

z/OS
3.2

JES2 Data Areas Volume 1 (ALI - MWE)



Note

Before using this information and the product it supports, read the information in [“Notices” on page 1229](#).

This edition applies to IBM® z/OS® 3.2 (5655-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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How to provide feedback to IBM

We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information. For more information, see [How to send feedback to IBM](#).

Chapter 1. JES2 data areas

This topic describes the JES2 data areas that are prefixed with ALI - MWE.

\$ALINDEX information

\$ALINDEX programming interface information

\$ALINDEX is a programming interface.

\$ALINDEX heading information

Common name:	ALET index table
Macro ID:	\$ALINDEX
DSECT name:	ALINDEX
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	ALIX Offset: ALIID-ALINDEX Length: L'ALIID
Storage attributes:	Subpool: 229 Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See ALILEN
Created by:	\$ALESERV routine in HASCDSS
Pointed to by:	HXBALIDX field of the HASXB data area
Serialization:	Compare and Swap logic will be used to insert an ALET into the table for the pre-defined ALETs.
Function:	This table is used to index into the JES2 maintained ALETs. It contains data space names and the ALET for this address space to access a space. Pre-defined types are listed first. User defined types are listed later. This table is built and maintained by the \$ALESERV service.

\$ALINDEX mapping

Table 1. Structure ALINDEX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ALINDEX	, Cell Pool Index Table
0	(0)	CHARACTER	4	ALIID	ALINDEX Identifier
4	(4)	ADDRESS	1	ALIVRSN	ALINDEX Version
4	(4)	X'1'	0	ALIVNUM	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	ALISTART(0)	Start of pre-defined ALETs

Table 1. Structure ALINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Mapping of each ALET entry					
8	(8)	X'0'	0	ALIENAME	"0,8,C'C'" The name of the ALET
8	(8)	X'8'	0	ALIEALET	"8,4,C'A'" The ALET itself
8	(8)	X'C'	0	ALIEFLAG	"12,1,C'B'" ALET flag byte
	1... ..			ALIEFCOM	"B'10000000'" ALET for SCOPE=COMMON data space
EQU 13,3 Reserved					
8	(8)	X'10'	0	ALIELEN	"16" Length of an entry
8	(8)	CHARACTER	8	ALISAPID	SAPID data space
24	(18)	CHARACTER	8	ALICKVR	Checkpoint versions data space
40	(28)	CHARACTER	8	ALIPSO	Process Sysout Blocks
56	(38)	CHARACTER	8	ALISTAC	Status/cancel blocks
72	(48)	CHARACTER	8	ALINAT	Nodes Attached Table
88	(58)	CHARACTER	8	ALINIT	Nodes Information Table
104	(68)	CHARACTER	8	ALIPCL	Persistent connection
120	(78)	CHARACTER	8	ALITBUF	TCP/IP comm buffers
136	(88)	CHARACTER	8	ALIWTO	SJBLOGQH S35Ds
152	(98)	CHARACTER	8	ALIJQRB	JQE request blocks
152	(98)	X'A0'	0	ALISTEND	"*-ALISTART" Size of the pre-defined ALETs
152	(98)	X'A'	0	ALISTNUM	"ALISTEND/ALIELEN" Number of pre-defined ALETs
152	(98)	X'A8'	0	ALISTD	"*-ALINDEX" Size of all pre-defined ALETs
168	(A8)	SIGNED	4	ALIWSTRT(0)	Start of dynamic ALETs
168	(A8)	BITSTRING	0	ALIWORK(0)	Dynamic ALET area
168	(A8)	X'F50'	0	ALIWLEN	"*-ALIWSTRT" Size of the dynamic ALET area
168	(A8)	X'FF'	0	ALINUMEN	"(*-ALISTART)/ALIELEN" Total number of entries
168	(A8)	X'1000'	0	ALILEN	"4096" Size of the ALINDEX table

Table 2. Cross Reference for \$ALINDEX

Name	Offset	Hex Tag
ALICKVR	18	C3D2E5D9
ALIEALET	8	8
ALIEFCOM	8	80
ALIEFLAG	8	C
ALIELEN	8	10
ALIENAME	8	0
ALIID	0	C1D3C9E7
ALIJQRB	98	D1D8D9C2
ALILEN	A8	1000
ALINAT	48	D5C1E340

Table 2. Cross Reference for \$ALINDEX (continued)

Name	Offset	Hex Tag
ALINDEX	0	
ALINIT	58	D5C9E340
ALINUMEN	A8	FF
ALIPCL	68	D7C3D340
ALIPSO	28	D7E2D640
ALISAPID	8	E2C1D7C9
ALISTAC	38	E2E3C1C3
ALISTART	8	
ALISTD	98	A8
ALISTEND	98	A0
ALISTNUM	98	A
ALITBUF	78	E3C2E4C6
ALIVNUM	4	1
ALIVRSN	4	
ALIWLEN	A8	F50
ALIWORK	A8	
ALIWSTRT	A8	
ALIWTO	88	E6E3D640

\$ALIWORK information

\$ALIWORK heading information

Common name:	JES2 ALICE Processor
Macro ID:	\$ALIWORK
DSECT name:	PCE (\$ALIWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol ALCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE

Pointed to by: The \$ALIPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the ALICET PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 ALICE Processor and by its support routines and exits. \$DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$ALIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEALIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$ALIWORK mapping

Table 3. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	ALCJVECT	Address of jobs processed vector
4100	(1004)	SIGNED	4	ALCJLEN	Length of job vector
4104	(1008)	SIGNED	4	ALCHJKEY	Job key for late arrival
4108	(100C)	ADDRESS	4	ALCJVADR	Address within vector for current job
4112	(1010)	SIGNED	4	ALCJVBIT	Bit with byte for curr job
4112	(1010)	X'EC4'	0	ALCPCEWS	"*-PCEWORK" Length of \$ALICE PCE

\$APT information

\$APT programming interface information

\$APT is a programming interface.

\$APT heading information

Common name: NJE/SNA Application Table

Macro ID: \$APT

DSECT name: APT

Owning component: JES2 (SC1BH)

Eye-catcher ID: APT
Offset: APTID
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: VIRTUAL - anywhere
REAL - anywhere

Size: See APTLEN

Created by: APPLDYN service in HASPSNA

Pointed to by: \$APPLTBL field of the HCT data area
APTCHAIN field of the APT data area

Serialization: JES2 main task

Function: An APT describes an NJE/SNA application. The APPLIDs defined in APTs match APPLIDs defined to VTAM.

\$APT mapping

Table 4. Structure APT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	APT	SNA/NJE APPLICATION DSECT
0	(0)	CHARACTER	4	APTID	CONTROL BLOCK IDENTIFIER
0	(0)	X'1'	0	APTVRNUM	"1" CONTROL BLOCK VERSION EQUATE
4	(4)	ADDRESS	1	APTVRSN	CONTROL BLOCK VERSION
5	(5)	ADDRESS	3		RESERVED FOR FUTURE USE
8	(8)	CHARACTER	8	APTAPLID	APPLICATION ID FROM APPL STMT
16	(10)	CHARACTER	1	APTCTAB	COMPACTION TABLE NUMBER
17	(11)	BITSTRING	1	APTFLAGS	APPL TABLE FLAG BYTE
		1...		APTFINS	"B'10000000'" APPL IN SESSION
		.1..		APTFOPDP	"B'01000000'" OPNDST ISSUED-AWAITING RESPONSE
		..1.		APTFOPSP	"B'00100000'" OPNSEC ISSUED-AWAITING
		...1		APTFDYN	"B'00010000'" DYNAMICALLY ALLOCATED APT, NOT DUE TO APPL INIT STMT OR \$ADD
		.... 1...		APTFANCY	"B'00001000'" Automatically start/restart NJE to this APPL
		.... .1..		APTFANCN	"B'00000100'" Never Automatically start/restart NJE to this APPL
18	(12)	CHARACTER	1	APTFEAT	APPL FEATURES-RECV'D IN FM HDR
19	(13)	CHARACTER	1	APTRIDFM	RID FORMATS-RECV'D IN FM HEADER
20	(14)	SIGNED	2	APTNODE	NODE NUMBER WHERE APPL EXISTS
22	(16)	SIGNED	2	APTREST	APPLICATION RESISTANCE
24	(18)	ADDRESS	4	APTCHAIN	ADDR OF NEXT APT
28	(1C)	CHARACTER	8	APTLMODE	VTAM LOGMODE
36	(24)	SIGNED	2	APTLINE	Dedicated line number
38	(26)	SIGNED	2	APTLOGN	LOGON DCT NUMBER
40	(28)	SIGNED	2	APTANINT	Restart interval (minutes)
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	APTANTIM	NJE disconnect time (STCK)
48	(30)	ADDRESS	8	APTCDC	CDCT address
56	(38)	ADDRESS	4	APTLOGD	Address of LOGON DCT
60	(3C)	ADDRESS	4	APTLIND	Address of LINE DCT
60	(3C)	X'40'	0	APTLEN	"*-APT" LENGTH OF APT

Table 5. Cross Reference for \$APT

Name	Offset	Hex Tag
APT	0	
APTANINT	28	
APTANTIM	2C	
APTAPLID	8	40404040
APTCDC	30	
APTCHAIN	18	
APTCTAB	10	
APTFANCN	11	4
APTFANCY	11	8
APTFDYN	11	10
APTFEAT	12	
APTFINS	11	80
APTFLAGS	11	0
APTFOPDP	11	40
APTFOPSP	11	20
APTID	0	
APTLN	3C	40
APTLIND	3C	
APTLIN	24	
APTLMODE	1C	
APTLOGD	38	
APTLOGN	26	
APTNODE	14	0
APTREST	16	
APTRIDFM	13	
APTVRNUM	0	1
APTVRSN	4	

\$ARMG information

\$ARMG heading information

Common name:	JES2 ARM support JESXCF message
Macro ID:	\$ARMG
DSECT name:	ARMG
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'ARMG' Offset: ARMGID-ARMG Length: L'ARMG

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See ARMGSIZE

Created by: HASPARM

Pointed to by: N/A

Serialization: None required

Function: Represents a JESXCF message intended for the ARM support processor.

