharing has not been disabled.

### User response

Use the SET CONMOD ON command to allow SDSF to retry the activation using a modified console name, or change the console name with the SET CONSOLE command.

For more information, refer to [“Issuing MVS and JES commands”](#) on page 452.

|                |   |
|----------------|---|
| <b>ISF043I</b> | <b>UNABLE TO MODIFY CONSOLE<br/>NAME <i>console-name</i>, ALL<br/>MODIFIED NAMES FAILED</b> |
|----------------|---|

### Explanation

SDSF attempted to activate extended console *console-name*, but the console is in use and console modification (conmod) is enabled. Console names are modified by conmod processing by appending a single-character suffix to *console-name*. However, SDSF cannot activate any of the console names modified by conmod processing.

### User response

No action is required. However, any responses to system commands will not be included in ULOG.

|                |   |
|----------------|---|
| <b>ISF045W</b> | <b>UNABLE TO OPEN TABLE LIBRARY<br/>ISFTABL, NUMBER OF SAVED<br/>COMMANDS MAY BE LIMITED.</b> |
|----------------|---|

### Explanation

SDSF could not open the table library that uses ddname ISFTABL, which is used to store system commands. The number of stored commands is limited to those saved in the ISPF profile. This message appears in the user log only when the STORELIMIT warning option is in effect. STORELIMIT is displayed below the command line on the System Command Extension pop-up.

### User response

None required. To allow more commands to be stored, allocate the table library ISFTABL. To suppress the message, use the Options pull-down to turn the store limit warning off.

For more information, refer to [“Issuing MVS and JES commands”](#) on page 452.

|                |  |
|----------------|--|
| <b>ISF050I</b> | <b>USER=<i>user</i> GROUP=<i>group</i><br/>PROC=<i>proc</i> TERMINAL=<i>terminal</i></b> |
|----------------|--|

### Explanation

Tracing of messages related to security has been requested, or the user has been assigned to a group in ISFPARMS. The message identifies the user by user ID, group in ISFPARMS, logon procedure and terminal.

### User response

None required.

|                |  |
|----------------|--|
| <b>ISF051I</b> | <b>SAF authorization SAFRC=<i>saf-rc</i><br/>ACCESS=<i>access</i><br/>CLASS=<i>class</i> RESOURCE=<i>resource</i><br/>REQSTOR=<i>requestor</i><br/>RECVR=<i>userid</i> LOG=<i>log-option</i></b> |
|----------------|--|

### Explanation

A SAF check has been performed.

**authorization**  
describes the decision by SAF.

**saf-rc**  
is a return code from SAF, or N/A, when the pre-SAF exit is being used.

**access**  
is the access mode that was requested.

**class**  
is the SAF class.

**resource**  
is the SAF resource.

**requestor**  
is the requestor value for this SAF check.

**userid**  
is the user's ID. RECVR= is included only if it is specified by this SAF check.

**log-option**  
is the logging option being used for this SAF check.

### User response

None required. For more information on SAF resources used by SDSF, refer to [Chapter 8, “Protecting SDSF panels and functions,”](#) on page 265.

**Routing code:**  
11

**Descriptor code:**  
7

|                |  |
|----------------|--|
| <b>ISF052I</b> | <b>ISFUSER <i>exit-type</i><br/>authorization EXITRC=<i>exit-rc</i><br/>SAFRC=<i>saf-rc</i> ACCESS=<i>access</i></b> |
|----------------|--|

**CLASS=class****RESOURCE=resource**  
**RECVR=userid**

## Explanation

A SAF check has been performed.

### **exit-type**

is the type of exit.

### **authorization**

describes the security decision.

### **exit-rc**

is a return code from the exit.

### **saf-rc**

is a return code from SAF, or N/A, when the pre-SAF exit is being used.

### **access**

is the access mode that was requested.

### **class**

is the SAF class.

### **resource**

is the SAF resource.

### **userid**

is the user's ID. RECVR= is included only if it is specified by this SAF check.

## User response

None required. For more information on SAF resources used by SDSF, refer to Chapter 8, “Protecting SDSF panels and functions,” on page 265. For more information on user exit routines, refer to Chapter 12, “Using installation exit routines,” on page 437.

**ISF053I**

**COMMAND=command**  
**authorization**

## Explanation

A check of ISFPARMS security for an SDSF command has been performed.

### **command**

is the command.

### **authorization**

describes the security decision.

## User response

None required. For more information, refer to the AUTH parameter in “Group function parameters reference” on page 14.

**ISF054I**

**DEST= destination authorization**

## Explanation

A check of ISFPARMS security for a destination has been performed.

### **destination**

is the destination.

### **authorization**

describes the security decision.

## User response

None required. For more information, refer to the DEST parameter in “Group function parameters reference” on page 14.

**ISF055I**

**ACTION=action-character**  
**authorization** **USERLEVEL=user-**  
**level** **REQLEVEL=required-level**  
**jobname jobid** **RSN=reason**

## Explanation

A check of ISFPARMS security for an action character has been performed.

### **action-character**

is the action character.

### **authorization**

describes the security decision.

### **user-level**

is the user's command level.

### **required-level**

is the required command level.

### **jobname**

is the job name, if applicable.

### **jobid**

is the job ID, if applicable.

### **reason**

is the reason that authorization was denied. It is included only if authorization is denied. The reasons are:

#### **RSN=01 Job no longer valid**

Either the job has been purged or the output group is no longer available.

#### **RSN=02 CMDAUTH ALL was not specified**

The action requires a value of ALL for CMDAUTH in ISFPARMS.

#### **RSN=03 Not authorized for INIT command**

The user is not authorized to the INIT command.

#### **RSN=04 Destination not specified**

A destination that is required was not specified.



**RSN=05 Not a JES command**

The command that was issued must be a JES command but was not.

**RSN=06 Not authorized for command**

The user is not authorized for the command.

**RSN=07 Job name not in include list**

An include list is defined with Ixxx parameters in ISFPARMS.

**RSN=08 Job name in exclude list**

An exclude list is defined with Xxxx parameters in ISFPARMS.

**RSN=09 Command authority insufficient**

The user does not have the required command authority.

**User response**

None required. For more information, refer to the CMDLEV parameter in [“Group function parameters reference”](#) on page 14.

---

|                |   |
|----------------|---|
| <b>ISF056I</b> | <b>ISFUSER=exit-type authorization</b><br><b>ACTION=action-character</b><br><b>EXITRC=exit-rc jobname jobid</b> |
|----------------|---|

---

**Explanation**

An exit has made a security check for an action character.

**exit-type**

is the type of exit.

**authorization**

describes the security decision.

**action-character**

is the action character.

**exit-rc**

is the return code from the exit.

**jobname**

is the job name, if applicable.

**jobid**

is the job ID, if applicable.

**User response**

None required. For more information, refer to [Chapter 12, “Using installation exit routines,”](#) on page 437.

---

|                |   |
|----------------|---|
| <b>ISF057I</b> | <b>GROUP=group authorization</b><br><b>USERAUTH=user-authorization</b><br><b>REQAUTH=req-authorization</b><br><b>RSN=reason</b> |
|----------------|---|

---

**Explanation**

A security check has been made for a group in ISFPARMS.

**group**

is the name of the group.

**authorization**

describes the security decision.

**user-authorization**

is the list of user authority (OPER, ACCT, JCL, MOUNT).

**req-authorization**

is the authority that is required by the group.

**reason**

is the reason authorization was denied. It is included only if authorization was denied. The reasons are:

**RSN=01 User has insufficient authority**

The user does not have the required authority.

**RSN=02 User ID is not in include list (IUID)**

The include list is defined with the IUID parameter in ISFPARMS.

**RSN=03 user ID is in exclude list (XUID)**

The exclude list is defined with the XUID parameter in ISFPARMS.

**RSN=04 logon proc is not in include list (ILPROC)**

The include list is defined with the ILPROC parameter in ISFPARMS.

**RSN=05 logon proc is in exclude list (XLPROC)**

The exclude list is defined with the XLPROC parameter in ISFPARMS.

**RSN=06 terminal is not in include list (ITNAME)**

The include list is defined with the ITNAME parameter in ISFPARMS.

**RSN=07 terminal is in exclude list (XTNAME)**

The exclude list is defined with the XTNAME parameter in ISFPARMS.

**User response**

None required. For more information, refer to [“Group function parameters reference”](#) on page 14.

---

|                |   |
|----------------|---|
| <b>ISF058I</b> | <b>COLUMN column</b><br><b>authorization USERLEVEL=user-level</b><br><b>REQLEVEL=required-level</b> |
|----------------|---|

---

**Explanation**

A security check has been made for an overtypable column.

**column**

is the column title, or, for REXX, the column name.

**authorization**  
describes the security decision.

**user-level**  
is the user's authority, specified by the CMDLEV parameter in ISFPARMS.

**required-level**  
is the required authority.

User response

None required. For more information, refer to the CMDLEV parameter in “Group function parameters reference” on page 14.

|         |  |
|---------|--|
| ISF059I | SAF ACCESS <i>auth</i> SAFRC=( <i>rc</i> ,<br><i>rrc</i> , <i>rrs</i> ) ACCESS= <i>access</i><br>CLASS= <i>class</i> RESOURCE= <i>resource</i><br>REQSTOR= <i>requestor</i> LOG=log-<br>option |
|---------|--|

Explanation

A security check was performed by the SDSFAUX address space on behalf of the user.

**auth**  
describes the security decision.

**rc,rrc,rrs**  
is the SAF return code, RACF return code, and RACF reason code.

**access**  
is the access level requested.

**resource**  
is the resource name being checked.

**log-option**  
is the logging option being used for this SAF check.

**Note:** This message may be truncated if the resource name or requestor are lengthy.

User response

No response is required.

**Routing code:**  
11

**Descriptor code:**  
7

|         |  |
|---------|--|
| ISF060I | ACCESS <i>access-result</i><br>FOR CLASS= <i>class-name</i><br>RESOURCE= <i>resource-name</i> DUE<br>TO <i>fail-rc</i> option. |
|---------|--|

Explanation

This message is issued when security tracing is active to describe the action taken when SAF returns an

indeterminate (no decision) result. In the message text, *access-result* is allowed or denied, *class-name* and *resource-name* are the SAF resources being checked, and *fail-rc* is the AUXSAF FAILRC4 or NOFAILRC4 server option in effect.

User response

No response is required.

|         |  |
|---------|--|
| ISF061I | USER <i>userid</i> ASSIGNED<br>DESTINATION OPERATOR<br>AUTHORITY |
|---------|--|

Explanation

The user has READ access to the ISFOPER.DEST.jesx resource in the SDSF class. This enables use of destination operator authority when checking access to spool data sets. For information about configuring destination operator authority, see “Destination operator authority” on page 430.

User response

No response is required.

|         |   |
|---------|---|
| ISF062I | Destination operator authority<br>allowing access to <i>resource-name</i> . |
|---------|---|

Explanation

This message is issued when security tracing is active to indicate that access to *resource-name* is granted due to the user having destination operator authority. Destination operator authority is described in *z/OS SDSF Operation and Customization* and is used to grant access to jobs, output groups, and data sets based on destination.

User response

No response is required.

|         |                          |
|---------|--------------------------|
| ISF099I | SDSF COPYRIGHT STATEMENT |
|---------|--------------------------|

Explanation

The current SDSF copyright statement is shown.

User response

No response is required.

|         |   |
|---------|---|
| ISF101E | SDSF INTERNAL ERROR<br>OCCURRED IN MODULE <i>module</i> ,<br>REASON CODE <i>reason-code</i> .<br>ADDITIONAL INFORMATION:<br><i>additional-information</i> |
|---------|---|



## Explanation

An error occurred in SDSF or in a system service required by SDSF.

## User response

Use the reason code and additional information (if any) to determine the cause of the error.

The reason codes are:

- 101**  
The execution environment was not recognized.
- 104**  
The SVT for the server failed a validity check.
- 105**  
A call to the IFAEDREG service failed.
- 106**  
A call to the IFAEDDRG service failed.
- 110**  
The system symbol service ASASYMBM failed.
- 111**  
The output area provided for the system symbol service ASASYMBM is too small.
- 120**  
A ENFREQ listen request has failed.
- 121**  
A ENFREQ delete listen request has failed.
- 124**  
The console query service CNZQUERY has failed.
- 130**  
The level was invalid for the name/token service.
- 131**  
The persist indicator was invalid for the name/token service.
- 132**  
A name/token service call has terminated with an error.
- 142**  
The IXCARM register service has failed.
- 143**  
The IXCARM ready service has failed.
- 144**  
The IXCARM deregister service has failed.
- 160**  
The SAF encryption service has failed.
- 161**  
The encryption key is invalid.
- 176**  
An error occurred during the AXSET service.
- 178**  
An error occurred establishing an ESTAE.
- 179**  
An error occurred deleting an ESTAE.
- 180**  
An error occurred during the ATTACH service.
- 182**  
An error occurred attempting to ENQ a resource.
- 184**  
An error occurred attempting to DEQ a resource.
- 185**  
The CIB contained an unexpected command verb.
- 186**  
An error occurred during execution the QEDIT service.
- 187**  
An error occurred creating a resource termination manager.
- 188**  
An error occurred deleting a resource termination manager.
- 189**  
An error occurred obtaining the current task token.
- 190**  
An error occurred obtaining the job step task token.
- 192**  
An error occurred attempting to issue an ETDES service.
- 197**  
An error occurred invoking the DEVTYPE service.
- 211**  
TCB address not found in task management table.
- 301**  
A required REQ address was not provided.
- 302**  
An unexpected request was sent to a routine.
- 303**  
A request level is not supported by the current version.
- 511**  
An invalid parameter value was detected by a routine.
- 512**  
An invalid function code was detected by a routine.
- 513**  
A service was invoked in an invalid environment, such as a client request in the server environment.
- 514**  
A required storage area does not exist.
- 515**  
A storage area is not accessible or is in the wrong key.

- 516**  
An unexpected condition was detected which indicates a logic error.
- 517**  
A mutually exclusive value was detected which indicates a logic error.
- 519**  
An invalid sub-type code was detected by a routine.
- 520**  
A required module was not loaded or available.
- 530**  
An error occurred during execution of the STIMER service.
- 531**  
An error occurred during execution of the STIMER service.
- 532**  
An error occurred during execution of the TTIMER service.
- 533**  
A failure occurred during termination of a server subtask.
- 555**  
An error occurred in setting the CIB count using QEDIT.
- 557**  
The LX system token contains an invalid LX value.
- 558**  
Unable to reserve a system LX.
- 559**  
Unable to create an entry table.
- 560**  
Unable to connect an entry table.
- 561**  
The ALESERV extract service has failed.
- 562**  
The ALESERV add service has failed.
- 563**  
The ALESERV delete service has failed.
- 564**  
The ALESERV search service has failed.
- 576**  
Unable to insert a node in a linked list.
- 577**  
An error occurred during processing of a DETACH macro.
- 578**  
Unable to delete a node from a linked list.
- 583**  
Unexpected token passed to a parse action routine.
- 584**  
Unrecognized parse token.
- 585**  
Invalid display type key.
- 586**  
A buffer is too small.
- 587**  
A required buffer is not provided or the buffer length is zero.
- 601**  
A default CSCA was not found on the CSCA chain.
- 602**  
A local server was not found in the server group.
- 603**  
No servers were found in the server group.
- 604**  
A communications protocol was not specified for a server in a server group.
- 605**  
A communications protocol type was invalid.
- 606**  
The request queue name was not provided.
- 607**  
An index into the server status table was invalid.
- 608**  
A request requires the server status table but it is not defined.
- 609**  
The server status table is not marked active.
- 610**  
Unable to build the server status table.
- 611**  
An error occurred receiving a message.
- 612**  
The associated data retrieval routine for a request was not assigned.
- 613**  
Field offsets within the request were not assigned.
- 614**  
The transmission length for a request is zero.
- 615**  
The transmission length for a request is greater than the total length of the request.
- 616**  
The request origin is invalid in the current context. The request may have been forwarded but is not trusted.

- 617**  
The request is rejected because the request has already been marked as failed.
- 618**  
The request queue name is invalid, possibly because it is too long.
- 619**  
A server status value is incorrect.
- 620**  
A server status value is not expected in the current state.
- 621**  
A server request is not expected with the current server status.
- 622**  
The platform code for a queue manager is unacceptable.
- 623**  
The req fixed length is zero or greater than the total req length.
- 624**  
An invalid action character was detected.
- 625**  
An unsupported field was overtyped.
- 626**  
A base64 encoding has failed.
- 627**  
A data compression request has failed.
- 628**  
A data masking request has failed.
- 650**  
A JSON parse has failed.

---

**ISF102E**      **I/O ERROR DETECTED BY *module* ON I/O request FOR DDNAME *ddname*, RETURN CODE *return-code*, REASON CODE *reason-code*, additional-information.**

### Explanation

An error occurred in an input or output function requested by SDSF.

### User response

The additional information (if any) may include system messages for the requested I/O function. See the appropriate system messages manual for more information.

---

**ISF103E**      **MEMBER *member-name* NOT FOUND, DDNAME *ddname*.**

### Explanation

A member name specified as input to the server could not be found.

### User response

Correct the member name and retry the request.

---

**ISF104E**      **ALLOCATION OF LOGICAL PARMLIB FAILED, RETURN CODE *return-code*, REASON *reason-code***

### Explanation

An error occurred attempting to allocate the logical parmlib using the IEFPRMLB service.

### User response

Use the return and reason codes from the service to determine the cause of the error.

---

**ISF105E**      **DEALLOCATION OF LOGICAL PARMLIB FAILED, RETURN CODE *return-code*, REASON *reason-code***

### Explanation

An error occurred attempting to deallocate the logical parmlib using the IEFPRMLB service.

### User response

Use the return and reason codes from the service to determine the cause of the error.

---

**ISF106W**      **SDUMP ERROR OCCURRED IN MODULE *module*, RETURN CODE *return-code*, REASON CODE *reason-code*.**

### Explanation

An error in taking an SDUMP occurred in module *module* with the indicated return and reason codes.

### User response

Use the return and reason codes to determine the cause of the error.

---

**ISF108E**      **DCB SYNAD INFORMATION *synad-text*.**

### Explanation

An I/O error has occurred on an input or output function requested by SDSF. The DCB SYNAD

information returned as a result of the error is listed in *synad-text*.

## User response

Use the text to determine the cause of the error.

---

|                |   |
|----------------|---|
| <b>ISF109E</b> | <b>DYNAMIC ALLOCATION OF DDNAME <i>ddname</i> FAILED, RETURN CODE <i>return-code</i>, REASON <i>reason-code</i>, INFO CODE <i>information-code</i>.</b> |
|----------------|---|

---

## Explanation

SDSF attempted to allocate ddname *ddname*, but the allocation failed.

## User response

For information on dynamic allocation error codes, see the appropriate manual concerning system macros and facilities, or job management.

---

|                |  |
|----------------|--|
| <b>ISF110I</b> | <b>LOGGING TO DDNAME <i>ddname</i> SUSPENDED, MESSAGES WILL BE DIRECTED TO THE HARDCOPY LOG.</b> |
|----------------|--|

---

## Explanation

SDSF encountered an error using *ddname* as the server log. All server messages that are written to the log will be directed to the hardcopy log.

## User response

None required. If you want server messages to be written to the server log, stop and start the server, being sure you have a server log allocated. If you do not want logging, allocate the server log to a dummy data set.

---

|                |   |
|----------------|---|
| <b>ISF111E</b> | <b>DYNAMIC ALLOCATION OF <i>dataset-name</i> FAILED, RETURN CODE <i>return-code</i>, REASON <i>reason-code</i>, INFO CODE <i>information-code</i></b> |
|----------------|---|

---

## Explanation

SDSF attempted to allocate data set *dataset-name*, but the allocation failed.

## User response

For information on dynamic allocation error codes, see the appropriate manual concerning system macros and facilities, or job management.

---

|                |   |
|----------------|---|
| <b>ISF112I</b> | <b>SDSF ABEND <i>ab-code</i> REASON <i>code</i><br/>SERVER <i>server-name</i><br/>MODULE <i>x</i> OFFSET <i>y</i> LEVEL <i>z</i><br/>PSW <i>psw</i> CAB <i>cab</i><br/>TEA <i>tea</i><br/>BEA <i>bea</i> MODULE <i>x</i> OFFSET <i>y</i><br/><i>contents-of-registers</i></b> |
|----------------|---|

---

## Explanation

SDSF has abended with the user or system abend code *ab-code*. User abend codes are in decimal; system abend codes are in hexadecimal. Variable *tea* is the translation exception address; *bea* is the breaking event address. The contents of registers, *contents-of-registers*, are displayed two registers per line, in the format *access-register/ general-purpose-register*.

## User response

The system programmer should refer to “SDSF user abend codes” on page 593 for information on the user abend codes, or the appropriate system codes manual for information on the system abend codes.

---

|                |   |
|----------------|---|
| <b>ISF114I</b> | <b>SDSF diagnostic information added to ULOG.</b> |
|----------------|---|

---

## Explanation

SDSF has detected an unusual condition and has written diagnostic messages to the ULOG. When file system profiles are being used, the ULOG is written to the error log when the SDSF session ends.

## User response

No response is required.

---

|                |   |
|----------------|---|
| <b>ISF115E</b> | <b>SECURITY ERROR DETECTED BY <i>module-name</i> ON OPEN FOR DDNAME <i>ddname</i> resource-name</b> |
|----------------|---|

---

## Explanation

An error occurred in an OPEN operation. In response to a SAF check from JES, SAF denied access to a SYSOUT data set.

## User response

See your security administrator.

---

|                |  |
|----------------|--|
| <b>ISF116E</b> | <b>UNABLE TO LOCATE REQUESTED <i>jes-type</i> SUBSYSTEM NAMED <i>subsystem-name</i>.</b> |
|----------------|--|

---

## Explanation

SDSF is attempting to process the JES2 or JES3 subsystem *subsystem-name* but it is not defined to the system. SDSF initialization is terminated with a U0080 abend.

## User response

Ensure that the subsystem has been specified correctly on the OPTIONS statement in ISFPRMxx, the JESNAME or JES3NAME command invocation options, or the isfjesname and isfjes3name REXX special variables.

---

|                |  |
|----------------|--|
| <b>ISF120E</b> | <b>REQUEST FAILED, MODULE <i>module-name</i> WAS UNABLE TO OBTAIN <i>number</i> BYTES OF STORAGE FOR <i>area-name</i>.</b> |
|----------------|--|

---

## Explanation

A request to obtain storage by SDSF *module-name* for *area-name* failed because the indicated bytes of storage were not available.

## User response

The request is not processed. If possible, increase the region size used to invoke SDSF.

In the REXX environment, use special variables or other filter options to limit the number of REXX variables needed to satisfy a request. For more information, type REXXHELP (ISPF only).

---

|                |   |
|----------------|---|
| <b>ISF121I</b> | <b>MODULE ISFSM64 WAS UNABLE TO OBTAIN <i>number</i> BYTES OF STORAGE ( <i>nnn</i> SEGMENTS). CHECK MEMLIMIT VALUE.</b> |
|----------------|---|

---

## Explanation

SDSF attempted to obtain storage that is above the bar (above the 2-gigabyte line) but the amount of storage was not available. The value for MEMLIMIT for the user ID may be too low. This message is issued only once per session.

## System action

SDSF attempts to obtain storage below the bar.

## User response

Contact your system programmer. If SDSF could not obtain the required storage below the bar, the request is not processed and an additional message is issued.

---

|                |  |
|----------------|--|
| <b>ISF130E</b> | <b>UNABLE TO ADD <i>check-name</i> HEALTH CHECK, HZSADDCK RETURN CODE <i>return-code</i> REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

SDSF is attempting to add the check *check-name* to IBM Health Checker for z/OS. The HZSADDCK service has failed with the indicated return and reason codes. The check is not added.

## User response

Use the return and reason codes to diagnose the error. They are described in [\*IBM Health Checker for z/OS User's Guide\*](#).

---

|                |   |
|----------------|---|
| <b>ISF135E</b> | <b>Unable to gather <i>jesname</i> data, <i>jobname</i> is invalid.</b> |
|----------------|---|

---

## Explanation

A request to gather job or output data from *jesname* failed because the *jobname* prefix is invalid. If you are using the fast path select command, ensure that the *jobname* pattern only contains valid *jobname* characters.

## User response

Correct the *jobname* prefix being used and retry the request.

---

|                |   |
|----------------|---|
| <b>ISF136I</b> | <b>ISPF profile was previously migrated to file system format on system <i>system-name</i> on <i>date-and-time</i>.</b> |
|----------------|---|

---

## Explanation

SDSF has been invoked using ISPF profiles for session settings, but the profile has previously been used during migration to file system profiles. The message indicates the system and time that the migration was done. Since ISPF profile migration is a one-time task, any changes made to SDSF settings will not be reflected in the file system profiles that were previously created.

## User response

No response is required.

---

|                |   |
|----------------|---|
| <b>ISF137I</b> | <b>SDSF SDUMP NOT TAKEN, SUPPRESSED BY DAE.</b> |
|----------------|---|

---

## Explanation

SDSF attempted to take an SDUMP, but it has been suppressed by the Dump Analysis and Elimination (DAE) component.

## User response

None.

---

|                |  |
|----------------|--|
| <b>ISF138E</b> | <b>POINT FAILED READING <i>dataset-name</i>, RETURN CODE <i>return-code</i>, RPLFDBK <i>feedback-code</i>, RPLRBAR <i>rba</i>.</b> |
|----------------|--|

---

## Explanation

A POINT request failed in an attempt to read *dataset-name* with the indicated return code, RPL feedback and relative block address. SDSF is unable to read the file.

When SYSLOG is being processed, *dataset-name* may be a logical data set name of the form *sysname*.SYSLOG.SYSTEM, where *sysname* is the MVS system name for the SYSLOG being processed. SDSF uses the current value of the SYSID command to derive the system name.

In a JES3 environment, a value of FF04FFFFFFFFFFFFFF for *rba* might indicate the SYSLOG data set is empty. This is to be expected if the SYSLOG is on a JES3 local system and no records have been written to it. In that case, you can issue the command SYSID \* to specify the global system. The global SYSLOG is processed regardless of which system you are logged on to.

## User response

Use the return code and feedback to diagnose the error. If the SYSLOG was being processed, verify that the value of SYSID is correct for the SYSLOG you want to process.

---

|                |  |
|----------------|--|
| <b>ISF139E</b> | <b>GET FAILED READING <i>dataset-name</i>, RETURN CODE <i>return-code</i>, RPLFDBK <i>feedback-code</i>.</b> |
|----------------|--|

---

## Explanation

A GET request failed in an attempt to read *dataset-name* with the indicated return code and RPL feedback. SDSF is unable to read the file.

## User response

Use the return code and feedback to diagnose the error.

---

|                |   |
|----------------|---|
| <b>ISF142E</b> | <b>DEVICE NAME CONVERSION ERROR OCCURRED FOR DEVICE ID <i>device-id</i>, RETURN CODE <i>return-code</i>, REASON <i>reason-code</i>, INFO CODE <i>info-code</i>.</b> |
|----------------|---|

---

## Explanation

An error occurred during the invocation of the JES device name conversion SSI. In the message text, the device id is the JES internal device being converted, the return code is from IEFSSREQ, the reason code is from SSOBRETN, and the info code is from SSJIRETN.

## User response

Use the return and reason codes to diagnose the error, and then follow your local procedures for contacting IBM for support.

---

|                |   |
|----------------|---|
| <b>ISF144E</b> | <b>UNABLE TO OBTAIN HEALTH CHECKER CHECK INFORMATION ON SYSTEM <i>system</i>, HZSQUERY CHECKINFO RETURN CODE <i>return-code</i>, REASON <i>reason-code</i>.</b> |
|----------------|---|

---

## Explanation

An attempt to gather IBM Health Checker for z/OS data was unsuccessful because the HZSQUERY CHECKINFO service failed.

## User response

See *IBM Health Checker for z/OS User's Guide* and use the return and reason codes from the HZSQUERY CHECKINFO service to diagnose the error. If the error persists, follow your local procedures for calling IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF145E</b> | <b>REXX REQUEST SERVICE <i>service-name</i> FAILED, RETURN CODE <i>return-code</i>, REASON <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

An invocation of the REXX service *service-name* failed with the indicated return and reason code.

## User response

The request is not processed. Use the return and reason codes from the service to diagnose the error.

---

|                |   |
|----------------|---|
| <b>ISF146I</b> | <b>REXX VARIABLE <i>variable-name</i> SET, RETURN CODE <i>return-code</i>, VALUE IS '<i>value</i>'.</b> |
|----------------|---|

---

## Explanation

The indicated REXX variable has been assigned the indicated value. The return code corresponds to the SHVRET field returned by the IRXEXCOM service. This message is issued only in verbose mode.

## User response

None.

---

|                |   |
|----------------|---|
| <b>ISF147I</b> | <b>REXX VARIABLE <i>variable-name</i> FETCHED, RETURN CODE <i>return-code</i>, VALUE IS '<i>value</i>'.</b> |
|----------------|---|

---

## Explanation

The indicated REXX variable has been obtained and contains the indicated value. The return code corresponds to the SHVRET field returned by the IRXEXCOM service. This message is issued only in verbose mode.

## User response

None.

---

|                |  |
|----------------|--|
| <b>ISF148E</b> | <b>UNABLE TO OBTAIN SUBSYSTEM INFORMATION FOR SUBSYSTEM <i>subsystem-name</i>, RETURN CODE <i>return-code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

SDSF has attempted to obtain information about *subsystem-name* using the subsystem version information (SSVI) subsystem interface call but the SSI has failed. In the message text, *return-code* is the return code from IEFSSREQ and *reason-code* is the reason code in SSOBRETN.

## User response

Use the return and reason codes to diagnose the error or follow your local procedures to contact IBM for support.

---

|                |  |
|----------------|--|
| <b>ISF149E</b> | <b>UNABLE TO OBTAIN <i>ssi-request</i> DATA FOR SUBSYSTEM <i>subsystem-name</i>, RETURN CODE <i>return-code</i>, SSOBRETN <i>ssob-return-code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

A subsystem request directed to *subsystem-name* failed for *ssi-request* data with the referenced SSI return code and SSOB return code. The reason code

is for the specific SSI function being performed. The SDSF function that required the SSI data cannot be performed.

## User response

Use the request type and return codes to diagnose the error.

---

|                |  |
|----------------|--|
| <b>ISF150E</b> | <b>COMMUNICATIONS ERROR OCCURRED PROCESSING <i>service-name</i>, RETURN CODE <i>return-code</i>, REASON CODE <i>reason-code</i>. ADDITIONAL INFORMATION: <i>additional information</i></b> |
|----------------|--|

---

## Explanation

A error occurred while processing the indicated communications service. The required communication is not completed.

## User response

If the service name begins with MQ, a WebSphere MQ service has failed. Use the WebSphere MQ service return and reason codes, and the additional information to determine the cause of the error.

---

|                |   |
|----------------|---|
| <b>ISF151E</b> | <b>MESSAGE REJECTED FROM UNSUPPORTED PLATFORM, PLATFORM CODE <i>code</i>, PLATFORM NAME <i>name</i></b> |
|----------------|---|

---

## Explanation

An error occurred in communications between SDSF servers. A message was received from a platform that is not supported. The message is ignored.

## User response

If the message has been received in error, follow your local procedures for contacting IBM support.

---

|                |  |
|----------------|--|
| <b>ISF152E</b> | <b>MESSAGE REJECTED FROM USER <i>user-identity</i> DUE TO UNEXPECTED FORMAT NAME <i>format-name</i>.</b> |
|----------------|--|

---

## Explanation

A server request has been rejected due to an incorrect format name. The format is not recognized. The server does not process the request.

## User response

None required. If the message has been received in error, follow your local procedures for contacting IBM support.

---

**ISF153E**                    **MESSAGE REJECTED FROM USER**  
***user-identity* DUE TO INCORRECT**  
**APPLICATION IDENTITY.**

---

## Explanation

A server request has been rejected due to invalid data in the application identity data section of the message context. The request is not processed

## User response

If the message is issued in error, follow your local procedures for contacting IBM for support.

---

**ISF154E**                    **REQUEST REJECTED, TARGET JES**  
**UNACCEPTABLE FOR REQUESTOR.**

---

## Explanation

A request for data has been processed by the server, but the target JES is not in the same MAS as the requestor. The request is rejected.

## User response

Ensure that the server group definition references only those JES subsystems in the same MAS as the client. If the problem persists, follow your local procedures for contacting IBM support.

---

**ISF155E**                    **REQUEST REJECTED, TARGET**  
**SYSPLEX UNACCEPTABLE FOR**  
**REQUESTOR.**

---

## Explanation

A request for data has been processed by the server, but the target sysplex is not in the same sysplex as the requestor. The request is rejected.

## User response

Ensure that the server group definition references only those systems in the same sysplex as the client. If the problem persists, follow your local procedures for contacting IBM support.

---

**ISF156I**                    **UNABLE TO OBTAIN SYSPLEX**  
**INFORMATION, IXCQUERY**  
***function-name* FAILED, RETURN**  
**CODE *return-code*, REASON CODE**  
***reason-code*.**

---

## Explanation

An error occurred using the IXCQUERY service to gather sysplex information. The sysplex information is not shown.

## User response

Use the return and reason codes to diagnose the error.