\$ARMG mapping

Table 6. Structure ARMG

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ARMG	, JES2 ARM support JESXCF message
0	(0)	CHARACTER	4	ARMGID	Control block eyecatcher
4	(4)	SIGNED	4	ARMGLEN	Length of message
8	(8)	BITSTRING	1	ARMGTYPE	Message type
8	(8)	X'1'	0	ARMGDREG	"1" JES-initiated deregister
9	(9)	BITSTRING	1	ARMGVER	Version
9	(9)	X'1'	0	ARMGVERN	"1" Current version
10	(A)	BITSTRING	1	ARMGSMEM	Sending member number
11	(B)	BITSTRING	1	ARMGRSV1	Reserved for future use
12	(C)	CHARACTER	8	ARMGJTOK(0)	Job token
12	(C)	CHARACTER	4	ARMGJBNM	Job number
16	(10)	CHARACTER	4	ARMGJBKY	Job key
20	(14)	BITSTRING	4	ARMGRSV2	Reserved for future use
20	(14)	X'18'	0	ARMGSIZE	"*-ARMG" Size of ARMG

Table 7. Cross Reference for \$ARMG

Name	Offset	Hex Tag
ARMG	0	
ARMGDREG	8	1
ARMGID	0	
ARMGJBKY	10	
ARMGJBNM	C	
ARMGJTOK	C	
ARMGLEN	4	
ARMGRSV1	B	
ARMGRSV2	14	
ARMGSIZE	14	18
ARMGSMEM	A	
ARMGTYPE	8	

Table 7. Cross Reference for \$ARMG (continued)

Name	Offset	Hex Tag
ARMGVER	9	
ARMGVERN	9	1

\$ARMT information

\$ARMT heading information

Common name:	JES2 ARM support trace record
Macro ID:	\$ARMT
DSECT name:	ARMT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	NONE
Storage attributes:	Residency: Resides in a JES2 trace buffer in ECSA.
Size:	See ARMTSIZE
Created by:	HASPARM
Pointed to by:	N/A
Serialization:	None required
Function:	Maps JES2 trace record 26.

\$ARMT mapping

Table 8. Structure ARMT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ARMT	, JES2 ARM support trace record
Contents of JQE fields at start of ARM request					
0	(0)	BITSTRING	1	ARMTSFL1	JQEFLAG1
1	(1)	BITSTRING	1	ARMTSTYP	JQETYPE
2	(2)	BITSTRING	1	ARMTSBSY	JQEBUSY
3	(3)	BITSTRING	1	ARMTSDEV	JQEDEVID
4	(4)	BITSTRING	1	ARMTSAID	JQEARMID
5	(5)	CHARACTER	8	ARMTSCLS	Job class
Contents of JQE fields at end of ARM request					
13	(D)	BITSTRING	1	ARMTFL1	JQEFLAG1
14	(E)	BITSTRING	1	ARMTETYP	JQETYPE
15	(F)	BITSTRING	1	ARMTBSY	JQEBUSY
16	(10)	BITSTRING	1	ARMTDEV	JQEDEVID
17	(11)	BITSTRING	1	ARMTAID	JQEARMID
18	(12)	CHARACTER	8	ARMTCLS	Job class
Miscellaneous fields					
26	(1A)	BITSTRING	1	ARMTFLG1	ARMFLAG1 in \$ARMWORK

Table 8. Structure ARMT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
27	(1B)	BITSTRING	1	ARMTRSV1	Reserved for future use
28	(1C)	SIGNED	4	ARMTRC	MTRBRC
SSPJ contents at end of request					
32	(20)	BITSTRING	1	ARMTSSPJ	SSPJ
32	(20)	X'50'	0	ARMTSIZE	"*-ARMT" Size of ARMT

Table 9. Cross Reference for \$ARMT

Name	Offset	Hex Tag
ARMT	0	
ARMTEAID	11	
ARMTEBSY	F	
ARMTCLLS	12	
ARMTDEV	10	
ARMTFL1	D	
ARMTETYP	E	
ARMTFLG1	1A	
ARMTRC	1C	
ARMTRSV1	1B	
ARMTSAID	4	
ARMTSBSY	2	
ARMTSCLS	5	
ARMTSDEV	3	
ARMTSFL1	0	
ARMTSIZE	20	50
ARMTSSPJ	20	
ARMTSTYP	1	

\$ARMWORK information

\$ARMWORK heading information

Common name: ARM support PCE work area
Macro ID: \$ARMWORK
DSECT name: PCE
Owning component: JES2 (SC1BH)
Eye-catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol ARMWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: \$ARMPCE field of the \$HCT data area
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the ARM support processor. \$ARMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$ARMWORK are actually part of the PCE DSECT, but only maps the PCE with the value PCEARMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$ARMWORK mapping

Table 10. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	520		Warm PCE fields
856	(358)	ADDRESS	4	ARMTRB	Active main task request block
860	(35C)	ADDRESS	4	ARMSSPJ	SSOB extension from active request
864	(360)	SIGNED	4	ARMLINES	LINES counter
868	(364)	SIGNED	4	ARMPUNCH	PUNCH counter
872	(368)	SIGNED	4	ARMXOUT	Records counter
876	(36C)	SIGNED	4	ARMPAGES	PAGES counter
880	(370)	SIGNED	4	ARMBYTES	BYTES counter
884	(374)	SIGNED	4	ARMDKEY	DS key of last PDDDB counted
888	(378)	ADDRESS	4	ARMSQD	SQD for \$SUBIT
892	(37C)	ADDRESS	4	ARMQJQE	JQE whose registration is currently being verified
896	(380)	BITSTRING	4	ARMSAF	System affinity work area
900	(384)	BITSTRING	1	ARMFLAG1	Flags
		1... ..		ARM1ACTV	"B'10000000" \$ACTIVE done
		.1.. ..		ARM1JLOK	"B'01000000" Job lock acquired
		..1.		ARM1WARM	"B'00100000" Job was warm started
		...1		ARM1INVQ	"B'00010000" Invalidate current registration query
901	(385)	BITSTRING	1	ARMFLAG2	Serialized flag byte UPDATE USING OIL/NIL
		1... ..		ARM2MAIL	"B'10000000" Messages have arrived
902	(386)	BITSTRING	2	ARMRSV1	Reserved for future use

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
904	(388)	SIGNED	4	ARMMSGA	XCF message address
908	(38C)	SIGNED	4	ARMMSGGL	XCF message length
912	(390)	BITSTRING	8	ARMMSGTK	XCF message token
920	(398)	BITSTRING	80	ARMCTRAC	Current trace 26 record
1000	(3E8)	BITSTRING	1	ARMPTRAC	Previous trace 26 record
List form macros					
1080	(438)	DBL WORD	8	(0)	
1080	(438)	BITSTRING	160	ARMLSTFM	List form macros
1240	(4D8)	CHARACTER	1	ARMLSEND(0)	End of list form area
MACDATE -93/05/10-<1>					
1080	(438)	SIGNED	2	M00M1202(0)	IXZXIXMB-1
1080	(438)	DBL WORD	8	ARMIXMB(0)	++ IXZXIXMB PARM LIST
1080	(438)	BITSTRING	1	ARMIXMB_XVERSION	++ INPUT XVERSION
1081	(439)	CHARACTER	6	ARMIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1087	(43F)	CHARACTER	1	ARMIXMB_XRSV0001	++ RESERVED XRSV0001
1088	(440)	CHARACTER	16	ARMIXMB_XMBOXNAME	++ XMBOXNAME
1104	(450)	ADDRESS	4	ARMIXMB_XPOSTXIT	++ XPOSTXIT
1108	(454)	ADDRESS	4	ARMIXMB_XPOSTDATA	++ XPOSTDATA
1112	(458)	SIGNED	4	ARMIXMB_XPOSTALET	++ XPOSTALET
1116	(45C)	SIGNED	4	ARMIXMB_XGROUPTOKEN	++ XGROUPTOKEN
1120	(460)	BITSTRING	1	ARMIXMB_XSYSEVENTS	++ FIELD_LABEL
	1...			ARMIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
	.1..			ARMIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
1120	(460)	X'29'	0	ARMIXMBL	"*-ARMIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
1122	(462)	ADDRESS	2	(0)	Ensure area fits
MACDATE -93/05/10-<1>					
1080	(438)	SIGNED	2	M00M1203(0)	IXZXIXRM-1
1080	(438)	DBL WORD	8	ARMIXRM(0)	++ IXZXIXRM PARM LIST
1080	(438)	BITSTRING	1	ARMIXRM_XVERSION	++ INPUT XVERSION
1081	(439)	CHARACTER	6	ARMIXRM_XEYECATCH	++ CONSTANT XEYECATCH
1087	(43F)	CHARACTER	1	ARMIXRM_XRSV0001	++ RESERVED XRSV0001
1088	(440)	CHARACTER	16	ARMIXRM_XMBOXNAME	++ XMBOXNAME
1104	(450)	ADDRESS	4	ARMIXRM_XDATA	++ XDATA
1108	(454)	SIGNED	4	ARMIXRM_XDATALEN	++ XDATALEN
1112	(458)	BITSTRING	8	ARMIXRM_XMSGTOKEN	++ XMSGTOKEN
1120	(460)	SIGNED	4	ARMIXRM_XGROUPTOKEN	++ XGROUPTOKEN
1124	(464)	BITSTRING	1	ARMIXRM_XMSGFETCH	++ INPUT
	1...			ARMIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1...		ARMIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ARMIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ARMIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
1125	(465)	BITSTRING	1	ARMIXRM_XKEYS	++ FIELD_LABEL
		1...		ARMIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1125	(465)	X'2E'	0	ARMIXRML	"*-ARMIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
1126	(466)	ADDRESS	2	(0)	Ensure area fits
MACDATE -11/12/03-<1>					
0	(0)	X'438'	0	M00M1204	"ARMIXAC" ++ IXZXIXAC NAME
1080	(438)	DBL WORD	8	ARMIXAC(0)	++ IXZXIXAC PARM LIST
1080	(438)	BITSTRING	1	ARMIXAC_XVERSION	++ INPUT XVERSION
1081	(439)	CHARACTER	6	ARMIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1087	(43F)	BITSTRING	1	ARMIXAC_XSTB	++ INPUT
		1...		ARMIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		ARMIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1088	(440)	BITSTRING	8	ARMIXAC_XMSGTOKEN	++ XMSGTOKEN
1096	(448)	ADDRESS	4	ARMIXAC_XDATA	++ XDATA
1100	(44C)	SIGNED	4	ARMIXAC_XDATALEN	++ XDATALEN
1104	(450)	SIGNED	4	ARMIXAC_XUSERRC	++ XUSERRC
1108	(454)	SIGNED	4	ARMIXAC_XGROUPTOKEN	++ XGROUPTOKEN
1112	(458)	SIGNED	4	ARMIXAC_XSYSRC	++ XSYSRC
1116	(45C)	SIGNED	4	ARMIXAC_XSYSRSN	++ XSYSRSN
1120	(460)	BITSTRING	1	ARMIXAC_XKEYS	++ FIELD_LABEL
		1...		ARMIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1...		ARMIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ARMIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ARMIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ARMIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
1121	(461)	BITSTRING	1	ARMIXAC_XMSGATTR	++ INPUT
		1...		ARMIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1...		ARMIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1121	(461)	X'2A'	0	ARMIXACL	"*-ARMIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
1122	(462)	ADDRESS	2	(0)	Ensure area fits
1240	(4D8)	X'388'	0	ARMPCEWS	"*-PCEWORK" ARM PCE work area length