---

**ISF157E**                    **Service *service-name* failed, abend**  
***abend-code* reason *reason-code***  
**detected by module *module-name*.**

---

## Explanation

The z/OS UNIX System Services callable service *service-name* abended with the indicated abend and reason code and has been detected by SDSF module *module-name*. This message is also written to the ULOG.

## User response

Use the abend code and reason for the service to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#) for more information. If the problem persists, follow your local procedures to contact IBM support.

---

**ISF158E**                    **Service *service-name* failed, return**  
**code *return-code*, reason code**  
***reason-code*.**

---

## Explanation

The z/OS UNIX System Services callable service *service-name* failed with the indicated return and reason codes. This message is also written to the ULOG.

## User response

Use the return and reason codes for the service to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#) for more information. If the problem persists, follow your local procedures to contact IBM support.

---

**ISF159E**                    **Reason text: *reason-text***

---

## Explanation

A z/OS UNIX System Services callable service provided additional text to describe a prior error.

## User response:

This message accompanies other SDSF messages that describe the error. Use the additional text provided by this message to diagnose the error. If the problem



persists, follow your local procedures to contact IBM support.

---

**ISF160E**      **IXCSEND TO SERVER *server-name* FAILED, RETURN CODE *return-code*, REASON CODE *reason-code*.**

---

### Explanation

The IXCSEND service has failed sending a message to *server-name* with the indicated return and reason code. The request is not processed.

### User response

Use the return and reason codes to diagnose the problem. Refer to [z/OS MVS Programming: Sysplex Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

**ISF161E**      **IXCSEND FROM SERVER *server-name* FAILED, RETURN CODE *return-code*, REASON CODE *reason-code*.**

---

### Explanation

The IXCSEND service has failed receiving a message to *server-name* with the indicated return and reason code. The request is not processed.

### User response

Use the return and reason codes to diagnose the problem. Refer to [z/OS MVS Programming: Sysplex Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

**ISF162E**      **START SERVER *server-name* FAILED, IXCSRVR RETURN CODE *return-code*, REASON CODE *reason-code*.**

---

### Explanation

The IXCSRVR start service has failed processing *server-name* with the indicated return and reason code. The request is not processed.

### User response

Use the return and reason codes to diagnose the problem. Refer to [z/OS MVS Programming: Sysplex Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

**ISF163E**      **STOP SERVER *server-name* FAILED, IXCSRVR RETURN CODE *return-code*, REASON CODE *reason-code*.**

---

### Explanation

The IXCSRVR stop service has failed processing *server-name* with the indicated return and reason code. The request is not processed.

### User response

Use the return and reason codes to diagnose the problem. Refer to [z/OS MVS Programming: Sysplex Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

**ISF164E**      **Entity being processed: "*entity-description*"**

---

### Explanation

A z/OS UNIX System Services callable service provided additional text to describe a prior error.

### User response:

This message accompanies other SDSF messages that describe the error. Use the additional text provided by this message to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#) for more information. If the problem persists, follow your local procedures to contact IBM support.

---

**ISF165E**      **SERVICE *service-name* FAILED, ABEND *abend-code* REASON *reason-code* DETECTED BY MODULE *module-name*, *additional-information*.**

---

### Explanation

The z/OS UNIX System Services callable service *service-name* abended with the indicated abend and reason code and has been detected by SDSF module *module-name*. The *additional-information* varies based on the service and can include the path or directory name being processed or a file descriptor code. This message is also written to the User Session Log (ULOG).

### User response

Use the abend and reason codes to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

**ISF166E**      **SEND FAILED, BPX4QSN RETURN CODE *return-code*, REASON CODE *reason-code*, msgtype *message-type*, length *length*.**

---

## Explanation

An error occurred in sending a message using the BPX4QSN service with the indicated return and reason codes. The message type used when sending the message was *message-type*. The size of the message being sent is indicated by *length*. The message is not sent.

## User response

Use the return and reason codes to diagnose the error.

For return code 121 reason code xxxx030B, the size of the z/OS UNIX interprocess communication (IPC) message queue may be too small for SDSF to put a message on the queue. The message size needed by SDSF varies based on the type of request and the size of the response. Determine the maximum size of the queue by issuing the D OMVS,O operator command and inspecting the value of the IPCMSGQBYTES option. Use the length of the message being sent from the message text to increase the size of the queue as necessary.

Refer to [z/OS UNIX System Services Messages and Codes](#).

---

|                |  |
|----------------|--|
| <b>ISF167E</b> | <b>RECEIVE FAILED, BPX4QRC</b><br><b>RETURN CODE</b> <i>return-code</i> ,<br><b>REASON CODE</b> <i>reason-code</i> ,<br><b>msgtype</b> <i>message-type</i> . |
|----------------|--|

---

## Explanation

An error occurred in receiving a message using the BPX4QRC service with the indicated return and reason codes. The message type used when sending the message was *message-type*. The message is not sent.

## User response

Use the return and reason codes to diagnose the error. Refer to [z/OS UNIX System Services Messages and Codes](#).

---

|                |   |
|----------------|---|
| <b>ISF168E</b> | <b>SERVICE</b> <i>service-name</i> <b>FAILED</b> ,<br><b>RETURN CODE</b> <i>return-code</i> ,<br><b>REASON CODE</b> <i>reason-code</i> , <b>PATH:</b><br><i>path-name</i> . |
|----------------|---|

---

## Explanation

The z/OS UNIX System Services callable service *service-name* has failed with the indicated return and reason codes. The *path-name* is the file or directory name being processed at the time of the error. This message is also written to the User Session Log (ULOG).

## User response

Use the return and reason codes to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

|                |   |
|----------------|---|
| <b>ISF169E</b> | <b>SERVICE</b> <i>service-name</i> <b>FAILED</b> ,<br><b>RETURN CODE</b> <i>return-code</i> ,<br><b>REASON CODE</b> <i>reason-code</i> , <b>FILE</b><br><b>DESCRIPTOR:</b> <i>file-descriptor</i> . |
|----------------|---|

---

## Explanation

The z/OS UNIX System Services callable service *service-name* has failed with the indicated return and reason codes. The *file-descriptor* is the file descriptor code for the file being processed at the time of the error. This message is also written to the User Session Log (ULOG).

## User response

Use the return and reason codes to diagnose the error. Refer to [z/OS UNIX System Services Programming: Assembler Callable Services Reference](#). If the error persists, follow your local procedures for contacting IBM support.

---

|                |   |
|----------------|---|
| <b>ISF170I</b> | <b>SERVER</b> <i>server-name</i> <b>ARM</b><br><b>REGISTRATION COMPLETE FOR</b><br><b>ELEMENT TYPE</b> <i>element-type</i> ,<br><b>ELEMENT NAME</b> <i>element-name</i> . |
|----------------|---|

---

## Explanation

The server has successfully registered with ARM with the indicated element type and name.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF171E</b> | <b>SERVER</b> <i>server-name</i> <b>ARM</b><br><b>REGISTRATION FAILED FOR</b><br><b>ELEMENT TYPE</b> <i>element-type</i> ,<br><b>ELEMENT NAME</b> <i>element-name</i> ,<br><b>RETURN CODE</b> <i>return-code</i> ,<br><b>REASON CODE</b> <i>reason-code</i> . |
|----------------|---|

---

## Explanation

The server has attempted to register with ARM with the indicated element name and type. However, the registration has failed with the listed return and reason codes from the IXCARM macro.

## User response

Use the return and reason codes to understand the problem. Refer to [z/OS Security Server RACF Security Administrator's Guide](#).

---

|                |  |
|----------------|--|
| <b>ISF172E</b> | <b>SERVER server-name ARM DEREGISTRATION FAILED, RETURN CODE <i>return-code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

The server has attempted to deregister from ARM, but the IXCARM service has failed with the indicated return and reason codes.

## User response

Use the return and reason codes to understand the problem. See [z/OS Security Server RACF Security Administrator's Guide](#).

---

|                |  |
|----------------|--|
| <b>ISF174E</b> | <b>xxxx UNABLE TO LOAD MODULE <i>module</i>, RETURN CODE <i>return-code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

SDSF was unable to load the indicated module.

## User response

See the return and reason codes for information about the problem. If the codes indicate that the load module was not found, the libraries containing the SDSF load modules may not have been correctly installed.

---

|                |  |
|----------------|--|
| <b>ISF175W</b> | <b>xxxx UNABLE TO DELETE MODULE <i>module</i>, RETURN CODE <i>return-code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

## Explanation

SDSF was unable to delete the indicated module.

## User response

See the return and reason codes for information about the problem.

---

|                |   |
|----------------|---|
| <b>ISF176E</b> | <b>UNABLE TO GATHER DATA FOR <i>jobname</i>, MODULE <i>module-name</i> LEVEL ERROR.</b> |
|----------------|---|

---

## Explanation

A request to gather data for *jobname* failed because the level of *module-name* is incompatible with the

SDSF requester. The SISFLPA and SISFLOAD data sets are not at the same level.

## User response

Ensure that the SISFLPA data set is at the same level as the SISFLOAD data set.

---

|                |   |
|----------------|---|
| <b>ISF177E</b> | <b>UNABLE TO GATHER DATA FOR <i>jobname</i>, MODULE <i>module-name</i> NOT FOUND.</b> |
|----------------|---|

---

## Explanation

A request to gather data for *jobname* failed because module *module-name* was not found. This may be because the SISFLPA and SISFLOAD data sets are not at the same level.

## User response

Ensure that the SISFLPA data set is at the same level as the SISFLOAD data set.

---

|                |   |
|----------------|---|
| <b>ISF180I</b> | <b>TASK <i>task-id</i> IS BEING RESTARTED DUE TO ABEND.</b> |
|----------------|---|

---

## Explanation

In response to an abend, the task indicated by *task-id* is being restarted.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF181I</b> | <b>TASK (<i>task-name</i>, <i>taskid</i>) CANNOT BE RESTARTED DUE TO ABEND.</b> |
|----------------|---|

---

## Explanation

The indicated task has abended and cannot be restarted. If the task is required for SDSF server execution, the server will be terminated.

## User response

Correct the problems indicated by the abend, or follow your local procedures for contacting IBM support

---

|                |   |
|----------------|---|
| <b>ISF182I</b> | <b>TASK (<i>task-name</i>, <i>taskid</i>) HAS BEEN RESTARTED.</b> |
|----------------|---|

---

## Explanation

The indicated task has been successfully restarted.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF185E</b> | <b>ISF185E Internal SDSF parse error</b><br><b>RC=return-code RSN=reason-code</b> |
|----------------|---|

---

### Explanation

During ISFPRMxx statement parsing an expected error was encountered. The parsing operation is abandoned and the SDSF parameters are left unchanged.

### User response

Follow your local procedures for reporting a problem to IBM.

---

|                |  |
|----------------|--|
| <b>ISF190E</b> | <b>UNABLE TO CREATE DATASPACE</b><br><b><i>dataspace-name</i>, DSPSERV</b><br><b>RETURN CODE <i>return-code</i>,</b><br><b>REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

### Explanation

A failure has occurred trying to create the named data space. WTORs will not be displayed on the SR panel or on the Log panel.

### User response

Follow your local procedures for reporting a problem to IBM.

---

|                |  |
|----------------|--|
| <b>ISF191E</b> | <b>UNABLE TO DELETE</b><br><b>DATASPACE <i>dataspace-name</i></b><br><b>(<i>dataspace-generated-name</i>),</b><br><b>DSPSERV RETURN CODE <i>return-</i></b><br><b><i>code</i>, REASON CODE <i>reason-code</i>.</b> |
|----------------|--|

---

### Explanation

A failure has occurred trying to delete the named data space.

### User response

Follow your local procedures for reporting a problem to IBM.

---

|                |  |
|----------------|--|
| <b>ISF192E</b> | <b>DATA NOT AVAILABLE, <i>module</i></b><br><b>RETURN CODE <i>return-code</i>,</b><br><b>REASON CODE <i>reason-code</i>.</b><br><b><i>additional-information</i></b> |
|----------------|--|

---

### Explanation

A request for data could not be satisfied. The request failed with the indicated return and reason codes from the indicated module. If appropriate, additional information, *additional-information*, is added.

### User response

Use the return and reason code for the indicated module, and *additional-information* if it is included, to diagnose the error.

If *additional-information* refers to the SRB, retry the request.

For information about RMF return and reason codes, refer to [z/OS Resource Measurement Facility Messages and Codes](#).

---

|                |  |
|----------------|--|
| <b>ISF193E</b> | <b>DATA NOT AVAILABLE, <i>module</i></b><br><b>SECURITY ERROR, RETURN</b><br><b>CODE <i>return-code</i>, REASON CODE</b><br><b><i>reason-code</i>.</b> |
|----------------|--|

---

### Explanation

A request for data could not be satisfied because of SAF security. The request failed with the indicated return and reason codes from the module *module*.

### User response

If you have been denied access in error, contact your security administrator.

Use the return and reason code for the indicated module to diagnose the error.

For information about RMF return and reason codes, refer to [z/OS Resource Measurement Facility Messages and Codes](#).

---

|                |   |
|----------------|---|
| <b>ISF194E</b> | <b>INVOCATION OF IRXEXEC FAILED</b><br><b>PROCESSING EXEC <i>exec-name</i>,</b><br><b>RETURN CODE <i>return-code</i>.</b> |
|----------------|---|

---

### Explanation

An unexpected error occurred after invocation of the IRXEXEC interface in response to a % action character. The message contains the return code from IRXEXEC.

### User response

Examine the return code and associated system messages, if any. For more information on the return codes from IRXEXEC, refer to [z/OS TSO/E REXX Reference](#).

---

|                |                                    |
|----------------|------------------------------------|
| <b>ISF195I</b> | <b>REXX EXEC <i>exec-name</i>.</b> |
|----------------|------------------------------------|

---

### Explanation

The REXX exec *exec-name* ended without returning a return code.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF196I</b> | <b>REXX EXEC <i>exec-name</i> ENDED,<br/>RETURN CODE <i>return-code</i>.</b> |
|----------------|--|

---

### Explanation

The REXX exec *exec-name* ended with the indicated return code.

### User response

Respond as appropriate, based on the return code.

---

|                |   |
|----------------|---|
| <b>ISF197E</b> | <b>UNABLE TO INVOKE EXEC <i>exec-name</i>, NEITHER SYSPROC NOR<br/>SYSEXEC ALLOCATED.</b> |
|----------------|---|

---

### Explanation

A % action character was issued to invoke a REXX exec against a row in a table, but neither the SYSEXC nor SYSPROC DD was allocated. The data set containing the exec must be allocated to either SYSEXEC or SYSPROC.

### User response

Allocate the data set containing the exec to either SYSEXEC or SYSPROC.

---

|                |  |
|----------------|--|
| <b>ISF198E</b> | <b>UNABLE TO INVOKE EXEC <i>exec-name</i>, EXEC NOT FOUND.</b> |
|----------------|--|

---

### Explanation

A % action character was issued to invoke a REXX exec, *exec-name*, against a row in a table. No data sets allocated to SYSEXC or SYSPROC contain a member with that name.

### User response

If the exec name was entered incorrectly, try the % action character again with the correct name. If the exec name is correct, ensure that the data set containing the exec is allocated to SYSEXEC or SYSPROC.

---

|                |   |
|----------------|---|
| <b>ISF199E</b> | <b>ABEND <i>abend-code</i> REASON<br/>CODE <i>reason-code</i> OCCURRED<br/>PROCESSING REXX EXEC <i>exec-name</i>, EXEC STOPPED.</b> |
|----------------|---|

---

### Explanation

An abend occurred in processing a REXX exec, *exec-name*. Process of the exec stopped.

### User response

Use the abend code and reason code to diagnose the problem.

---

|                |  |
|----------------|--|
| <b>ISF300E</b> | <b>MODIFY COMMAND IGNORED DUE<br/>TO ERRORS.</b> |
|----------------|--|

---

### Explanation

The text of an operator MODIFY command *command* was not recognized.

### User response

Correct the command and retry the request.

**Descriptor code:**  
5

---

|                |   |
|----------------|---|
| <b>ISF301E</b> | <b><i>value</i> WAS EXPECTED IN<br/>COMMAND POSITION <i>position</i><br/>BEFORE <i>keyword</i>.</b> |
|----------------|---|

---

### Explanation

A value, *value*, was missing in the indicated position in the command.

### User response

Correct the command and retry the request.

**Descriptor code:**  
5

---

|                |  |
|----------------|--|
| <b>ISF302E</b> | <b><i>value</i> WAS SEEN IN COMMAND<br/>POSITION <i>position</i> WHERE ONE<br/>OF THE FOLLOWING WAS<br/>EXPECTED: <i>valid-values</i>.</b> |
|----------------|--|

---

### Explanation

An invalid value, *value*, was found at the indicated position in the command.

### User response

Correct the command using one of the listed valid values.

**Descriptor code:**  
5

---

|                |  |
|----------------|--|
| <b>ISF303E</b> | <b>MODIFY COMMAND TEXT<br/>MISSING, COMMAND IGNORED.</b> |
|----------------|--|

---

### Explanation

The MODIFY command was entered without required command text. The command is ignored.

### User response

Correct the command and retry the request.

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF304I</b> | <b>MODIFY <i>parameter</i> COMMAND ACCEPTED.</b> |
|----------------|--|

---

### Explanation

The indicated parameter of the MODIFY command was accepted for processing.

### User response

None required.

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF305E</b> | <b>ABEND <i>abend-code</i> OCCURRED PROCESSING MODIFY COMMAND.</b> |
|----------------|--|

---

### Explanation

An abend occurred in processing the MODIFY command. The command is not executed.

### User response

Use the abend code to diagnose the problem.

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF306E</b> | <b>MODIFY <i>command</i> COMMAND IGNORED DUE TO AUTHORIZATION FAILURE.</b> |
|----------------|--|

---

### Explanation

A MODIFY command could not be processed because SAF checking has determined that the user is not authorized to issue the command.

### User response

If you have been denied access in error, refer to [“User authorization” on page 461](#) for more information.

**Routing code:**

2, 9

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF307E</b> | <b>MODULE <i>module</i> NOT FOUND.</b> |
|----------------|--|

---

### Explanation

A MODIFY D,MODULE command was issued for a module, but the module could not be located.

### User response

Verify that the module name was entered correctly. The module must be accessible or currently loaded by SDSF.

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF308E</b> | <b>"<i>value</i>" WAS SEEN IN COMMAND POSITION <i>position</i> BUT NOT EXPECTED.</b> |
|----------------|--|

---

### Explanation

An invalid value, *value*, was found at the indicated position in the command. The command is not processed.

### User response

Correct the command.

---

|                |   |
|----------------|---|
| <b>ISF309E</b> | <b>Operator command rejected, not issued to main SDSF server.</b> |
|----------------|---|

---

### Explanation

An operator command was issued to the SDSFAUX address space. This is not supported. All SDSF operator commands must be issued to the main SDSF server address space.

### User response

Re-issue the command to the main SDSF server address space. If you are trying to stop the SDSFAUX address space, you must use the **F SDSF,P AUX** command instead of **P SDSFAUX**.

**Descriptor code:**

5

---

|                |  |
|----------------|--|
| <b>ISF310I</b> | <b><i>server-name</i> COMMUNICATIONS ID SERVER STATUS<br/>SYSTEM JESN MEMREQSPROC<br/><i>requests-processed</i>BER<br/><i>id server status</i><br/><i>system jesn member</i><br/>QMGR: <i>qmgr</i> REQUESTQ: <i>server-q</i><br/>QMGR: <i>qmgr</i> CLIENTQ: <i>client-q</i><br/>CLUSTER/CLUSTERNL: <i>cluster-name</i></b> |
|----------------|--|

---

Explanation

Information about communication between SDSF servers is displayed in response to an operator command:

- id**  
an identifier associated with the server
- server**  
name of the server
- status**  
status of the server
- system**  
system on that the server is processing
- jesn**  
JES2 subsystem for which the server gathers data
- member**  
member of the MAS for the JES2 subsystem
- requests-processed**  
number of requests processed
- qmgr**  
name of the WebSphere MQ queue manager
- server-q**  
name of the server request queue (shown only for the local server). The server request queue is used by the local server to get requests from the remote servers.
- client-q**  
name of the client request queue. The client request queue is used by the client to send messages to the local server, and by the local server to send messages to the remote servers.
- cluster-name**  
name of the WebSphere MQ cluster or cluster name-list

User response

None required.

|         |                                   |
|---------|-----------------------------------|
| ISF311I | SERVER COMMUNICATIONS NOT ACTIVE. |
|---------|-----------------------------------|

Explanation

A command to display information about server communication was issued, but communication between SDSF servers is not active.

User response

None required.

Descriptor code:  
5

|         |                     |
|---------|---------------------|
| ISF312I | server-name DISPLAY |
|---------|---------------------|

SERVER STATUS: *status* DEFAULT:  
*status*  
COMMUNICATIONS: *status*  
PARMS: *member/dataset-name*  
XCF COMMUNICATIONS: *xcf-status*

Explanation

In response to an operator command, information about the status of server communications is displayed. The server status codes are:

- CloseQ**  
request queue being closed
- Connected**  
connect to queue manager complete
- Connecting**  
connect to queue manager in progress
- CreateModelQ**  
create of model queue in progress
- CreatedModelQ**  
model queue create complete
- DeleteClientQ**  
delete of client queue in progress
- DeletedClientQ**  
delete of client queue complete
- DeleteModelQ**  
delete of model queue in progress
- DisableClientQ**  
client queue being disabled
- Disconnecting**  
disconnect from queue manager in progress
- EnableClientQ**  
client queue being enabled
- EnabledClientQ**  
client queue enable complete
- Failed**  
prior initialization failed
- Inactive**  
communications not active
- OpenReqQ**  
request queue open in progress
- OpenedReqQ**  
request queue open complete
- OpenClientQ**  
client queue open in progress
- OpenedClientQ**  
client queue open complete
- SetSignal**  
event signal being set

**Signalled**

event signal complete

**Starting**

communications being started

**Stopping**

communications being stopped

**TaskInit**

task initialization in progress

**TaskTerm**

task termination in progress

**TestComm**

test communication in progress

The **PARMS** keyword displays \*NONE\* rather than the ISFPRMxx member name when the server is started in NOPARM mode.

Values for XCF application server status, *xcf-status*, are:

**Configured**

SDSF can exploit XCF for sysplex requests

**Not Configured**

the server is not configured to use XCF for sysplex requests

**User response**

None required.

**Descriptor code:**

4, 5

---

|                |   |
|----------------|---|
| <b>ISF313I</b> | <b>server-name MODULE DISPLAY</b><br><b>NAME: name EPADDR: entry-</b><br><b>address</b><br><b>FMID: module-fmid LEVEL: apar-</b><br><b>level</b><br><b>COMDATE: date COMPTIME: time</b> |
|----------------|---|

---

**Explanation**

The service-level information for module *name*, including its compile date and time is displayed in response to a MODIFY D,MODULE command.

**User response**

None.

**Descriptor code:**

4, 5

---

|                |  |
|----------------|--|
| <b>ISF314I</b> | <b>ACCESS DENIED TO class-name/</b><br><b>resource-name LEVEL access-level</b><br><b>DUE TO SAF NO DECISION.</b> |
|----------------|--|

---

**Explanation**

An attempt to access the resource *resource-name* protected by SAF class *class-name* with a requested access level of *access-level* has been denied. The SAF authorization check has resulted in a no-decision (indeterminate) result and SDSF has consequently failed the request.

**User response**

In the JES3 environment, all resources must be protected through SAF. It may be necessary to define profiles so that the named resources can be accessed.

---

|                |  |
|----------------|--|
| <b>ISF315I</b> | <b>server-name XCF</b><br><b>COMMUNICATIONS</b><br><b>APPLICATION SERVER NAME:</b><br><b>name</b><br><b>TASKS ACTIVE: nnn IDLE: nnn</b><br><b>SENDS: count RECEIVES: count</b> |
|----------------|--|

---

**Explanation**

In response to a display communications command, XCF communications data is displayed. *name* is the application server name being used by SDSF for XCF communications. A task is active if it is actively processing a request. An idle task is waiting for work. The send and receive counts indicate the number of messages sent or received by the server. The count is scaled using the K, M, G, T, and P characters or all asterisks if the count exceeds the space available.

**User response**

None.

**Descriptor code:**

4, 5

---

|                |  |
|----------------|--|
| <b>ISF322E</b> | <b>"value" was seen in statement</b><br><b>where one of the following was</b><br><b>expected: expected-values.</b> |
|----------------|--|

---

**Explanation**

During parsing of a *statement*, an unexpected "value" was found. The acceptable values are listed in *expected-values*. The parsing failed.

**User response**

Correct the statement in error and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF349I</b> | <b>SDSF Sysplex Systems sysname</b><br><b>version status</b> |
|----------------|--|

---



## Explanation

This message is issued in response to the **F SDSF,D SYS** operator command and shows the list of known systems in the sysplex. The z/OS operating system level is displayed (if known) in addition to the sysplex status of the system. Note that if the z/OS operating system level is not displayed, then the CFRM couple data sets will require reformatting to enable the required enhanced record format.

## User response

None.

---

|                |  |
|----------------|--|
| <b>ISF351I</b> | <b>SDSF JES Subsystems <i>Sysname</i><br/>JES Version Status</b> |
|----------------|--|

---

## Explanation

In response to a **F SDSF,D JES** operator command, SDSF displays information about each JES subsystem in the MAS. The fields in the response are as follows:

- *Sysname* - System name for JES subsystem.
- *JES* - JES subsystem name.
- *Version* - JES level.
- *Status* - Status of the subsystem.

This command and response are intended for use by IBM service personnel.

## User response

None.

---

|                |   |
|----------------|---|
| <b>ISF352I</b> | <b>SDSF Connected Users <i>jobname</i><br/>ASID TCB connect group sessionID</b> |
|----------------|---|

---

## Explanation

In response to a **F SDSF,D USER** operator command, SDSF displays information about each connected user. The fields in the response are as follows:

- *jobname* - Job name for the user.
- *ASID* - Hexadecimal address space ID.
- *TCB* - TCB address of the task that performed the connect.
- *connect* - Date stamp of the connect (yyyy/mm/dd-hh:mm:ss).
- *group* - SDSF group name assigned to the user.
- *sessionID* - The internal session ID.

## User response

None.

---

|                |   |
|----------------|---|
| <b>ISF353I</b> | <b>SDSF Tasks <i>Task TCB Jobname</i><br/>Samples CPU</b> |
|----------------|---|

---

## Explanation

In response to a **F SDSF,D TASK** operator command, SDSF displays information about the CPU consumption of each server task. The fields in the response are as follows:

- *Task* - The server task name.
- *TCB* - The task TCB address.
- *Jobname* - Jobname of the SDSF server where the task is running.
- *Samples* - The number of performance samples.
- *CPU* - The amount of CPU consumed by the task (seconds).

## User response

None.

---

|                |  |
|----------------|--|
| <b>ISF354I</b> | <b>SDSF Services <i>name total first last</i><br/>diag</b> |
|----------------|--|

---

## Explanation

This message is issued in response to an **F SDSF,D SERV** command. SDSF displays information about each data collection service that has been requested.

### *name*

The name of the SDSF command/service requested.

### *total*

The total number of requests issued since SDSF server start.

### *first*

The date and time of the first request (yyyy/mm/dd-hh:mm:ss).

### *last*

The date and time of the most recent request (yyyy/mm/dd-hh:mm:ss).

### *diag*

Internal diagnostic field for IBM.

## User response

None.

---

|                |   |
|----------------|---|
| <b>ISF355I</b> | <b>SDSF XCF Communications<br/>Application server name:<br/><i>servername Name TCB RecvReq</i><br/><i>RecvData SendReq SendData</i></b> |
|----------------|---|

---

### Explanation

In response to a **F SDSF,D COMM,DETAIL** command, SDSF displays information about each XCF communications task. The fields in the response are as follows:

- *Name* - Task name.
- *TCB* - TCB address of the task.
- *RecvReq* - Total number of IXCRECV requests.
- *RecvData* - Total bytes received.
- *SendReq* - Total number of IXCSEND requests.
- *SendData* - Total bytes sent.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF356I</b> | <b>SDSF Exits <i>Name EPA Invoke</i><br/><i>Normal Return Abend</i></b> |
|----------------|---|

---

### Explanation

In response to an **F SDSF,D EXIT** operator command, SDSF displays information about its exits and ENF routines. The fields in the response are as follows:

- *Name* - Exit routine name.
- *EPA* - Entry point address.
- *Invoke* - Number of times the exit has been driven.
- *Normal* - Number of normal execution responses.
- *Return* - Number of times the exit returned normally.
- *Abend* - Number of times the exit abended and recovered.

### User response

None.

---

|                |                                      |
|----------------|--------------------------------------|
| <b>ISF361I</b> | <b>SDSF Command Help <i>text</i></b> |
|----------------|--------------------------------------|

---

### Explanation

This message is issued in response to the **F SDSF,HELP** operator command to list the syntax of all SDSF operator commands.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF362I</b> | <b>SDSF MFM STATISTICS<br/>LIMIT: <i>limit</i> CURRENT DURATION:<br/><i>duration</i><br/>function count <i>first last</i></b> |
|----------------|---|

---

### Explanation

In response to the **F SFSF,D MFM** operator command, SDSF displays information about the Module Fetch Monitor data collection status and statistics. The fields in the response are as follows:

#### Limit

The maximum number of modules stored in SDSF internal tables.

#### Duration

The current duration of the MFM data gathering session (*ddd:hh:mm:ss*).

#### Function

The MFM function name.

#### Count

The count of the function.

#### First

The date stamp of the first occurrence (*yyyy/mm/dd-hh:mm:ss*).

#### Last

The date stamp of the last occurrence (*yyyy/mm/dd-hh:mm:ss*).

### User response

No action is required.

---

|                |  |
|----------------|--|
| <b>ISF363I</b> | <b>Feature <i>name</i> already active,<br/>START command ignored</b> |
|----------------|--|

---

### Explanation

An attempt to start the named feature was ignored because it was already active.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF364I</b> | <b>Feature <i>name</i> not active, STOP<br/>command ignored</b> |
|----------------|---|

---

### Explanation

An attempt to stop the named feature was ignored because it was already inactive.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF365I</b> | <b>Feature <i>name</i> activated on system<br/><i>sysname</i></b> |
|----------------|---|

---

### Explanation

The named feature has been activated on the indicated system either in response to an operator

MODIFY command to the SDSF server or automatically issued at startup.

User response

None.

**ISF366I**      **FEATURE *name* INACTIVATED ON  
SYSTEM *sysname***

Explanation

The named feature has been inactivated on the indicated system either in response to an operator MODIFY command to the SDSF server or automatically issued at startup.

User response

None.

**ISF367I**      **FEATURE *name* IS NOT ACTIVE ON  
SYSTEM *sysname***

Explanation

The operator issued a MODIFY command to the SDSF server to display information about the indicated feature. However, the feature is not currently active.

User response

Start the feature and reissue the DISPLAY command.

**ISF368E**      **FEATURE *name* operation FAILED  
RC=*return-code* RSN=*reason-code***

Explanation

A failure occurred during the named operation for the indicated feature.

User response

Contact IBM Software Support.

**ISF375I**      **SDSF Environment Counts  
Env Count First Last**

Explanation

This message displays information about the environments in which SDSF might be run. The environment is listed in the Env column. The Count column lists the number of times that SDSF was accessed from that environment since SDSF started. The First and Last columns show the first and last times that SDSF was accessed from the environment since SDSF started.

User response

No action is required.

**ISF401I**      **SERVER *server-name*  
COMMUNICATIONS  
INITIALIZATION IN PROGRESS.**

Explanation

The communications between SDSF servers is being initialized.

User response

None required.

**Descriptor code:**  
3

**ISF402I**      **SERVER *server-name*  
COMMUNICATIONS READY.**

Explanation

Initialization of communications for the indicated SDSF server has completed successfully. The server is ready to begin communications with other SDSF servers.

User response

None required.

**ISF403E**      **SERVER *server-name*  
COMMUNICATIONS  
INITIALIZATION FAILED,  
COMMUNICATIONS NOT  
AVAILABLE.**

Explanation

Communications for the indicated SDSF server did not initialize successfully. The server is not ready to begin communications with other SDSF servers.

User response

See associated messages for an explanation of the error.

**Descriptor code:**  
7, 11

**ISF404I**      **SERVER *server-name*  
COMMUNICATIONS STOPPED.**

Explanation

Communications for the indicated server was stopped. Communications is no longer available.

## User response

Correct your server group definition in ISFPARMS and refresh them.

---

|                |   |
|----------------|---|
| <b>ISF405I</b> | <b>SERVER <i>server-name</i><br/>COMMUNICATIONS IN USE,<br/>SERVERGROUP DEFINITION<br/>UNCHANGED.</b> |
|----------------|---|

---

## Explanation

An attempt was made to modify the server group in ISFPARMS after the ISFPARMS were already being processed by the SDSF server. The request is ignored.

## User response

None required. You cannot change the properties of a server group defined in ISFPARMS after the server has begun processing the ISFPARMS. To change the properties of the server group, first stop the server with the STOP command.

---

|                |   |
|----------------|---|
| <b>ISF406I</b> | <b>SERVER <i>server-name</i><br/>COMMUNICATIONS WAITING FOR<br/>CONNECTION.</b> |
|----------------|---|

---

## Explanation

Communications for the indicated server are waiting for a connection. The server cannot communicate with other servers in the group, and data from that server will not be included on the SDSF panels. It may be that WebSphere MQ is not active.