Table 11. Cross Reference for \$ARMWORK

Name	Offset	Hex Tag
ARMBYTES	370	
ARMCTRAC	398	
ARMDKEY	374	
ARMFLAG1	384	
ARMFLAG2	385	
ARMIXAC	438	
ARMIXAC_KEYUSED_DATA	460	80
ARMIXAC_KEYUSED_DATALEN	460	40
ARMIXAC_KEYUSED_SYSRC	460	10
ARMIXAC_KEYUSED_SYSRN	460	8
ARMIXAC_KEYUSED_USERRC	460	20
ARMIXAC_XDATA	448	
ARMIXAC_XDATALEN	44C	
ARMIXAC_XEYECATCH	439	
ARMIXAC_XGROUPTOKEN	454	
ARMIXAC_XKEYS	460	
ARMIXAC_XMSGATTR	461	
ARMIXAC_XMSGATTR_EXPRESS	461	40
ARMIXAC_XMSGATTR_J3CONNECT	461	80
ARMIXAC_XMSGTOKEN	440	
ARMIXAC_XSTB	43F	
ARMIXAC_XSTB_NO	43F	80
ARMIXAC_XSTB_YES	43F	40
ARMIXAC_XSYSRC	458	
ARMIXAC_XSYSRN	45C	
ARMIXAC_XUSERRC	450	
ARMIXAC_XVERSION	438	
ARMIXACL	461	2A
ARMIXMB	438	
ARMIXMB_XEYECATCH	439	
ARMIXMB_XGROUPTOKEN	45C	
ARMIXMB_XMBOXNAME	440	
ARMIXMB_XPOSTALET	458	
ARMIXMB_XPOSTDATA	454	
ARMIXMB_XPOSTXIT	450	
ARMIXMB_XRSV0001	43F	
ARMIXMB_XSYSEVENT_NO	460	40
ARMIXMB_XSYSEVENT_YES	460	80
ARMIXMB_XSYSEVENTS	460	

Table 11. Cross Reference for \$ARMWORK (continued)

Name	Offset	Hex Tag
ARMIXMB_XVERSION	438	
ARMIXMBL	460	29
ARMIXRM	438	
ARMIXRM_KEYUSED_MSGFETCH	465	80
ARMIXRM_XDATA	450	
ARMIXRM_XDATALEN	454	
ARMIXRM_XEYECATCH	439	
ARMIXRM_XGROUPTOKEN	460	
ARMIXRM_XKEYS	465	
ARMIXRM_XMBOXNAME	440	
ARMIXRM_XMSGFETCH	464	
ARMIXRM_XMSGFETCH_ACKS	464	10
ARMIXRM_XMSGFETCH_ALL	464	80
ARMIXRM_XMSGFETCH_MESSAGES	464	40
ARMIXRM_XMSGFETCH_SYSEVENT	464	20
ARMIXRM_XMSGTOKEN	458	
ARMIXRM_XRSV0001	43F	
ARMIXRM_XVERSION	438	
ARMIXRML	465	2E
ARMLINES	360	
ARMLSEND	4D8	
ARMLSTFM	438	
ARMMSGA	388	
ARMMSGL	38C	
ARMMSGTK	390	
ARMMTRB	358	
ARMPAGES	36C	
ARMPCEWS	4D8	388
ARMPTRAC	3E8	
ARMPUNCH	364	
ARMQYJQE	37C	
ARMRSV1	386	
ARMSAF	380	
ARMSQD	378	
ARMSSPJ	35C	
ARMXOUT	368	
ARM1ACTV	384	80
ARM1INVQ	384	10
ARM1JLOK	384	40

Table 11. Cross Reference for \$ARMWORK (continued)

Name	Offset	Hex Tag
ARM1WARM	384	20
ARM2MAIL	385	80
M00M1202	438	
M00M1203	438	
M00M1204	0	438
PCE	0	

\$ASDS information

\$ASDS heading information

Common name:	Address Space Data Store DSECT
Macro ID:	\$ASDS
DSECT name:	ASDS
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'JES2ASDS' Offset: ASDSEYEC Length: L'ASDSEYEC
Storage attributes:	Subpool: n/a Key: 1 Residency: Area created in 64 bit common storage.
Size:	See the ASDSLEN equate for the ASDS DSECT and the ASDSELEN equate for the ASDSENT DSECT.
Created by:	The Address Space Data Store is created toward the end of initialization in module HASPIRMA routine IRMVS. The ASDS DSECT is initialized at that time. An entry is created in the ASDS array every time an address space is started. The entry is described by the ASDSENT DSECT.
Pointed to by:	The CCTASDSP field of the \$HCCT data area in CSA is the base pointer to first entry in the data store. CCTASDSP-ASDSLEN gives a pointer to the header data. CCTASDSP+ADSDELEN updates the pointer to the next entry.
Serialization:	JES2 main task serialization for creating and removing ASDS entries. Some fields are updated in the user environment, but those are not updated by the JES2 main task. Read the NOTES section for further information.
Function:	The Address Space Data Store entry will contain shadowed information about jobs going into execution phase. This information will be used by SSIs to extract information about jobs instead of accessing the job's SJB, which can be a volatile control block.

\$ASDS mapping

Table 12. Structure ASDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDS	HASP Address Space Data Space DSECT
0	(0)	CHARACTER	8	ASDSEYEC	IRMA.ASDS Eyecatcher
8	(8)	SIGNED	4	ASDSHIGH	JXQ/UJB.Highest ASID used in ASDS. Full word required for Compare & Swap updt
12	(C)	SIGNED	2	ASDSJ2IH	JXQ.JES2 Initiator Chain Head
14	(E)	SIGNED	2	ASDSJ2IT	JXQ.JES2 Initiator Chain Tail
16	(10)	SIGNED	2	ASDSWLMH	JXQ.WLM Initiator Chain Head
18	(12)	SIGNED	2	ASDSWLMT	JXQ.WLM Initiator Chain Tail
20	(14)	SIGNED	2	ASDSSTCH	JXQ.Started Task Chain Head
22	(16)	SIGNED	2	ASDSSTCT	JXQ.Started Task Chain Tail
24	(18)	SIGNED	2	ASDSTSUH	JXQ.TSO Job Chain Head
26	(1A)	SIGNED	2	ASDSTSUT	JXQ.TSO Job Chain Tail
28	(1C)	SIGNED	2	ASDSRQJH	JXQ.Request Job ID Chain Head
30	(1E)	SIGNED	2	ASDSRQJT	JXQ.Request Job ID Chain Tail
32	(20)	SIGNED	2	ASDSOTHH	JXQ.Uncategorized A/S Chain Hd
34	(22)	SIGNED	2	ASDSOTHT	JXQ.Uncategorized A/S Chain TL
36	(24)	BITSTRING	2	ASDSVERS(0)	IRMA.ASDS Version/Mod
36	(24)	ADDRESS	1	ASDSVERN	IRMA.ASDS Version number
37	(25)	ADDRESS	1	ASDSMODN	IRMA.ASDS Modification #
37	(25)	BITSTRING	0	ASDSCURV	"X'0200'" ASDS Current version/mod
37	(25)	X'2'	0	ASDSCVER	"2" ASDS Current version
37	(25)	X'0'	0	ASDSCMOD	"0" ASDS Current modification
37	(25)	BITSTRING	0	ASDSVER1	"X'0100'" ASDS Version 1 Consumption Rates
37	(25)	BITSTRING	0	ASDSVER2	"X'0200'" ASDS Version 2 Data space -> 64 bit CSA
38	(26)	BITSTRING	2	ASDSSEGS	Num 1M segments in ASDS
40	(28)	ADDRESS	8	ASDSARTS	IRMA.Origin of ART tables
48	(30)	DBL WORD	8	(0)	Align on double word bndry
48	(30)	X'30'	0	ASDSLLEN	"*-ASDS" ASDS header length

Table 13. Structure ASDSENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDSENT	HASP ASDS Entry DSECT
0	(0)	SIGNED	2	ASEASID	JXQ.ASID of address space
2	(2)	SIGNED	2	ASENEXT	JXQ.Next ASDS entry of this address space type
4	(4)	SIGNED	2	ASEPREV	JXQ.Previous ASDS entry of this address space type
6	(6)	BITSTRING	1	ASEFLAG1	Flag indicator
		1...		ASE1J2I	"B'10000000'" JXQ.JES2 Initiator
		.1..		ASE1WLMI	"B'01000000'" JXQ.WLM Initiator
		..1.		ASE1STC	"B'00100000'" JXQ.STC (not JES2 initiator, Req Job ID)
		...1		ASE1TSO	"B'00010000'" JXQ.Entry for TSO user

Table 13. Structure ASDSENT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... 1...		ASE1RQJ	"B'00001000" JXQ.Request Job ID
		.... .1...		ASE10THR	"B'00000100" JXQ.Uncategorized addr sp
		.... ..1.		ASE1AJOB	"B'00000010" JXQ.Active job in addr sp
		.... ...1		ASE1GONE	"B'00000001" JXQ.Addr space terminated
		.... ....		ASE1NOTU	"B'00000000" JXQ.ASDS entry not used b4
7	(7)	BITSTRING	1	ASEFLAG2	Second flag indicator
		1...		ASE2RLIM	"B'10000000" RLM. \$TJ RAISE_LIMITS
		.1..		ASE2JCAN	"B'01000000" LTS. Job was canceled
8	(8)	BITSTRING	8	ASEASCBT	JXQ.Address space token
16	(10)	CHARACTER	8	ASEAJBID	JXQ.Address space job ID (for STC, TSU and INIT jobid)
Job fields					
24	(18)	CHARACTER	8	ASEJCLAS	JXQ.Batch job's job class
32	(20)	CHARACTER	8	ASEJOBNM	JXQ.Batch job name
40	(28)	CHARACTER	8	ASEJOBID	JXQ.Batch job ID
48	(30)	CHARACTER	8	ASEUSRID	UJB.Batch job user ID
56	(38)	CHARACTER	8	ASESECLB	UJB.Batch job security lbl
64	(40)	CHARACTER	8	ASEWSCN	JXQ.Batch job service class
72	(48)	ADDRESS	4	ASECSCB	UJB.Address of CSCB (in common storage)
Initiator fields					
76	(4C)	ADDRESS	4	ASIPIT	JXQ.Addr of JES2 Init PIT (in common storage)
80	(50)	CHARACTER	8	ASIWSCNO	JXQ.WLM Initiator service class
88	(58)	BITSTRING	1	ASIWLMIS	JXQ.WLM Initiator Status
		1...		ASIWLMIA	"B'10000000" WLM Initiator Active
		.1..		ASIWLMII	"B'01000000" WLM Initiator Inact (selecting job)
The following two settings are used to request state changes for WLM Initiators and are not a status setting found in field ASIWLMIS (but the settings cannot conflict with other ASIWLMIS status values).					
		.... ..1.		ASIWLMIT	"B'00000010" Initialize/create WLM Initiator ASDS ent
		.... ...1		ASIWLMD5	"B'00000001" Destroy/remove WLM Initiator ASDS ent
89	(59)	BITSTRING	3		Reserved
92	(5C)	ADDRESS	4	ASEASCB	JXQ.ASCB address
96	(60)	ADDRESS	4	ASESJB	JXQ.SJB address
Allocated Resource Tables (ARTs) Array of table entries that point to the history of allocations for given resource types					
100	(64)	SIGNED	4	ASEART(0)	Start of Allocation Resource Tables (ARTs)