## User response

See accompanying messages for more information. If WebSphere MQ is not active, start it.

### Descriptor code:

7, 11

---

|                |  |
|----------------|--|
| <b>ISF407I</b> | <b>SERVER <i>server-name</i><br/>COMMUNICATIONS WAITING FOR<br/>ACCESS TO REQUEST QUEUE.</b> |
|----------------|--|

---

## Explanation

During communications initialization, the server detected that the request queue name was in use. The server requires exclusive control of the request queue. Initialization will wait until the queue name is available. If the server has been recycled, there might be a delay until the queue manager marks the queue as being available.

The server will periodically try the failing request until the queue name is accessed.

## User response

See accompanying messages for more information. Verify that the queue name is not in use by any other application.

### Descriptor code:

7, 11

---

|                |   |
|----------------|---|
| <b>ISF408I</b> | <b>SERVER <i>server-name</i> DEFINING<br/>OBJECT <i>object-name</i> ON QUEUE<br/>MANAGER <i>queue-manager-name</i>.</b> |
|----------------|---|

---

## Explanation

SDSF is attempting to define an object using the named queue manager.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF409E</b> | <b>SERVER <i>server-name</i> UNABLE TO<br/>DEFINE OBJECT <i>object-name</i> ON<br/>QUEUE MANAGER <i>queue-manager-<br/>name</i>.</b> |
|----------------|--|

---

## Explanation

SDSF was unable to define the indicated object on the named WebSphere MQ queue manager.

## User response

See additional messages for more information.

---

|                |   |
|----------------|---|
| <b>ISF410I</b> | <b>SERVER <i>server-name</i> HAS<br/>DEFINED OBJECT <i>object-name</i> ON<br/>QUEUE MANAGER <i>queue-manager-<br/>name</i>.</b> |
|----------------|---|

---

## Explanation

SDSF defined the indicated object on the named WebSphere MQ queue manager.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF411I</b> | <b>RESPONSE FROM <i>queue-manager</i>:<br/><i>response-text</i>.</b> |
|----------------|--|

---

## Explanation

The SDSF server has invoked the WebSphere MQ system command interface to perform an administrative request, such as creating a queue. The queue manager has responded with the indicated text.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF412I</b> | <b>COMMUNICATIONS WITH SERVER</b><br><b><i>server-name</i> SYSTEM <i>system-name</i></b><br><b>STOPPED.</b> |
|----------------|---|

---

## Explanation

Communications has been stopped with the indicated server in the server group. Requests will no longer be forwarded to the server for processing.

## User response

Use the start communications command to resume processing for the server.

**Descriptor code:**  
7, 11

---

|                |   |
|----------------|---|
| <b>ISF413E</b> | <b>SERVER ID <i>server-id</i> NOT</b><br><b>PROCESSED, SERVER NOT FOUND</b><br><b>IN SERVERGROUP.</b> |
|----------------|---|

---

## Explanation

A command was entered to modify a server in the server group, but the server ID was not recognized. The command is not processed.

## User response

Retry the command with the correct server ID. To display the server ID, use the server operator command `F server-name, DISPLAY,C`.

**Descriptor code:**  
5

---

|                |  |
|----------------|--|
| <b>ISF414I</b> | <b>SERVER <i>server-name</i> SYSTEM</b><br><b><i>system-name</i> NOT PROCESSED,</b><br><b>SERVER NOT FOUND IN</b><br><b>SERVERGROUP.</b> |
|----------------|--|

---

## Explanation

A command was entered to modify a server in the server group, but the server and system name patterns did not match any server. The command is not processed.

## User response

Retry the command with the correct server ID. To display the server and system names, use the server operator command:

```
F server-name, DISPLAY,C.
```

## Descriptor code:

5

---

|                |   |
|----------------|---|
| <b>ISF415I</b> | <b>SERVER <i>server-name</i> SYSTEM</b><br><b><i>system-name</i> STARTED, CURRENT</b><br><b>STATUS IS <i>status-text</i>.</b> |
|----------------|---|

---

## Explanation

A server with the indicated name has been started. The status of the server is *status-text*.

## User response

None required.

**Descriptor code:**  
5

---

|                |  |
|----------------|--|
| <b>ISF416I</b> | <b>SERVER <i>server-name</i></b><br><b>COMMUNICATIONS WILL BE</b><br><b>RESTARTED.</b> |
|----------------|--|

---

## Explanation

Communications with *server-name* is being restarted. A restart may have been necessary because the connection was broken or was quiescing. Additional messages will be issued indicating when the restart is complete.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF417I</b> | <b>SERVER <i>server-name</i></b><br><b>COMMUNICATIONS STOPPING.</b> |
|----------------|---|

---

## Explanation

Communications is ending for *server-name*. No additional sysplex requests will be processed.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF418I</b> | <b>COMMAND TO <i>queue-manager-</i></b><br><b><i>name</i>: <i>command-text</i></b> |
|----------------|--|

---

## Explanation

The indicated queue manager administrative command is being sent to the queue manager for processing.

## User response

None required.

---

**ISF420I**            **SERVER *server-name* DELETING OBJECT *object-name* ON QUEUE MANAGER *queue-manager-name*.**

---

### Explanation

The SDSF server is deleting the indicated WebSphere MQ object on queue manager *queue-manager-name*, because QDELETE(YES) was specified on the COMM statement in ISFPARMS for the server. The object was originally created by the SDSF server.

### User response

None required.

---

**ISF421I**            **SERVER *server-name* HAS DELETED OBJECT *object-name* ON QUEUE MANAGER *queue-manager-name*.**

---

### Explanation

The SDSF server has deleted the indicated WebSphere MQ object on queue manager *queue-manager-name*. The object was originally created by the SDSF server.

### User response

None required.

---

**ISF422E**            **SERVER *server-name* UNABLE TO DELETE OBJECT *object-name* ON QUEUE MANAGER *queue-manager-name*.**

---

### Explanation

The indicated WebSphere MQ object was not deleted by the SDSF server because the object was in use by WebSphere MQ. The server attempted to delete the object because QDELETE(YES) was specified on the COMM statement of ISFPARMS.

### User response

See additional messages in the server joblog for more information.

---

**ISF423I**            **SERVER *server-name* COMMUNICATIONS WAITING FOR ACCESS TO CLIENT REQUEST QUEUE.**

---

### Explanation

During communications initialization, the SDSF server detected that the client request queue was in use. The server requires exclusive control of the client request

queue. Initialization will wait until the queue name is available. If the server has been recycled, there might be a delay until the queue manager marks the queue as being available.

The server will periodically try the failing request until the queue name is accessed.

### User response

None required.

**Descriptor code:**  
7, 11

---

**ISF424E**            **SERVER *server-name* UNABLE TO DEFINE OBJECT *object-name* ON QUEUE MANAGER *queue-manager-name*, OBJECT ALREADY EXISTS.**

---

### Explanation

The SDSF server was unable to create the indicated WebSphere for MQ object on the named queue manager because the object already exists.

### User response

To have the object redefined by the server, specify QREPLACE(YES) on the COMM statement for the server in ISFPARMS.

---

**ISF425I**            **SERVER *server-name* CLIENT QUEUE *queue-name* HAS A TARGET OF *target-queue-name* THAT DIFFERS FROM THE REQUEST QUEUE NAME OF *request-queue-name*.**

---

### Explanation

During communications initialization, the SDSF server has detected that the client request queue has been defined with a target queue that differs from the expected name. The client request queue should be a queue alias for the server request queue. Processing continues. However, the server may not receive messages sent to the client queue because the target does not match.

### User response

To have the server redefine the client request queue, specify QREPLACE(YES) on the COMM statement of ISFPARMS for the server.

---

**ISF426E**            **SERVER *server-name* CLIENT QUEUE *queue-name* CONFIGURED FOR CLUSTER *cluster-name* BUT**

---

**QUEUE DEFINED FOR CLUSTER  
*cluster-name-two*.**

**Explanation**

The SDSF server has detected an inconsistency in the definition of WebSphere MQ queue *queue-name*. The cluster name specified on the COMM statement of ISFPARMS does not match the cluster attribute for the queue. The cluster name specified for the SDSF server in ISFPARMS must match the name associated with the queue. Communications initialization failed.

**User response**

Check that the cluster name on the COMM statement is correct. To have the server redefine the queue, use the QREPLACE(YES) option of the COMM statement.

---

|                |   |
|----------------|---|
| <b>ISF427E</b> | <b>SERVER <i>server-name</i> CLIENT<br/>QUEUE <i>queue-name</i> CONFIGURED<br/>FOR CLUSTER NAMELIST <i>comm-<br/>namelist-name</i> BUT QUEUE<br/>DEFINED FOR CLUSTER NAMELIST<br/><i>queue-namelist-name</i>.</b> |
|----------------|---|

---

**Explanation**

The SDSF server has detected an inconsistency in the definition of WebSphere MQ queue *queue-name*. The cluster namelist specified on the COMM statement of ISFPARMS does not match the cluster attribute for the queue. The cluster namelist specified for the SDSF server in ISFPARMS must match the namelist associated with the queue. Communications initialization failed.

**User response**

Check that the cluster namelist on the COMM statement is correct. To have the server redefine the queue, specify QREPLACE(YES) on the COMM statement in ISFPARMS.

---

|                |   |
|----------------|---|
| <b>ISF428I</b> | <b>SERVER <i>server-name</i> UNABLE TO<br/>DISABLE OBJECT <i>object-name</i>.</b> |
|----------------|---|

---

**Explanation**

During server termination, a communications error prevented the server from disabling *object-name*. An object is disabled to prevent subsequent requests from being directed to it. Server communications continues.

Other servers in the server group may continue to send requests to this server. This may result in delays because the requests will timeout rather than being rejected immediately.

**User response**

Use any additional error messages issued by the server to determine the cause of the problem.

---

|                |   |
|----------------|---|
| <b>ISF429I</b> | <b>SERVER <i>server-name</i> NOT<br/>DEFINING OBJECT <i>object-name</i>,<br/>QUEUE DEFINITION PROHIBITED.</b> |
|----------------|---|

---

**Explanation**

The server is not defining *object-name* because the QDEFINE initialization option has been specified as NO. Initialization continues. However, if *object-name* is required by the server but has not already been defined, initialization may fail.

**User response**

You can change the QDEFINE initialization option on the COMM statement of ISFPARMS.

**Note:** The COMM statement is obsolete as of z/OS V2R3 because WebSphere MQ support is removed. The statement is accepted but not syntax checked. A diagnostic message is issued to the log.

---

|                |   |
|----------------|---|
| <b>ISF432E</b> | <b>SETTINGS DESCRIPTOR COLUMNS<br/>LENGTH <i>length</i> EXCEEDS<br/>MAXIMUM LENGTH OF <i>maximum-<br/>length</i>.</b> |
|----------------|---|

---

**Explanation**

The columns list provided in the settings descriptor is too long and exceeds the maximum length. The columns list is ignored. An external call environment is used by the SDSF CIM provider.

**User response**

Follow your local procedures for contacting IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF433I</b> | <b>SERVER <i>server-name</i> XCF<br/>CONNECTION ESTABLISHED<br/>AS SERVER <i>xcf-application-server-<br/>name</i>.</b> |
|----------------|--|

---

**Explanation**

The SDSF server *server-name* has identified itself as *xcf-application-server-name* and is ready to process requests using XCF.

**User response**

None.

---

|                |  |
|----------------|--|
| <b>ISF434I</b> | <b>SERVER <i>server-name</i><br/>CONNECTION WITH XCF<br/>STOPPING.</b> |
|----------------|--|

---

### Explanation

The SDSF server *server-name* is stopping communication with XCF.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF435I</b> | <b>SERVER <i>server-name</i><br/>CONNECTION WITH XCF<br/>STOPPED.</b> |
|----------------|---|

---

### Explanation

The SDSF server *server-name* has stopped communication with XCF.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF436E</b> | <b>NO SYSTEMS SATISFY SYSTEM<br/>NAME FILTER. USE THE SYSNAME<br/>COMMAND TO CHANGE THE<br/>VALUE.</b> |
|----------------|--|

---

### Explanation

A request for sysplex data has been processed but the current SYSNAME value does not match any system in the sysplex. The request is not processed.

### User response

Use the SYSNAME command to change the system names that will be processed.

---

|                |  |
|----------------|--|
| <b>ISF437I</b> | <b>DATA NOT AVAILABLE FROM<br/>SYSTEMS: <i>system-name-list</i>.</b> |
|----------------|--|

---

### Explanation

A sysplex request has been sent but was not completed because one or more systems could not process it. Results will be shown for the systems that were able to respond.

This condition can occur when the target system level is not at the level required by the requestor, the data returned by the system is out of date, or the timeout interval has been exceeded.

Data for a system may be out of date if SDSFAUX is not active or the required data gatherer is stopped. When the system is out of date, data from the last data

gathering interval will be shown. An asterisk will be appended to the system name in the *system-name-list* to identify the system.

### User response

If the systems are not at the required level, no action is necessary. However, the request cannot be completed until all systems are at the required level.

If the system is out of date, ensure SDSFAUX is active and that all required data gatherer tasks are running. An SDSFAUX restart may be required.

If the timeout interval has been exceeded, issue the **SET TIMEOUT** command to change the interval and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF438I</b> | <b>XCF SERVER NAME <i>server-name</i><br/>NOT PROCESSED SINCE SERVER<br/><i>xcf-application-name</i> ALREADY<br/>ACTIVE.</b> |
|----------------|--|

---

### Explanation

A request to start XCF communications using *server-name* has not been processed because SDSF is already connected to the XCF application server *xcf-application-name*. *server-name* cannot be changed while the application server is active.

### User response

Stop SDSF XCF communications and then retry the request.

---

|                |  |
|----------------|--|
| <b>ISF439I</b> | <b>SERVER <i>server-name</i> XCF<br/>CONNECTION ALREADY<br/>ESTABLISHED AS SERVER <i>xcf-</i><br/><i>application-name</i>.</b> |
|----------------|--|

---

### Explanation

SDSF server *server-name* has processed a request to start XCF communications, but the application server is already active as *xcf-application-name*.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF440I</b> | <b>XCF SERVER <i>xcf-application-name</i><br/>CANNOT BE UNDEFINED SINCE IT<br/>IS ALREADY ACTIVE.</b> |
|----------------|---|

---

### Explanation

While processing a command to refresh ISFPRMxx, SDSF encountered a CONNECT statement that defines XCFSRVNM(NONE) to disable the use of XCF. However,



the XCF application server is already active. The refresh is processed but there is no change to the XCF status.

### User response

To undefine XCF, stop communications prior to the refresh or restart the server.

---

**ISF441E**      **DATA NOT AVAILABLE FROM ANY SYSTEM.**

### Explanation

A request for sysplex data has been made, but no systems have responded within the timeout interval. The systems may be busy or unable to process the request.

### User response

Review the timeout interval specified with the SET TIMEOUT command and retry the request.

---

**ISF442I**      **SERVER *server-name* XCF COMMUNICATIONS READY.**

### Explanation

SDSF is ready to accept sysplex requests using XCF. *server-name* is the name of the SDSF server.

### User response

None.

---

**ISF443I**      **DATA NOT AVAILABLE FROM SYSTEM *system-name*, system level too low.**

### Explanation

A sysplex request has been sent but could not be completed because the target system level is too low. The level of the target system is not at the level required by the requestor, so no data is returned.

### User response

None required. However, the request cannot be completed until the system is at the required level.

---

**ISF450I**      **SERVER *server-name* starting *sdsfaux-name***

### Explanation

SDSF server *server-name* has determined that the SDSFAUX address space is not active and is starting *sdsfaux-name*.

### User response

No response is required.

---

**ISF451I**      **SERVER *server-name* stopping *sdsfaux-name***

### Explanation

During the shutdown of SDSF server *server-name*, SDSF has determined that SDSFAUX address space is active and is stopping *sdsfaux-name*.

### User response

No response is required.

---

**ISF452E**      **SDSFAUX COMMUNICATIONS FAILED, RETURN CODE *0xreturn-code*, REASON CODE *0xreason-code*, function *function-name*, additional information**

### Explanation

An internal SDSF request (*function-name*) has been sent to the SDSFAUX address space but has failed with the indicated return and reason code in hexadecimal. If available, additional information may be provided that describes the error.

The return code is as follows:

| Return code (hexadecimal) | Description       |
|---------------------------|-------------------|
| 00                        | Success           |
| 04                        | Warning           |
| 08                        | Error             |
| 0C                        | Environment error |
| 10                        | Severe error      |
| 14                        | Fatal error       |
| 18                        | Abend detected    |

The *reason-code* is of the form xxxrrrr where xxxx is an internal identifier for the module that has detected the error and rrrr is the reason code. The *reason-code* is as follows:

| Reason code<br>(hexadecimal) | Description       | Response   |
|------------------------------|-------------------|--|
| xxxx0406                     | Not ready         | A request could not be processed because the SDSF server is initializing or ISFPRMxx has not yet been activated. Reaccess SDSF and try the request later.  |
| xxxx040A                     | Results truncated | SDSF was unable to complete all data gathering requests because too much data was returned. Refine your request if possible and retry.   |
| xxxx040C                     | Not started       | SDSF was unable to complete all data gathering requests because a required MVS service or component was not started.<br><br>For the CSR panel, ensure that VSM CSA and SQA storage tracking are active.<br><br>For the GT panel, ensure that the generic tracker is tracking events. |
| xxxx0410                     | Partial results   | SDSF was unable to complete all data gathering requests because too much data was  |

| Reason code<br>(hexadecimal) | Description       | Response   |
|------------------------------|-------------------|--|
|                              |                   | returned. Refine your request if possible and retry.   |
| xxxx0411                     | Partial results   | SDSF was unable to complete all data gathering requests because too much data was returned. Refine your request if possible and retry. |
| xxxx0412                     | RMF required      | SDSF was unable to complete a data gathering request because RMF is required. Verify that RMF Monitor I is active.                     |
| xxxx0413                     | RMF not installed | SDSF was unable to complete a data gathering request because RMF is not installed. Verify that module ERBSMFI can be loaded.           |
| xxxx0415                     | Out of date       | A data gatherer task was stopped or unavailable. The results being shown may be out of date.   |
| xxxx0801                     | Not found         | Ensure that the SDSFAUX address space has been started.  |

| Reason code (hexadecimal) | Description          | Response   |
|---------------------------|----------------------|--|
| xxxx0804                  | System level too low | A request has been directed to a target system that does not support it. The system level is too low for the request.  |
| xxxx0805                  | Not active           | A request could not be completed because a required component is not active. Verify that SDSFAUX is started and active.  |
| xxxx0806                  | Access denied        | For function connect, verify user is authorized to the ISF.CONNECT. <i>system</i> resource in the SDSF class.<br><br>For other functions, enable security tracing using the SET SECTRACE command to determine the resource for which access is needed. |
| xxxx080F                  | Timeout              | A request did not complete with the timeout interval.<br><br>Some requests may be delayed if they require I/O to complete or if the system is busy. You can increase the timeout interval with the SET   |

| Reason code (hexadecimal) | Description             | Response  |
|---------------------------|-------------------------|---|
|                           |                         | TIMEOUT command.  |
| xxxx0813                  | SDSFAUX unavailable     | A request could not be processed because SDSFAUX is not started. Ensure the SDSF server is active and refresh ISFPRMxx to restart SDSFAUX.                            |
| xxxx081B                  | User ID no longer valid | SDSF was unable to complete all data gathering requests. This might happen if a valid user ID does not exist or if the user ID has been revoked in the remote system. |
| xxxx081E                  | Connect failed          | SDSF was unable to connect to the SDSF server. This may be due to the task already being connected.   |
| xxxx082F                  | Send to SDSFAUX failed  | SDSF was unable to gather remote data because the send using XCF failed. Verify that all target systems are available.  |

| Reason code (hexadecimal) | Description                         | Response  |
|---------------------------|-------------------------------------|---|
| xxxx0830                  | Receive by SDSFAUX failed           | SDSF was unable to receive results from XCF possibly because too much data was returned or a timeout occurred. Refine your request and use the SET TIMEOUT command to increase the timeout. |
| xxxx0832                  | SDSFAUX server down                 | The SDSFAUX server is down. Re-access SDSF after the server restarts and retry your request.  |
| xxxx0840                  | Bad ASID                            | The address space ID is invalid or the target job is no longer valid, possibly because the job has ended.   |
| xxxx0852                  | ASID not found                      | ASID not found in server for client, possibly because the client is no longer connected.  |
| xxxx0858                  | SDSFAUX shutdown in progress        | SDSFAUX is shutting down. Retry your request after SDSFAUX restarts.  |
| xxxx0880                  | Connect failed, no group assignment | Server connect failed because the user could not be mapped to an SDSF group.  |

| Reason code (hexadecimal) | Description                | Response  |
|---------------------------|----------------------------|---|
| xxxx0896                  | Connect failed             | Server connect failed due to failure to establish SDSF environment.                                   |
| xxxx089C                  | HZSQUERY failed            | The z/OS Health Checker service HZSQUERY has failed.  |
| xxxx089D                  | Request failed             | Client request failed because server not able to process request.                                     |
| xxxx089E                  | Request failed             | Client request failed because server not able to processed authorized service or user not authorized. |
| xxxx08A6                  | Not authorized to JES name | Server connect failed because client not authorized to requested JES name.                            |
| xxxx08A7                  | JES not available          | A request was not completed because the JES subsystem is not available.                               |
| xxxx08A8                  | JES SSI failed             | A data gathering request failed because an error was returned by the subsystem interface.             |
| xxxxabend-code            | Abend                      | The reason code is the abend code from the SDWAABCC field in the SDWA control block.                  |

| Reason code<br>(hexadecimal) | Description    | Response   |
|------------------------------|----------------|--|
| Other                        | Internal error | An internal error has occurred. Follow your local procedures for contacting IBM for support. |

### User response

Use the additional information to diagnose the error. If no information is provided or the error cannot be resolved, contact IBM Software Support.

---

**ISF453I**      *sdsfaux-name is already active*

### Explanation

During initialization of the SDSF server or a refresh of ISFPRMxx, SDSF has determined that SDSFAUX is already active and does not need to be started.

Parameters related to SDSFAUX on the CONNECT statement such as AUXPROC, AUXNAME, and AUXSAF are ignored.

### User response

If changes have been made to the CONNECT statement related to SDSFAUX, stop and start the SDSF server for the changes to take effect.

---

**ISF454I**      **jobname not active, STOP command ignored**

### Explanation

An attempt was made to stop the SDSFAUX address space using the **F SDSF, STOP AUX** operator command. The SDSF server has determined that the SDSFAUX address space is not active and has ignored the STOP command.

### User response

None.

---

**ISF455I**      **Command entered: opercmd**

### Explanation

The *opercmd* has been entered as a MODIFY command to the SDSF server. This message logs the command text in the HSFLOG DDname.

### User response

None.

---

**ISF456I**      **Jobname *jobname* stopped, processing complete**

### Explanation

During SDSF and/or SDSFAUX termination, this message is issued when main processing has stopped and just prior to the address space termination.

### User response

None.

---

**ISF458E**      **NOT AUTHORIZED TO CONNECT TO SDSF SERVER. VERIFY READ ACCESS TO THE ISF.CONNECT.system RESOURCE IN THE SDSF CLASS**

### Explanation

An attempt to connect to the SDSF server has been denied. The probable cause is the user does not have read access to the resource ISF.CONNECT.system in the SDSF SAF class. Connection to the server is required for access to SDSF functionality.

### User response

Ensure the user has access to the SAF resource that controls connection to the SDSF server. Additional messages may have been issued by your external security manager (such as RACF) that further describe the error.

---

**ISF488E**      **SDSF NOT STARTED DUE TO ERRORS IN START PARAMETERS.**

### Explanation

One or more parameters on the EXEC statement for the SDSF server was not recognized.

### User response

Correct the parameters and retry the request.

---

**ISF491E**      ***value* WAS EXPECTED IN START PARAMETER POSITION *position* BEFORE *string*.**

### Explanation

SDSF encountered an error in a parameter on the START command.

## User response

Use the position and string values to identify the parameter in error. Retry the START command with a corrected parameter.

---

|                |  |
|----------------|--|
| <b>ISF492E</b> | <b><i>value</i> WAS SEEN IN START<br/>PARAMETER POSITION <i>position</i><br/>WHERE ONE OF THE FOLLOWING<br/>WAS EXPECTED: <i>list-of-values</i>.</b> |
|----------------|--|

---

## Explanation

SDSF encountered an error in a parameter on the START command. The position of the error in the command string is indicated by *position*.

## User response

Retry the START command using one of the valid values.

---

|                |  |
|----------------|--|
| <b>ISF493I</b> | <b>ABEND <i>abend-code</i> OCCURRED<br/>PROCESSING START<br/>PARAMETERS.</b> |
|----------------|--|

---

## Explanation

An abend occurred in processing the START command. The command is executed with any parameters that were processed prior to the abend.

## User response

Use the abend code to diagnose the problem. You may want to use the MODIFY command to reset server options.

---

|                |   |
|----------------|---|
| <b>ISF511E</b> | <b>Module ISFUSER storage key not<br/>acceptable, possibly linked non-<br/>reentrant.</b> |
|----------------|---|

---

## Explanation

During connect processing, module ISFUSER was loaded but is not in key zero storage. ISFUSER must be loaded in key zero storage so that SDSF can invoke the various exit points. An abend U0201 occurs and the user connect to SDSF fails.

## User response

Verify that ISFUSER is linked reentrant and is present in the system linklist.

---

|                |   |
|----------------|---|
| <b>ISF515E</b> | <b>SDSF INITIALIZATION FAILED<br/>FOR SERVER <i>server</i>.</b> |
|----------------|---|

---

## Explanation

Initialization of server *server* failed to complete. Messages describing the reason for the failure will have been issued prior to this one.

## User response

Use the error messages issued by SDSF to determine the cause of the initialization failure.

---

|                |  |
|----------------|--|
| <b>ISF517E</b> | <b>SDSF SERVER WAS NOT<br/>STARTED DUE TO INVALID<br/>EXECUTION ENVIRONMENT,<br/>POSSIBLE MISSING PPT ENTRY.</b> |
|----------------|--|

---

## Explanation

The SDSF server could not start due to an incorrect execution environment. The server is not running in the correct protect key.

## User response

Verify that a PPT entry has been defined in your SCHEDxx member of the parmlib concatenation for program ISFHCTL.

---

|                |   |
|----------------|---|
| <b>ISF518E</b> | <b>SDSF SERVER <i>server</i> NOT<br/>STARTED, NOT ENABLED FOR<br/>EXECUTION</b> |
|----------------|---|

---

## Explanation

The SDSF server has attempted to register its invocation on a z/OS system, but the registration has failed. The server is not initialized.

## User response

If SDSF should be enabled for execution, check the IFAPRDxx member of your parmlib concatenation for an entry for SDSF.

---

|                |   |
|----------------|---|
| <b>ISF527E</b> | <b>SDSF SERVER <i>server</i> NOT<br/>STARTED, START COMMAND MUST<br/>BE USED.</b> |
|----------------|---|

---

## Explanation

An attempt was made to start the SDSF server *server* through a batch job. The server must be started with the MVS START command.

## User response

Issue the MVS START command to start the SDSF server.

---

|                |   |
|----------------|---|
| <b>ISF528E</b> | <b>SDSF SERVER <i>server</i> NOT<br/>STARTED, INVALID OPERATING<br/>SYSTEM LEVEL.</b> |
|----------------|---|

---

### Explanation

The SDSF server requires a higher level of the operating system than was found. The server was not started.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF538E</b> | <b>SDSF SERVER <i>server</i> ALREADY<br/>ACTIVE.</b> |
|----------------|--|

---

### Explanation

The START command was entered for an SDSF server that is already active. The command was ignored.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF540I</b> | <b>SERVER <i>server-name</i> ASSIGNED<br/>AS DEFAULT SERVER.</b> |
|----------------|--|

---

### Explanation

The indicated SDSF server has been made the default server. If no server is specified in the assembler ISFPARMS, users who do not explicitly state the server name on the SDSF command will connect to this server when accessing SDSF. Any server specified in ISFPARMS will be ignored.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF541I</b> | <b>SERVER <i>server-name</i><br/>UNASSIGNED AS DEFAULT<br/>SERVER.</b> |
|----------------|--|

---

### Explanation

The indicated SDSF server had been the default server but is no longer the default server. Either another server has been made the default server, or the server is terminating, or ISFPARMS has been refreshed with a different option on the CONNECT statement.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF542I</b> | <b>SERVER <i>server-name</i> NOT<br/>ASSIGNED AS DEFAULT SERVER,<br/>SERVER <i>server-default-name</i><br/>ALREADY ASSIGNED.</b> |
|----------------|--|

---

### Explanation

The indicated SDSF server, *server-name*, was not made the default server because a default server, *server-default-name*, already has been assigned.

### User response

None required. To make the server the default, regardless of whether a default has already been assigned, change the DEFAULT option on the CONNECT statement in ISFPARMS to DEFAULT(YES).

---

|                |  |
|----------------|--|
| <b>ISF543I</b> | <b>SERVER <i>server-name</i> ALREADY<br/>ASSIGNED AS DEFAULT SERVER,<br/>ASSIGNMENT UNCHANGED.</b> |
|----------------|--|

---

### Explanation

Processing ISFPARMS has resulted in no change to the default SDSF server. The indicated server, *server-name*, is the default server.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF544E</b> | <b><i>option</i> REJECTED, NOT<br/>AUTHORIZED FOR USE.</b> |
|----------------|--|

---

### Explanation

The named REXX option was rejected because the user is not authorized to use it.

### User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF546I</b> | <b>OPTIONS NOT APPLICABLE TO<br/>THE INITIAL COMMAND IGNORED.</b> |
|----------------|---|

---

### Explanation

SDSF was invoked with initial command options, but the options are not applicable to the initial panel being invoked. The initial options are ignored.

### User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF595I</b> | <b>Task <i>taskname</i> property <i>proprname</i><br/>set to <i>value</i></b> |
|----------------|---|

---

**Explanation**

During SDSFAUX task initialization, the *taskname* has set the *propname* to the indicated *value*. These properties control the performance policy for data collection task. This message appears only in the HSFLOG output.

**User response**

None.

**ISF697I**                    **Primary command "*command-name*" being used for action**

**Explanation**

An action or browse request is being processed by SDSF and the primary command *command-name* was derived from the row token. The primary command is used to access the panel to which the action or browse applies.

**User response**

No action is required.

**ISF698I**                    **Host command *command* internally changed to *modified-command*. Use of *modified-command* is recommended.**

**Explanation**

During parsing of a host command, the syntax was found to be acceptable but not completely well-formed. The parser internally changed the command to the recommended syntax.

**User response**

No action is required. It is recommended that you change your script to use the *modified-command* syntax.

**ISF699W**                    **PRINT CRITERIA DISCARDED, ATTRIBUTE "*attribute-name*" NOT VALID, DATA 0xnn..nn.**

**Explanation**

The saved print criteria have been read from the profile. However, attribute *attribute-name* has been found to be invalid and consists of the hexadecimal value *nn..nn*. The value of the attribute has been reset.

**User response**

No action is required. If the problem persists, attempt to determine why *attribute-name* contains invalid data.

**ISF701I**                    **SDSF TRACE STARTED USING TRACE MASK *trace-mask*.**

**Explanation**

In response to an operator command, the current trace mask is displayed.

**User response**

None required.

**ISF702I**                    **SERVER *server-name* DEBUG MODE IS ENABLED.**

**Explanation**

In response to an operator command, the current status for diagnostic mode is displayed.

**User response**

None required.

**ISF703I**                    **SERVER *server-name* DEBUG MODE IS DISABLED.**

**Explanation**

In response to an operator command, the current status for diagnostic mode is displayed.

**User response**

None required.

**ISF705I**                    **VARIABLE *variable-name* WAS NOT SPECIFIED BUT IS RECOMMENDED.**

**Explanation**

The special variable *variable-name* was not specified in an SDSF/REXX exec, but is recommended. Specifying a value may prevent failures such as out-of-storage conditions.

**User response**

Consider adding the special variable to your SDSF/REXX exec.

**ISF709I**                    **SDSF TRACE IS INACTIVE, TRACE MASK IS "*trace-mask*".**



## Explanation

In response to an operator command, the current status for SDSF server trace is displayed.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF710I</b> | <b>SDSF TRACE IS ACTIVE USING TRACE MASK "trace-mask".</b> |
|----------------|--|

---

## Explanation

In response to an operator command, the current status for SDSF server trace is displayed.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF711I</b> | <b>SDSF TRACE STARTED USING TRACE MASK trace-mask.</b> |
|----------------|--|

---

## Explanation

In response to the TRACE command, tracing has been started with the indicated trace mask.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF713E</b> | <b>SDSF TRACE INITIALIZATION FAILED, RETURN CODE return-code, REASON CODE reason-code.</b> |
|----------------|--|

---

## Explanation

In response to the TRACE command, initialization of SDSF trace has failed with the indicated return and reason codes.

## User response

Use the indicated return and reason codes to diagnose the problem.

## Descriptor code:

7, 11

---

|                |                                    |
|----------------|------------------------------------|
| <b>ISF714I</b> | <b>SDSF TRACE IS NOW INACTIVE.</b> |
|----------------|------------------------------------|

---

## Explanation

In response to a TRACE OFF command, SDSF trace has become inactive.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF715I</b> | <b>SDSF TRACE IS ALREADY ACTIVE USING TRACE MASK trace-mask</b> |
|----------------|---|

---

## Explanation

A TRACE ON command was entered, but SDSF trace is already active, with the indicated trace mask.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF716E</b> | <b>SDSF TRACE DATA SET IS NOT ALLOCATED.</b> |
|----------------|--|

---

## Explanation

A TRACE ON command was entered, but the SDSF trace data set could not be dynamically allocated. SDSF trace is not started.

## User response

Additional system messages may have been issued to the console. See them for additional information.

---

|                |  |
|----------------|--|
| <b>ISF717I</b> | <b>SDSF TRACE IS ALREADY INACTIVE.</b> |
|----------------|--|

---

## Explanation

A TRACE OFF command was entered, but SDSF trace is already inactive. The command is ignored.

## User response

None required.

---

|                |   |
|----------------|---|
| <b>ISF718E</b> | <b>SDSF TRACE FAILED TO INACTIVATE.</b> |
|----------------|---|

---

## Explanation

A TRACE OFF command was entered, but SDSF trace was not turned off. Tracing continues.

## User response

Retry the request.

---

|                |  |
|----------------|--|
| <b>ISF719W</b> | <b>MAIN PANEL TYPE panel-type NOT ACTIVATED SINCE command-name COMMAND NOT AUTHORIZED.</b> |
|----------------|--|

---

## Explanation:

The **SET MAIN** command was used to specify a replaceable main panel of *panel-type*. However, the user is not authorized to the *command-name* command, so the replaceable main panel cannot be

shown. The main panel will be displayed as a table of commands.

User response

No response is required. You might contact your security administrator for access to the *command-name* command, or revert to the tabular main panel using the **SET MAIN TABLE** command.

**ISF724I SDSF LEVEL *fmid* INITIALIZATION COMPLETE FOR SERVER *server*.**

Explanation

The SDSF server was successfully initialized.

User response

None.

**ISF725I SDSF SHUTDOWN IN PROGRESS FOR SERVER *server*.**

Explanation

The SDSF server is being shut down.

User response

None.

**ISF726I SDSF PARAMETER PROCESSING STARTED.**

Explanation

The processing of the SDSF parameters has started.

User response

None.

**ISF727I *parameter-type* PARAMETER PROCESSING STARTED IN TEST MODE.**

Explanation

Processing started for the parameters in test mode. When test mode is used, the parameters are syntax checked but not activated when processing completes. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements. Subsequent messages will be issued by the SDSF server that identify the member and data set being processed.

User response

No action is required. Check additional messages for possible syntax errors.

**ISF728I *parameter-type* PARAMETERS HAVE BEEN ACTIVATED.**

Explanation

The processing of the parameters was successful and the parameters are now active. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

User response

No action is required.

**ISF729I NO ERRORS DETECTED IN *parameter-type* PARAMETERS.**

Explanation

The processing of the parameters completed with no errors. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

User response

No action is required.

**ISF730I SDSF PARAMETERS NOT READ FROM ISFPRMxx DUE TO NOPARM INITIALIZATION OPTION.**

Explanation

SDSF was started with the NOPARM initialization option, which bypasses processing of any ISFPRMxx PARMLIB member. SDSF will continue to initialization with a base set of default values. The SDSFAUX server will be started and data collection will be activated.

User response

No response is required.

**ISF731E SDSF PARAMETERS NOT ACTIVATED DUE TO ERRORS.**

Explanation

Errors were found in the SDSF parameters. The parameters are not activated.

## User response

Use the log file to review the parameters. Correct the errors and process the parameters again.

### Descriptor code:

7, 11

---

|                |   |
|----------------|---|
| <b>ISF732E</b> | <b>ERRORS DETECTED IN <i>parameter-type</i> PARAMETERS.</b> |
|----------------|---|

---

## Explanation

Errors were found in the parameters. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

## User response

Use the log file to review the parameters. Correct the errors and process the parameters again.

---

|                |  |
|----------------|--|
| <b>ISF733E</b> | <b>UNABLE TO READ <i>parameter-type</i> PARAMETERS DUE TO I/O ERROR.</b> |
|----------------|--|

---

## Explanation

An I/O error prevented SDSF from reading the parameters. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

## User response

See accompanying system messages for more information about the I/O error.

---

|                |  |
|----------------|--|
| <b>ISF734I</b> | <b><i>parameter-type</i> PARAMETERS HAVE BEEN ACTIVATED, WARNINGS WERE ISSUED.</b> |
|----------------|--|

---

## Explanation

Parameters have been activated; however, during syntax checking of the parameters, warning messages were issued. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

## User response

Check the server log for the warning messages. If you change ISFxxxxx, activate the changes with the MODIFY command.

---

|                |  |
|----------------|--|
| <b>ISF735E</b> | <b>SDSF PARAMETERS ARE NOT ACTIVE.</b> |
|----------------|--|

---

## Explanation

An error was detected in the SDSF parameters when the SDSF server was started. SDSF parameters are not activated.

## User response

Use the log file to review the parameters. Correct the errors and activate the parameters with the MODIFY command.

### Descriptor code:

7, 11

---

|                |  |
|----------------|--|
| <b>ISF736I</b> | <b>SDSF SHUTDOWN PROCEEDING FOR SERVER <i>server-name</i>.</b> |
|----------------|--|

---

## Explanation

A STOP command has been issued to shut down an SDSF server. The server is waiting for completion of outstanding work.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF737E</b> | <b>SDSF PARAMETERS NOT ACTIVATED DUE TO ABEND.</b> |
|----------------|--|

---

## Explanation

Due to an abend, SDSF parameters were not activated.

## User response

Use the MODIFY command to active the parameters. The MODIFY command is described in [“Server operator commands”](#) on page 75.

### Descriptor code:

7, 11

---

|                |   |
|----------------|---|
| <b>ISF738I</b> | <b>ABEND <i>abend-code</i> DETECTED PROCESSING SDSF PARAMETERS.</b> |
|----------------|---|

---

## Explanation

While SDSF parameters were being processed in test mode, an abend was detected.

## User response

Use the abend code to diagnose the problem.

---

|                |   |
|----------------|---|
| <b>ISF739I</b> | <b><i>parameter-type</i> PARAMETERS BEING READ FROM MEMBER <i>member-name</i> OF DATA SET <i>data-set-name</i>.</b> |
|----------------|---|

---

## Explanation

The SDSF server is reading parameters from the indicated data set and member. In the message text, *parameter-type* is either SDSF for the SDSF server parameters or MAP for the map definition statements.

## User response

No action is required.

---

|                |   |
|----------------|---|
| <b>ISF740E</b> | <b>VARIABLE <i>variable-name</i> DATA VALUE '<i>value</i>' IS TOO LONG.</b> |
|----------------|---|

---

## Explanation

The value for the named special variable exceeds the valid length.

## User response

Special variables that are associated with SDSF commands cannot exceed the SDSF command length. Adjust the value of the special variable to the valid length.

---

|                |   |
|----------------|---|
| <b>ISF741E</b> | <b>ERROR PROCESSING COMMAND '<i>command</i>' ASSOCIATED WITH VARIABLE <i>variable-name</i>, REASON: <i>reason-text</i>.</b> |
|----------------|---|

---

## Explanation

The value of the special variable *variable-name* was rejected with the indicated reason text. The command is not processed.

## User response

Ensure that the syntax of the special variable *variable-name* conforms to the syntax required by the SDSF command *command-name*. The syntax of the commands is described in the online help.

---

|                |   |
|----------------|---|
| <b>ISF742E</b> | <b>COLUMN <i>column-name</i> NAMED IN <i>variable-name</i> VARIABLE IGNORED, NOT FOUND IN CURRENT FIELD LIST.</b> |
|----------------|---|

---

## Explanation

The named column was not found in the current field list. A REXX variable will not be created with its value.

## User response

Ensure the column name specified in *variable-name* are valid for the current field list. If the column is valid for the panel, but is found only on the alternate

field list, use the ALTERNATE option on the SDSF host command used to invoke the panel. Refer to "Issuing commands with ISFEXEC" in [z/OS SDSF User's Guide](#) for more information.

---

|                |  |
|----------------|--|
| <b>ISF743E</b> | <b>VARIABLE <i>variable-name</i> HAS A DATA VALUE EXCEEDING <i>number</i> BYTES AND IS TOO LONG.</b> |
|----------------|--|

---

## Explanation

The value of the special variable *variable-name* was rejected because the data value is too long. The associated command is not processed.

## User response

Ensure that the syntax of the special variable *variable-name* conforms to the syntax required by the associated SDSF command. For the syntax of an SDSF command, see the online help.

---

|                |  |
|----------------|--|
| <b>ISF744E</b> | <b>UNABLE TO FETCH REXX VARIABLE <i>variable-name</i>, IRXEXCOM SHVRET RETURN CODE <i>return-code</i>.</b> |
|----------------|--|

---

## Explanation

SDSF was unable to read the value of *variable-name*. The IRXEXCOM service failed to fetch the variable with return code *return-code* for field SHVRET. The associated command will not be processed.

## User response

Use the return code from the IRXEXCOM service as described in [z/OS TSO/E REXX Reference](#) to diagnose the error.

---

|                |   |
|----------------|---|
| <b>ISF745E</b> | <b>ERROR PROCESSING '<i>command</i>', REASON: <i>reason-code</i>.</b> |
|----------------|---|

---

## Explanation

SDSF was unable to run command. The error is described by *reason-code*.

## User response

Use the reason code to diagnose the error. For syntax errors, correct the command format or the operands specified on a special variable. For authorization errors, ensure the user has the appropriate authority to the command.

---

|                |  |
|----------------|--|
| <b>ISF746E</b> | <b>ACTION REQUEST REJECTED, ROW TOKEN INVALID.</b> |
|----------------|--|

---

## Explanation

A row token referenced on an ISFACT command has failed a validity check. The action is not performed.

## User response

The row token is created by the ISFEXEC command and must be passed unmodified to SDSF on the ISFACT command. Some of the conditions causing the token to become invalid are:

- The token has been modified or contains an invalid character
- The token does not correspond to the display being modified. For example, the token was generated for a row on the H panel but is being used on the O panel.
- The token was generated on a different level of SDSF than the one currently being run.
- The token was generated for a different use ID than the one performing the action.

---

|                |  |
|----------------|--|
| <b>ISF747E</b> | <b>ACTION REQUEST REJECTED,<br/>ROW NOT FOUND.</b> |
|----------------|--|

---

## Explanation

A row token referencing a row that no longer exists was encountered during processing of an ISFACT command. The requested action is not performed.

## User response

None.

---

|                |   |
|----------------|---|
| <b>ISF748E</b> | <b>ACTION REQUEST REJECTED,<br/>ROW NOT UNIQUE.</b> |
|----------------|---|

---

## Explanation

A row token that references a row that is not unique was encountered during processing of an ISFACT command. The requested action is not performed.

## User response

Obtain a new row token by running the ISFEXEC command again and retrying the ISFACT request.

---

|                |  |
|----------------|--|
| <b>ISF749E</b> | <b>ACTION REQUEST REJECTED,<br/>column-name IS NOT<br/>MODIFIABLE.</b> |
|----------------|--|

---

## Explanation

An attempt to modify a column that could not be modified was encountered during processing of an

ISFACT command. The requested modification was not performed.

## User response

Verify that the named column can be modified. You must be authorized to modify the column. For a list of columns, issue the COLSHELP command from any SDSF command line under ISPF.

---

|                |  |
|----------------|--|
| <b>ISF750E</b> | <b>ACTION REQUEST REJECTED,<br/>column-name NOT FOUND IN<br/>CURRENT FIELD LIST.</b> |
|----------------|--|

---

## Explanation

A column that is not in the current field list was encountered during processing of an ISFACT command. The request was not performed.

## User response

Ensure that you have included the necessary option on the ISFACT command:

- If the column is in the alternate field list, use ALTERNATE or ALTERNATE2 (when the panel is accessed from another panel with an action character)
- If the column is a delayed-access column, use DELAYED or DELAYED2.

To find which columns are available in your REXX exec, access the panel and display the contents of the ISFCOLS or ISFCOLS2 special variable.

To display a list of columns that identifies which are delayed access, type COLSHelp in SDSF's help (ISPF only).

The system programmer can specify the columns that are included in the primary and alternate field lists using ISFPARMS. Refer to [“Variable field lists \(FLD\)” on page 41](#) for more information.

---

|                |   |
|----------------|---|
| <b>ISF751E</b> | <b>COLUMN column-name ACTION<br/>IGNORED, NO DATA PROVIDED.</b> |
|----------------|---|

---

## Explanation

Data to modify a column was null or all blanks when processing an ISFACT command. The request is ignored.

## User response

Ensure that the data to be used to modify a column is non-blank.

---

|                |  |
|----------------|--|
| <b>ISF752E</b> | <b>COLUMN column-name ACTION<br/>REJECTED, DATA LENGTH data-</b> |
|----------------|--|

---

*length* EXCEEDS THE MAXIMUM OF *maximum-length*.

### Explanation

On an ISFACT command, the data to modify column *column-name* is too long. The request is rejected.

### User response

Ensure that the length of the data to be modified does not exceed the maximum width for the field.

---

|                |  |
|----------------|--|
| <b>ISF753E</b> | <b>ACTION REQUEST REJECTED, COMMAND <i>command</i> NOT ACCEPTABLE.</b> |
|----------------|--|

---

### Explanation

A command, *command*, that is not acceptable to ISFACT was encountered while processing the ISFACT command.

### User response

Ensure that the command used on ISFACT is a command to access a tabular panel.

---

|                |  |
|----------------|--|
| <b>ISF754I</b> | <b>COMMAND '<i>command</i>' GENERATED FROM ASSOCIATED VARIABLE <i>variable-name</i>.</b> |
|----------------|--|

---

### Explanation

The SDSF command *command* was run based on the data contained in the REXX special variable *variable-name*.

### User response

None.

---

|                |                                   |
|----------------|-----------------------------------|
| <b>ISF755E</b> | <b>HOST COMMAND NOT PROVIDED.</b> |
|----------------|-----------------------------------|

---

### Explanation

The REXX SDSF host command environment was invoked but no command was provided.

### User response

Ensure that a command is passed to the SDSF host command environment.

---

|                |  |
|----------------|--|
| <b>ISF756I</b> | <b>NO ACTIONS PERFORMED, ROW NOT MODIFIED.</b> |
|----------------|--|

---

### Explanation

No actions were provided or accepted for the row. The row has not been modified.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF757I</b> | <b>VARIABLE <i>variable-name</i> BEING PROCESSED WITH VALUE '<i>value</i>'.</b> |
|----------------|---|

---

### Explanation

The indicated special variable has been retrieved and contains the indicated value.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF758E</b> | <b>ERROR PROCESSING DATA ASSOCIATED WITH VARIABLE <i>variable-name</i>, REASON: <i>reason-text</i>.</b> |
|----------------|---|

---

### Explanation

An error occurred processing the data associated with the indicated variable. The reason is given by *reason-text*.

### User response

The function is not performed.

---

|                |   |
|----------------|---|
| <b>ISF759E</b> | <b>PRINT ERROR OCCURRED: <i>error-text</i>.</b> |
|----------------|---|

---

### Explanation

In the processing of a print request, an error occurred. The error is described by *error-text*.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF760I</b> | <b>HOST COMMAND BEING PROCESSED: <i>command</i>.</b> |
|----------------|--|

---

### Explanation

SDSF has been invoked to process the REXX host command *command*.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF761E</b> | <b>COLUMN <i>column-name</i> ACTION REJECTED, DATA VALUE '<i>value</i>' UNACCEPTABLE.</b> |
|----------------|---|

---

### Explanation

An action for a row was rejected because the modified data was unacceptable for the column. For example, the oertype extension character (+) was specified, and that is not valid in the REXX environment.

### User response

Correct the data to be used to modify the column.

---

|                |   |
|----------------|---|
| <b>ISF762I</b> | <b>COLUMN <i>column-name</i> ACTION REJECTED, VALUE '<i>value</i>' EXCEEDS THE MAXIMUM NUMBER OF VALUES OF <i>max-values</i>.</b> |
|----------------|---|

---

### Explanation

The number of values being used to modify the indicated column exceeds the maximum number of related values allowed for that column. The request is rejected.

### User response

Correct the data so that the number of related values does not exceed the maximum number of values for the column. For more information, see the online help for overtyping columns on that panel.

---

|                |  |
|----------------|--|
| <b>ISF763E</b> | <b>COLUMN <i>column-name</i> ACTION REJECTED, DATA VALUE '<i>value</i>' INVALID, REASON: <i>reason text</i>.</b> |
|----------------|--|

---

### Explanation

An action taken against a row was rejected because the modified data failed a syntax check for the column. The reason is indicated by *reason-text*. For example, a syntax error can occur if the column is defined for numeric data but an attempt was made to modify it with non-numeric data.

### User response

Correct the data to be used to modify the column.

---

|                |   |
|----------------|---|
| <b>ISF764I</b> | <b>COMMAND '<i>command</i>' GENERATED FROM ASSOCIATED VARIABLE <i>variable-name</i>, STATUS: <i>status</i>.</b> |
|----------------|---|

---

### Explanation

The SDSF command *command* was run based on the data contained in the REXX special variable *variable-name* with any completion status indicated in the status text.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF765I</b> | <b>VARIABLE <i>variable-name</i> NOT DEFINED, DEFAULT VALUE '<i>value</i>' BEING USED.</b> |
|----------------|--|

---

### Explanation

The named REXX variable was not found so the indicated value was applied as a default.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF766I</b> | <b>REQUEST COMPLETED, STATUS: <i>completion-status</i>.</b> |
|----------------|---|

---

### Explanation

An SDSF request has completed with the indicated status. The completion status is the text from the SDSF message area and also corresponds to the REXX special variable ISFMSG.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF767I</b> | <b>REQUEST COMPLETED, STATUS: <i>completion-status</i>.</b> |
|----------------|---|

---

### Explanation

An SDSF request has completed with no additional status. The REXX special variable ISFMSG contains no data.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF768I</b> | <b>COLUMN <i>column-name</i> NAMED IN <i>variable-name</i> VARIABLE IGNORED, NOT APPLICABLE IN THIS ENVIRONMENT.</b> |
|----------------|--|

---

### Explanation

The named column found in the current field list but is not valid in the current environment. The column

is ignored. For example, the ISFEND column has no effect in the SDSF/REXX environment and is ignored.

### User response

No response is required.

---

|                |  |
|----------------|--|
| <b>ISF769I</b> | <b>SYSTEM COMMAND ISSUED,<br/>COMMAND TEXT: <i>command-text</i>.</b> |
|----------------|--|

---

### Explanation

A system command was issued with the ISFEXEC command *command* or the ISFSLASH command. The text of the command is shown in *command-text*.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF770W</b> | <b>REQUEST LIMIT <i>limit</i><br/>FROM VARIABLE <i>variable-name</i><br/>REACHED.</b> |
|----------------|---|

---

### Explanation

The limit for the number of requests, *limit*, set by special variable *variable-name*, has been reached.

### User response

If necessary, change the limit.

---

|                |   |
|----------------|---|
| <b>ISF771E</b> | <b>VARIABLE <i>variable-name</i> NOT<br/>ACCESSIBLE, PROCESSING<br/>TERMINATED.</b> |
|----------------|---|

---

### Explanation

Variable *variable-name* does not exist or could not be fetched. Processing is stopped.

### User response

Verify that the variable name is correct and exists.

---

|                |  |
|----------------|--|
| <b>ISF772I</b> | <b>VARIABLE <i>variable-name</i><br/>IGNORED, DOES NOT CONTAIN<br/>DATA.</b> |
|----------------|--|

---

### Explanation

Variable *variable-name* does not contain any data and is skipped.

### User response

Verify that the variable name is correct.

---

|                |   |
|----------------|---|
| <b>ISF775E</b> | <b>VARIABLE <i>variable-name</i> NOT<br/>ACCEPTABLE, DOES NOT CONTAIN<br/>DATA.</b> |
|----------------|---|

---

### Explanation

Variable *variable-name* has been fetched, but does not contain data. A value for this variable is required.

### User response

Verify that the value for the variable is present.

---

|                |   |
|----------------|---|
| <b>ISF776I</b> | <b>PROCESSING STARTED FOR<br/>ACTION <i>action-count</i> OF <i>total-</i><br/><i>count</i>.</b> |
|----------------|---|

---

### Explanation

When processing actions or commands, SDSF started processing the action that is number *action-count* out of the total number, *total-count*.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF777E</b> | <b>STOP TIME AND DATE<br/>INCONSISTENT WITH START TIME<br/>AND DATE.</b> |
|----------------|--|

---

### Explanation

A date range is not acceptable because the ending time and date is prior to the starting time and date.

### User response

Correct the time and date range.

---

|                |  |
|----------------|--|
| <b>ISF778I</b> | <b>STOP REQUEST BEING<br/>PROCESSED.</b> |
|----------------|--|

---

### Explanation

SDSF is processing a stop request and will end.

### User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF779E</b> | <b>PARSING ERROR OCCURRED<br/>WHILE PROCESSING JSON<br/>REQUEST, RETURN CODE=<i>return-</i><br/><i>code</i>, REASON=<i>reason</i>.</b> |
|----------------|--|

---

### Explanation

A parsing error occurred while parsing a JSON document as described by *return-code* and *reason*.



The document may not be well formed or may contain a syntax error. The document is not processed. The return-code is an internal code that can be used by IBM to diagnose the error.

### User response

Correct the document and retry the request.

---

|                |   |
|----------------|---|
| <b>ISF780E</b> | <b>JSON PROPERTY <i>property-name</i> NOT RECOGNIZED OR NOT IN CORRECT CONTEXT.</b> |
|----------------|---|

---

### Explanation

A JSON document was being processed, and *property-name* was not recognized as a valid property, or the property is not a valid subproperty of an object. The document is not processed.

### User response

Correct the document and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF781E</b> | <b>JSON OBJECT NESTING LEVEL EXCEEDED.</b> |
|----------------|--|

---

### Explanation

A JSON document was being processed and too many levels of subproperties were found. The document was not processed.

### User response

Correct the document and retry the request.

---

|                |                                 |
|----------------|---------------------------------|
| <b>ISF782W</b> | <b>NO ROWS SATISFY REQUEST.</b> |
|----------------|---------------------------------|

---

### Explanation

A request was received but constraints resulted in no rows being generated for the response.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF783E</b> | <b>ERROR OCCURRED GENERATING JSON DOCUMENT FOR REQUEST.</b> |
|----------------|---|

---

### Explanation

An unrecoverable error occurred in generating a document for a JSON response.

### User response

Refer to additional messages that further describe the error.

---

|                |   |
|----------------|---|
| <b>ISF784E</b> | <b>VARIABLE <i>variable</i> REQUIRES SPECIFICATION OF VARIABLE <i>variable</i>.</b> |
|----------------|---|

---

### Explanation

A variable was specified that requires another variable that is missing. The request may fail or be processed as if neither variable were specified.

### User response

Correct the error and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF785E</b> | <b>VARIABLE <i>variable1</i> VALUE '<i>value</i>' MUST NOT BE LESS THAN VARIABLE <i>variable12</i> VALUE '<i>value</i>'.</b> |
|----------------|--|

---

### Explanation

The value in *variable1* is less than the value in *variable12*. This is not allowed.

### User response

Correct the error and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF786E</b> | <b>VARIABLE ISFFIND VALUE '<i>string</i>' WITH LENGTH <i>length</i> IS TOO LONG FOR SPECIFIED COLUMN RANGE <i>start-column</i> TO <i>end-column</i>.</b> |
|----------------|--|

---

### Explanation

The string specified in the ISFFIND variable is too long to fit within the specified column range.

### User response

Correct the error and retry the request.

---

|                |   |
|----------------|---|
| <b>ISF787E</b> | <b>VARIABLE <i>variable</i> VALUE '<i>value</i>' EXCEEDS THE RECORD LENGTH OF THE DATA.</b> |
|----------------|---|

---

### Explanation

The value of *variable* is greater than the record length of the data that is being browsed. The request cannot be processed.

### User response

Correct the error and retry the request.

---

|                |  |
|----------------|--|
| <b>ISF788E</b> | <b>VARIABLE <i>variable</i> IS IGNORED, IT CONTAINS A TOKEN THAT IS NOT VALID.</b> |
|----------------|--|

---

## Explanation

The value of variable *variable* is a token that is not valid. The request is processed as if the variable were not specified.

## User response

Ensure that the token was not modified before you attempted to use it.

---

|                |  |
|----------------|--|
| <b>ISF789E</b> | <b>VARIABLE <i>variable</i> IS IGNORED, IT CONTAINS A TOKEN THAT IS NOT VALID IN THIS CONTEXT.</b> |
|----------------|--|

---

## Explanation

The value of variable *variable* is a token that is not valid for this request. The request is processed as if the variable were not specified.

## User response

Ensure that the token was not modified before you attempted to use it. The variable that contains the token may not have been cleared before it was set. To clear variables, use the ISFRESET function.

---

|                |  |
|----------------|--|
| <b>ISF790E</b> | <b>THE VALUE SPECIFIED FOR VARIABLE <i>variable</i> IS NOT VALID ON THE panel PANEL.</b> |
|----------------|--|

---

## Explanation

The value of variable *variable* is a token that is not valid for the current panel. The request cannot be processed.

## User response

Correct the value that is in error. For the value that is in error, see the previous ISF757I message. For information about the valid values, use the SEARCH command or the REXXH command.

---

|                |  |
|----------------|--|
| <b>ISF791E</b> | <b>VARIABLE <i>variable</i> IS IGNORED, THE TOKEN REPRESENTS A RECORD THAT NO LONGER EXISTS.</b> |
|----------------|--|

---

## Explanation

The record represented by the token in variable *variable* does not exist. The request is specified as if the variable were not specified.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF792E</b> | <b>DATA NOT AVAILABLE, NOT AUTHORIZED TO COMMAND <i>command</i>.</b> |
|----------------|--|

---

## Explanation

A request for data could not be satisfied. The request requires a command that you are not authorized to use.

## User response

For authorization to the command, contact your security administrator.

---

|                |  |
|----------------|--|
| <b>ISF793E</b> | <b>DATA NOT AVAILABLE, HEALTH CHECKER NOT ACTIVE ON SYSTEM <i>system-name</i>.</b> |
|----------------|--|

---

## Explanation

A request for data could not be satisfied because IBM Health Checker for z/OS is not active on the indicated system.

## User response

Contact your system programmer to activate IBM Health Checker for z/OS.

---

|                |   |
|----------------|---|
| <b>ISF794W</b> | <b>MAXIMUM RESPONSE SIZE REACHED, ROWS <i>row-1</i> THROUGH <i>row-2</i> NOT PROCESSED.</b> |
|----------------|---|

---

## Explanation

The size of the response exceeds the maximum allowed. Rows *row-1* through *row-2* are skipped. They are not included in the response.

## User response

Use filters to limit the number of rows being selected, then try the request again.

---

|                |  |
|----------------|--|
| <b>ISF795I</b> | <b>Variable <i>variable-name</i> is obsolete and will be ignored</b> |
|----------------|--|

---

## Explanation

Variable *variable* has been assigned a value but the variable is obsolete. No syntax checking is done and the value is ignored.

## User response

No action is necessary but it is recommended you remove references to the obsolete variable.

---

|                |   |
|----------------|---|
| <b>ISF796I</b> | <b>Server task name <i>taskname</i> trace level set to <i>value</i></b> |
|----------------|---|

---

### Explanation

In response to a **F SDSF,SET TRACE(n) NAME(*taskname*)** operator command, the trace level for *taskname* has been changed to level *value*.

### User response

None.

---

|                |   |
|----------------|---|
| <b>ISF797I</b> | <b>SPECIAL DDNAME <i>ddname</i> PROCESSED</b> |
|----------------|---|

---

### Explanation

The special ddname *ddname* was allocated and recognized by SDSF. The options associated with the ddname are processed.

### User response

No response is required.

**Descriptor code:**  
7, 11

---

|                |   |
|----------------|---|
| <b>ISF799I</b> | <b>SDSF falling back to the ISFPARMS load module.</b> |
|----------------|---|

---

### Explanation

### User response

No response is required.

**Descriptor code:**  
7, 11

---

|                |  |
|----------------|--|
| <b>ISF800E</b> | <b>UNEXPECTED END OF FILE ENCOUNTERED PROCESSING STATEMENT NUMBER <i>number</i>.</b> |
|----------------|--|

---

### Explanation

While processing a continuation statement, the end of file was reached.

### User response

Use the log file to review the parameters. Correct the errors and process the parameters again.

---

|                |  |
|----------------|--|
| <b>ISF801E</b> | <b>STATEMENT NUMBER <i>number</i> IS TOO LONG.</b> |
|----------------|--|

---

### Explanation

SDSF parameter statement number *number* is longer than the maximum allowed length of 32756 characters.

### User response

Use the log file to review the parameters. Ensure that a statement is not continued incorrectly. Correct the statement in error and process the parameters again.

---

|                |                             |
|----------------|-----------------------------|
| <b>ISF802E</b> | <b>INPUT FILE IS EMPTY.</b> |
|----------------|-----------------------------|

---

### Explanation

The input file for processing SDSF parameters contained no parameters.

### User response

Correct the input file and retry the request.

---

|                |   |
|----------------|---|
| <b>ISF803E</b> | <b>COMMENT NOT CLOSED ON LINE NUMBER <i>number</i>.</b> |
|----------------|---|

---

### Explanation

A comment opened on line number *number* was not closed. Comments must be complete on a single line.

### User response

Use the log file to locate the line and close the comment.

---

|                |   |
|----------------|---|
| <b>ISF804E</b> | <b>PROCESSING ENDED DUE TO I/O ERROR.</b> |
|----------------|---|

---

### Explanation

Processing of SDSF parameters ended due to an input or output error. Either SDSF or the system may have issued additional messages describing the error.

### User response

Use the messages to determine the cause of the I/O error.

---

|                |  |
|----------------|--|
| <b>ISF805I</b> | <b>PREVIOUSLY PROCESSED <i>statement-type</i> AT STATEMENT <i>statement-number</i> BEING REPLACED.</b> |
|----------------|--|

---

### Explanation

A statement of the same type has already been processed and will be replaced by the later statement. The statement being replaced is *statement-number*.

## User response

None required. However, you should check your ISFPARMS to remove duplicate statements.

---

**ISF806E**      ***parameter* VALUE *value* IS  
IN ERROR, INVALID SYNTAX  
SPECIFIED.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* contains invalid syntax.

## User response

Correct the syntax.

---

**ISF807E**      ***parameter* VALUE *value* IS  
TOO LONG, MAXIMUM LENGTH  
ALLOWED IS *maximum*.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is longer than the maximum allowed length, indicated by *maximum*.

## User response

Correct the length of the value.

---

**ISF808E**      ***parameter* VALUE *value* IS NOT  
NUMERIC.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is not numeric. It must be numeric.

## User response

Correct the value.

---

**ISF809E**      ***parameter* VALUE *value* IS  
TOO SMALL, MINIMUM VALUE  
ALLOWED IS *minimum*.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is smaller than the minimum allowed value, indicated by *minimum*.

## User response

Correct the value.

---

**ISF810E**      ***parameter* VALUE *value* IS  
TOO LARGE, MAXIMUM VALUE  
ALLOWED IS *maximum*.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is larger than the maximum allowed value, indicated by *maximum*.

## User response

Correct the value.

---

**ISF811E**      ***parameter* VALUE *value* IS  
INVALID.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is invalid.

## User response

Correct the value.

---

**ISF812E**      ***parameter* VALUE *value* IS AN  
INVALID SYSOUT CLASS.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is not a valid SYSOUT class. Valid classes are A-Z and 0-9.

## User response

Correct the value.

---

**ISF813E**      ***parameter* VALUE *value* CONTAINS  
INVALID HEXADECIMAL DIGITS.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* contains characters that are not valid hexadecimal digits. Valid hexadecimal digits are 0-9 and A-F.

## User response

Correct the value.

---

**ISF814E**      ***parameter* VALUE *value* IS  
TOO SHORT, MINIMUM LENGTH  
ALLOWED IS *minimum*.**

---

## Explanation

The value indicated by *value* in the parameter indicated by *parameter* is shorter than the minimum allowed length, indicated by *minimum*.

## User response

Correct the value.

---

|                |  |
|----------------|--|
| <b>ISF815E</b> | <b><i>parameter</i> VALUE <i>values</i> MUST HAVE DIFFERENT CHARACTERS FOR EACH VALUE.</b> |
|----------------|--|

---

## Explanation

The values indicated by *values* are not unique. Each value specified on this parameter must be unique.

## User response

Correct the values so that each is unique.

---

|                |   |
|----------------|---|
| <b>ISF816E</b> | <b><i>first-parameter</i> IS MUTUALLY EXCLUSIVE WITH <i>second-parameter</i>.</b> |
|----------------|---|

---

## Explanation

The parameters indicated by *first-parameter* and *second-parameter* cannot be used together.

## User response

Delete one of the parameters.

---

|                |   |
|----------------|---|
| <b>ISF817I</b> | <b>GROUP INDEX <i>group-index-number</i> ASSIGNED TO GROUP <i>group-name</i>.</b> |
|----------------|---|

---

## Explanation

The index number indicated by *group-index-number* is assigned to the group indicated by *group-name*. The name, *group-name*, is a name assigned by you with the NAME parameter, or, if NAME is omitted, it is a name assigned by SDSF.