Table 13. Structure ASDSENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	BITSTRING	0	ASEARTTB(0)	Array of ART entries for resource allocations
196	(C4)	BITSTRING	4	ASEJKEY	JXQ.Job Key
Resource management entry for SP00L/TGs mapped by LRMENTRY in \$RESGRP					
200	(C8)	BITSTRING	32	ASETGRME	JXQ/LTS/ART/UJB. TG rsrc management entry
Resource management entry for JOEs mapped by LRMENTRY in \$RESGRP					
232	(E8)	BITSTRING	32	ASEJORME	JXQ/LTS/UJB. JOE rsrc management entry
<p>Address Space Performance counters (mapped by APCDATA) ASEAPCT is total used by completed job steps. This is obtained from SMF 30 subtype 4 records. If ASEAPCT.APCSTIME = 0, use ASEAPCTP instead, because sample is in progress. ASEAPCS is sample data obtained by LIMITS subtask. If ASEAPCS.APCSTIME = 0, use ASEAPCSP instead, because sample is in progress. Total usage by job is job step data plus sample data. However, do not add sample data if timestamp of a sample is earlier than timestamp of job step data.</p>					
264	(108)	BITSTRING	48	ASEAPCT	Job step data
312	(138)	BITSTRING	48	ASEAPCTP	Same - previous copy
360	(168)	SIGNED	4	ASESTPCT	Count of completed steps
364	(16C)	BITSTRING	4		Reserved
368	(170)	BITSTRING	48	ASEAPCS	Sample data
416	(1A0)	BITSTRING	48	ASEAPCSP	Same - previous copy
464	(1D0)	DBL WORD	8	(0)	End on a double work bndry
464	(1D0)	X'1D0'	0	ASDSELEN	"*-ASDSENT" ASDS entry length
464	(1D0)	ADDRESS	2	(0)	Ensure header length less than entry length

Table 14. Structure APCDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	APCDATA	AS Performance Counters
0	(0)	DBL WORD	8	APCSTIME	Sample timestamp (STCK format)
8	(8)	DBL WORD	8	APCCP	CPU usage on CPs (SUs - service units)
16	(10)	DBL WORD	8	APCZIP	CPU usage on zIIPs (SUs - service units) normalized to CP units
24	(18)	DBL WORD	8	APCZIPCP	CPU usage on CPs by zIIP eligible code (SUs - service units)
32	(20)	SIGNED	4	APCSUCNV	Conversion value from CPU time to SUs
36	(24)	SIGNED	4	APCNRF	Normalization factor from zIIP to CPU
40	(28)	CHARACTER	8	APCSRVCL	Current service class, if available
40	(28)	X'30'	0	APCSIZE	"*-APCDATA" Size of structure

Table 15. Cross Reference for \$ASDS

Name	Offset	Hex Tag
APCCP	8	
APCDATA	0	
APCNRF	24	
APCSIZE	28	30
APCSRVCL	28	
APCSTIME	0	
APCSUCNV	20	
APCZIP	10	
APCZIPCP	18	
ASDS	0	
ASDSARTS	28	
ASDSCMOD	25	0
ASDSCURV	25	200
ASDSCVER	25	2
ASDSELEN	1D0	1D0
ASDSENT	0	
ASDSEYEC	0	D1C5E2F2
ASDSHIGH	8	
ASDSJ2IH	C	
ASDSJ2IT	E	
ASDSLEN	30	30
ASDSMODN	25	
ASDSOTHH	20	
ASDSOTHT	22	
ASDSRQJH	1C	
ASDSRQJT	1E	
ASDSSEGS	26	
ASDSSTCH	14	
ASDSSTCT	16	
ASDSTSUH	18	
ASDSTSUT	1A	
ASDSVERN	24	
ASDSVERS	24	
ASDSVER1	25	100
ASDSVER2	25	200
ASDSWLMH	10	
ASDSWLMT	12	
ASEAJBID	10	
ASEAPCS	170	

Table 15. Cross Reference for \$ASDS (continued)

Name	Offset	Hex Tag
ASEAPCSP	1A0	
ASEAPCT	108	
ASEAPCTP	138	
ASEART	64	
ASEARTTB	64	
ASEASCB	5C	
ASEASCBT	8	
ASEASID	0	
ASECSCB	48	
ASEFLAG1	6	
ASEFLAG2	7	
ASEJCLAS	18	
ASEJKEY	C4	
ASEJOBID	28	
ASEJOBNM	20	
ASEJORME	E8	
ASENEXT	2	
ASEPREV	4	
ASESECLB	38	
ASESJB	60	
ASESTPCT	168	
ASETGRME	C8	
ASEUSRID	30	
ASEWSCN	40	
ASE1AJOB	6	2
ASE1GONE	6	1
ASE1J2I	6	80
ASE1NOTU	6	0
ASE10THR	6	4
ASE1RQJ	6	8
ASE1STC	6	20
ASE1TS0	6	10
ASE1WLMI	6	40
ASE2JCAN	7	40
ASE2RLIM	7	80
ASIPIT	4C	
ASIWLMD5	58	1
ASIWLMIA	58	80
ASIWLMII	58	40

Table 15. Cross Reference for \$ASDS (continued)

Name	Offset	Hex Tag
ASIWLMI\$	58	
ASIWLMI\$	58	2
ASIWSCNO	50	

\$ASSTTAB information

\$ASSTTAB heading information

Common name:	Migration assistant table
Macro ID:	\$ASSTTAB
DSECT name:	ASSTTAB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'ASST' Offset: ASSTAB-ASST Length: 4
Storage attributes:	Subpool: 0 for the JES2 main copy; Key: 1 Residency: Virtual is in 31 bit storage in the JES2 address space. There are no restrictions on real storage.
Size:	See ASSTTSZ
Created by:	Source DAS migration phase DAS7PHAS = DAS7SET1.
Pointed to by:	ASTTABLE field of the \$DTEASST data area
Serialization:	Each field is set either by SPOL PCE or migration assistant subtask. See fields for further definition.
Function:	The ASSTTAB is owned by a migration assistant subtask. There are 253 entries in the table. Each entry may represent an active spool migration Source -> Target. An entry is actively in use if the source valid is set within the entry.

\$ASSTTAB mapping

Table 16. Structure ASSTTAB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ASSTTAB	Migration table entry
0	(0)	CHARACTER	4	ASSTID	Table ID -> ASST
ASSMIGRA, ASSVALID set at \$ASSTTAB initialization					
4	(4)	BITSTRING	1	ASSMIGRA	Migration specific info
		1... ..		ASSMOVE	"B'10000000" Migration is a move
		.1... ..		ASSMERGE	"B'01000000" Migration is a merge

Table 16. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		ASSATTH	"B'00100000'" Assistant attached unique JES XCF group
		...1		ASSRECV	"B'00010000'" \$ASSTTAB created under ASSISTANT or or FULL-RECOVERY
5	(5)	CHARACTER	6	ASSVOLID	Source volser. If set - then denotes entry inuse.
11	(B)	BITSTRING	1	ASSCOMPL	Migration percent complete
Source DAS information: (Used for dataset deallocation). State captured early on in phase - DAS7SET1 on call to \$ASSTTAB initialization. This information will be used at the end of migration to deallocate each member from the original source dataset. This allows the customer to roll the DASD out at migration end.					
12	(C)	BITSTRING	1	ASSSRCST	Source dataset info
16	(10)	SIGNED	4	(0)	Alignment
16	(10)	BITSTRING	32	ASSENQTK	ISGENQ token
48	(30)	ADDRESS	4	ASSUCBPT	UCB address
52	(34)	ADDRESS	4	ASSSRDAS	Source DAS address
56	(38)	CHARACTER	8	ASSGROUP	Note: migration XCF group name. Note: XX is source DASEXTN0.
64	(40)	CHARACTER	16	ASSMEMNM	Member name - used for attach of XCF group
80	(50)	SIGNED	4	ASJDIAG	JESXCF service diag area
84	(54)	ADDRESS	4	ASSTOKEN	JESXCF group token to use when sending to MG\$VOLSER
88	(58)	BITSTRING	8	ASSSRESV	Reserved
96	(60)	BITSTRING	1	ASSSREXT	Extent number of source
END source DAS information: Target volume dataset information					
97	(61)	BITSTRING	32	ASSTNQTK	ISGENQ token - Only move
129	(81)	BITSTRING	64	ASSTRPS	RPS Table for this device Move and merge
The following fields are valid for both move and merge. ASSTDEBE, ASSTKCYL, ASSTEXTN, ASSTFLG1, ASSTNRTK, ASSTSTRT					
193	(C1)	BITSTRING	19	ASSTDEBE	DEB extent for this volume
212	(D4)	SIGNED	4	ASSTKCYL	Tracks per cylinder
216	(D8)	BITSTRING	1	ASSTEXTN	Extent number of target
217	(D9)	BITSTRING	1	ASSTFLG1	Target flag byte
		1...		ASST1RPS	"B'10000000'" RPS supported
218	(DA)	SIGNED	2	ASSTNRTK	Number of records per track
220	(DC)	SIGNED	4	ASSTSTRT	Start track of data set
Both ASSTRACS and ASSTBITB are set at ASSTTAB init called from DADMSET1.					
224	(E0)	SIGNED	4	ASSTRACS	Number of tracks represented by track bitmap.
232	(E8)	ADDRESS	8	ASSTBITB	Address of bitmap in 64 bit common storage

Table 16. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
END target DAS information: Miscellaneous information:					
240	(F0)	BITSTRING	4	ASMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration or cancel.
244	(F4)	BITSTRING	1	ASMIGTSK	Current migrator subtask state
245	(F5)	ADDRESS	1	ASSMIGTR	Migrator ID to be used when ACKING a migrator request
TLBM information					
248	(F8)	SIGNED	4	ASSTLBM	Relative track at which the TLBM starts on target volume.
252	(FC)	SIGNED	4	ASRECORD	Number of records consumed by TLBM
256	(100)	BITSTRING	1	ASTLBM	TLBM state
		1...		ASTLBMWR	"B'10000000" TLBM has been written to target dataset
260	(104)	SIGNED	4	(0)	Align
End TLBM information					
260	(104)	CHARACTER	10		QWORD alignment
272	(110)		1	(0)	Quadword alignment
272	(110)	X'110'	0	ASSENTLN	"*-ASSTTAB" Length of table entry
272	(110)	X'10CD0'	0	ASSTABSZ	"ASSENTLN*253" Table length