## User response

None required.

---

|                |  |
|----------------|--|
| <b>ISF818I</b> | <b>GROUP <i>group-name</i> REPLACES STATEMENT <i>statement-type</i>, GROUP INDEX IS <i>index-number</i>.</b> |
|----------------|--|

---

## Explanation

A group named *group-name* has been encountered more than once; the latest occurrence replaces the

previous occurrence. The index number assigned to the group is indicated by *index-number*. (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.)

## User response

None required. You should check your parameters to remove duplicate group statements.

---

|                |  |
|----------------|--|
| <b>ISF819I</b> | <b><i>statement-type</i> NAMED <i>name</i> REPLACES STATEMENT <i>number</i>.</b> |
|----------------|--|

---

## Explanation

The statement named *name* has been encountered more than once. The latest occurrence replaces the previous occurrence.

## User response

None required. You should check your parameters to remove duplicate statements.

---

|                |  |
|----------------|--|
| <b>ISF820I</b> | <b><i>statement</i> NAMED <i>name</i> FOR <i>display1</i> DISPLAY CONFLICTS WITH PRIOR DEFINITION FOR <i>display2</i>.</b> |
|----------------|--|

---

## Explanation

An FLD statement with the name *name*, for the indicated SDSF display, conflicts with an FLD statement for another display that has already been encountered.

## User response

None required. You should check your parameters to remove duplicate statements.

---

|                |  |
|----------------|--|
| <b>ISF821E</b> | <b><i>string</i> WAS EXPECTED BEFORE <i>string</i> ON LINE <i>line-number</i> COLUMN <i>column-number</i>.</b> |
|----------------|--|

---

## Explanation

A syntax error has been encountered at the indicated line and column.

## User response

Correct the statement.

---

|                |   |
|----------------|---|
| <b>ISF822E</b> | <b><i>value</i> WAS SEEN ON LINE <i>line-number</i> COLUMN <i>column-number</i> WHERE ONE OF THE FOLLOWING WAS EXPECTED: <i>valid-values</i>.</b> |
|----------------|---|

---

## Explanation

An invalid value, *value*, was found at the indicated line and column. The valid values are shown in *valid-values*.

## User response

Correct the statement using one of the listed values.

---

|         |   |
|---------|---|
| ISF823I | INPUT SKIPPED UP TO THE NEXT <i>value</i> . |
|---------|---|

---

## Explanation

A syntax error has occurred on a previously identified statement. SDSF is skipping to the indicated *value* to continue processing.

## User response

Correct the statement in error.

---

|         |   |
|---------|---|
| ISF824E | <i>error-string</i> ON LINE <i>line-number</i> COLUMN <i>column-number</i> SHOULD BE DELETED. |
|---------|---|

---

## Explanation

The character string *error-string* located on the indicated line and column is in error and should be deleted.

## User response

Delete or correct the string in error.

---

|         |   |
|---------|---|
| ISF825I | <i>string</i> IS INSERTED BEFORE THE ERROR POINT. |
|---------|---|

---

## Explanation

In response to previous syntax errors, SDSF has inserted a character string, *string* before the error in order to continue processing.

## User response

Correct the error.

---

|         |  |
|---------|--|
| ISF826E | <i>statement</i> OFFSET OF <i>offset</i> IS TOO LONG FOR USE WITH STRING <i>string</i> , MAXIMUM COMBINED OFFSET AND STRING LENGTH IS <i>maximum</i> . |
|---------|--|

---

## Explanation

In the indicated statement, the offset *offset*, when used with the string *string*, results in an invalid value

for that statement. The maximum for the combination of the offset and string length is *maximum*.

## User response

Correct the string or offset.

---

|         |   |
|---------|---|
| ISF828E | <i>first-statement</i> STATEMENT REQUIRED PRIOR TO THIS <i>second-statement</i> . |
|---------|---|

---

## Explanation

You must include a statement of the type indicated by *first-statement* before the statement indicated by *second-statement*.

## User response

Reorder or add statements to achieve the required order.

---

|         |  |
|---------|--|
| ISF829E | <i>first-value</i> AND <i>second-value</i> MUST HAVE DIFFERENT VALUES. |
|---------|--|

---

## Explanation

The values indicated by *first-value* and *second-value* are the same. They must be different.

## User response

Change one or both of the values so that they are different.

---

|         |  |
|---------|--|
| ISF830E | <i>parameter</i> VALUE IS TOO SHORT, VALUE MUST BE <i>required-length</i> BYTES BUT IS ONLY <i>actual-length</i> . |
|---------|--|

---

## Explanation

The value specified for the indicated parameter is too short. The message indicates the required length of the value (*required-length*) and the length of the value that was actually specified (*actual-length*).

## User response

Correct the value to be the required number of bytes.

---

|         |  |
|---------|--|
| ISF831E | <i>parameter</i> VALUE IS TOO LONG, VALUE MUST BE <i>required-length</i> BYTES BUT IS <i>actual-length</i> . |
|---------|--|

---

## Explanation

The value specified for the indicated parameter is too long. The message indicates the required length of the value (*required-length*) and the length of the value that was actually specified (*actual-length*).

## User response

Correct the value to be the required number of bytes.

---

**ISF832I**      ***statement* NAMED *name*  
CONFLICTS WITH PREVIOUS  
DEFINITION FOR *statement*.**

---

## Explanation

The statement with the name *name* conflicts with another statement of a different type that has already been encountered.

## User response

None required. You should review your statements to remove the conflict.

---

**ISF833E**      **COLUMN *column* IS NOT VALID  
FOR THE *display* DISPLAY.**

---

## Explanation

The indicated column has been specified with an FLDENT statement for a display on which it is not valid.

## User response

Remove the FLDENT statement for that display, or change the display with which the FLDENT statement is associated.

---

**ISF834E**      ***string* WAS EXPECTED BEFORE  
*string* IN STATEMENT *statement-*  
*number*.**

---

## Explanation

A syntax error has been encountered at the indicated statement.

## User response

Correct the statement.

---

**ISF835E**      ***value* WAS SEEN IN STATEMENT  
*statement* WHERE ONE OF THE  
FOLLOWING WAS EXPECTED:  
*valid-values*.**

---

## Explanation

An invalid value, *value*, was found at the indicated statement. The valid values are shown in *valid-values*.

## User response

Correct the statement using one of the listed values.

---

**ISF836E**      ***parameter* VALUE *string* IS IN  
ERROR, INVALID DATA SET NAME  
SYNTAX.**

---

## Explanation

The indicated parameter specifies a data set name containing invalid syntax.

## User response

Correct the data set name and retry the request.

---

**ISF837E**      ***parameter* VALUE CONTAINS  
*number* CHARACTERS, BUT IT  
MUST BE EVEN.**

---

## Explanation

The value specified on the indicated parameter is an odd number of characters; the value must be an even number of characters.

## User response

Correct the value to contain an even number of characters.

---

**ISF838E**      ***secondary-statement-type* NAMED  
*secondary-statement-name*  
REFERENCED BY *primary-*  
*statement-type primary-statement-*  
*name* NOT FOUND.**

---

## Explanation

A statement indicated by *primary-statement-type primary-statement-name* references a statement, *secondary-statement-type secondary-statement-name* that could not be found.

## User response

Correct the parameters so that the group definition and the name of the referenced statement agree.

---

**ISF839I**      ***statement-type* NAMED *name* IS  
NOT REFERENCED BY ANY OTHER  
STATEMENT.**

---

## Explanation

The indicated statement is valid only when referred to by another statement. It was encountered, but no other statement referred to it.

## User response

None required. However, if the statement is to be used, you must correct the parameters so that the statement name is referred to in a parameter in a group definition.

---

**ISF840I**      ***statement* NAMED *name*  
CONTAINS NO ENTRIES.**

---

## Explanation

The indicated statement contains no column or list entries. It is ignored.

## User response

Delete or complete the statement.

---

**ISF841E**      **GROUP *group-name* REFERENCES  
*statementname* WHICH IS AN  
INVALID TYPE FOR *group-*  
*keyword*.**

---

## Explanation

The indicated group statement references a statement that is the wrong type.

## User response

Correct one or both statements.

---

**ISF842E**      ***group-statement* IN GROUP *group-*  
*name* IS FOR DISPLAY TYPE  
*type* BUT REFERENCES *statement*  
NAMED *name* FOR DISPLAY TYPE  
*type*.**

---

## Explanation

The indicated group statement references a statement that is for the wrong SDSF display.

## User response

Correct one or both statements.

---

**ISF843E**      ***value* VALUE REQUIRED FOR THIS  
*statement* STATEMENT.**

---

## Explanation

The indicated statement is missing a required value.

## User response

Complete the statement by adding the missing value.

---

**ISF844W**      ***statement* VALUE *value* EXCEEDS  
THE MAXIMUM ALLOWED,  
CHANGED TO *new-value*.**

---

## Explanation

The indicated value in the indicated statement was greater than the maximum allowed; SDSF has changed the value to *new-value*.

## User response

Correct the value to be less than or equal to the maximum allowed.

---

**ISF845W**      ***statement* VALUE *value* TOO LONG  
FOR COLUMN WIDTH, TRUNCATED  
TO *number* CHARACTERS.**

---

## Explanation

The indicated value in the statement type indicated by *statement* is too long for the width of the column. It is truncated to fit the column.

## User response

None required. To avoid truncation of the value, correct it to fit the column width, or lengthen the column.

---

**ISF846W**      **NO GROUPS HAVE BEEN DEFINED.**

---

## Explanation

The ISFPARMS contained no GROUP statements. At least one GROUP statement is required.

## User response

Add at least one GROUP statement to the ISFPARMS.

---

**ISF847I**      **WHEN STATEMENT SELECTED FOR  
THIS SYSTEM.**

---

## Explanation

The WHEN statement has been selected for this system. All statements that follow the WHEN statement will be processed for this system, until another WHEN statement is encountered.

## User response

None required.

---

**ISF848I**      **WHEN STATEMENT DOES NOT  
MATCH THIS SYSTEM, FOLLOWING**

---



**STATEMENTS SKIPPED UNTIL  
NEXT WHEN.**

**Explanation**

The WHEN statement specified conditions that do not match the current system. Subsequent statements will be checked for syntax but not processed, until the next WHEN statement is found.

**User response**

None required.

---

|                |   |
|----------------|---|
| <b>ISF849I</b> | <b><i>statement-name</i> STATEMENT NOT<br/>SELECTED DUE TO PREVIOUS<br/>WHEN STATEMENT.</b> |
|----------------|---|

---

**Explanation**

Because it follows a WHEN statement that contained conditions that were not met, the statement is checked for syntax but not otherwise processed.

**User response**

None required.

---

|                |   |
|----------------|---|
| <b>ISF850E</b> | <b><i>primary-statement</i> CONTAINS NO<br/><i>secondary-statement</i> ENTRIES.</b> |
|----------------|---|

---

**Explanation**

A statement, *primary-statement*, was encountered that requires other statements, *secondary-statement*, but no such statements followed it. The statement *primary-statement* is ignored.

**User response**

Either delete the statement *primary-statement*, or add the required statements indicated by *secondary-statement*.

---

|                |   |
|----------------|---|
| <b>ISF851E</b> | <b>LOCAL SERVER NOT DEFINED<br/>IN SERVER GROUP (SERVER<br/>NAME <i>server-name</i>, SYSTEM NAME<br/><i>system-name</i>).</b> |
|----------------|---|

---

**Explanation**

A server group was defined for the indicated server on the indicated system, but the server group did not include the local server. A server group must include the local server. The local server is the currently executing server that is running on this system.

**User response**

Add a SERVER statement for the local server to the server group definition.

---

|                |   |
|----------------|---|
| <b>ISF852I</b> | <b><i>statement-type</i> STATEMENT<br/>IGNORED, <i>statement-type</i> IN USE.</b> |
|----------------|---|

---

**Explanation**

An attempt was made to modify an initialization statement after the SDSF server was already active. The statement is ignored.

**User response**

To change a server group after the server group is in use, you can:

1. Make the change to ISFPARMS.
2. End server communications with the MODIFY *server-name*, STOP, C, TERM command.
3. Use the MODIFY *server-name*, REFRESH command to cause the new ISFPARMS to be processed.

---

|                |  |
|----------------|--|
| <b>ISF853E</b> | <b>INSUFFICIENT SERVERS DEFINED<br/>IN SERVER GROUP.</b> |
|----------------|--|

---

**Explanation**

A SERVERGROUP statement was encountered, but there are not at least two SERVER statements following it. A server group must consist of at least two servers, including the local server. The server group is not defined.

**User response**

Correct the server group definition so that it includes at least two servers.

---

|                |   |
|----------------|---|
| <b>ISF854E</b> | <b>NUMBER OF SERVERS IN SERVER<br/>GROUP <i>number</i> EXCEEDS THE<br/>MAXIMUM OF <i>maximum</i>.</b> |
|----------------|---|

---

**Explanation**

A SERVERGROUP statement was encountered with more than the maximum number of allowed SERVER statements following it.

**User response**

Correct the server group definition so that it includes a valid number of servers.

---

|                |   |
|----------------|---|
| <b>ISF855E</b> | <b>SERVER <i>server-name</i> DUPLICATES<br/>DEFINITION OF SERVER <i>server-<br/>name</i> ON STATEMENT <i>statement-</i></b> |
|----------------|---|

---

**number FOR SYSTEM *system-name*, JESNAME *jes-name*, MEMBER *member-name*.**

### Explanation

A duplicate definition has been detected in the server group for the indicated system, JES, and member. More than one server in the server group is defined as processing a system, JES and member. This is not allowed.

### User response

Correct the server group definition in ISFPARMS.

---

**ISF856I      PARAMETER *parameter* IS OBSOLETE AND IS IGNORED.**

### Explanation

An obsolete parameter has been encountered. It will be ignored.

### User response

None required. To avoid seeing this message in the future, delete the parameter from ISFPARMS.

---

**ISF857E      COMMAND IS TOO LONG, MAXIMUM LENGTH ALLOWED IS *maximum-length*.**

### Explanation

The command or parameter being processed causes the resulting command to exceed the valid maximum length.

### User response

Ensure that the total length of the command conforms to the valid length.

---

**ISF858E      VALUE '*value*' IS NOT VALID, BEGINS WITH THE RESTRICTED CHARACTERS *characters*.**

### Explanation

The value of an option is not valid because it has a prefix that consists of the restricted characters, *characters*. The option is not processed.

### User response

Ensure that the value does not start with restricted characters. For example, the value of the REXX prefix option cannot start with ISF.

---

**ISF859E      COMMAND IS TOO SHORT, MINIMUM LENGTH ALLOWED IS *minimum-length*.**

### Explanation

The command being processed is too short.

### User response

Ensure that the command conforms to the valid length.

---

**ISF860I      *statement* STATEMENT IGNORED, NOT SUPPORTED IN THIS RELEASE.**

### Explanation

The indicated statement in ISFPARMS has been ignored during ISFPARMS processing because it is not supported in this release of SDSF.

### User response

None required, though you may want to remove the statement from ISFPARMS or use the WHEN statement to provide conditional processing of the statement.

---

**ISF861I      STATEMENT *statement* KEYWORD *keyword* IGNORED, NOT SUPPORTED IN THIS RELEASE.**

### Explanation

The indicated keyword in ISFPARMS has been ignored during ISFPARMS processing because it is not supported in this release of SDSF.

### User response

None required, though you may want to remove the keyword from ISFPARMS or use the WHEN statement to provide conditional processing of the statement that contains it.

---

**ISF862I      KEYWORD *keyword* VALUE *value* IGNORED, NOT SUPPORTED IN THIS RELEASE.**

### Explanation

The indicated value in ISFPARMS has been ignored during ISFPARMS processing because it is not supported in this release of SDSF.

User response

None required, though you may want to change the value in ISFPARMS or use the WHEN statement to provide conditional processing of the statement that contains it.

**ISF863E**                    ***option* IS REQUIRED WHEN *keyword* IS SPECIFIED.**

Explanation

The command keyword *keyword* requires that option *option* also be specified, but it was omitted. The command or statement is not processed.

User response

Correct the command.

**ISF864E**                    **PROPERTY *property* VALUE CANNOT BE AN ARRAY.**

Explanation

A JSON document was being processed and *property* was recognized but its value was an array. The property cannot define array values. The document was not processed.

User response

Correct the document and retry the request.

**ISF865E**                    **PROPERTY *property* VALUE CANNOT BE NUMERIC.**

Explanation

A JSON document was being processed and *property* was recognized but its value was numeric. The property cannot define numeric values. The document was not processed.

User response

Correct the document and retry the request.

**ISF866E**                    **PROPERTY *property* VALUE CANNOT BE BOOLEAN.**

Explanation

A JSON document was being processed and *property* was recognized but its value was Boolean. The property cannot define Boolean values. The document was not processed.

User response

Correct the document and retry the request.

**ISF867E**                    ***value-name1* VALUE *value1* IS INCONSISTENT WITH *value-name2* VALUE *value2*.**

Explanation

The named values have dependencies that are inconsistent. For example, a starting value is greater than an ending value. The document is not processed.

User response

Correct the document and retry the request.

**ISF868E**                    **PROPERTY *property-name* VALUE CANNOT BE A STRING.**

Explanation

In a JSON document, *property-name* was recognized. Its value was a string, but the property cannot define string values.

User response

Correct the document and retry the request.

**ISF869W**                    ***statement* STATEMENT IGNORED DUE TO SDSF INTERNAL ERROR.**

Explanation

An earlier SDSF internal error prevents the indicated statement from being processed correctly. SDSF parameter processing continues with the next statement. However, activation will be prevented.

User response

Contact IBM support.

**ISF870W**                    ***keyword* KEYWORD IGNORED, IT CANNOT BE SPECIFIED FOR THE *column-name* COLUMN**

Explanation

The named *keyword* has been found when processing an FLDENT statement for *column-name* in ISFPARMS. However, is it not supported and is ignored

User response

Remove the unsupported keyword.

---

**ISF871I**      **MAP *map-name* TYPE *map-type***  
**ACCEPTED.**

---

### Explanation

No errors were detected during processing of *map-name* of type *map-type* from SDSF MAP parameters.

### User response

No action is required.

---

**ISF872E**      **MAP PARAMETERS NOT**  
**ACTIVATED DUE TO ERRORS.**

---

### Explanation

Errors were found in the MAP parameters. The parameters were not activated.

### User response

Use the log file to review the parameters. Correct the errors and process the parameters again.

---

**ISF873E**      **MAP *map-name* TYPE *map-type***  
**NOT ACCEPTED DUE TO ERROR.**

---

### Explanation

An error was detected during processing of MAP *map-name* type *map-type*. The map was not accepted for processing.

### User response

Check the server log for the error messages and fix the error. If you change ISFxxxxx, activate the changes with the MODIFY command.

---

**ISF880I**      **Line: *line-number* : *text***

---

### Explanation

Line *line-number* has been read from ISFPRMxx with the *text* shown. The message is written to the SDSFLOG as the lines are read.

### User response

None.

---

**ISF881E**      **Duplicate keyword *keyword***  
**specified in the statement**  
***statement***

---

### Explanation

The *keyword* has been specified more than once on the same *statement*.

### User response

Remove the duplicate keyword specification.

---

**ISF882E**      **Unknown keyword *keyword* in the**  
**statement *statement***

---

### Explanation

The *keyword* has not been recognized as valid syntax for the *statement*.

### User response

Correct or remove the unknown keyword.

---

**ISF883E**      **Open parenthesis on line number**  
***line-number1* conflicts with line**  
***line-number2***

---

### Explanation

The open parenthesis on line number *line-number2* does not have a matching close parenthesis before line *line-number1*.

### User response

Ensure that open and close parenthesis characters are matched.

---

**ISF884E**      **Close parenthesis on line number**  
***line-number* without matching**  
**previous open parenthesis**

---

### Explanation

The close parenthesis on line number *line-number* does not have a matching open parenthesis earlier in the current statement.

### User response

Ensure that open and close parenthesis characters are matched.

---

**ISF886E**      **A valid statement cannot be found**

---

### Explanation

During ISFPRMxx member processing, a valid statement has not been found.

### User response

Ensure that there are valid statements in the ISFPRMxx member and that comments are correctly specified.

---

|                |   |
|----------------|---|
| <b>ISF889E</b> | <b>Keyword <i>keyword</i> value <i>value</i> contains unsupported logical operators</b> |
|----------------|---|

---

### Explanation

The keyword value contains > or < symbols in the first character without being enclosed in quotes. Because these symbols are not enclosed in quotes, they are interpreted as logical operators. However, the syntax rule for the keyword does not support logical operators.

### User response

Respecify the *value* for the *keyword*.

---

|                |  |
|----------------|--|
| <b>ISF892I</b> | <b>Statement <i>statement</i> keyword <i>keyword</i> set to value <i>value</i></b> |
|----------------|--|

---

### Explanation

The named *statement keyword* has been set to the indicated value, including keywords that have been set to their default value.

### User response

None.

---

|                |  |
|----------------|--|
| <b>ISF893E</b> | <b>Keyword <i>keyword</i> value <i>value</i> contains invalid characters for its data type</b> |
|----------------|--|

---

### Explanation

The characters in *value* are invalid for the syntax rules for the *keyword* keyword.

### User response

Refer to the allowable character values for the **statement** keyword.

---

|                |  |
|----------------|--|
| <b>ISF894I</b> | <b>Statement <i>statement</i> keyword <i>keyword</i> accepted as valid</b> |
|----------------|--|

---

### Explanation

The value for the named *statement keyword* is valid and has been accepted. This message is issued instead of ISF892I when the length of the keyword data would make the message too long.

### User response

No response is required.

---

|                |   |
|----------------|---|
| <b>ISF895E</b> | <b><i>verb-value</i> value not supported with this <i>verb</i> statement.</b> |
|----------------|---|

---

### Explanation

*verb-value* specified with *verb* is an invalid combination.

### User response

Check the server log for the statement in error and fix the invalid combination. If you change ISFxxxxx, activate the changes with the MODIFY command.

---

|                |   |
|----------------|---|
| <b>ISF896E</b> | <b>Quotes used outside of parentheses on line number <i>line-number</i></b> |
|----------------|---|

---

### Explanation

The quote character is not supported outside of values enclosed by parenthesis.

### User response

Remove the quote character.

---

|                |  |
|----------------|--|
| <b>ISF897I</b> | <b>RELEASE <i>release-value</i> SDSF FMID <i>fmid-value</i>.</b> |
|----------------|--|

---

### Explanation

The z/OS release and SDSF FMID information are displayed.

### User response

No response is required.

---

|                |   |
|----------------|---|
| <b>ISF898E</b> | <b>Unbalanced parentheses on line number <i>line-number</i></b> |
|----------------|---|

---

### Explanation

The statement on line *line-number* does not have the same number of open and close parentheses.

### User response

Verify that a trailing close parenthesis is not missing and correct the statement with unbalanced parentheses.

---

|                |  |
|----------------|--|
| <b>ISF899E</b> | <b><i>verb-value</i> CAUSING OUT OF BOUND CONDITION.</b> |
|----------------|--|

---

### Explanation

*verb-value* specified with *verb* is causing an out-of-bound condition.

## User response

Check the server log for the statement in error and fix the value for *verb*. If you change ISFxxxxx, activate the changes with the MODIFY command.

---

|                |   |
|----------------|---|
| <b>ISF901E</b> | <b>BINARY CONVERSION ERROR<br/>OCCURRED IN ISSUING AN SDSF<br/>MESSAGE.</b> |
|----------------|---|

---

## Explanation

In issuing an SDSF message, SDSF encountered a binary conversion error.

## User response

Follow your local procedure to call IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF902E</b> | <b>INSERT OF AN INVALID TYPE<br/>WAS ENCOUNTERED IN AN SDSF<br/>MESSAGE.</b> |
|----------------|--|

---

## Explanation

In issuing an SDSF message, SDSF encountered a problem in inserting a value into a message.

## User response

Follow your local procedure to call IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF903E</b> | <b>INVALID INSERT NUMBER WAS<br/>ENCOUNTERED IN AN SDSF<br/>MESSAGE.</b> |
|----------------|--|

---

## Explanation

In issuing an SDSF message, SDSF encountered a problem in inserting a value into a message.

## User response

Follow your local procedure to call IBM for service.

---

|                |                               |
|----------------|-------------------------------|
| <b>ISF904E</b> | <b>SDSF MESSAGE TOO LONG.</b> |
|----------------|-------------------------------|

---

## Explanation

In issuing an SDSF message, SDSF encountered a message that exceeded the maximum allowed length.

## User response

Follow your local procedure to call IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF905E</b> | <b>INCORRECT NUMBER OF INSERTS<br/>PASSED FOR AN SDSF MESSAGE.</b> |
|----------------|--|

---

## Explanation

In issuing an SDSF message, SDSF encountered a problem with inserting values into the message.

## User response

Follow your local procedure to call IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF906E</b> | <b>SDSF MESSAGE NOT ISSUED,<br/>SDSF MESSAGE TABLE NOT<br/>LOADED.</b> |
|----------------|--|

---

## Explanation

SDSF could not issue a message because the message table containing the messages was not loaded.

## User response

Follow your local procedure to call IBM for service.

---

|                |  |
|----------------|--|
| <b>ISF908E</b> | <b>MESSAGE <i>message-number</i> LINE<br/><i>line-number</i> NOT FOUND IN<br/>MESSAGE TABLE.</b> |
|----------------|--|

---

## Explanation

SDSF could not issue a message because the message or a line in the multi-line message was not found in the message table.

## User response

Follow your local procedure to call IBM for service.

---

|                |   |
|----------------|---|
| <b>ISF912E</b> | <b>MESSAGE <i>message-number</i><br/>REMOVED IN <i>release</i>: <i>message-</i><br/><i>inserts</i>.</b> |
|----------------|---|

---

## Explanation

Message *message-number* was removed in a previous release of SDSF, but SDSF attempted to issue it with the indicated inserts. *release* shows the version, release and FMID.

## User response

Message *message-number* is not issued. Follow your local procedures for contacting IBM for service.

---

|                |                                  |
|----------------|----------------------------------|
| <b>ISF922E</b> | <b>SDSF CONFIGURATION ERROR.</b> |
|----------------|----------------------------------|

---

## Explanation

SDSF has been invoked incorrectly when running as an ISPF dialog.

## User response

The system programmer should correct the invocation of SDSF. For an example of the statements needed to invoke SDSF from the ISPF main menu, refer to member ISF@PRI4 in data set ISF.SISFPLIB and “ISPF considerations” on page 447.

---

**ISF999I**      **DIAG: *diagnostic-data*.**

---

## Explanation

SDSF has encountered an internal condition in which diagnostic data has been collected.

## User response

Follow your local procedure for reporting a problem to IBM.

---

**ISF2001E**      **SDSF INVOCATION FAILED,  
RETURN CODE *return-code*.**

---

## Explanation

The SDSF Java API attempted to perform an SDSF request, but the invocation failed with the indicated return code. The return codes are the standard SDSF return codes documented in the class description for ISFBase.

## User response

To determine the source of the error, list the SDSF messages contained in the ISFRequestResults object used for the request.

---

**ISF2002E**      **COMMAND NOT PROVIDED.**

---

## Explanation

A method was invoked that requires a command to be provided but the command was missing.

## User response

Supply a command as required by the method parameters.

---

**ISF2003E**      **PROPERTY NAME ARRAY  
DIMENSION DIFFERENT THAN  
VALUE ARRAY DIMENSION.**

---

## Explanation

The requestPropertyChange method was invoked to change the property of an object. However, the number of property names does not match the number of supplied property values.

## User response

The property name array must correspond one-to-one with the values supplied in the property value array. Correct the arrays that are passed in to the method.

---

**ISF2004E**      **PROPERTY NAME MISSING IN  
ARRAY ELEMENT *element-number*.**

---

## Explanation

The requestPropertyChange method was invoked to change the property of an object. However, the number of property names does not match the number of supplied property values.

## User response

Correct the property name array.

---

**ISF2005E**      **RESULTS OBJECT NOT PROVIDED.**

---

## Explanation

SDSF was invoked to perform a function but the results object was not provided.

## User response

Follow your local procedures for contacting IBM for support.

---

**ISF2006E**      **ROW TOKEN WAS NOT PROVIDED  
FOR OBJECT *object-name*.**

---

## Explanation

An action was attempted against a row object, but the object does not contain a row token. The object name is the fixed field for the object. The action cannot be performed.

## User response

Verify that the object was not modified in any way such that the action cannot be performed. Check that the nomodify request setting was not used when the object was originally retrieved.

---

**ISF2007E**      **ROW TOKEN WAS NOT PROVIDED  
FOR OBJECT *object-name* IN  
REPEAT LIST ENTRY *entry-  
number*.**

---

## Explanation

An action was attempted against a row object using a repeat list, but the object does not contain a row token. The object name is the fixed field and the entry number is the position of the object in the repeat list.

## User response

Verify that the object was not modified in any way such that the action cannot be performed. Check that the nomodify request setting was not used when the object was originally retrieved.

---

|                 |  |
|-----------------|--|
| <b>ISF2008E</b> | <b>PROPERTY NAME ARRAY NOT PROVIDED.</b> |
|-----------------|--|

---

## Explanation

The requestPropertyChange method was invoked to change the property of an object. However, the property name array was not provided.

## User response

Supply the property name array.

---

|                 |   |
|-----------------|---|
| <b>ISF2009E</b> | <b>PROPERTY VALUE ARRAY NOT PROVIDED.</b> |
|-----------------|---|

---

## Explanation

The requestPropertyChange method was invoked to change the property of an object. However, the property value array was not provided.

## User response

Supply the property value array.

---

|                 |  |
|-----------------|--|
| <b>ISF2010E</b> | <b>PARAMETER <i>parameter-name</i> MUST HAVE THE VALUE <i>parameter-value</i>.</b> |
|-----------------|--|

---

## Explanation

A method was invoked using *parameter-name*, but the required value was not provided.

## User response

Verify the parameter values for the method are correct.

---

|                 |  |
|-----------------|--|
| <b>ISF2011E</b> | <b>INCONSISTENT INDEXES IN SETTINGS, <i>fromIndex</i>, <i>from-index</i>, IS EQUAL TO <i>toIndex</i>, <i>to-index</i>.</b> |
|-----------------|--|

---

## Explanation

The request settings have been used to specify a range of rows to return. However, the range indexes are not consistent because the from-index is equal to the to-index.

## User response

Correct the request settings and retry the request.

---

|                 |  |
|-----------------|--|
| <b>ISF2012E</b> | <b>INCONSISTENT INDEXES IN SETTINGS, <i>fromIndex</i>, <i>from-index</i>, IS GREATER THAN <i>toIndex</i>, <i>to-index</i>.</b> |
|-----------------|--|

---

## Explanation

The request settings have been used to specify a range of rows to return. However, the range indexes are not consistent because the from-index is greater than the to-index.

## User response

Correct the request settings and retry the request.

---

|                 |   |
|-----------------|---|
| <b>ISF2013E</b> | <b>UNACCEPTABLE RUNNER CLASS <i>class-name</i>.</b> |
|-----------------|---|

---

## Explanation

A generic runner could not be created because the class name is unacceptable.

## User response

Specify a class name that corresponds to a panel supported by the generic runner. Refer to the javadoc for a list of the classes that can be used when creating a runner.

---

|                 |  |
|-----------------|--|
| <b>ISF2101E</b> | <b>SDSF INTERNAL ERROR OCCURRED IN <i>class-name#method-name</i>, REASON=<i>reason-code</i>.</b> |
|-----------------|--|

---

## Explanation

An internal error occurred in the indicated class and method.

## User response

Follow your local procedures to contact IBM for support.

---

|                 |                                     |
|-----------------|-------------------------------------|
| <b>ISF2102E</b> | <b>TRACE TABLE ENTRY TOO LARGE.</b> |
|-----------------|-------------------------------------|

---

## Explanation

An error occurred processing an internal trace entry.

## User response

Follow your local procedures to contact IBM for support.



---

**ISF2103E      TRACE TABLE TOO LARGE.**

---

**Explanation**

An error occurred processing the internal trace table.

**User response**

Follow your local procedures to contact IBM for support.

---

**ISF2104E      TRACE TABLE ENTRY TOO SMALL.**

---

**Explanation**

An error occurred processing an internal trace entry.

**User response**

Follow your local procedures to contact IBM for support.

---

**ISF2105E      TRACE TABLE TOO SMALL.**

---

**Explanation**

An error occurred processing the internal trace table.

**User response**

Follow your local procedures to contact IBM for support.

---

**ISF2106E      CANNOT CONVERT VALUE *value*  
WITH RESULT *result*.**

---

**Explanation**

An error occurred processing an internal trace entry.

**User response**

Follow your local procedures to contact IBM for support.

---

**ISF2201W      RESPONSE LIMIT IN EFFECT,  
*number* OF *total* OBJECTS  
RETURNED.**

---

**Explanation**

A request limit was set for the current request. The number of objects returned is limited by the request limit in ISFRequestSettings.

**User response**

None.

---

**ISF2202I      PROCESSING STARTED...**

---

**Explanation**

SDSF has started processing a request.

**User response**

None.

---

**ISF2203I      PROCESSING COMPLETED.**

---

**Explanation**

SDSF has finished processing a request.

**User response**

None.

---

**ISF2204E      VALUE NOT ALLOWED FOR  
OPTION "*option*".**

---

**Explanation**

A value was specified for option *option*, but the option does not accept values.

**User response**

Remove the value from the option and retry the request.

---

**ISF2205E      VALUE REQUIRED FOR OPTION  
"*option*".**

---

**Explanation**

An option was specified without a value, but the option requires that a value be used.

**User response**

Add a value to the option and retry the request.

---

**ISF2206I      REPORT BEING WRITTEN TO  
*pathname*.**

---

**Explanation**

A report has been requested and is being written to the named path.

**User response**

None.

---

**ISF2207E      UNABLE TO OPEN REPORT FILE  
*pathname*, REASON=*reason-text*.**

---

### Explanation

An error occurred attempting to open the report file using the named path. The report will be written to stdout.

### User response

Ensure the path names a valid path for the report.

---

#### ISF2208E UNRECOGNIZED OPTION "*option*".

### Explanation

An unknown option was specified.

### User response

Correct the option and try the request again.

---

#### ISF2209I PARAMETERS IGNORED.

### Explanation

A request was processed that does not accept parameters, but parameters were specified. The parameters are ignored and processing continues.

### User response

Remove the unsupported parameters.

---

#### ISF2210W RESPONSE LIMIT IN EFFECT, *number* OBJECTS RETURNED.

### Explanation

A response limit was set for the current request. The number of objects returned is limited by the response limit in ISFRequestSettings.

### User response

None required.

---

#### ISF2211I OPTION *option* IS OBSOLETE AND IGNORED

### Explanation

The named invocation *option* is obsolete and ignored. Note that the option must be syntactically correct.

### User response

None required. It is recommended that you remove the option because it is not supported.

---

#### ISF4000E No host response received.

### Explanation

A request was sent to SDSF, but a response was not received.

### User response

Verify that the SDSF server is active and retry the request.

---

#### ISF4001E Error occurred processing host response, reason: *reason-text*.

### Explanation

An error occurred processing a response from SDSF. The *reason-text* describes the error that occurred.

### User response

Use the reason text from the message to diagnose and correct the error, then retry the request.

---

#### ISF4002E Row token not provided.

### Explanation

A request is being processed that references a row. The row contains a row token used to uniquely identify the row, however, the row token was not found.

### User response

Ensure the row dictionary has not been modified from the row that was returned by SDSF and retry the request.

---

#### ISF4003E No action character provided.

### Explanation

An attempt was made to modify a row using the `action()` method, but no action character was provided.

### User response

Correct the action method and retry the request.

---

#### ISF4004E Action *action-character* is not valid, valid actions are *valid-actions*.

### Explanation

The action character *action-character* is not valid for the panel or request being processed. The valid actions are listed in the message text.

### User response

Correct the action method and retry the request.

**ISF4005E**      **Unable to issue command, command text not provided.**

### Explanation

An attempt was made to issue a console command, but no command text was provided.

### User response

Correct the command and retry the request.

**ISF4007E**      **Invalid options found: *option-list*, valid options are: *valid-option-list*.**

### Explanation

A request specified one or more options. In the message text, *option-list* names either an unrecognized option or an option that is not valid for the request being performed. The options that are acceptable are shown in *valid-option-list*.

### User response

Correct the options and retry the request.

**ISF4008E**      **Option *option-name* has an incorrect data type where *data-type* is expected.**

### Explanation

A request specified *option-name*, but the value has an incorrect data type. The expected data type is *data-type*.

### User response

Correct the option and retry the request.

**ISF4009E**      **Load for *dll-name* failed, DLL not found.**

### Explanation

The required *dll-name* was not found.

### User response

Verify that the pysdsf module was correctly installed and retry the request.

**ISF4010E**      **Function *function-name* not found in DLL *dll-name*.**

### Explanation

A required function *function-name* was not found in DLL *dll-name*.

### User response

Verify that the pysdsf module was correctly installed and retry the request.

**ISF4011E**      **Unable to invoke SDSF, invalid operating system level.**

### Explanation

The level of the operating system does not match the level required by SDSF. SDSF is not invoked.

### User response

Verify that the pysdsf module was correctly installed and is running on the required level of the operating system.

**ISF4099E**      **Internal error detected in *function-name*, reason: *reason-text*.**

### Explanation

An internal error has occurred processing a request in *function-name* with reason code *reason-text*. Additional messages might have been issued by Python that further describe the error.

### User response

Retry the request. If the problem persists, follow your local procedures for contacting IBM Software Support.

## Messages for IBM Health Checker for z/OS

This section describes messages that are issued as output of SDSF's checks for IBM Health Checker for z/OS.

---

**ISFH1001I**      **SDSF server *server-name* is using statements from member *member-name* of data set *dataset-name*.**

### Explanation

The SDSF server is active and using the indicated parmlib member from the named data set.

### System action

None.

### Operator response

None.

### System programmer response

None.

### Problem determination

None.

### Source

z/OS SDSF Operation and Customization

### Module

ISFHCPRM

### Reference documentation

z/OS SDSF Operation and Customization

### Automation

None.

---

**ISFH1002I**      **SDSF server *server-name* is not active, parmlib statements are not being used.**

### Explanation

The SDSF server is not active. The use of the SDSF parmlib member ISFPRMxx requires that the SDSF server be active.

IBM recommends that you use parmlib member ISFPRMxx rather than assembler macro ISFPARMS to configure SDSF. The statements in ISFPRMxx are easier to define and more dynamic than assembler macros. Some functions, such as sysplex support, are not available using the assembler macros.

### System action

In a JES2 environment, SDSF uses the assembler macro ISFPARMS for configuration parameters. In a JES3 environment, SDSF assigns default values.

### Operator response

None.

### System programmer response

Consider migrating from the assembler macro ISFPARMS to parmlib member ISFPRMxx if you plan on changing any SDSF configuration values from their default settings.

### Problem determination

None.

### Source

z/OS SDSF Operation and Customization

### Module

ISFHCPRM

### Reference documentation

z/OS SDSF Operation and Customization

### Automation

None.

---

**ISFH1003I**      **SDSF server *server-name* is active but parmlib statements are not being used. A possible syntax error in the statements may exist.**

### Explanation

The SDSF server is active but parmlib member ISFPRMxx is not being used to configure SDSF. This may be because the SDSF server detected a syntax error in the configuration statements.

### System action

In a JES2 environment, SDSF uses the assembler macro ISFPARMS for configuration parameters. In a JES3 environment, SDSF assigns default values.

### Operator response

None.

**System programmer response**

Examine the server initialization log for errors in ISFPRMxx statements. Correct any errors that prevent the statements from being activated and then use the SDSF server refresh command to reprocess the statements.

**Problem determination**

None.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCPRM

**Reference documentation**

z/OS SDSF Operation and Customization

**Automation**

None.

|                  |  |
|------------------|--|
| <b>ISFH1004I</b> | <b>SDSF is not using parmlib statements for its configuration parameters. However, no values have been customized.</b> |
|------------------|--|

**Explanation**

SDSF is not using parmlib member ISFPRMxx for its configuration parameters, and SDSF-supplied defaults are being used for all values.

**System action**

If this is a JES2 environment, SDSF is using the assembler macro based ISFPARMS. No values have been changed in ISFPARMS. If this is a JES3 environment, SDSF is using default values and is not using the assembler macro based ISFPARMS.

**Operator response**

None.

**System programmer response**

If you plan on changing any SDSF configuration values from their default settings, use parmlib member ISFPRMxx for your configuration changes.

You can use the sample members ISFPRM00 and ISFPRM01 in ISF.SISFJCL to assist you in defining your configuration.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCPRM

**Reference documentation**

z/OS SDSF Operation and Customization

**Automation**

None.

|                  |   |
|------------------|---|
| <b>ISFH1005E</b> | <b>SDSF is using assembler macro ISFPARMS for its configuration parameters.</b> |
|------------------|---|

**Explanation**

SDSF is using the assembler macro based ISFPARMS for its configuration parameters rather than parmlib member ISFPRMxx. ISFPARMS has been customized by the installation.

**System action**

None.

**Operator response**

None.

**System programmer response**

IBM recommends that you use parmlib member ISFPRMxx rather than assembler macro ISFPARMS to configure SDSF. The statements in ISFPRMxx are easier to define and more dynamic than assembler macros. Some functions, such as sysplex support, are not available using the assembler macros.

Consider migrating from the assembler macro ISFPARMS to parmlib member ISFPRMxx.

You can use the migration tool ISFACP, supplied with SDSF, to convert your existing ISFPARMS to the statement format required by parmlib member ISFPRMxx. You can also use the sample members ISFPRM00 and ISFPRM01 in ISF.SISFJCL to define your configuration.

After defining the configuration statements, refer to Chapter 3, “Using the SDSF server,” on page 73 for the steps necessary to start the SDSF server and activate the configuration.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCPRM

**Reference documentation**

z/OS SDSF Operation and Customization

**Automation**

None.

|                  |   |
|------------------|---|
| <b>ISFH1006I</b> | <b>ISFPARMS module being analyzed has a service level of <i>service-level</i>, and a compile date and time of <i>compile-date compile-time</i>.</b> |
|------------------|---|

**Explanation**

ISFPARMS will be analyzed for installation customization changes. The service level, compile date, and compile time of the ISFPARMS module that has been found are listed.

This message is only issued when the check is running in verbose mode.

**System action**

Processing continues.

**Operator response**

None.

**System programmer response**

Use the details from the message to determine that the intended level of ISFPARMS has been found on your system.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCPRM

**Reference documentation**

z/OS SDSF Operation and Customization

**Automation**

None.

|                  |   |
|------------------|---|
| <b>ISFH1007I</b> | <b>ISFPARMS group structure has been customized. No further analysis of ISFPARMS will be performed.</b> |
|------------------|---|

**Explanation**

The groups in ISFPARMS have been customized. Either the number of groups has been changed, or the group names have been changed from the defaults supplied by SDSF.

No further analysis of ISFPARMS will be performed to determine if other customizations are present.

**System action**

No further checking is done to determine which group keywords vary from the SDSF defaults.

**Operator response**

None.

**System programmer response**

Assess whether the customization is still required. Consider migrating from the assembler macro ISFPARMS to parmlib member ISFPRMxx if the configuration parameter is required.

You can use the migration tool ISFACP, supplied with SDSF, to convert your existing ISFPARMS to the statement format required by parmlib member ISFPRMxx. You can also use the sample members ISFPRM00 and ISFPRM01 in ISF.SISFJCL to define your configuration.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCPRM

**Reference documentation**

z/OS SDSF Operation and Customization

## Automation

None.

---

|                  |   |
|------------------|---|
| <b>ISFH1008I</b> | <b>This check is not applicable since SDSF is not enabled for execution on this system.</b> |
|------------------|---|

## Explanation

The IFAEDSTA service has indicated that SDSF is not enabled for execution on this system.

## System action

The check is disabled and no further checking will be done.

## Operator response

None.

## System programmer response

If SDSF should be enabled, verify that the statements in the IFAPRDxx member of parmlib are correct.

## Problem determination

None.

## Source

[z/OS MVS Initialization and Tuning Reference](#)

## Module

ISFHCPRM

## Automation

None.

## Reference documentation

[z/OS MVS Initialization and Tuning Reference](#)

---

|                  |  |
|------------------|--|
| <b>ISFH1009I</b> | <b>Load of ISFPARMS failed with abend code <i>abend-code</i> reason code <i>reason-code</i>. Analysis of ISFPARMS will not be performed.</b> |
|------------------|--|

## Explanation

The load of the ISFPARMS module failed with the indicated abend and reason codes. In a JES3 environment in which the SDSF JES2 feature is not installed, ISFPARMS will not be present and this error can be ignored.

## System action

No analysis of ISFPARMS can be done to determine if it has been customized.

## Operator response

None.

## System programmer response

Use the abend return and reason codes to determine why ISFPARMS cannot be loaded.

## Problem determination

None.

## Source

[z/OS MVS System Codes](#)

## Module

ISFHCPRM

## Automation

None.

## Reference documentation

[z/OS SDSF Operation and Customization](#)

---

|                  |   |
|------------------|---|
| <b>ISFH1015I</b> | <b>The class <i>class-name</i> is active.</b> |
|------------------|---|

## Explanation

The indicated SAF class is active, as recommended.

## System action

None.

## Operator response

None.

## System programmer response

None.

## Problem determination

None.

## Source

None.

## Module

ISFHCPRM

## Automation

None.

## Reference documentation

None.

---

**ISFH1016E**      The class *class-name* is not active.

## Explanation

The indicated SAF class is not active.

## System action

If this is a JES2 environment, SDSF will use ISFPARMS to make authorization decisions related to the class. If this is a JES3 environment, requests for authorization that are related to the class will be denied.

## Operator response

None.

## System programmer response

IBM recommends that the security administrator activate this class and define profiles in it to protect use of SDSF function. In the JES3 environment, use of SAF security is required. The class should be activated and defined with the appropriate profiles so SDSF can be used with JES3.

## Problem determination

None.

## Source

None.

## Module

ISFHCSAF

## Automation

None.

## Reference documentation

None.

---

**ISFH1017I**      RACROUTE *request-type* completed. SAF return code *saf-return-code*, return code *return-code*, reason code *reason-code*.

## Explanation

The named RACROUTE request issued by the check has completed with the indicated return and reason codes. This message is only issued in debug mode.

## System action

None.

## Operator response

None.

## System programmer response

None.

## Problem determination

None.

## Source

None.

## Module

ISFHCSAF

## Automation

None.

## Reference documentation

None.

---

**ISFH1022E**      Unable to locate resource.

## Explanation

ISFZVTBL could not be located to perform a resource level health check. This message is only issued in debug mode.

## System action

Processing continues.



## Operator response

None.

## System programmer response

Ensure that ISF.SISFLPA is in the LPA library.

## Problem determination

None.

## Source

None.

## Module

ISFHCSAF

## Automation

None.

## Reference documentation

None.

---

|                  |  |
|------------------|--|
| <b>ISFH1023E</b> | <b>Unable to obtain resource to build profile table.</b> |
|------------------|--|

## Explanation

Storage could not be obtained to build the resource profile table. This message is only issued in debug mode.

## System action

Processing continues.

## Operator response

None.

## System programmer response

None.

## Problem determination

None.

## Source

None.

## Module

ISFHCSAF

## Automation

None.

## Reference documentation

None.

---

|                  |  |
|------------------|--|
| <b>ISFH1024E</b> | <b>Unable to obtain resource data.</b> |
|------------------|--|

## Explanation

No resource was defined or the resource vector could not be obtained. This message is only issued in debug mode.

## System action

Processing continues.

## Operator response

None.

## System programmer response

None.

## Problem determination

None.

## Source

None.

## Module

ISFHCSAF

## Automation

None.

## Reference documentation

None.

---

|                  |   |
|------------------|---|
| <b>ISFH1025I</b> | <b>The class SDSF is not RACLISTed.</b> |
|------------------|---|

## Explanation

The SDSF class is not RACLISTed.

**System action**

Processing continues.

**Operator response**

None.

**System programmer response**

None.

**Problem determination**

None.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCSAF

**Automation**

None.

**Reference documentation**

z/OS SDSF Operation and Customization

---

**ISFH1027E      At least one SDSF resource  
                         resulted in a SAF no decision.****Explanation**

SAF could not make a decision for one or more entries in table. Access to the resource will be either allowed or denied based on the FAILRC4 or NOFAILRC4 specification in ISFPRMxx.

**System action**

None.

**Operator response**

None.

**System programmer response**

IBM recommends that all resources have corresponding profiles, so that a SAF indeterminate result does not occur.

**Problem determination**

None.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCSAF

**Automation**

None.

**Reference documentation**

z/OS SDSF Operation and Customization

---

**ISFH1033E      Unable to locate module ISFRDEF.****Explanation**

Unable to locate ISFRDEF to perform resource level health check.

**System action**

Processing continues.

**Operator response**

None.

**System programmer response**

Ensure that ISF.SISFLPA is in the LPALIB.

**Problem determination**

None.

**Source**

z/OS SDSF Operation and Customization

**Module**

ISFHCSAF

**Automation**

None.

**Reference documentation**

z/OS SDSF Operation and Customization

## SDSF user abend codes

This section explains the codes that SDSF issues in the case of an abend. The entry for each abend code includes a brief description of the meaning of the code and a suggested response for the system programmer.

The SDSF abend codes are issued in the SDSF ABEND USER message described in [Chapter 15, “SDSF messages and codes,”](#) on page 461 (ISF012I). System abend codes are in the SDSF ABEND SYSTEM message (also ISF012I). See the appropriate system codes manual for information on system abend codes.

Table 308. SDSF Abend Codes

| Abend Code  | Explanation   |
|-------------|---|
| <b>0010</b> | SDSF was invoked in an inconsistent manner.<br><i>System Programmer Response:</i> Check that SDSF was not invoked using an incorrect entry point, such as a line mode invocation using an interactive entry point.  |
| <b>0011</b> | The logical screen size was changed to less than the minimum width of 80 characters.<br><i>User Response:</i> Change the logical screen size to have a width of at least 80 characters.   |
| <b>0012</b> | SDSF detected a non-supported terminal. The terminal has a line length of less than 80 characters.<br><i>User Response:</i> Use a terminal with a line length of at least 80 characters.  |
| <b>0013</b> | An error has occurred opening a file. A read to the job file control block (JFCB) may have failed.<br><i>System Programmer Response:</i> Check for a JCL or hardware error. If you are running SDSF in batch, be sure you have allocated both ISFIN and ISFOUT.   |
| <b>0015</b> | A system initialization error has occurred.<br><i>System Programmer Response:</i> See an accompanying write-to-operator message for more information.   |
| <b>0016</b> | During SDSF initialization, an include or exclude list was being processed that specified an ISFNTBL TYPE=DEST macro. However, the list being processed is not for destinations. SDSF initialization is terminated after all include and exclude lists are processed. Message ISF028E is issued to further describe the error.<br><i>System Programmer Response:</i> Ensure that the ISFNTBL macro is coded correctly for the include or exclude list being processed.  |
| <b>0019</b> | During SDSF initialization, module ISFZVTBL was not located in LPA or the version of the module was incorrect. SDSF initialization is terminated. The reason code indicates the error found: <ul style="list-style-type: none"><li>• xxxx0001 - CSVQUERY failed to locate module in LPA</li><li>• xxxx0002 - Entry address not found</li><li>• xxxx0003 - Version level mismatch with client</li><li>• xxxx0004 - Feature level mismatch with client</li></ul> <i>System Programmer Response:</i> Ensure the correct level of ISFZVTBL is installed in LPA. |
| <b>0028</b> | An error was encountered while attempting to locate, retrieve, or process a SYSOUT data set record.<br><i>System Programmer Response:</i> Follow your local procedure to call IBM for service.  |
| <b>0031</b> | An invalid function code was passed to the SDSF I/O interface routine.<br><i>System Programmer Response:</i> Follow your local procedure to call IBM for service.   |

Table 308. SDSF Abend Codes (continued)

| Abend Code  | Explanation   |
|-------------|---|
| <b>0032</b> | <p>An unrecoverable error has occurred in an SDSF storage management routine. A storage request could not be satisfied.</p> <p><i>System Programmer Response:</i> Additional messages may have been issued by SDSF that describe the error. When running an SDSF/REXX exec, either increase the region size or limit the number of variables created to reduce the storage requirements. When browsing data sets or the log, ensure the ISFLINELIM variable is specified. If the problem cannot be resolved, follow your local procedure for reporting a problem to IBM.</p>  |
| <b>0041</b> | <p>There is a logic error in the SDSF DA panel routine.</p> <p><i>System Programmer Response:</i> Follow your local procedure to call IBM for service.</p>  |
| <b>0053</b> | <p>A dynamic allocation error has occurred.</p> <p><i>System Programmer Response:</i> See the associated write-to-operator message for more information.</p>  |
| <b>0061</b> | <p>The initialization of SDSF under ISPF was unsuccessful. The support for ISPF might have been installed incorrectly, or SDSF might have been put into the TSO authorized command tables. SDSF cannot run from the TSO authorized command tables.</p> <p><i>System Programmer Response:</i> Check the support for ISPF, and be sure that SDSF is not in the TSO authorized command tables.</p>   |
| <b>0071</b> | <p>The terminal has become disconnected, or there is a logic error in the terminal or display routine.</p> <p><i>System Programmer Response:</i> None, if terminal has been disconnected. Otherwise, follow your local procedure to call IBM for service.</p>   |
| <b>0072</b> | <p>SDSF has abended because the Attention key was pressed.</p> <p><i>User Response:</i> Reaccess SDSF.</p>  |
| <b>0073</b> | <p>The menu data set is defective.</p> <p><i>System Programmer Response:</i> If you have made changes to the menu data set, check the changes. If the problem cannot be found, you can replace the installed SDSF panel data set with the original panel data set on the SDSF distribution tape.</p>  |
| <b>0080</b> | <p>A SDSF initialization failure has occurred processing the JES2 checkpoint. Message ISF006I contains the explanatory information.</p> <p><i>System Programmer Response:</i> See the accompanying write-to-operator message for information.</p>   |
| <b>0081</b> | <p>The level of JES2 that SDSF was assembled for does not match the level of JES2 that is being executed.</p> <p><i>System Programmer Response:</i> Ensure that SDSF has been assembled for the proper set of JES2 macro libraries for the execution system. If the JES2 macro libraries were not correct, reassemble SDSF for the correct JES2 macro libraries. See the accompanying ISF020E message for more information on JES2 levels. Also, check the SDSF library concatenations and the library authorizations to be sure the correct level of SDSF is being used.</p> |

Table 308. SDSF Abend Codes (continued)

| Abend Code  | Explanation  |
|-------------|--|
| <b>0082</b> | <p>The level of the SDSF JES2 feature is not compatible with the level of the SDSF base code. This error may occur if maintenance is required by both the SDSF base and feature FMIDs but has been applied to only one of the FMIDs.</p> <p><i>System Programmer Response:</i> Ensure that a consistent level of the SDSF load modules is being used. Check the lnkfst data sets for compatible versions of the SISFLOAD and SISFMOD1 data sets. If maintenance has been applied to either SISFLOAD or SISFMOD1, ensure that any co-requisite relationships have been preserved when applying PTFs.</p>      |
| <b>0083</b> | <p>ISFPARMS was found to not be generated at the current level.</p> <p><i>System Programmer Response:</i> ISFPARMS was assembled using an incorrect macro level or with macros that do not correspond to this release. Reassemble ISFPARMS using the correct macro level. The abend reason codes (hexadecimal) are as follows:</p> <ul style="list-style-type: none"> <li>• 04 - Incorrect ISFPMAC release level</li> <li>• 08 - Incorrect ISFPMAC feature level</li> <li>• 0C - Incorrect ISFGRP entry length</li> <li>• 10 - Incorrect ISFGRP version</li> <li>• 14 - Incorrect ISFPMAC version</li> </ul> |
| <b>0091</b> | <p>SDSF has detected an error return code during the execution of an ISPF service. SDSF execution has terminated.</p> <p><i>System Programmer Response:</i> See the accompanying ISF039I message for more information.</p>   |
| <b>0092</b> | <p>A failure occurred when SDSF invoked an ISPF dialog service.</p> <p><i>System Programmer Response:</i> See the accompanying ISF039I message for more information.</p>   |
| <b>0093</b> | <p>SDSF has detected an error return code during the execution of an ISPF service. SDSF execution has terminated.</p> <p><i>System Programmer Response:</i> See the accompanying ISF039I message for more information.</p>   |
| <b>0105</b> | <p>A logic error has been encountered during SAF processing. Expected parameters were not available; SAF processing is unable to continue.</p> <p><i>System Programmer Response:</i> Follow your local procedure to call IBM for service.</p>  |
| <b>0113</b> | <p>An unexpected error has occurred.</p> <p><i>System Programmer Response:</i> Follow your local procedure to call IBM for service.</p>  |

Table 308. SDSF Abend Codes (continued)

| Abend Code  | Explanation   |
|-------------|---|
| <b>0201</b> | An unrecoverable error has occurred which causes the server to abend. The reason code indicates the cause for the error:  |
| <b>0001</b> | Unable to obtain storage for the CAB.   |
| <b>0002</b> | Unable to obtain storage for the SAB.   |
| <b>0003</b> | Incorrect execution environment. The server is not running in the correct protect key. Verify that a PPT entry has been defined in the SCHEDxx member of the parmlib concatenation for program ISFHCTL. |
| <b>0405</b> | Task already active.  |
| <b>040C</b> | Not started correctly.  |
| <b>0804</b> | Incorrect operating system level.   |
| <b>0808</b> | Incorrect storage key.  |
| <b>0819</b> | Incorrect execution/key storage.  |
| <b>082C</b> | Invalid environment detected.   |
| <b>0868</b> | Module LOAD failed.   |
| <b>0874</b> | - LPA module version mismatch.  |
| <b>0C04</b> | SDSF server unexpectedly unavailable.   |
| <b>0222</b> | SDSF abended in response to the ABEND command.<br><br><i>System Programmer Response:</i> The person who issued the ABEND command can print or display the dump that was requested.                      |

---

## Appendix A. SDSF problem management

This topic is a guide to resolving problems with SDSF. It includes hints for observing and identifying a problem and a reference for managing problems.

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### Observing and identifying a problem

The following are some questions you might ask yourself when you experience a problem with SDSF. They might help you identify and resolve the problem, or assist in gathering information to provide to IBM Software Support.

- Are you using new levels of JES, ISPF, or TSO? The problem might be in the relationship between SDSF and JES, ISPF, or TSO.
- Was any maintenance applied, or hardware change made, at the time the problem first appeared? The problem might be in the maintenance or hardware change.
- If maintenance has been applied recently, does SDSF run properly when it is removed? Again, the maintenance might have been improperly applied, or might itself have a problem.
- Are all users of SDSF affected by the problem, or just a few users?
- If it is a recurring problem, does it always show the same symptoms?

---

### Gathering information about a problem

Use this section when you need to gather information about a problem with SDSF, either to analyze the problem yourself, or to describe the problem to IBM Software Support.

SDSF has several built-in facilities to assist you in diagnosing and solving problems. In addition, IBM Software Support might request that you gather data (such as SDSF traces) to assist them in diagnosing SDSF problems.

Activating the facilities varies based on the environment in which SDSF is running. This section describes the steps needed for you to enable and gather the diagnostic data.

Some functions are controlled through an SDSF special DD. A special DD is a ddname that is allocated to a dummy file. During initialization, SDSF checks whether a special dd is allocated and adjusts its processing accordingly.

All SDSF special ddnames start with the characters ISF. To allocate a special DD:

- When running under TSO, use a command similar to the following: `alloc fi(isfxxxxx) dummy reus.`
- When running as a batch job, include a JCL statement similar to the following: `//ISFxxxxx DD DUMMY.`

### Getting help

If the abend message and code, along with the explanations in the documentation, do not provide you with enough information to resolve the problem, follow your local procedure for contacting IBM Software Support. Use the ABEND keyword to describe the problem and have the following documentation ready:

- A description of the panel being used and the operation being performed when the abend occurred.
- A record of any messages and abend codes issued. An error message at the system console includes such information as the name of the failing module and the contents of the registers.
- Any dump that SDSF may have taken.

### Dumps

SDSF creates a dump whenever an unrecoverable abend occurs.

When the abend occurs when running under the SDSF server, the dump is taken to the system dump data sets. Dumps might be suppressed based on your DAE settings.

When an abend occurs when running under the SDSF client (such as in an ISPF dialog), SDSF creates a transaction dump (TDUMP). A transaction dump is by default written to a data set using the user ID as the high-level qualifier. You can change this behavior using the `OPTIONS DUMPHLQ` parameter of `ISFPRMxx`. For example, you can change the `DUMPHLQ` to a specific value you can use for dump data sets. For more information, see [“OPTIONS parameters reference” on page 34](#).

In either case, the system will issue messages containing the data set name that was used for the dump or transaction dump.

SDSF might also issue messages to the joblog and syslog describing the error. The messages might contain the failing module name and offset, and the contents of the registers at time of error.

## SDSF trace

The SDSF trace facility is used to create trace records containing key environmental data useful for servicing SDSF. Trace records can be written to either a SYSOUT file or a wraparound DASD data set from strategic points in the SDSF code.

The trace facility is intended to be used under the direction of IBM Software Support.

SDSF trace is an internal facility that captures key events during processing. The trace records can be written to a SYSOUT data set, an MVS data set, or the server HSFLOG data set. Once the trace records are created, you can send the file to IBM Software Support for analysis.

SDSF early trace refers to gathering trace data during SDSF initialization. SDSF early trace is controlled through a special DD rather than the SDSF trace command.

### Enabling SDSF trace under ISPF and TSO

To enable SDSF trace when running interactively in a TSO session, perform the following steps:

1. Access SDSF.
2. Enter the following from the SDSF command line: `trace`
3. Run the failing scenario.
4. Enter the following from the SDSF command line: `trace off`
5. Access the DA panel.
6. Find your TSO session on the panel.
7. Issue the `?` action character to access the JDS (Job Data Sets) panel.
8. Find the ISFTRACE DD.
9. Issue the `XDC` action character to print the trace to a data set.
10. Send the data set to IBM Software Support for analysis.

To enable early trace when running interactively under TSO, you must allocate a trace file before accessing SDSF. When early trace is enabled, SDSF tracing is also active for the entire session until trace is stopped. Perform the following steps to enable SDSF early trace:

1. Go to ISPF option 6 or the TSO ready prompt.
2. Enter the following TSO command:

```
alloc fi(isftrace) sysout(a) reus
```

where the SYSOUT class is one appropriate for your installation.

3. Access SDSF and run the failing scenario.
4. Exit SDSF.
5. Go to ISPF option 6 or the TSO ready prompt.



6. Enter the following TSO command:

```
free fi(isftrace)
```

7. Access SDSF and go to the DA panel.
8. Find your TSO session on the panel.
9. Issue the ? action character to access the JDS (Job Data Sets) panel.
10. Find the ISFTRACE DD.
11. Issue the XDC action character to print the trace to a data set.
12. Send the data set to IBM Software Support for analysis.

## Enabling SDSF trace under batch and AFD

SDSF trace is enabled when running SDSF under batch or AFD by adding an ISFTRACE DD statement to the JCL.

Perform the following steps to enable trace:

1. Add a DD statement to the JCL similar to the following:

```
//ISFTRACE DD SYSOUT=A
```

where the SYSOUT class is one appropriate for your installation.

2. Run your SDSF batch scenario.
3. Access SDSF interactively under ISPF.
4. Access the ST panel.
5. Find your batch job on the panel.
6. Issue the XDC action character to print the job to a data set.
7. Send the data set to IBM Software Support for analysis.

## Enabling SDSF trace under SDSF REXX

SDSF trace is enabled by assigning the ISFTRACE special variable in your REXX exec.

- ISFTRACE="ON" corresponds to TRACE ON
- ISFTRACE="END" corresponds to TRACE END

Alternatively, you can allocate the ISFRXDBG special variable prior to invoking your SDSF REXX exec. When ISFRXDBG is allocated, trace will be enabled as well as SDSF sectrace, and you do not need to modify your REXX exec.

## Enabling SDSF trace under SDSF Java

In the Java environment, trace records are created by both the SDSF Java classes and SDSF itself.

### Enabling SDSF class trace

If you need to report a problem to IBM Software Support, the SDSF Java classes can produce trace records using the facilities of the `java.util.logging` package. To enable tracing, you modify your `logging.properties` file or point to your own copy of the file when invoking the SDSF Java application. For more information about Java logging, see the Javadoc for the `java.util.logging` package.

If you are using file-based logging, you can add the following statement to your `logging.properties` file to enable tracing:

```
com.ibm.zos.sdsf.level = ALL
```

You can reference your modified `logging.properties` file using the following system property when invoking your application:

```
-Djava.util.logging.config.file=logging.properties
```

When logging is enabled, by default the records will be written to stderr. You can control where the records are written through statements in the logging.properties file. Refer to the Javadoc for the java.util.logging package for details on how to implement the logging.properties file.

### Enabling SDSF trace

IBM Software Support might request that an SDSF trace be obtained. This causes SDSF to create trace records that can be used to diagnose problems.

You can enable SDSF trace by using the addISFTrace method of the ISFRequestSettings class. However, since that requires you to change your application, you can instead use the following system properties when invoking your application:

```
-Dcom.ibm.zos.sdsf.core.ISFRequestSettings.sdsfTrace=true  
-Dcom.ibm.zos.sdsf.core.ISFRequestSettings.sdsfTraceClass=sysout-class
```

where sysout-class is a SYSOUT class appropriate for your installation.

SDSF trace records are recorded to a SYSOUT file associated with the process that is running your application and the ddname of the SYSOUT file is named ISFTRACE.

Based on the SYSOUT class you selected, you can find this file by logging on to TSO and using SDSF interactively. The file will be either on the O or H panel and the job name will be the user ID under which the Java application was run, plus an additional character.

Once you find the right row on the panel, you can use the SDSF XDC command to print the trace to a data set and send it to IBM Software Support.

### Enabling SDSF trace under z/OSMF SDSF UI

SDSF trace is enabled using the settings dialog as described in the steps below.