Table 17. Cross Reference for \$ASSTTAB

Name	Offset	Hex	Tag
ASJDIAG	50		
ASMEMACK	F0		
ASMIGTSK	F4		0
ASRECORD	FC		
ASSATTH	4		20
ASSCOMPL	B		
ASSENQTK	10		
ASSENTLN	110		110
ASSGROUP	38	E2E8E2D4	
ASSMEMNM	40		
ASSMERGE	4		40
ASSMIGRA	4		
ASSMIGTR	F5		
ASSMOVE	4		80
ASSRECV	4		10
ASSSRCST	C		
ASSSRDAS	34		
ASSRESV	58		

Table 17. Cross Reference for \$ASSTAB (continued)

Name	Offset	Hex Tag
ASSSREXT	60	
ASSTABSZ	110	10CD0
ASSTBITB	E8	
ASSTDEBE	C1	
ASSTEXTN	D8	
ASSTFLG1	D9	
ASSTID	0	
ASSTKCYL	D4	
ASSTLBM	F8	
ASSTNQTK	61	
ASSTNRTK	DA	
ASSTOKEN	54	
ASSTRACS	E0	
ASSTRPS	81	0
ASSTSTRT	DC	
ASSTTAB	0	
ASST1RPS	D9	80
ASSUCBPT	30	
ASSVOLID	5	
ASTLBM	100	
ASTLBMWR	100	80

\$ASYWORK information

\$ASYWORK heading information

Common name:	JES2 Asynchronous I/O PCE Work Area
Macro ID:	\$ASYWORK
DSECT name:	PCE (\$ASYWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol ASYPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE

Pointed to by: The \$ASYNPCE field of the \$HCT data area
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this area are used by the JES2 Asynchronous I/O Processor and by its support routines and exits. \$ASYWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$ASYWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEASYID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$ASYWORK mapping

Table 18. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	DBL WORD	8	(0)	Force double-word alignment
336	(150)	X'0'	0	ASYPCEWS	"*-PCEWORK" Length of work area

\$AUXCB information

\$AUXCB heading information

Common name: AUX address space control block

Macro ID: \$AUXCB

DSECT name: AUXCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: AUXC
Offset: AXBID
Length: L'AXBID

Storage attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).

Size: See AXBLEN

Created by: HASCSRAX

Pointed to by: CCTAUXCB field of the \$HCCT data area

Serialization: Only updated by HASCSRAX while running under the JES2 main task.

Function: This DSECT maps the data associated with the JES2 AUX address address space. It is used during JES2 initialization and termination processing to create and later delete the address space.

\$AUXCB mapping

Table 19. Structure AUXCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AUXCB	, Define DSECT
0	(0)	CHARACTER	4	AXBID	Eyecatcher
4	(4)	ADDRESS	1	AXBVER	Version
4	(4)	X'1'	0	AXBVERN	"1" Current version
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	AXBNAME	Address space name
16	(10)	CHARACTER	8	AXBPROG	PROG= to run the addr space
24	(18)	BITSTRING	8	AXBPRTKN	Token for CSVDYLPA DEL req
32	(20)	BITSTRING	24	AXBODA	ASCRE output area (IHAASE0)
56	(38)	SIGNED	4	AXBECB	JES2AUX "existence" ECB
60	(3C)	SIGNED	4	AXBTECB	JES2AUX response ECB
64	(40)	ADDRESS	4	AXBPWORK	Address of working storage in the AUX address space.
68	(44)	ADDRESS	4	AXBGTKN	Group token for data retrieval JESXCF group
72	(48)	BITSTRING	16	AXBTCBTK	JES2AUX maintask TCB token
88	(58)	SIGNED	4	AXBALET	ALET for JES2 AS to access JES2AUX address space
92	(5C)	ADDRESS	4	AXBTCB	JES2AUX main task TCB addr
96	(60)	DBL WORD	8	(0)	
96	(60)	X'60'	0	AXBLEN	"*-AUXCB" Length of AUXCB

Table 20. Cross Reference for \$AUXCB

Name	Offset	Hex	Tag
AUXCB	0		
AXBALET	58		
AXBECB	38		
AXBGTKN	44		
AXBID	0	C1E4E7C2	
AXBLEN	60		60
AXBNAME	8	D1C5E2F2	
AXBODA	20		
AXBPROG	10	C1E4E7D1	
AXBPRTKN	18		
AXBPWORK	40		
AXBTECB	3C		
AXBTCB	5C		
AXBTCBTK	48		
AXBVER	4		
AXBVERN	4		1

\$BERT information

\$BERT heading information

Common name:	HASP Block Extension Reuse Table
Macro ID:	\$BERT
DSECT name:	BERT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: 0, 231, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the APPLCOPY is in ECSA. Real storage is anywhere.
Size:	See BRTLEN
Created by:	JES2 initialization processing
Pointed to by:	\$BERTPTR field of the \$HCT data area
Serialization:	The JES2 Checkpoint data set lock (\$QSUSE). The lock entry in the 1st \$BERT (BRTLOCK) is also used for serialization.
Function:	This control block maps the header and the entries in the BERT CTENT on the JES2 checkpoint. These entries are used as a pool of storage in the checkpoint by various services.

\$BERT mapping

Table 21. Structure BERT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BERT	, Block Extension Reuse Table
0	(0)	X'1'	0	BERTVERS	"1" BERT version number
0	(0)	BITSTRING	4	BRTWALLY(0)	Composite of TYPE and CB
0	(0)	BITSTRING	1	BRTTYPE	Control block type
0	(0)	X'0'	0	BRTINT	"\$DGBINT" Internal control block
0	(0)	X'1'	0	BRTJQE	"\$DGBJQE" JQE extension
0	(0)	X'2'	0	BRTCAT	"\$DGBCAT" Class attribute table
0	(0)	X'3'	0	BRTWSCQ	"\$DGBWSCQ" WLM service class queue
		1111 1111		BRTFREE	"X'FF'" Free BERT
1	(1)	BITSTRING	3	BRTCB	Related control block index
4	(4)	BITSTRING	1	BRTSEQ	Sequence number
5	(5)	BITSTRING	3	BRTNEXT	Next BERT in CB chain
8	(8)	BITSTRING	2		Reserved for future use
8	(8)	X'A'	0	BRTPRLEN	"*-BERT" Length of BERT prefix
10	(A)	BITSTRING	54	BRTDATA	Data area for BERTIES
10	(A)	X'40'	0	BRTLEN	"*-BERT" Total size of a BERT

Table 21. Structure BERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Special wally values for internal BERTs used by the DOGBERT service internally.					
		.... ....		BRTWYDYN	"X'00000000'" Wally for dynamic heads (BRTPBERT.BRTNEXT chain)
10	(A)	BITSTRING	0	BRTWYNAM	"X'00001000'" Named internal CBs header (BRTPINTH chain)
10	(A)	BITSTRING	0	BRTWYNIB	"X'00800000'" Named internal CBs combined with CB number

Table 22. Structure BERTIE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTIE	, BERT information element
0	(0)	BITSTRING	1	BRTIID	Section identifier
		1111 111.		BRTIICNT	"X'FE'" Continued in next BERT
		1111 1111		BRTIEND	"X'FF'" End of BERTIEs
1	(1)	BITSTRING	1	BRTILEN	Length of BERTIE data (does not include this prefix)
1	(1)	X'2'	0	BRTIPLN	"*-BERTIE" Prefix area length
2	(2)	BITSTRING	1	BRTIDATA(0)	Start of actual data

Table 23. Structure BERTIO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTIO	, Type 0 BERTIE
0	(0)	BITSTRING	1	BRT0LOCK	Lock byte (QSESIBSY value)
1	(1)	BITSTRING	1	BRT0FLG0	Type 0 flag byte
		1111		BRT0USEQ	"B'11110000'" Update sequence counter (4 bit count)
1	(1)	X'2'	0	BRT0LEN1	"*-BERTIO" Minimum type 0 BERTIE
2	(2)	BITSTRING	1	BRT0FLAG	General flags for chaining
3	(3)	BITSTRING	3	BRT0NXT1	1st CB chain field
6	(6)	BITSTRING	3	BRT0NXT2	2nd CB chain field
9	(9)	BITSTRING	1	BRT0KEY(0)	Search key
9	(9)	X'9'	0	BRT0LEN2	"*-BERTIO" Size with search key (plus key len)

Table 24. Structure BRTPPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTPPREF	, BERT CTENT prefix area
0	(0)	BITSTRING	10	BRTPBERT	Start with a standard prefix
10	(A)	SIGNED	2	BRTPLEN	Size of BERT prefix
12	(C)	SIGNED	4	BRTPFREE	Index of 1st free BERT
16	(10)	SIGNED	4	BRTPFNUM	Number of free BERTs
20	(14)	SIGNED	4	BRTPPMAP	BERT token for NAME to ID map
24	(18)	BITSTRING	1	BRTPMXTY	Max known BERT type
25	(19)	BITSTRING	3		Reserved for future use
28	(1C)	SIGNED	4	(2)	Reserved for future use

Table 24. Structure BRTPREF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
BERT queue heads. There is one per entry even if they are not used. These must be in the same order as the ID number of control blocks.					
28	(1C)	X'0'	0	BRTPQHED	"0,4,C'F'" Queue head part of entry
28	(1C)	X'4'	0	BRTPQHNM	"4,4,C'F'" Number of elements on queue
28	(1C)	X'8'	0	BRTPQHDL	"8"
36	(24)	SIGNED	4	BRTPQHDS(0)	--+ Start of queue heads
36	(24)	SIGNED	4	BRTPJQE	| First JQE BERT (not used)
40	(28)	SIGNED	4	BRTPJQEN	| Number of JQEs (not used)
44	(2C)	SIGNED	4	BRTPCAT	| First CAT BERT
48	(30)	SIGNED	4	BRTPCATN	| Number of CATs defined
52	(34)	SIGNED	4	BRTPWSCQ	| First WSCQ BERT
56	(38)	SIGNED	4	BRTPWSCN	--+ Number of WSCQs defined
56	(38)	X'3'	0	BRTPQHDN	"(*-BRTPQHDS)/BRTPQHDL" Number of queue heads
56	(38)	X'3'	0	BRTPQHMX	"(*-BRTPQHDS)/BRTPQHDL" Max queue heads
BRTPINTH is a pointer to a chain of BERTs that represents the internal named BERT pointer structure. Named internal BERTs each have a number assigned using the BERTMAP and that number indexes into this structure. The 0th entry in the pointer structure is not used.					
60	(3C)	SIGNED	4	BRTPINTH	Named internal BERT pointer structure
60	(3C)	X'40'	0	BRTPSIZE	"*-BRTPREF" Size of prefix area
64	(40)	ADDRESS	2	(0)	Verify size

Table 25. Structure BRTMAP

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTMAP	, BERTIE name to ID table
0	(0)	CHARACTER	8	BRTMNAME	Name of BERTIE (A value of all FF indicates end of table)
8	(8)	BITSTRING	1	BRTMTYPE	Control block type (see BRTTYPE for a list of valid values)
9	(9)	BITSTRING	1	BRTMID	ID assigned to this BERTIE name
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved for future use
12	(C)	X'14'	0	BRTMLEN	"*-BRTMAP" Length of map entry

Table 26. Structure BRTCNT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTCNT	, BERT count array
0	(0)	CHARACTER	8	BRTCNAME	Name of BERT entry
8	(8)	BITSTRING	1	BRTCID	Control block type
9	(9)	BITSTRING	1	BRTCFLG1	Flag bytes
		1...		BRTCFLG1DF	"B'10000000'" BERTTAB found
10	(A)	BITSTRING	2		Reserved

Table 26. Structure BRTCNT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
12	(C)	SIGNED	4	BRTCMAIN	Sequence one BERT count
16	(10)	SIGNED	4	BRTCNUM	Total BERT count
20	(14)	ADDRESS	4	BRTCTRAN	BRTRANS table pointer for CB type - main task only
20	(14)	X'18'	0	BRTCLEN	"*-BRTCNT" Size of an entry
20	(14)	X'1800'	0	BRTCSIZE	"BRTCLEN*256" Size of a full array

Table 27. Cross Reference for \$BERT

Name	Offset	Hex	Tag
BERT	0		
BERTIE	0		
BERTIO	0		
BERTVERS	0		1
BRTCAT	0		2
BRTCB	1		
BRTCFLG1	9		
BRTCF1DF	9		80
BRTCID	8		
BRTCLEN	14		18
BRTCMAIN	C		
BRTCNAME	0		
BRTCNT	0		
BRTCNUM	10		
BRTCSIZE	14		1800
BRTCTRAN	14		
BRTDATA	A		
BRTFREE	0		FF
BRTIDATA	2		
BRTIICNT	0		FE
BRTIID	0		
BRTIIEND	0		FF
BRTILEN	1		
BRTINT	0		0
BRTIPLN	1		2
BRTJQE	0		1
BRTLLEN	A		40
BRTMAP	0		
BRTMID	9		
BRTMLEN	C		14
BRTMNAME	0		

Table 27. Cross Reference for \$BERT (continued)

Name	Offset	Hex Tag
BRTMTYPE	8	
BRTNEXT	5	
BRTPBERT	0	
BRTPCAT	2C	
BRTPCATN	30	
BRTPFNUM	10	
BRTPFREE	C	
BRTPINTH	3C	
BRTPJQE	24	
BRTPJQEN	28	
BRTPLEN	A	
BRTPMAP	14	
BRTPMXTY	18	
BRTPQHDL	1C	8
BRTPQHDN	38	3
BRTPQHDS	24	
BRTPQHED	1C	0
BRTPQHMX	38	3
BRTPQHNM	1C	4
BRTPREF	0	
BRTPRLEN	8	A
BRTPSIZE	3C	40
BRTPWSCN	38	
BRTPWSCQ	34	
BRTSEQ	4	
BRTTYPE	0	
BRTWALLY	0	
BRTWSCQ	0	3
BRTWYDYN	A	0
BRTWYNAM	A	1000
BRTWYNIB	A	800000
BRT0FLAG	2	
BRT0FLG0	1	
BRT0KEY	9	
BRT0LEN1	1	2
BRT0LEN2	9	9
BRT0LOCK	0	
BRT0NXT1	3	
BRT0NXT2	6	

Table 27. Cross Reference for \$BERT (continued)

Name	Offset	Hex Tag
BRT0USEQ	1	F0

\$BERTTAB information

\$BERTTAB programming interface information

\$BERTTAB is a programming interface.

\$BERTTAB heading information

Common name:	BERT table entry
Macro ID:	\$BERTTAB
DSECT name:	BRTT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: These table entries are part of the HASJES20 load module and are located below 16M. Real storage can be anywhere.
Size:	See BRTTELEN
Created by:	\$BERTTAB macro expansion in HASPTAB
Pointed to by:	MCTBRTTU field of the \$MCT data area MCTBRTTH field of the \$MCT data area
Serialization:	None required
Function:	This DSECT maps entries in the BERT table pairs which describe variable extensions to JES2 CKPTed control blocks.

\$BERTTAB mapping

Table 28. Structure BRTT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTT	
0	(0)	CHARACTER	8	BRTTNAME	Name of section (<KEY> if key entry)
8	(8)	BITSTRING	1	BRTTTYPE	Control block type
8	(8)	X'0'	0	BRTTINT	"\$DGBINT" Named internal CB
8	(8)	X'1'	0	BRTTJQE	"\$DGBJQE" JQE extension
8	(8)	X'2'	0	BRTTCAT	"\$DGBCAT" Class attribute table
8	(8)	X'3'	0	BRTTWSCQ	"\$DGBWSCQ" WLM service class queue
8	(8)	X'FF'	0	BRTTDYN	"\$DGBDYN" Dynamically defined type
9	(9)	BITSTRING	1	BRTTFLAG	General flag byte
		1... ..		BRTTUSER	"B'10000000" USER table (not HASP)

Table 28. Structure BRTT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		BRTTKEY	"B'01000000'" This entry describes a flag
		..1.		BRTTOFFV	"B'00100000'" The offset of this entry is dynamically generated
		...1		BRTTOLAP	"B'00010000'" This entry may overlap other entries in this CB
10	(A)	SIGNED	2	BRTTOFF	Offset of data area
12	(C)	BITSTRING	1	BRTTLEN	Length of section
13	(D)	BITSTRING	1	BRTTFILL	Fill character
14	(E)	BITSTRING	2		Reserved
16	(10)	CHARACTER	8	BRTTTNAM	CB type name
24	(18)	SIGNED	4	(0)	Align BRTT entry
24	(18)	X'18'	0	BRTTELEN	"*-BRTT" Length of BRTT entry DSECT

Table 29. Cross Reference for \$BERTTAB

Name	Offset	Hex Tag
BRTT	0	
BRTTCAT	8	2
BRTTDYN	8	FF
BRTTELEN	18	18
BRTTFILL	D	
BRTTFLAG	9	
BRTTINT	8	0
BRTTJQE	8	1
BRTTKEY	9	40
BRTTLEN	C	
BRTTNAME	0	
BRTTOFF	A	
BRTTOFFV	9	20
BRTTOLAP	9	10
BRTTTNAM	10	
BRTTTYPE	8	
BRTTUSER	9	80
BRTTWSCQ	8	3

\$BLDMSGL information

\$BLDMSGL programming interface information

\$BLDMSGL is a programming interface.

\$BLDMSGL heading information

Common name: Build Message Parameter List

Macro ID: \$BLDMSGL

DSECT name: BLD

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'BLD '
Offset: BLDID-BLD
Length: 4

Storage attributes: Subpool: Subpool 1 for the \$BLDMSG MF=(I) case;
Subpool is unknown if \$BLDMSG MF=(E,address) case.
Key: 1
Residency: JES2 address space. Virtual and Real are above or below the 16M line.

Size: See BLDSize

Created by: \$BLDMSG macro

Pointed to by: R1 when routine \$MSGSCAN is called

Serialization: JES2 main task re-entrancy.

Function: This control block contains all the information needed to invoke \$SCAN to create a message. It also has the information necessary to write the message lines created by \$SCAN as part of the "DISPRTN" operand of the \$SCAN macro.

\$BLDMSGL mapping

Table 30. Structure BLD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BLD	HASP \$BLDMSG PARM LIST DSECT
0	(0)	CHARACTER	4	BLDID	EBCDIC CONTROL BLOCK ID, SET BY \$GETWORK VIA USE=BLD
4	(4)	BITSTRING	4	BLDCONID	Console id
8	(8)	ADDRESS	4	BLDCART	Address of the CART
12	(C)	ADDRESS	4	BLDJOBID	Pointer for given jobid
16	(10)	ADDRESS	4	BLDCBA	Control block address
20	(14)	ADDRESS	4	BLDISPR	Display routine address
24	(18)	ADDRESS	4	BLDADDR(6)	Work area definitions
WORK AREA DEFINITION IF BLD1WTOR IS ON					
24	(18)	ADDRESS	4	BLDECB	ADDRESS OF ECB
28	(1C)	ADDRESS	4	BLDREPLY	ADDRESS OF REPLY AREA
32	(20)	ADDRESS	4	BLDLEN	LENGTH OF REPLY AREA
36	(24)	BITSTRING	8	BLDWORK(0)	Work area used by \$REPLY
36	(24)	SIGNED	4	BLDDOMID	MESSAGE ID USED IN DOM MACRO
40	(28)	SIGNED	4	BLDHUHD	DOM ID FOR HUH MESSAGE
44	(2C)	ADDRESS	4	BLDREPV	Address of reply vector
WORK AREA DEFINITION IF BLD1WTO OR BLD1CMB IS ON					
24	(18)	DBL WORD	8	BLDGMTSP	Message timestamp

Table 30. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	4	BLDJGIDX	Jobgroup JQE index
36	(24)	SIGNED	4	BLDCNNCT	CONNECT ID FOR MULTI-LINE WTO
40	(28)	SIGNED	4	BLDJGKEY	Jobgroup JQE job key
44	(2C)	SIGNED	4	BLDRSAVE	Save area for one register
48	(30)	ADDRESS	4	BLDCR11	R11 of caller for \$BLDMSG
52	(34)	BITSTRING	2	BLDROUT	Route code for message
54	(36)	BITSTRING	2	BLDDDESC	Descriptor codes for msg
56	(38)	CHARACTER	4	BLDMSGID	MESSAGE ID
60	(3C)	BITSTRING	1	BLDSEPAR	Separator character
61	(3D)	BITSTRING	1	BLDFLAG1	Flag byte
		1...		BLD1WTO	"B'10000000" BUILD WTO OR MLWTO MF=L
		.1..		BLD1WTOR	"B'01000000" BUILD WTOR MF=L
		..1.		BLD1CMB	"B'00100000" BUILD CMB
		...1		BLD1WAIT	"B'00010000" \$WAIT IS ALLOWED
		.... 1...		BLD1JQE	"B'00001000" Prefix job id from JQE
		.... .1..		BLD1JID	"B'00000100" Prefix job id from given id
		.... ..1.		BLD1REPV	"B'00000010" Reply vector proc. required
		.... ...1		BLD1GETW	"B'00000001" This area obtained via \$GETWORK
62	(3E)	BITSTRING	1	BLDISPER	'DISPER' character
63	(3F)	BITSTRING	1	BLDFLAG2	Flag byte 2
		1...		BLD2LOGO	"B'10000000" LOGONLY=YES is specified
		.1..		BLD2ROUT	"B'01000000" Route codes are set
		..1.		BLD2DESC	"B'00100000" Descriptor codes are set
		...1		BLD2LONG	"B'00010000" LONG=YES is specified
		.... 1...		BLD2GETC	"B'00001000" This area obtained via \$GETHP
		.... .1..		BLD2HCCT	"B'00000100" Display routine R11=HCCT
		.... ..1.		BLD2HCT	"B'00000010" Display routine R11=HCT
		.... ...1		BLD2NMUL	"B'00000001" MULTI=NO is specified
64	(40)	BITSTRING	1	BLDFLAG3	Flag byte 3
		1...		BLD3BRAN	"B'10000000" BRANCH=YES is specified
		.1..		BLD3DEST	"B'01000000" DEST= is specified
		..1.		BLD3JGR	"B'00100000" JOBGROUP=YES specified
65	(41)	BITSTRING	1	BLDSEV	Severity of message
65	(41)	X'4'	0	BLDSINFO	"4" Informational message
65	(41)	X'8'	0	BLDSWARN	"8" Warning message
65	(41)	X'C'	0	BLDSEROR	"12" Error message
66	(42)	CHARACTER	8	BLDDESTN	Symbolic name of dest.
74	(4A)	BITSTRING	2		Reserved
76	(4C)	ADDRESS	4	BLDASCB	ASCB pointer
80	(50)	BITSTRING	8		Reserved for future use
88	(58)	ADDRESS	4	(0)	Ensure multiple of 4