1. Log in to z/OSMF.
2. Launch SDSF (the overview page will be displayed).
3. In the navigation tree, click the gear (settings) icon to launch the settings dialog.
4. Enable **Activate initialization tracing** (move the button to On).
5. Enable **Activate task tracing** (move the button to On).
6. Enable **Activate security tracing** (move the button to On).
7. Click **Save**.
8. Click **Yes** on the Plugin restart dialog. The SDSF plug-in reinitializes with tracing active.
9. Click the gear (settings) icon and navigate to the **Diagnostics** tab.
10. Click the **Display User** button.
11. In the response window, find **Userid** and **Jobid** and note their values.
12. Click **Close** to close the dialog.
13. Recreate the failing scenario.
14. Close the SDSF application.
15. Log on to SDSF interactively under ISPF and access the ST panel.
16. On the ST panel, find your user ID and job ID (noted above).
17. Enter the ? action character to access the Job Data Sets (JDS) panel.
18. Find the ISFTRACE data set.
19. Enter the xdc action to print the ISFTRACE to a data set.
20. Send the trace data set to IBM Software Support for analysis.

## The SDSF server log

The SDSF server creates a log under ddname HSFLOG for the SDSF address space. The log contains startup and environmental information related to the server. In addition, some error conditions may be written to the HSFLOG.

You should check the HSFLOG for any messages when encountering problems with the SDSF server.

## The SDSF log and ISFPRMxx

The SDSF server creates a log under ddname SDSFLOG for the SDSF address space for all statements read from your ISFPRMxx member. For each statement, the log shows the value that was used for each keyword. Messages are issued for any syntax errors encountered.

If your ISFPRMxx member fails to activate, use the SDSF log to determine the reason for the error.

You can also test your ISFPRMxx prior to activating it to ensure it does not contain any syntax errors. Use the F SDSF , REFRESH , M=xx , TEST operator command to syntax check your ISFPRMxx member without activating it. You can then correct any errors prior to activating it in production.

To display the current ISFPRMxx member being used by the SDSF server, issue the F SDSF , D operator command. The command response identifies the data set and member currently in use.

## Enabling security trace (sectrace)

Security trace (also referred to as sectrace) is a tool to assist you in diagnosing permission problems related to the SAF resources that SDSF checks. When sectrace is enabled, messages can be written to ULOG or the console.

SDSF protects user actions using a variety of SAF classes and resources. All the resources are documented in [Chapter 8, “Protecting SDSF panels and functions,” on page 265](#), but sectrace can show you the checks and their results in real time based on a user action.

Early sectrace refers to enabling sectrace during SDSF initialization. This can be useful for diagnosing SAF calls that occur during initialization, but prior to the SDSF main menu being shown. Early sectrace can only be enabled using a special DD since it occurs before a SET COMMAND can be entered.

Use the WTP option of sectrace when you are unable to access SDSF and thus cannot read the messages written to ULOG.

### Enabling sectrace under ISPF and TSO

To enable sectrace when you are running under ISPF or TSO, use the SET SECTRACE ON command to write the sectrace messages to ULOG.

Use the SET SECTRACE WTP command to issue the sectrace messages to your terminal rather than ULOG.

Use the special ddname ISFSECTR to enable early sectrace and write the messages to ULOG.

Use the special ddname ISFSECTW to enable early sectrace and issue the sectrace messages to your terminal.

### Enabling sectrace under SDSF REXX

To enable sectrace when running an SDSF REXX exec, assign the ISFSECTRACE special variable prior to invoking SDSF. The ISFSECTRACE special variable corresponds to the SET SECTRACE command.

- ISFSECTRACE="ON" corresponds to SET SECTRACE ON
- ISFSECTRACE="ULOG" corresponds to SET SECTRACE ULOG
- ISFSECTRACE="WTP" corresponds to SET SECTRACE WTP
- ISFSECTRACE="OFF" corresponds to SET SECTRACE OFF

Alternatively, you can allocate the ISFRXDBG special variable prior to invoking your SDSF REXX exec. When ISFRXDBG is allocated, sectrace is enabled as well as SDSF trace.

## Enabling sectrace under SDSF Java

You can enable SDSF sectrace in your SDSF Java application by using the `addISFSecTrace` method of `ISFRequestSettings`. This method corresponds to the SET SECTRACE command.

In general, using the WTP option may be the most convenient setting when running SDSF Java, because the messages are written to the joblog and syslog.

- `addISFSecTrace("ON")` corresponds to SET SECTRACE ON
- `addISFSecTrace("ULOG")` corresponds to SET SECTRACE ULOG
- `addISFSecTrace("WTP")` corresponds to SET SECTRACE WTP
- `addISFSecTrace("OFF")` corresponds to SET SECTRACE OFF

To avoid modifying your application, you can also set a system property on the java invocation, as follows:

```
-Dcom.ibm.zos.sdsf.core.ISFRequestSettings.sdsfSecTrace=sectrace-option
```

where *sectrace-option* is one of the `addISFSecTrace` values.

## Enabling sectrace under z/OSMF SDSF UI

SDSF sectrace is enabled using the settings dialog as described in the steps below.

1. Log in to z/OSMF and launch SDSF (the overview page will be displayed).
2. In the navigation tree, click the gear (settings) icon to launch the settings dialog.
3. Enable **Activate security tracing** (move the button to On).
4. Click the **Trace messages are sent to user session log** radio button.
5. Click **Save**.
6. Open the navigation bar and select a panel to access.
7. Recreate the failing scenario.
8. Access the ULOG panel.
9. Use the sectrace messages written to the ULOG to diagnose the security problem.

## Module information

IBM Software Support may request the maintenance level for an SDSF client or server module. Use the commands that follow based on the module type to display the information.

### SDSF client

To gather information on the SDSF client, use the QUERY MODULE command. The syntax is as follows:

```
➤ QUERY MODULE module-name ➤  
  Q      MOD
```

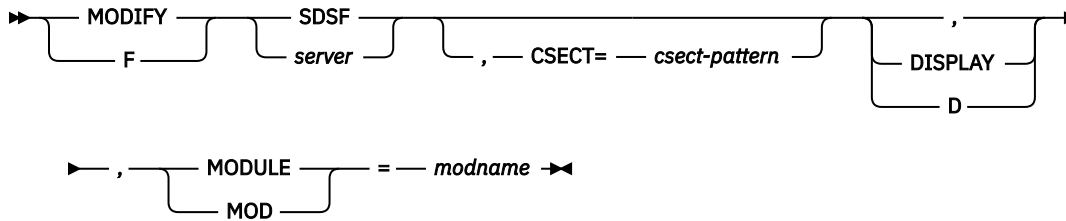
#### *module-name*

is the name of the SDSF module. The module must be in ISFVTBL or currently be loaded.

### SDSF server

To gather information on the SDSF server, use the MODIFY command. The syntax is as follows:

## Display Server Options



### ***csect-pattern***

is a pattern naming a csect within the module.

### ***module-name***

is the name of the load module.

## SDSF problem index

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### The SDSF server fails to start

The SDSF server is required for using SDSF. If the server fails to start or encounters severe errors during ISFPRMxx processing, remedial actions must be taken to restore functionality. There are two server start failure scenarios to consider:

- Failure of the server operator START command
- Failure to activate the initial ISFPRMxx parameters

#### Server operator START command failure

The SDSF server might fail to start when there is a JCL error or when a fatal environmental error is encountered.

In the event of a JCL error, SDSF cannot be used on the local system to browse the server output. However, the following alternate methods can be used:

- Access the SDSF started task output from another member system in the same MAS.
- Use ISPF option 3.8 (OUTLIST) to browse the output. This option requires TSO customization (via exit IKJEFF53) to allow you to see output for jobs that are not prefixed with your user ID. Refer to the topic *Writing an exit for the OUTPUT, STATUS, and CANCEL commands* in the [z/OS TSO/E Customization](#) documentation.

If a fatal environmental error occurs, the SDSF server issues a WTO message and then issues a U0201 abend. The root causes for this situation might be one or more of the following:

- Invalid entry in the program properties table (PPT)
- Invalid operating system release
- SDSF server not started as a started task
- Severe system storage shortage

If a U0201 abend occurs, refer to the message issued by the SDSF server and take corrective actions. If the appropriate corrective action is unclear, follow local procedures to contact IBM Software Support.

#### Initial ISFPRXxx parameter failure

When the SDSF server address space starts, but fails to activate the initial ISFPRMxx member, message ISF731E is issued, and SDSF activates an internal copy of ISFPARMS (which is equivalent to the ISF.SISFJCL(ISFPRM00) sample).

In this state, most SDSF users cannot access SDSF. However, users with READ access to the SERVER.NOPARM resource in the SDSF SAF class can connect to the SDSF server and access the product to resolve the issues.

**Note:** SERVER.NOPARM access to SDSF is intended for emergency maintenance mode only and should not be considered for normal SDSF operations.

If SDSF cannot be used interactively to browse JES output, and no access to the output is possible from other members of the MAS, the SDSF server can be stopped and then restarted with the runtime parameter **LOGTYPE=HC** to send the ISFPRMxx failure messages via WTO to the console and to hardcopy SYSLOG. Note that doing so might generate a large number of messages to the console.

An alternative to restarting the server with **LOGTYPE=HC** is to add an SDSFLOG DD statement to the SDSF started task JCL that points to a data set with DSORG=PS, RECFM=VB, LRECL=256, and BLKSIZE=32760, and then use ISPF to browse the data set.

Once errors in ISFPRMxx have been corrected, the operator command F SDSF , REF M=xx can be issued to refresh the parameters from ISFPRMxx. SDSF is supplied with a minimal ISFPRM00 PARMLIB member in SISFJCL that in most cases should activate when you issue F SDSF , REF M=00.

## Problems with the Repeat-Find PF keys (PF5 and PF17)

If you use the Repeat-Find PF keys under ISPF and they do not invoke the Repeat Find function, the problem may be that the SDSF table library was not concatenated correctly with the ISPF table libraries. You may also see the ISPF message RFIND NOT ACTIVE to indicate this. The SDSF Repeat-Find key should be defined as IFIND.

## Problems with the LOG and RETRIEVE commands

If you issue a LOG or RETRIEVE command from ISPF and it does not invoke the SDSF LOG or RETRIEVE function, the problem may be that the SDSF table library was not concatenated correctly with the ISPF table libraries.

## Users are experiencing authorization problems

If users are incorrectly being denied authorization to issue commands or access data sets, there are several possible explanations:

- SAF resources were not authorized properly. See [Chapter 8, “Protecting SDSF panels and functions,” on page 265](#) for more information on authorizing users to use commands, action characters, overtypable fields, and jobs using the SAF interface.
- The user exit module, ISFUSER, contains errors. Check any authorization code you have added to the user exit. For more information see [Chapter 12, “Using installation exit routines,” on page 437](#).

Use the security trace (SECTRA) facility to diagnose SAF authorization issues. For more information, see [“Enabling security trace \(sectrace\)” on page 601](#).

If the authorization groups and the user exit appear to be coded correctly, and you are unable to use sectrace to diagnose the problem, follow your local procedures for calling IBM Software Support.

## An SDSF message is incorrect

Follow your local procedure for calling IBM. Have the following documentation ready, using the MSG keyword to describe the problem:

- A description of the panel being used and the operation being performed when the message was received
- A record of the incorrect message

## Data on an SDSF panel is garbled or incorrect

If you have your own ISFUSER exit, verify that it has been compiled with the correct level of macros corresponding to this release.

If running under TSO and not as an ISPF dialog, verify that you are using a standard screen width and depth. If the problem persists, follow your local procedures for contacting IBM Software Support.

## Debugging SDSF REXX execs

SDSF provides some capabilities to assist you in debugging your SDSF REXX execs.

### SDSF processing messages

SDSF messages that describe its processing are written to the isfmsg2 stem variable. You should always print the isfmsg2 stem upon return from an SDSF service such as ISFEXEC and ISFACT. You can do this with code similar to the following:

```
do ix=1 to
  isfmsg2.0
  Say isfmsg2.ix
end
```

### Verbose option

When invoking an SDSF service such as ISFEXEC or ISFACT, add the verbose option. The verbose option causes messages to be added to the isfmsg2 stem variable that describe each variable that is fetched or created. Many problems with SDSF REXX execs can be diagnosed using verbose mode because you can see the variables that SDSF is using for a specific request.

The verbose option is specified in a manner similar to the following:

```
isfexec st (verbose
```

### Enabling debugging without modifying the exec

You can use the SDSF special DD ISFRXDBG to conveniently enable sectrace, issue the WHO command, and add the verbose option without modifying your SDSF REXX exec.

If you running your SDSF exec interactively under TSO, allocate ISFRXDBG with a command similar to:

```
alloc fi(isfrxdbg) dummy reus
```

If you running your SDSF exec in a batch job, add a statement similar to:

```
//ISFRXDBG DD DUMMY
```





## Appendix B. SDSF resource names for SAF security

The following tables contain a list of all the resource names you need to use SAF security. See [Chapter 5, “Using SAF for security,”](#) on page 253 for more information about using the SAF Security Interface.

Table 309. Security Classes, Resource Names, and What They Protect

| Class           | Resource Name   | Protects   |
|-----------------|---|--|
| <b>JESSPOOL</b> | <i>nodeid.userid.jobname.jobid</i>  | Jobs   |
| <b>JESSPOOL</b> | <i>nodeid.userid.jobname.jobid.<br/>GROUP.ogroupid</i>  | Output groups  |
| <b>JESSPOOL</b> | <i>nodeid.userid.jobname.jobid.<br/>Ddsid.dsname</i>  | SYSIN/SYSOUT data sets                                   |
| <b>JESSPOOL</b> | <i>nodeid.+MASTER+.SYSLOG.SYSTEM.<br/>sysname</i>   | Access to the JES logical log, for displaying the SYSLOG |
| <b>JESSPOOL</b> | <i>nodeid.userid.jobname.jobid.EVENTLOG.SMFSTEP<br/>nodeid.userid.jobname.jobid.EVENTLOG.STEPDATA</i> | JES data sets used for job steps                         |
| <b>JESSPOOL</b> | <i>nodeid.userid.groupname.groupid</i>  | Job groups   |
| <b>LOGSTRM</b>  | See <a href="#">“OPERLOG”</a> on page 317.  | Log stream used for OPERLOG                              |
| <b>LOGSTRM</b>  | See <a href="#">“IBM Health Checker for z/OS checks (CK panel)”</a> on page 279.                      | Log stream for check history (CKH panel)                 |
| <b>OPERCMDs</b> | See <a href="#">Chapter 8, “Protecting SDSF panels and functions,”</a> on page 265.                   | MVS and JES generated commands                           |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.DEBUG</i>   | DEBUG parameter of MODIFY                                |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.DISPLAY</i>   | DISPLAY parameter of MODIFY                              |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.FOLDMSG</i>   | FOLDMSG parameter of MODIFY                              |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.LOGCLASS</i>  | LOGCLASS parameter of MODIFY                             |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.REFRESH</i>   | REFRESH parameter of MODIFY                              |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.START</i>   | START parameter of MODIFY                                |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.STOP</i>  | STOP parameter of MODIFY                                 |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.TRACE</i>   | TRACE parameter of MODIFY                                |
| <b>OPERCMDs</b> | <i>server-name.MODIFY.TRCLASS</i>   | TRCLASS parameter of MODIFY                              |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>            | <b>Protects</b>  |
|--------------|---------------------------------|--|
| <b>SDSF</b>  | GROUP.group-name.server-name    | Membership in groups defined in ISFPARMS                             |
| <b>SDSF</b>  | ISF.CONNECTsystem               | To connect to the SDSF server, the user must have READ access        |
| <b>SDSF</b>  | ISFCMD.DSP.ACTIVE.jesx          | DA panel command<br><br>L action character on AW panel               |
| <b>SDSF</b>  | ISFCMD.DSP.HELD.jesx            | H panel command  |
| <b>SDSF</b>  | ISFCMD.DSP.JGROUP.jesx          | JG panel command   |
| <b>SDSF</b>  | ISFCMD.DSP.INPUT.jesx           | I panel command  |
| <b>SDSF</b>  | ISFCMD.DSP.OUTPUT.jesx          | O panel command  |
| <b>SDSF</b>  | ISFCMD.DSP.SCHENV.sysname       | SE panel command   |
| <b>SDSF</b>  | ISFCMD.DSP.STATUS.jesx          | ST panel command<br><br>ST action character on JRU panel             |
| <b>SDSF</b>  | ISFCMD.ODSP.APF.sysname         | APF panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.AS.sysname          | AS panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.AW.sysname          | AW panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.CATALOG.sysname     | CAT panel  |
| <b>SDSF</b>  | ISFCMD.ODSP.CDE.sysname         | JC action character  |
| <b>SDSF</b>  | ISFCMD.ODSP.CF.sysname          | CF panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.CFPATH.sysname      | XCFC panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.CFSACTIVITY.sysname | CFSA panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.CFSERVER.sysname    | XCFA panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.COUPLE.sysname      | CFC panel command<br><br>JDD action character<br>LC action character |
| <b>SDSF</b>  | ISFCMD.ODSP.COUPLEDS.sysname    | CFD panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.CFSTRUCT.sysname    | CFS panel command, LS action character                               |
| <b>SDSF</b>  | ISFCMD.ODSP.CSR.sysname         | CSR panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.DEVACT.sysname      | DEV panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.DEVSPACE.sysname    | DEVS panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.DYNX.sysname        | DYNX panel command   |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>                 | <b>Protects</b>  |
|--------------|--------------------------------------|--|
| <b>SDSF</b>  | ISFCMD.ODSP.EDT. <i>sysname</i>      | EDT panel  |
| <b>SDSF</b>  | ISFCMD.ODSP.ELOG. <i>sysname</i>     | ELOG panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.EMCS. <i>sysname</i>     | EMCS panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.ENCLAVE. <i>sysname</i>  | ENC panel command  |
|              |                                      | LE action character  |
| <b>SDSF</b>  | ISFCMD.ODSP.ENQUEUE. <i>sysname</i>  | ENQ panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.HCHECKER. <i>sysname</i> | CK panel command   |
|              |                                      | LCK action character   |
| <b>SDSF</b>  | ISFCMD.ODSP.FILESYS. <i>sysname</i>  | FS panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.GQE. <i>sysname</i>      | JCS action character on MFP panel  |
| <b>SDSF</b>  | ISFCMD.ODSP.TCB. <i>sysname</i>      | JT action character  |
| <b>SDSF</b>  | ISFCMD.ODSP.TRACKER. <i>sysname</i>  | GT panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.INITIATOR. <i>jesx</i>   | INIT panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.JOBCLASS. <i>jesx</i>    | JC panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.DEVICE. <i>sysname</i>   | JD action character  |
| <b>SDSF</b>  | ISFCMD.ODSP.DEVICE. <i>sysname</i>   | JDD action character on DA, AS, I, ST, INIT, MFP, and NS panels                              |
| <b>SDSF</b>  | ISFCMD.ODSP.JESCKPT. <i>jesname</i>  | JC action character (CKPT panel)   |
| <b>SDSF</b>  | ISFCMD.ODSP.JES. <i>sysname</i>      | JES panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.JRG. <i>jesx</i>         | JRG panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.JRJC. <i>jesx</i>        | JRJC panel command, JRL action character on JC panel   |
| <b>SDSF</b>  | ISFCMD.ODSP.JRJJ. <i>jesx</i>        | Job Resource Limit panel   |
| <b>SDSF</b>  | ISFCMD.ODSP.JRU. <i>jesx</i>         | Job Resource by User ID panel  |
| <b>SDSF</b>  | ISFCMD.ODSP.STORAGE. <i>sysname</i>  | CMO panel command<br>JCM action character<br><br>JM action character<br>JMO action character |
| <b>SDSF</b>  | ISFCMD.ODSP.JOB0. <i>jesx</i>        | J0 panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.LINE. <i>jesx</i>        | LI panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.LNK. <i>sysname</i>      | LNK panel command  |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>                | <b>Protects</b>                    |
|--------------|-------------------------------------|------------------------------------|
| <b>SDSF</b>  | ISFCMD.ODSP.LPA. <i>sysname</i>     | LPA panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.LPAR. <i>sysname</i>    | LPAR panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.LPD. <i>sysname</i>     | LPD panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.MAS. <i>jesx</i>        | MAS panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.MFD. <i>sysname</i>     | MFD panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.MFJ. <i>sysname</i>     | MFJ panel command                  |
|              |                                     | FJ action character on MFP panel   |
| <b>SDSF</b>  | ISFCMD.ODSP.MFM. <i>sysname</i>     | MFM panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.MFP. <i>sysname</i>     | MFP panel command                  |
|              |                                     | FP action character                |
| <b>SDSF</b>  | ISFCMD.ODSP.NETACT. <i>sysname</i>  | NA panel command                   |
|              |                                     | JDNA action character on MPF panel |
|              |                                     | L action character on NAP panel    |
| <b>SDSF</b>  | ISFCMD.ODSP.NETPORT. <i>sysname</i> | NAP panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.NC. <i>jesx</i>         | NC panel command                   |
| <b>SDSF</b>  | ISFCMD.ODSP.NODE. <i>jesx</i>       | NO panel command                   |
| <b>SDSF</b>  | ISFCMD.ODSP.NS. <i>jesx</i>         | NS panel command                   |
| <b>SDSF</b>  | ISFCMD.ODSP.OMVS. <i>sysname</i>    | OMVS panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PAGE. <i>sysname</i>    | PAGE panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PARMLIB. <i>sysname</i> | PARM panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PLEX. <i>sysname</i>    | PLEX panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PPT. <i>sysname</i>     | PPT panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.PRINTER. <i>jesx</i>    | PR panel command                   |
| <b>SDSF</b>  | ISFCMD.ODSP.PROCESS. <i>sysname</i> | PS panel command                   |
| <b>SDSF</b>  | ISFCMD.ODSP.PROCLIB. <i>jesx</i>    | PROC panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PROD. <i>sysname</i>    | PROD panel command                 |
| <b>SDSF</b>  | ISFCMD.ODSP.PUNCH. <i>jesx</i>      | PUN panel command                  |
| <b>SDSF</b>  | ISFCMD.ODSP.RACF. <i>sysname</i>    | RACF panel                         |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| Class | Resource Name                        | Protects  |
|-------|--------------------------------------|---|
| SDSF  | ISFCMD.ODSP.RACFLIST. <i>sysname</i> | RAC panel command   |
|       |                                      | RACP panel command  |
|       |                                      | RACO panel command  |
|       |                                      | L action character on RAC, RACD, RACP panels  |
|       |                                      | LA action character   |
|       |                                      | LO action character on RACF panel   |
|       |                                      | LP action character   |
| SDSF  | ISFCMD.ODSP.RACD. <i>sysname</i>     | LU action character   |
|       |                                      | S action character on RACP, RACF Access, and RACF Connects panels                         |
|       |                                      | RACD panel command  |
|       |                                      | RDR panel command   |
|       |                                      | RM panel command  |
|       |                                      | REPC panel command  |
|       |                                      | RES panel command   |
| SDSF  | ISFCMD.ODSP.RGRP. <i>sysname</i>     | RGRP panel command  |
|       |                                      | RLOG panel command  |
|       |                                      | RMA panel command   |
|       |                                      | SMFD panel command  |
|       |                                      | SMFL panel command  |
|       |                                      | SMFO panel command  |
|       |                                      | SMFR panel command  |
| SDSF  | ISFCMD.ODSP.SMFDATA. <i>sysname</i>  | SMFS panel command  |
|       |                                      | SO panel command  |
|       |                                      | SP panel command  |
|       |                                      | SR panel command  |
|       |                                      | SRVC panel command  |
|       |                                      | SMSG panel command  |
|       |                                      | SMSV panel command  |
| SDSF  | ISFCMD.ODSP.SPOOL. <i>jesx</i>       |   |
| SDSF  | ISFCMD.ODSP.SR. <i>sysname</i>       |   |
| SDSF  | ISFCMD.ODSP.SRVC. <i>sysname</i>     |   |
| SDSF  | ISFCMD.ODSP.STORGRP. <i>sysname</i>  |   |
| SDSF  | ISFCMD.ODSP.SMSVOL. <i>sysname</i>   |   |
| SDSF  | ISFCMD.ODSP.VTOC. <i>sysname</i>     | LVT action character on RACD and DASD-related panels such as CAT, CFD, DEV, DEVS, SMS, SP |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>                          | <b>Protects</b>   |
|--------------|---|---|
| <b>SDSF</b>  | ISFCMD.OPT.JESNAME                            | JESNAME parameter on SDSF command                                     |
| <b>SDSF</b>  | ISFCMD.DSP.SYMBOL. <i>sysname</i>             | SYM panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.SYSTEM. <i>sysname</i>            | DASH panel command<br>SYS panel command                               |
| <b>SDSF</b>  | ISFCMD.ODSP.VIRTSTOR. <i>sysname</i>          | VMAP panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.SYSLOG. <i>jesx</i>               | LOG panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.UCB. <i>sysname</i>               | UCB panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.ULOG. <i>jesx</i>                 | ULOG panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.WKLD. <i>sysname</i>              | WKLD panel command  |
| <b>SDSF</b>  | ISFCMD.ODSP.WLM. <i>sysname</i>               | WLM panel command   |
| <b>SDSF</b>  | ISFCMD.ODSP.CFMEMBER. <i>sysname</i>          | XCFM panel command  |
| <b>SDSF</b>  | ISFCMD.FILTER.ACTION                          | ACTION command  |
| <b>SDSF</b>  | ISFCMD.FILTER.DEST                            | DEST command  |
| <b>SDSF</b>  | ISFCMD.FILTER.FINDLIM                         | FINDLIM command   |
| <b>SDSF</b>  | ISFCMD.FILTER.INPUT                           | INPUT command   |
| <b>SDSF</b>  | ISFCMD.FILTER.OWNER                           | OWNER command   |
| <b>SDSF</b>  | ISFCMD.FILTER.PREFIX                          | PREFIX command  |
| <b>SDSF</b>  | ISFCMD.FILTER.RSYS                            | RSYS command  |
| <b>SDSF</b>  | ISFCMD.FILTER.SYSID                           | SYSID command   |
| <b>SDSF</b>  | ISFCMD.FILTER.SYSNAME                         | SYSNAME command   |
| <b>SDSF</b>  | ISFCMD.MAINT.TRACE                            | TRACE command   |
| <b>SDSF</b>  | ISFDISP.DELAY. <i>owner.jobname</i>           | JY action character on the DA panel                                   |
| <b>SDSF</b>  | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>  | JD action character on the AS, DA, I, INIT, NS, and ST panels         |
| <b>SDSF</b>  | ISFJOB.DDNAME. <i>owner.jobname.xsysname</i>  | JDD action character on the DA, AS, I, ST, INIT, MFP, and NS panels   |
| <b>SDSF</b>  | ISFJOB.MODULE. <i>owner.jobname.xsysname</i>  | JC action character on the MFP panel                                  |
| <b>SDSF</b>  | ISFJOB.STORAGE. <i>owner.jobname.xsysname</i> | JM action character on the AD, AS, DA, I, INIT, MFP, NS and ST panels |
| <b>SDSF</b>  | ISFJOB.STORAGE. <i>owner.jobname.xsysname</i> | JMO action character on the DA and AS panels                          |
| <b>SDSF</b>  | ISFJOB.TASK. <i>owner.jobname.xsysname</i>    | JT action character   |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>            | <b>Protects</b>                 |
|--------------|---------------------------------|---------------------------------|
| <b>SDSF</b>  | ISFOPER.SYSTEM                  | Command line commands           |
| <b>SDSF</b>  | ISFOPER.DEST.jesx               | Operator authority              |
| <b>SDSF</b>  | ISFAPF.dataset                  | APF data sets                   |
| <b>SDSF</b>  | ISFDEV.volser                   | DEV device activity             |
| <b>SDSF</b>  | ISFDYNX.exitname                | DYNX data sets                  |
| <b>SDSF</b>  | ISFEDT.unitname                 | Eligible device table           |
| <b>SDSF</b>  | ISFENQ.majorname.sysname        | Enqueues                        |
| <b>SDSF</b>  | ISFEMCS.consolename             | Extended console                |
| <b>SDSF</b>  | ISFJES.subsysname               | JES subsystems                  |
| <b>SDSF</b>  | ISFJRG.name.jesx                | JES resource groups             |
| <b>SDSF</b>  | ISFJRI.resourcenamejesx         | JES subsystems                  |
| <b>SDSF</b>  | ISFJRJ.jobnamejobid             | JES subsystems                  |
| <b>SDSF</b>  | ISFJRJC.type.jesx               | Job class resource limits       |
| <b>SDSF</b>  | ISFJOBCL.class.jesx             | Job class members               |
| <b>SDSF</b>  | ISFOBJ.CAT.dataset              | Catalog data sets               |
| <b>SDSF</b>  | ISFOBJ.DEVS.volser              | DASD volumes                    |
| <b>SDSF</b>  | ISFOBJ.FXE.prodname             | z/OS function registry entries  |
| <b>SDSF</b>  | ISFOBJ.RACR.sysname             | RACF RRSR nodes                 |
| <b>SDSF</b>  | ISFOBJ.SMFL.sysname             | SMF log streams                 |
| <b>SDSF</b>  | ISFOBJ.THREADS.jobname          | z/OS UNIX threads               |
| <b>SDSF</b>  | ISFOMVS.optionname              | OMVS options                    |
| <b>SDSF</b>  | ISFRACF.CLASS.classname.sysname | RACF profiles<br>JES2 resources |
| <b>SDSF</b>  | ISFRMA.NOTICE.jesx              | RMA monitor alerts              |
| <b>SDSF</b>  | ISFUCB.unit                     | Unit control blocks             |
| <b>SDSF</b>  | ISFXCFA.servername              | XCF application servers         |
| <b>SDSF</b>  | ISFXCFM.membername              | XCF groups and members          |
| <b>SDSF</b>  | ISFXCFP.pathname                | XCF signaling paths             |
| <b>SDSF</b>  | ISFFS.filesystemname            | FS file systems                 |
| <b>SDSF</b>  | ISFGT.eventowner                | GT generic tracking events      |
| <b>SDSF</b>  | ISFLNK.datasetname              | LnkLst data sets                |
| <b>SDSF</b>  | ISFMFD.dsname                   | Module fetch data sets          |
| <b>SDSF</b>  | ISFMFJ.jobname                  | Module fetch job names          |
| <b>SDSF</b>  | ISFMFM.modulename               | Module fetch statistics         |

Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b> | <b>Resource Name</b>  | <b>Protects</b>  |
|--------------|---|--|
| <b>SDSF</b>  | ISFNETACT.jobname   | NA network activity  |
| <b>SDSF</b>  | ISFPARM.datasetname   | Parmlib data sets  |
| <b>SDSF</b>  | ISFPAG.datasetname  | Page data sets   |
| <b>SDSF</b>  | ISFPLEX.sysname   | Sysplex members  |
| <b>SDSF</b>  | ISFPLIB.proc-name   | PROC data sets   |
| <b>SDSF</b>  | ISFSMFD.dsname  | SMF data sets  |
| <b>SDSF</b>  | ISFSMFO.id  | SMF options  |
| <b>SDSF</b>  | ISFSMFS.subsystem   | SMF subsystems   |
| <b>SDSF</b>  | ISFSMSVOL.filesystemname  | SMS storage volumes  |
| <b>SDSF</b>  | ISFSTORGRP.storagegroupname   | SMSG storage groups  |
| <b>SDSF</b>  | ISFSUBSYS.subsysname  | SSI subsystems   |
| <b>SDSF</b>  | ISFSYM.symbolname.sysname   | System symbols   |
| <b>SDSF</b>  | ISFSYS.sysplexname.systemname   | Systems  |
| <b>SDSF</b>  | ISFCFC.connectionname   | CF connections   |
| <b>SDSF</b>  | ISFCFS.structurename  | CF structures  |
| <b>SDSF</b>  | ISFCFSA.structurename   | CF structure activity  |
| <b>SDSF</b>  | ISFAUTH.DEST.destname   | Operator destinations for command objects and destination names for the DEST command |
| <b>SDSF</b>  | ISFAUTH.DEST.destname.DATASET.dsname<br>ISFAUTH.DEST.DATASET.dsname             | Operator destination to browse objects   |
| <b>SDSF</b>  | ISFOPER.ANYDEST.jesx  | All destinations for the DEST command  |
| <b>SDSF</b>  | ISFENC.subsys-type.subsys-name  | Enclaves   |
| <b>SDSF</b>  | ISFINIT.I(xx).jesx  | Initiators   |
| <b>SDSF</b>  | ISFJDD.CF.sysname   | Coupling facility on the JD panel  |
| <b>SDSF</b>  | ISFJDD.IP.sysname   | TCP/IP server on the JD panel  |
| <b>SDSF</b>  | ISFJOBCL.class.jesx   | Job classes  |
| <b>SDSF</b>  | ISFLINE.device-name.jesx  | Lines  |
| <b>SDSF</b>  | ISFAPPL.device-name.jesx<br>ISFSOCK.device-name.jesx<br>ISFLINEdevice-name.jesx | Network connections  |
| <b>SDSF</b>  | ISFNODE.node-name.jesx  | Nodes  |



Table 309. Security Classes, Resource Names, and What They Protect (continued)

| <b>Class</b>    | <b>Resource Name</b>  | <b>Protects</b>  |
|-----------------|---|--|
| <b>SDSF</b>     | ISFNS.device-name.jesx  | Network servers  |
| <b>SDSF</b>     | ISFPROC.owner.jobname   | z/OS UNIX processes  |
| <b>SDSF</b>     | ISFPROD.product   | Product enablement   |
| <b>SDSF</b>     | ISFSO.device-name.jesx  | Offloaders   |
| <b>SDSF</b>     | ISFRDR.device-name.jesx   | Readers  |
| <b>SDSF</b>     | ISFRES.resource.sysname   | WLM resources  |
| <b>SDSF</b>     | ISFRM.resource.jesx   | JES resources  |
| <b>SDSF</b>     | ISFSE.sched-env.sysname   | Scheduling environments                                      |
| <b>SDSF</b>     | ISFSP.volser.jesx   | Spool volumes  |
| <b>SDSF</b>     | ISFSR.ACTION.sysname.jobname  | C action character   |
| <b>SDSF</b>     | ISFSR.msg-type.sysname.jobname  | System requests, where <i>msg-type</i> is ACTION or REPLY    |
| <b>SDSF</b>     | ISFSR.REPLY.sysname.jobname   | AI, R action characters                                      |
| <b>SDSF</b>     | SERVER.NOPARM   | Fall-back to ISFPARMS in assembler format                    |
| <b>WRITER</b>   | jesx.LOCAL.devicename   | Local printers and punches, including those on other systems |
| <b>WRITER</b>   | jesx.RJE.devicename   | RJE devices  |
| <b>XFACILIT</b> | HZS.sysname.checkowner.checkname.action<br><br>where <i>action</i> is ACTIVATE, DEACTIVATE, DELETE, QUERY, REFRESH, RUN, UPDATE or MESSAGES | IBM Health Checker for z/OS                                  |

Table 310. SDSF Class Resource Names and Overtypable Fields

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.CHECK.CATEGORY</b>                         | CATEGORY                 | CK           |
| <b>ISFATTR.CHECK.DEBUG</b>                            | DEBUG                    | CK           |
| <b>ISFATTR.CHECK.EINTERVAL</b>                        | EINTERVAL                | CK           |
| <b>ISFATTR.CHECK.INTERVAL</b>                         | INTERVAL                 | CK           |
| <b>ISFATTR.CHECK.PARM</b>                             | PARAMETERS               | CK           |
| <b>ISFATTR.CHECK.REXXHLQ</b>                          | REXXHLQ                  | CK           |
| <b>ISFATTR.CHECK.SEVERITY</b>                         | SEVERITY                 | CK           |
| <b>ISFATTR.CHECK.USERDATE</b>                         | USERDATE                 | CK           |
| <b>ISFATTR.CHECK.VERBOSE</b>                          | VERBOSE                  | CK           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b>     | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.CHECK.WTOTYPE</b>                              | WTOTYPE                  | CK           |
| <b>ISFATTR.CKPT.OPVERIFY</b><br>(requires CONTROL access) | OPVERIFY                 | CKPT         |
| <b>ISFATTR.ENCLAVE.SRVCLASS</b>                           | SRVCLASS                 | ENC          |
| <b>ISFATTR.EMCS.AUTH</b>                                  | AUTH                     | EMCS         |
| <b>ISFATTR.EMCS.INTIDS</b>                                | INTIDS                   | EMCS         |
| <b>ISFATTR.EMCS.ROUTCDE</b>                               | ROUTCDE                  | EMCS         |
| <b>ISFATTR.EMCS.MSCOPE</b>                                | MSCOPE                   | EMCS         |
| <b>ISFATTR.EMCS.UNKNIDS</b>                               | UNKNIDS                  | EMCS         |
| <b>ISFATTR.INIT.ALLOC</b>                                 | ALLOC                    | INIT         |
| <b>ISFATTR.INIT.BARRIER</b>                               | BARRIER                  | INIT         |
| <b>ISFATTR.INIT.DEFCNT</b>                                | DEFCOUNT                 | INIT         |
| <b>ISFATTR.INIT.GROUP</b>                                 | GROUP                    | INIT         |
| <b>ISFATTR.INIT.MODE</b>                                  | MODE                     | INIT         |
| <b>ISFATTR.INIT.UNALLOC</b>                               | UNALLOC                  | INIT         |
| <b>ISFATTR.JOB.CLASS</b>                                  | C                        | I ST         |
| <b>ISFATTR.JOB.EXECNODE</b>                               | EXECNODE                 | I ST         |
| <b>ISFATTR.JOB.JESCANCEL</b>                              | JESCANCEL                | I ST         |
| <b>ISFATTR.JOB.PGN</b>                                    | PGN                      | DA           |
| <b>ISFATTR.JOB.PRTDEST</b>                                | PRTDEST                  | I ST         |
| <b>ISFATTR.JOB.PRTY</b>                                   | PRTY                     | I ST         |
| <b>ISFATTR.JOB.QUIESCE</b>                                | QUIESCE                  | DA           |
| <b>ISFATTR.JOB.SCHENV</b>                                 | SCHEDULING-ENV           | I ST         |
| <b>ISFATTR.JOB.SRVCLASS</b>                               | SRVCLASS                 | DA           |
| <b>ISFATTR.JOB.SRVCLS</b>                                 | SRVCLASS                 | I ST         |
| <b>ISFATTR.JOB.SYSAFF</b>                                 | SAFF                     | I ST         |
| <b>ISFATTR.JOBCL.ACCT</b>                                 | ACCT                     | JC           |
| <b>ISFATTR.JOBCL.ACTIVE</b>                               | ACTIVE                   | JC           |
| <b>ISFATTR.JOBCL.ACTION</b>                               | ACTION                   | JRJC         |
| <b>ISFATTR.JOBCL.AUTH</b>                                 | AUTH                     | JC           |
| <b>ISFATTR.JOBCL.BLP</b>                                  | BLP                      | JC           |
| <b>ISFATTR.JOBCL.COMMAND</b>                              | COMMAND                  | JC           |
| <b>ISFATTR.JOBCL.CONDPURG</b>                             | CPR                      | JC           |
| <b>ISFATTR.JOBCL.COPY</b>                                 | CPY                      | JC           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.JOBCL.DESC</b>                             | DESCRIPTION              | JC           |
| <b>ISFATTR.JOBCL.GDGBIAS</b>                          | GDGBIAS                  | JC           |
| <b>ISFATTR.JOBCL.GROUP</b>                            | GROUP                    | JC           |
| <b>ISFATTR.JOBCL.HOLD</b>                             | HOLD                     | JC           |
| <b>ISFATTR.JOBCL.IEFUJP</b>                           | UJP                      | JC           |
| <b>ISFATTR.JOBCL.IEFUSO</b>                           | USO                      | JC           |
| <b>ISFATTR.JOBCL.JCLIM</b>                            | JCLIM, XEQMAX            | JC           |
| <b>ISFATTR.JOBCL.JESCANCEL</b>                        | JESCANCEL                | JC           |
| <b>ISFATTR.JOBCL.JESLOG</b>                           | JESLOG                   | JC           |
| <b>ISFATTR.JOBCL.JLOG</b>                             | LOG                      | JC           |
| <b>ISFATTR.JOBCL.JOBRC</b>                            | JOBRC                    | JC           |
| <b>ISFATTR.JOBCL.JOURNAL</b>                          | JRNL                     | JC           |
| <b>ISFATTR.JOBCL.LIMITPCT</b>                         | LIMIT%                   | JRJC         |
| <b>ISFATTR.JOBCL.MODE</b>                             | MODE                     | JC           |
| <b>ISFATTR.JOBCL.MSGCLASS</b>                         | MC                       | JC           |
| <b>ISFATTR.JOBCL.MSGLEVEL</b>                         | MSGLV                    | JC           |
| <b>ISFATTR.JOBCL.ODISP</b>                            | ODISP                    | JC           |
| <b>ISFATTR.JOBCL.OUTPUT</b>                           | OUT                      | JC           |
| <b>ISFATTR.JOBCL.PARTNAME</b>                         | PARTNAME                 | JC           |
| <b>ISFATTR.JOBCL.PGMRNAME</b>                         | PGNM                     | JC           |
| <b>ISFATTR.JOBCL.PGN</b>                              | PGN                      | JC           |
| <b>ISFATTR.JOBCL.PROCLIB</b>                          | PL, PROCNAME             | JC           |
| <b>ISFATTR.JOBCL.PROMORATE</b>                        | PROMORT                  | JC           |
| <b>ISFATTR.JOBCL.QAFF</b>                             | QAFF                     | JC           |
| <b>ISFATTR.JOBCL.QHELD</b>                            | QHLD                     | JC           |
| <b>ISFATTR.JOBCL.REGION</b>                           | REGION                   | JC           |
| <b>ISFATTR.JOBCL.RESTART</b>                          | RST                      | JC           |
| <b>ISFATTR.JOBCL.SCAN</b>                             | SCN                      | JC           |
| <b>ISFATTR.JOBCL.SCHENV</b>                           | SCHEDULING-ENV           | JC           |
| <b>ISFATTR.JOBCL.SDEPTH</b>                           | SDEPTH                   | JC           |
| <b>ISFATTR.JOBCL.SWA</b>                              | SWA                      | JC           |
| <b>ISFATTR.JOBCL.SYSSYM</b>                           | SYSSYM                   | JC           |
| <b>ISFATTR.JOBCL.TDEPTH</b>                           | TDEPTH                   | JC           |
| <b>ISFATTR.JOBCL.TIME</b>                             | MAX-TIME                 | JC           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.JOBCL.TYPE26</b>                           | TP26                     | JC           |
| <b>ISFATTR.JOBCL.TYPE6</b>                            | TP6                      | JC           |
| <b>ISFATTR.JOBCL.XBM</b>                              | XBM                      | JC           |
| <b>ISFATTR.JOBGROUP.SCHENV</b>                        | SCHEDULING-ENV           | JG           |
| <b>ISFATTR.JOBGROUP.SYSAFF</b>                        | SAFF                     | JG           |
| <b>ISFATTR.LINE.TRANSPARENCY</b>                      | TRANSP                   | LI           |
| <b>ISFATTR.LINE.APPLID</b>                            | APPLID                   | LI           |
| <b>ISFATTR.LINE.AUTODISC</b>                          | ADISC                    | LI           |
| <b>ISFATTR.LINE.CODE</b>                              | CODE                     | LI           |
| <b>ISFATTR.LINE.COMPRESS</b>                          | COMP                     | LI           |
| <b>ISFATTR.LINE.DUPLEX</b>                            | DUPLEX                   | LI           |
| <b>ISFATTR.LINE.INTERFACE</b>                         | INTF                     | LI           |
| <b>ISFATTR.LINE.JRNUM</b>                             | JRNUM                    | LI           |
| <b>ISFATTR.LINE.JTNUM</b>                             | JTNUM                    | LI           |
| <b>ISFATTR.LINE.LINECCHR</b>                          | LINECCHR                 | LI           |
| <b>ISFATTR.LINE.LOG</b>                               | LOG                      | LI           |
| <b>ISFATTR.LINE.NODE</b>                              | NODE                     | LI           |
| <b>ISFATTR.LINE.PASSWORD</b>                          | PASSWORD                 | LI           |
| <b>ISFATTR.LINE.REST</b>                              | REST                     | LI NC        |
| <b>ISFATTR.LINE.SPEED</b>                             | SPEED                    | LI           |
| <b>ISFATTR.LINE.SRNUM</b>                             | SRNUM                    | LI           |
| <b>ISFATTR.LINE.STNUM</b>                             | STNUM                    | LI           |
| <b>ISFATTR.LOGON.PASSWORD</b>                         | PASSWORD                 | NS           |
| <b>ISFATTR.MEMBER.CKPTHOLD</b>                        | CKPTHOLD                 | MAS          |
| <b>ISFATTR.MEMBER.DORMANCY</b>                        | DORMANCY                 | MAS          |
| <b>ISFATTR.MEMBER.SELMNAME</b>                        | SELECTMODENAME           | JP           |
| <b>ISFATTR.MEMBER.SPARTN</b>                          | PARTNAME                 | JP           |
| <b>ISFATTR.MEMBER.SYNCTOL</b>                         | SYNCTOL                  | MAS          |
| <b>ISFATTR.MODIFY.BURST</b>                           | MBURST                   | SO           |
| <b>ISFATTR.MODIFY.CLASS</b>                           | MCLASS                   | SO           |
| <b>ISFATTR.MODIFY.DEST</b>                            | MDEST                    | SO           |
| <b>ISFATTR.MODIFY.FCB</b>                             | MFCB                     | SO           |
| <b>ISFATTR.MODIFY.FLASH</b>                           | MFLH                     | SO           |
| <b>ISFATTR.MODIFY.FORMS</b>                           | MFORMS                   | SO           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.MODIFY.HOLD</b>                            | MHOLD                    | SO           |
| <b>ISFATTR.MODIFY.ODISP</b>                           | MODSP                    | SO           |
| <b>ISFATTR.MODIFY.PRMODE</b>                          | MPRMODE                  | SO           |
| <b>ISFATTR.MODIFY.SYSAFF</b>                          | MSAFF                    | SO           |
| <b>ISFATTR.MODIFY.UCS</b>                             | MUCS                     | SO           |
| <b>ISFATTR.MODIFY.WRITER</b>                          | MWRITER                  | SO           |
| <b>ISFATTR.NETOPTS.APPL</b>                           | APPL                     | NS           |
| <b>ISFATTR.NETOPTS.CONNECT</b>                        | CONNECT                  | LI NC NO     |
| <b>ISFATTR.NETOPTS.CTIME</b>                          | CONN-INT                 | LI NC NO     |
| <b>ISFATTR.NETOPTS.IPNAME</b>                         | IPNAME                   | NC NS        |
| <b>ISFATTR.NETOPTS.LINE</b>                           | LINE                     | NC           |
| <b>ISFATTR.NETOPTS.LOG</b>                            | LOG                      | NS           |
| <b>ISFATTR.NETOPTS.LOGON</b>                          | LOGON                    | NC           |
| <b>ISFATTR.NETOPTS.NETSRV</b>                         | NETSRV                   | NC           |
| <b>ISFATTR.NETOPTS.NETSRV</b>                         | SRVNAME                  | NC           |
| <b>ISFATTR.NETOPTS.NSECURE</b>                        | NSECURE                  | NS           |
| <b>ISFATTR.NETOPTS.NODE</b>                           | ANODE                    | NC           |
| <b>ISFATTR.NETOPTS.PORT</b>                           | PORT                     | NC NS        |
| <b>ISFATTR.NETOPTS.SECURE</b>                         | SECURE                   | NC NO NS     |
| <b>ISFATTR.NETOPTS.SOCKET</b>                         | SOCKET                   | NS           |
| <b>ISFATTR.NETOPTS.STACK</b>                          | STACK                    | NS           |
| <b>ISFATTR.NODE.AUTHORITY</b>                         | AUTHORITY                | NO           |
| <b>ISFATTR.NODE.COMPACT</b>                           | COMPACT                  | NC           |
| <b>ISFATTR.NODE.COMPACT</b>                           | CP                       | NO           |
| <b>ISFATTR.NODE.DIRECT</b>                            | DIRECT                   | NO           |
| <b>ISFATTR.NODE.ENDNODE</b>                           | END                      | NO           |
| <b>ISFATTR.NODE.HOLD</b>                              | HOLD                     | NO           |
| <b>ISFATTR.NODE.JRNUM</b>                             | JRNUM                    | NO           |
| <b>ISFATTR.NODE.JTNUM</b>                             | JTNUM                    | NO           |
| <b>ISFATTR.NODE.LINE</b>                              | LINE                     | NC NO        |
| <b>ISFATTR.NODE.LOGMODE</b>                           | LOGMODE                  | NC NO        |
| <b>ISFATTR.NODE.LOGON</b>                             | LOGON                    | NO           |
| <b>ISFATTR.NODE.MAXRETR</b>                           | MAXRETRIES               | NO           |
| <b>ISFATTR.NODE.NETHOLD</b>                           | NHOLD                    | NO           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.NODE.NETSRV</b>                            | NETSRV                   | NO           |
| <b>ISFATTR.NODE.NODENAME</b>                          | NODENAME                 | NO           |
| <b>ISFATTR.NODE.PARTNAM</b>                           | PARTNAME                 | NO           |
| <b>ISFATTR.NODE.PATH</b>                              | PATH                     | NO           |
| <b>ISFATTR.NODE.PATHMGR</b>                           | PMG                      | NO           |
| <b>ISFATTR.NODE.PENCRYPT</b>                          | PEN                      | NO           |
| <b>ISFATTR.NODE.PRIVATE</b>                           | PRV                      | NO           |
| <b>ISFATTR.NODE.PRTDEF</b>                            | PRTDEF                   | NO           |
| <b>ISFATTR.NODE.PRTTSO</b>                            | PRTTSO                   | NO           |
| <b>ISFATTR.NODE.PRTXWTR</b>                           | PRTXWTR                  | NO           |
| <b>ISFATTR.NODE.PTYPE</b>                             | PTYPE                    | NO           |
| <b>ISFATTR.NODE.PUNDEF</b>                            | PUNDEF                   | NO           |
| <b>ISFATTR.NODE.PWCNTL</b>                            | PWCNTL                   | NO           |
| <b>ISFATTR.NODE.RECEIVE</b>                           | RECV                     | NO           |
| <b>ISFATTR.NODE.REST</b>                              | REST                     | NO           |
| <b>ISFATTR.NODE.SENDP</b>                             | SENDP                    | NO           |
| <b>ISFATTR.NODE.SENTREST</b>                          | SENTRS                   | NO           |
| <b>ISFATTR.NODE.SRNUM</b>                             | SRNUM                    | NO           |
| <b>ISFATTR.NODE.SSIGNON</b>                           | SSIGNON                  | NO           |
| <b>ISFATTR.NODE.STNUM</b>                             | STNUM                    | NO           |
| <b>ISFATTR.NODE.SUBNET</b>                            | SUBNET                   | NO           |
| <b>ISFATTR.NODE.TRACE</b>                             | TR                       | NO           |
| <b>ISFATTR.NODE.TRANSMIT</b>                          | TRANS                    | NO           |
| <b>ISFATTR.NODE.VERIFYP</b>                           | VERIFYP                  | NO           |
| <b>ISFATTR.NODE.VFYPATH</b>                           | VFYPATH                  | NO           |
| <b>ISFATTR.OFFLOAD.ARCHIVE</b>                        | ARCHIVE                  | SO           |
| <b>ISFATTR.OFFLOAD.CRTIME</b>                         | CRTIME                   | SO           |
| <b>ISFATTR.OFFLOAD.DATASET</b>                        | DSNAME                   | SO           |
| <b>ISFATTR.OFFLOAD.LABEL</b>                          | LABEL                    | SO           |
| <b>ISFATTR.OFFLOAD.NOTIFY</b>                         | NOTIFY                   | SO           |
| <b>ISFATTR.OFFLOAD.PROTECT</b>                        | PROT                     | SO           |
| <b>ISFATTR.OFFLOAD.RETENT</b>                         | RTPD                     | SO           |
| <b>ISFATTR.OFFLOAD.VALIDATE</b>                       | VALIDATE                 | SO           |
| <b>ISFATTR.OFFLOAD.VOLS</b>                           | VOLS                     | SO           |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.OMVS.VALUE</b>                             | NUMVALUE                 | OMVS         |
| <b>ISFATTR.OUTDESC.ADDRESS</b>                        | ADDRESS                  | JDS          |
| <b>ISFATTR.OUTDESC.AFPPARMS</b>                       | AFPPARMS                 | JDS          |
| <b>ISFATTR.OUTDESC.AFPSTATS</b>                       | AFPSTATS                 | JDS          |
| <b>ISFATTR.OUTDESC.BLDG</b>                           | BUILDING                 | JDS          |
| <b>ISFATTR.OUTDESC.COLORMAP</b>                       | COLORMAP                 | JDS          |
| <b>ISFATTR.OUTDESC.COMSETUP</b>                       | COMSETUP                 | JDS          |
| <b>ISFATTR.OUTDESC.DEPT</b>                           | DEPARTMENT               | JDS          |
| <b>ISFATTR.OUTDESC.FORMDEF</b>                        | FORMDEF                  | JDS          |
| <b>ISFATTR.OUTDESC.FORMLEN</b>                        | FORMLEN                  | JDS          |
| <b>ISFATTR.OUTDESC.IPDEST</b>                         | IPDEST                   | JDS          |
| <b>ISFATTR.OUTDESC.MAILBCC</b>                        | MAILBCC                  | JDS          |
| <b>ISFATTR.OUTDESC.MAILCC</b>                         | MAILCC                   | JDS          |
| <b>ISFATTR.OUTDESC.MAILFILE</b>                       | MAILFILE                 | JDS          |
| <b>ISFATTR.OUTDESC.MAILFROM</b>                       | MAILFROM                 | JDS          |
| <b>ISFATTR.OUTDESC.MAILTO</b>                         | MAILTO                   | JDS          |
| <b>ISFATTR.OUTDESC.NOTIFY</b>                         | NOTIFY                   | JDS          |
| <b>ISFATTR.OUTDESC.OCOPYCNT</b>                       | OCOPYCNT                 | JDS          |
| <b>ISFATTR.OUTDESC.OFFSETXB</b>                       | OFFSETXB                 | JDS          |
| <b>ISFATTR.OUTDESC.OFFSETXF</b>                       | OFFSETXF                 | JDS          |
| <b>ISFATTR.OUTDESC.OFFSETYB</b>                       | OFFSETYB                 | JDS          |
| <b>ISFATTR.OUTDESC.OFFSETYF</b>                       | OFFSETYF                 | JDS          |
| <b>ISFATTR.OUTDESC.OUTBIN</b>                         | OUTBN                    | JDS          |
| <b>ISFATTR.OUTDESC.OVERLAYB</b>                       | OVERLAYB                 | JDS          |
| <b>ISFATTR.OUTDESC.OVERLAYF</b>                       | OVERLAYF                 | JDS          |
| <b>ISFATTR.OUTDESC.PAGEDEF</b>                        | PAGEDEF                  | JDS          |
| <b>ISFATTR.OUTDESC.PORTNO</b>                         | PORT                     | JDS          |
| <b>ISFATTR.OUTDESC.PRINTO</b>                         | PRTOPTNS                 | JDS          |
| <b>ISFATTR.OUTDESC.PRINTQ</b>                         | PRTQUEUE                 | JDS          |
| <b>ISFATTR.OUTDESC.RETAINF</b>                        | RETAINF                  | JDS          |
| <b>ISFATTR.OUTDESC.RETAINS</b>                        | RETAINS                  | JDS          |
| <b>ISFATTR.OUTDESC.RETRYL</b>                         | RETRYL                   | JDS          |
| <b>ISFATTR.OUTDESC.RETRYT</b>                         | RETRYT                   | JDS          |
| <b>ISFATTR.OUTDESC.ROOM</b>                           | ODROOM                   | JDS          |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.OUTDESC.TITLE</b>                          | ODTITLE                  | JDS          |
| <b>ISFATTR.OUTDESC.USERDATA</b>                       | USERDATA1                | JDS          |
| <b>ISFATTR.OUTDESC.USERLIB</b>                        | USERLIB                  | JDS          |
| <b>ISFATTR.OUTPUT.BURST</b>                           | BURST                    | JDS J0       |
| <b>ISFATTR.OUTPUT.BURST</b>                           | BURST                    | H O          |
| <b>ISFATTR.OUTPUT.CHARS</b>                           | CHARS                    | JDS J0       |
| <b>ISFATTR.OUTPUT.CLASS</b>                           | C                        | H O JDS J0   |
| <b>ISFATTR.OUTPUT.COPYCNT</b>                         | CC                       | JDS J0       |
| <b>ISFATTR.OUTPUT.COPYMOD</b>                         | CPYMOD                   | JDS          |
| <b>ISFATTR.OUTPUT.DEST</b>                            | DEST (secondary JES2)    | H            |
| <b>ISFATTR.OUTPUT.DEST</b>                            | DEST                     | H O JDS J0   |
| <b>ISFATTR.OUTPUT.FCB</b>                             | FCB                      | JDS J0       |
| <b>ISFATTR.OUTPUT.FCB</b>                             | FCB                      | H O          |
| <b>ISFATTR.OUTPUT.FLASH</b>                           | FLASH                    | JDS J0       |
| <b>ISFATTR.OUTPUT.FLASH</b>                           | FLASH                    | H O          |
| <b>ISFATTR.OUTPUT.FORMS</b>                           | FORMS                    | H O JDS J0   |
| <b>ISFATTR.OUTPUT.ODISP</b>                           | ODISP                    | H JDS O      |
| <b>ISFATTR.OUTPUT.PRMODE</b>                          | PRMODE                   | H O JDS J0   |
| <b>ISFATTR.OUTPUT.PRTY</b>                            | PRTY                     | H O          |
| <b>ISFATTR.OUTPUT.UCS</b>                             | UCS                      | H O JDS J0   |
| <b>ISFATTR.OUTPUT.WRITER</b>                          | WTR                      | H O JDS J0   |
| <b>ISFATTR.PROPTS.ASIS</b>                            | ASIS                     | PR           |
| <b>ISFATTR.PROPTS.BPAGE</b>                           | B                        | PR PUN       |
| <b>ISFATTR.PROPTS.CB</b>                              | CB                       | PR           |
| <b>ISFATTR.PROPTS.CCTL</b>                            | CCTL                     | PR PUN       |
| <b>ISFATTR.PROPTS.CHAR</b>                            | CHAR1-4                  | PR           |
| <b>ISFATTR.PROPTS.CKPTLINE</b>                        | CKPTLINE                 | PR PUN       |
| <b>ISFATTR.PROPTS.CKPTMODE</b>                        | CKPTMODE                 | PR           |
| <b>ISFATTR.PROPTS.CKPTPAGE</b>                        | CKPTPAGE                 | PR PUN       |
| <b>ISFATTR.PROPTS.CKPTSEC</b>                         | CKPTSEC                  | PR           |
| <b>ISFATTR.PROPTS.CMPCT</b>                           | CMPCT                    | PR PUN       |
| <b>ISFATTR.PROPTS.COMPACT</b>                         | COMPACT                  | PR PUN       |
| <b>ISFATTR.PROPTS.COMPRESS</b>                        | COMP                     | PR PUN       |
| <b>ISFATTR.PROPTS.COPIES</b>                          | COPIES                   | PR PUN       |



Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b>    |
|---|--------------------------|-----------------|
| <b>ISFATTR.PROPTS.COPYMARK</b>                        | COPYMARK                 | PR              |
| <b>ISFATTR.PROPTS.COPYMOD</b>                         | CPYMOD                   | JO PR           |
| <b>ISFATTR.PROPTS.CTRACE</b>                          | CTR                      | LI NC NS        |
| <b>ISFATTR.PROPTS.DEVFCB</b>                          | DFCB                     | PR              |
| <b>ISFATTR.PROPTS.DGRPY</b>                           | DGRPY                    | PR PUN          |
| <b>ISFATTR.PROPTS.DYN</b>                             | DYN                      | PR PUN          |
| <b>ISFATTR.PROPTS.FLUSH</b>                           | FLS                      | PUN             |
| <b>ISFATTR.PROPTS.FSATRACE</b>                        | FSATRACE                 | PR              |
| <b>ISFATTR.PROPTS.FSSNAME</b>                         | FSSNAME                  | PR              |
| <b>ISFATTR.PROPTS.HONORTRC</b>                        | HONORTRC                 | PR              |
| <b>ISFATTR.PROPTS.JTRACE</b>                          | JTR                      | LI NC NS        |
| <b>ISFATTR.PROPTS.LRECL</b>                           | LRECL                    | PUN             |
| <b>ISFATTR.PROPTS.MARK</b>                            | M                        | PR              |
| <b>ISFATTR.PROPTS.NEWPAGE</b>                         | NEWPAGE                  | PR              |
| <b>ISFATTR.PROPTS.NPRO</b>                            | NPRO                     | PR              |
| <b>ISFATTR.PROPTS.OPACTLOG</b>                        | OPLOG                    | PR PUN          |
| <b>ISFATTR.PROPTS.PAUSE</b>                           | PAU                      | PR PUN          |
| <b>ISFATTR.PROPTS.PDEFAULT</b>                        | PDEFAULT                 | PR              |
| <b>ISFATTR.PROPTS.PRESELCT</b>                        | PSEL                     | PR              |
| <b>ISFATTR.PROPTS.RESTART</b>                         | RESTART                  | LI              |
| <b>ISFATTR.PROPTS.RTIME</b>                           | REST-INT                 | LI NS           |
| <b>ISFATTR.PROPTS.SELECT</b>                          | SELECT                   | PR PUN          |
| <b>ISFATTR.PROPTS.SEP</b>                             | SEP                      | PR PUN          |
| <b>ISFATTR.PROPTS.SEPCHARS</b>                        | SEPCHAR                  | PR              |
| <b>ISFATTR.PROPTS.SEPDS</b>                           | SEPDS                    | PR PUN RDR      |
| <b>ISFATTR.PROPTS.SETUP</b>                           | SETUP                    | PR PUN          |
| <b>ISFATTR.PROPTS.SPACE</b>                           | K                        | PR              |
| <b>ISFATTR.PROPTS.SUSPEND</b>                         | SUS                      | PUN             |
| <b>ISFATTR.PROPTS.TRACE</b>                           | TR                       | LI NC NS PR PUN |
| <b>ISFATTR.PROPTS.TRANS</b>                           | TRANS                    | PR              |
| <b>ISFATTR.PROPTS.TRKCELL</b>                         | TRKCELL                  | PR              |
| <b>ISFATTR.PROPTS.UCSVERIFY</b>                       | UCSV                     | PR              |
| <b>ISFATTR.PROPTS.UNIT</b>                            | UNIT                     | LI PR PUN SO    |
| <b>ISFATTR.PROPTS.VTRACE</b>                          | VTR                      | LI NC NS        |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b>    |
|---|--------------------------|-----------------|
| <b>ISFATTR.PROPTS.WS</b>                              | WORK- SELECTION          | LI PR PUN SO    |
| <b>ISFATTR.PROPTS.MODE</b>                            | MODE                     | PR              |
| <b>ISFATTR.RDR.AUTHORITY</b>                          | AUTHORITY                | RDR             |
| <b>ISFATTR.RDR.CLASS</b>                              | C                        | RDR             |
| <b>ISFATTR.RDR.HOLD</b>                               | HOLD                     | RDR             |
| <b>ISFATTR.RDR.MCLASS</b>                             | MC                       | RDR             |
| <b>ISFATTR.RDR.PRIOINC</b>                            | PI                       | RDR             |
| <b>ISFATTR.RDR.PRIOLIM</b>                            | PL                       | RDR             |
| <b>ISFATTR.RDR.PRTDEST</b>                            | PRTDEST                  | RDR             |
| <b>ISFATTR.RDR.PUNDEST</b>                            | PUNDEST                  | RDR             |
| <b>ISFATTR.RDR.SYSAFF</b>                             | SAFF1                    | RDR             |
| <b>ISFATTR.RDR.TRACE</b>                              | TR                       | RDR             |
| <b>ISFATTR.RDR.UNIT</b>                               | UNIT                     | RDR             |
| <b>ISFATTR.RDR.XEQDEST</b>                            | XEQDEST                  | RDR             |
| <b>ISFATTR.RESMON.LIMIT</b>                           | LIMIT                    | RM              |
| <b>ISFATTR.RESMON.WARNPCT</b>                         | WARN%                    | RM              |
| <b>ISFATTR.RESOURCE.system</b>                        | System                   | RES             |
| <b>ISFATTR.SELECT.BURST</b>                           | SBURST                   | PR SO           |
| <b>ISFATTR.SELECT.CLASS</b>                           | SCLASS                   | PR PUN          |
| <b>ISFATTR.SELECT.CLASS</b>                           | SCLASS, SCLASS1-8        | SO              |
| <b>ISFATTR.SELECT.DEST</b>                            | SDEST1                   | PR PUN SO       |
| <b>ISFATTR.SELECT.DISP</b>                            | SDISP                    | SO              |
| <b>ISFATTR.SELECT.FCB</b>                             | SFCB                     | PR SO           |
| <b>ISFATTR.SELECT.FLASH</b>                           | SFLH                     | PR SO           |
| <b>ISFATTR.SELECT.FORMS</b>                           | SFORMS                   | PR PUN SO       |
| <b>ISFATTR.SELECT.HOLD</b>                            | SHOLD                    | SO              |
| <b>ISFATTR.SELECT.JOBCLASS</b>                        | CLASSES, CLASS1-8        | INIT            |
| <b>ISFATTR.SELECT.JOBNAME</b>                         | SJOBNAME                 | PR PUN SO       |
| <b>ISFATTR.SELECT.LIM</b>                             | LINE-LIM-LO              | PR PUN          |
| <b>ISFATTR.SELECT.LIM</b>                             | LINE-LIM-HI              | PR PUN          |
| <b>ISFATTR.SELECT.LIM</b>                             | LINE-LIMIT               | LI NC PR PUN SO |
| <b>ISFATTR.SELECT.ODISP</b>                           | SODSP                    | NC SO           |
| <b>ISFATTR.SELECT.ODISP</b>                           | SODSP                    | LI              |
| <b>ISFATTR.SELECT.OWNER</b>                           | SOWNER                   | PR PUN SO       |

Table 310. SDSF Class Resource Names and Overtypable Fields (continued)

| <b>SDSF Resource Name (UPDATE Authority Required)</b> | <b>Overtypable Field</b> | <b>Panel</b> |
|---|--------------------------|--------------|
| <b>ISFATTR.SELECT.PLIM</b>                            | PAGE-LIM-LOW             | PR           |
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