Table 30. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
88	(58)	X'58'	0	BLDSIZE	"*-BLD"

Table 31. Cross Reference for \$BLDMSG

Name	Offset	Hex	Tag
BLD	0		
BLDADDR	18		
BLDASCB	4C		
BLDCART	8		
BLDCBA	10		
BLDCNNCT	24		
BLDCONID	4		
BLDCR11	30		
BLDDESC	36		
BLDDDESTN	42		
BLDDOMID	24		
BLDECB	18		
BLDFLAG1	3D		
BLDFLAG2	3F		
BLDFLAG3	40		
BLDHUHD	28		
BLDID	0		
BLDISPER	3E		
BLDISPR	14		
BLDJGIDX	20		
BLDJGKEY	28		
BLDJOBID	C		
BLDLEN	20		
BLDMSGID	38		
BLDMTMSP	18		
BLDREPLY	1C		
BLDREPV	2C		
BLDROUT	34		
BLDRSAVE	2C		
BLDSEPAR	3C		
BLDSEROR	41		C
BLDSEV	41		
BLDSINFO	41		4
BLDSIZE	58		58
BLDSWARN	41		8

Table 31. Cross Reference for \$BLDMSG (continued)

Name	Offset	Hex Tag
BLDWORK	24	
BLD1CMB	3D	20
BLD1GETW	3D	1
BLD1JID	3D	4
BLD1JQE	3D	8
BLD1REPV	3D	2
BLD1WAIT	3D	10
BLD1WTO	3D	80
BLD1WTOR	3D	40
BLD2DESC	3F	20
BLD2GETC	3F	8
BLD2HCCT	3F	4
BLD2HCT	3F	2
BLD2LOGO	3F	80
BLD2LONG	3F	10
BLD2NMUL	3F	1
BLD2ROUT	3F	40
BLD3BRAN	40	80
BLD3DEST	40	40
BLD3JGR	40	20

\$BUFFER information

\$BUFFER programming interface information

\$BUFFER is a programming interface.

\$BUFFER heading information

Common name: HASP Buffer
Macro ID: \$BUFFER
DSECT name: BFPDSECT, SPBRECD, BFD
Owning component: JES2 (SC1BH)
Eye-catcher ID: 'BUF '
 Offset: BFPID-BFPDSECT
 Length: 4

Storage attributes: Subpool: BSC buffers are in subpool 6.
 VTAM buffers are in subpool 16.
 HASP buffers are in subpool 8.
 UBUF, PBUF, HBUF, GBUF and SUBST buffers are in subpool 229.
 CB buffers in the JES2 main task environment are in subpool 7.
 CB buffers in the USER environment are in subpool 230.
 PAGE buffers are in subpool 14.
 PP buffers are in subpool 15.
 Key: BSC, VTAM, HASP, CB, HBUF, GBUF, PAGE and PP buffers are in key 1. UBUF buffers are in the key of the associated TCB.
 PBUF buffers are in key 5.
 Residency: Virtual and real storage for BSC, HASP, PAGE and PP buffers are below 16M in the private storage of the JES2 address space. Virtual and real storage for VTAM and CB (main task) buffers are anywhere (above or below 16M) in the private storage of the JES2 address space. Virtual and real storage for UBUF, PBUF, HBUF and GBUF buffers are above or below 16M in the address space of the application for which the I/O is being done. Virtual storage for CB buffers (USER environment) is anywhere (above or below 16M) except for CB buffers used for JCTs which must be below 16M. Real storage for CB buffers in the USER environment is anywhere.

Size: The size varies depending on the type of buffer.
 The size of BSC buffers is specified by the initialization statement TPDEF BELOWBUF= SIZE=.
 The size of VTAM buffers is specified by the initialization statement TPDEF EXTBUF= SIZE.
 PAGE, PBUF, UBUF, HBUF and GBUF buffers are 4096 bytes. The size of HASP and CB buffers is specified by the initialization statement SPOOLDEF BUFSIZE=.
 The following formula gives the size for PP buffers:
 - $2X + (\text{BUFFER PREFIX AREA})$
 - WHERE $X = \text{MAX} (\$NOPRCCW*8 + \text{PCIESIZE} + \text{JOESIZE},$
 - $\$NOPUCCW*8 + \text{PCIESIZE} + \text{JOESIZE},$
 - $(\$TCELSZ*4 - 3)*4)$

Created by: In environments other than the USER environment, the storage is obtained by the \$CPOOL services called during JES2 initialization, or by the \$GETBUF service. In the USER environment, storage is obtained via \$GETBUF.
 The control block is filled in by: bi-synch processing for BSC buffers, SNA processing for VTAM buffers, print/punch processing for PAGE and PP buffers, HASP Access Method (HAM) for PBUF, UBUF, HBUF and GBUF buffers, \$CBIO services for CB buffers, and various JES2 processors for HASP buffers.

Pointed to by:

BATBUF field of the \$BAT data area
BUFCHAIN field of the \$BUFFER data area
BUFCHEQ field of the \$BUFFER data area
DCTBUFAD field of the \$DCT data area
MDCTOBUF field of the \$DCT data area
RIDUBF field of the \$DCT data area
RIDPBF field of the \$DCT data area
DSSABUF field of the \$DSSCB data area
DSSNBUF field of the \$DSSCB data area
GCBMBUF field of the \$GCB data area
\$ASYNQ field of the \$HCT data area
\$MIGRIOQ field of the \$HCT data area
\$BSCCHEQ field of the \$HCT data area
\$MCONMSG field of the \$HCT data area
\$RPLCOMQ field of the \$HCT data area
\$XFRBEND field of the \$HCT data area
HFCTBUFS field of the \$HFCT data area
ICEINH field of the \$ICE data area
ICEINTL field of the \$ICE data area
ICEOUTBF field of the \$ICE data area
ICEOUTH field of the \$ICE data area
ICEOUTTL field of the \$ICE data area
ICEBUFAD field of the \$ICE data area
JIBCPBUF field of the \$JIB data area
MLMRLPQ field of the \$MLMWORK data area
MLMBSCQ field of the \$MLMWORK data area
PCEBUFAD field of the \$PCE data area
PCIBUFAD field of the \$PCIE data area
PCTINQ field of the \$PCT data area
PCTVINQ field of the \$PCT data area
PCTSINQ field of the \$PCT data area
SDBUBF field of the \$SDB data area
SDBPBF field of the \$SDB data area
SDBCBF field of the \$SDB data area
SDBCBCF field of the \$SDB data area
SDBCBCF1 field of the \$SDB data area
SDBGBF field of the \$SDB data area
SDBHBF field of the \$SDB data area
SJBSWBUF field of the \$SJB data area
Some pointers within control blocks in buffers
point to other control blocks in buffers
(for example, \$JCT and \$IOT).
Various fields in the processor work areas,
parameter lists and exit parameter lists (XPL).

Serialization:

Compare and swap logic is used to chain and dechain buffers. Buffers are used in JES2 and application tasks as well as in asynchronous I/O processing (IRBs, SRBs, appendages). Implicit additional serialization is provided by the SJB lock and/or the Local lock in the USER environment and JES2 reentrancy techniques in the JES2 main task environment.

Function:

Buffers are used to buffer data as part of the JES2 processing for spool data sets or devices. They are used to hold data, channel programs and parameter lists for interfacing with MVS IOS, VTAM and other I/O access methods.

There are multiple types of buffers mapped by \$BUFFER. Many types of buffers have control blocks associated with them that contain additional information required to use the buffer for I/O (for example, channel programs).

A HASP buffer is a local buffer used to read or write SYSIN or SYSOUT data.

A BSC buffer is a teleprocessing buffer used for BSC NJE and RJE.

A VTAM buffer is a teleprocessing buffer used for SNA NJE and RJE.

A PAGE buffer is a local 4096-byte buffer used for I/O to local non-impact printers supported directly by JES2. PAGE buffers are also used for BSAM spool offload I/O.

A PP buffer is a local print/punch buffer that contains an IOB and the CCWs required to do I/O from PAGE buffers to local non-impact printers.

A PROT buffer (PBUF) is a protected buffer used for spool I/O by the HASP Access Method (HAM).

An UNPROT buffer (UBUF) is an unprotected buffer used as a staging area for HAM. No I/O is actually done using this buffer. When a UBUF being used for output is full or input needs to be replenished, an associated PBUF is used.

A CB buffer is a control block buffer used by the \$CBIO service for I/O.

A HOLD buffer (HBUF) is an unprotected buffer which is used for GET/UPDATE by HAM. A GBUF is a protected HOLD buffer used for GET/UPDATE.

For additional information see \$GETBUF, \$CBIO and \$EXCP in "JES2 Customization".

\$BUFFER mapping

Table 32. Structure BFPDSECT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BFPDSECT	START OF BUFFER PREFIX
0	(0)	CHARACTER	4	BFPID	BUFFER IDENTIFIER
4	(4)	SIGNED	4	BFPBAT	ADDRESS OF AUXILIARY BUFFER
4	(4)	X'4'	0	BFPSWEL	"BFPBAT,,C'A'" Address of SWEL (TP buffers in process of signon only)
8	(8)	ADDRESS	4	BUFCHAIN	BUFFER CHAIN FIELD
12	(C)	BITSTRING	1	BUFTYPE	BUFFER TYPE
		.... ....		BUFLOCAL	"B'00000000'" LOCAL BUFFER
		1...		BUFFIX	"B'10000000'" Page-fix request
		.1..		BUF64	"B'01000000'" Request 64 bit buffer
		..1.		BUFIOB	"B'00100000'" IOB in front of the buffer
		...1		BUFRPL	"B'00010000'" RPL IN FRONT OF BUFFER
		.... 1...		BUFDECB	"B'00001000'" DECB IN FRONT OF BUFFER
		.... .111		BUFBPMT	"B'00000111'" Buffer type (see below)

Table 32. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	X'0'	0	BUFMULT	"0" Deprecated bit (not used)
		.... ...1		BPMTBSC	"B'00000001" BSC buffer type
		.... ..1.		BPMTCB	"B'00000010" CB buffer type
		.... ...11		BPMTHASP	"B'00000011" HASP buffer type
		.... .1..		BPMPAGE	"B'00000100" PAGE buffer type
		.... .1.1		BPMTTP	"B'00000101" Print/Punch buffer type
		.... ..11.		BPMVTAM	"B'00000110" VTAM buffer type
		.... ...111		BPMTHAM	"B'00000111" HAM HDB buffer
		1111 1111		BPMTUSCB	"B'11111111" User environment CB buffer
12	(C)	X'21'	0	BUFBS	"BUFLOCAL+BUFI0B+BPMTBSC"
12	(C)	X'22'	0	BUFCB	"BUFLOCAL+BUFI0B+BPMTCB"
12	(C)	X'42'	0	BUFCB64	"BUFLOCAL+BUF64+BPMTCB"
12	(C)	X'23'	0	BUFHASP	"BUFLOCAL+BUFI0B+BPMTHASP"
12	(C)	X'16'	0	BUFVTAM	"BUFRPL+BPMTVTAM"
12	(C)	X'24'	0	BUFPAGE	"BUFLOCAL+BUFI0B+BPMPAGE"
12	(C)	X'C'	0	BUFSPXFR	"BUFLOCAL+BUFDECB+BPMPAGE"
12	(C)	X'25'	0	BUFP	"BUFLOCAL+BUFI0B+BPMTTP"
13	(D)	CHARACTER	1	BUFECBCC	I/O COMPLETION CODE
		.... ...1		BUFCFCB	"X'01" HASPIMAG - BAD FCB
14	(E)	BITSTRING	1	BUFLAG1	Buffer flag byte
		1...		BFPTHMGR	"B'10000000" BUFFER BELONGS TO PATH MGR
WARNING - The bit below has a different use depending on the Environment.					
		.1..		BUF1WIN	"B'01000000" User ENV - Write in progress flag (only used by USER ENV I/O)
		.1..		BUF1EXVR	"B'01000000" Main Task ENV - On REDO issue EXCPVR instead of EXCP (only used by MAIN TASK I/O).
		..1.		BUF1SINT	"B'00100000" Simulated I/O error
		...1		BUF1PERM	"B'00010000" Permanent I/O error
		.... 1...		BUF1CHEN	"B'00001000" Channel end appendage processed buffer
		.... .1..		BUF1DASD	"B'00000100" I/O to DASD device
		.... ..1.		BUF1REDO	"B'00000010" Redo I/O (only used by MAIN TASK I/O).
		.... ...1		BUF1MIGO	"B'00000001" During spool migration, override mapped volume consideration (only used by MAIN TASK I/O).
15	(F)	BITSTRING	1	BUFMIGTC	Migration transition count (only used by MAIN TASK I/O).
Following fields are used differently based on if this buffer is in 31 or 64 bit storage					
16	(10)	ADDRESS	4	BFPDCT	ADDRESS OF DEVICE CONTROL TABLE
20	(14)	ADDRESS	4	BFPEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
16	(10)	ADDRESS	8	BFPCHN64	64 bit chaining field
24	(18)	X'18'	0	BFPLEN	"*-BFPDSECT" LENGTH OF BUFFER PREFIX

Table 32. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	BITSTRING	1	BUFIOBST	Define IOB work area
Remapping of fields inside a standard IOB					
24	(18)	X'2C'	0	TPBMXREC	"IOBINCAM,1,C'C'" Max RJE output record count
24	(18)	X'2D'	0	IOBECBSV	"IOBINCAM+1,1" I/O COMPLETION SAVE AREA
24	(18)	X'30'	0	TPBLCCC	"IOBXTENT,1,C'C'" Last rmt output command op.
24	(18)	X'30'	0	TPBLCCAD	"IOBXTENT,4,C'A'" Addr of last remote CC
24	(18)	X'30'	0	IOBXTENT	"IOBM,1,C'C'" DEB extent
Note that last 4 bytes of IOBSEEK overlap TPBFDATA, which is not used in a buffer for DASD I/O.					
60	(3C)	CHARACTER	1	TPBRECNT(0)	CURRENT REMOTE OUTPUT RECORD COUNT
60	(3C)	SIGNED	4	TPBFDATA	REMOTE DATA POINTER
64	(40)	CHARACTER	1	LCBMCB	REMOTE MODE BYTE
64	(40)	X'40'	0	PPBFLAG1	"LCBMCB" IOB BUFF WHERE LAST PCI
65	(41)	CHARACTER	1	BUFCHOFF(0)	OFFSET OF 1ST BUFFER IN TRACKCELL
65	(41)	CHARACTER	1	LCBACK	REMOTE NEXT ACKNOWLEDGEMENT
66	(42)	SIGNED	2	BUFCHNCT(0)	COUNT OF BUFFERS IN CHAIN
66	(42)	SIGNED	2	LCBRCB	REMOTE RESPONSE CONTROL BLOCK
68	(44)	SIGNED	4	BUFCHECB(0)	\$EXCP ECB
68	(44)	SIGNED	4	BUFCHCQ	Channel end queue chain
72	(48)	DBL WORD	8	IOBCCW1	CHANNEL COMMAND WORD 1
80	(50)	DBL WORD	8	IOBCCW2	CHANNEL COMMAND WORD 2
88	(58)	DBL WORD	8	IOBCCW3	CHANNEL COMMAND WORD 3
96	(60)	DBL WORD	8	IOBCCW4	CHANNEL COMMAND WORD 4
PP BUFFER SYNCHRONIZATION INFORMATION					
72	(48)	SIGNED	4	PPBPCIE	ADDRESS OF ACTIVE PCIE
76	(4C)	SIGNED	4	PPBCCWNX	ADDRESS OF NEXT CCW AREA
80	(50)	SIGNED	4	PPBLVCCN	LAST-VALID CCW IN NEXT AREA
84	(54)	BITSTRING	6	PPBCMQR	Current punch
90	(5A)	CHARACTER	2	PPBCRCB	restart fields
92	(5C)	CHARACTER	1	PPBCBOFF	(keep together)
93	(5D)	BITSTRING	6	PPBNMQR	Next punch
99	(63)	CHARACTER	2	PPBNRCB	restart fields
101	(65)	CHARACTER	1	PPBNBOFF	(keep together)
102	(66)	CHARACTER	2	PPBDISPL	OFFSET OF 2ND IOB BUFFER
60	(3C)	SIGNED	4	PPBLVCCC	LAST VALID CCW IN CURRENT AREA

Table 32. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>Define memory-only fields for control block I/O. These utility fields will be accessed using definitions in the control blocks using the fields (for example the IOT). The access will be via the use of EQU. For example IOTIOT (a memory chain pointer for the IOT) could be defined as: IOTIOT EQU BUFMEMW1-BFPDSECT+IOT</p> <p>The advantage of defining the fields at this point in the buffer is that this part of the buffer is never written to SP00L and thus there is no exposure to residual data being available when the buffer is read from SP00L later. This area is zeroed in the \$CBIO support routines just before a control block is read.</p>					
56	(38)	DBL WORD	8	BUFMEMD1	Memory-only double word
64	(40)	ADDRESS	4	BUFMEMW1	First memory-only word
68	(44)	ADDRESS	4	BUFMEMW2	Second memory-only word
72	(48)	ADDRESS	4	BUFMEMW3	Third memory-only word
76	(4C)	ADDRESS	4	BUFMEMW4	Fourth memory-only word
<p>Flag byte BUFMEMF1 is currently defined to use only for control block I/O (eg. IOT.) For general use (eg. HDB buffers), flag byte BUFMEMF4 should be used with necessary bit definitions defined in corresponding DSECT.</p>					
80	(50)	BITSTRING	1	BUFMEMF1	First memory-only flag
80	(50)	X'50'	0	BUFMFLG1	"BUFMEMF1" Memory only flag
		1...		BUFM1CKP	"B'10000000" Control block needs to be written to SP00L
		.1..		BUFM1CK2	"B'01000000" Secondary CKPT flag (only set for IOTs)
81	(51)	BITSTRING	1	BUFMEMF2	Second memory-only flag
82	(52)	BITSTRING	1	BUFMEMF3	Third memory-only flag
83	(53)	BITSTRING	1	BUFMEMF4	Fourth memory-only flag. For general use, see specific control block for bit definitions.
84	(54)	ADDRESS	4	BUFMEMW5	Fifth memory-only word
88	(58)	ADDRESS	4	BUFMEMW6	Sixth memory-only word
92	(5C)	ADDRESS	4	BUFMEMW7	Seventh memory-only word
96	(60)	ADDRESS	4	BUFSJIOB	SJIOB address (\$CBIO in USER environment)
100	(64)	ADDRESS	4	BUFWRBKB	Buffer backward chain pointer during CB chain write in user environment
100	(64)	X'38'	0	BUFMEM	"BUFMEMD1,*-BUFMEMD1,C'X'" Name of composite area
<p>An assembly error on the following statement implies that there has been too much "redefinition" of the buffer prefix area. Ensure the redefinition does not exceed 6 double words.</p>					
104	(68)	ADDRESS	2	(0)	See above

Table 32. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Start of data area in SP00L buffers (HDBs) The 2 types of HDBs are: - Historic format has a 20x byte prefix with MTTRs. Data (LRCs) start at label HDBSTART. First record in HDB is always SCR. - Advanced format has a 38x byte prefix with MQTRs. Advanced format supports having a data block header that starts after the 38x byte prefix. Without a data block header, the data (LRCs) start at label HDBASTRT. With the data block header (0Cx bytes) the data (LRCs) start at label HDBDSTRT.</p>					
104	(68)	DBL WORD	8	BUFSTART(0)	START OF BUFFER WORK SPACE
<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)</p>					
104	(68)	CHARACTER	4	HDBID	Eyecatcher
108	(6C)	CHARACTER	8	HDBJNAME	Job name
116	(74)	SIGNED	4	HDBJBNUM	Job number
120	(78)	BITSTRING	8	HDBKEY(0)	Record verification key
120	(78)	SIGNED	4	HDBJBKEY	Job key
124	(7C)	SIGNED	4	HDBDSKEY	Dataset key
124	(7C)	X'18'	0	HDBSPLNG	"*-HDBID"
128	(80)	SIGNED	4	HDBNXTRK	HASP DATA BLOCK CHAIN TRACK
132	(84)	BITSTRING	2		Reserved
134	(86)	BITSTRING	1	HDBTYPE	HDB type
134	(86)	X'0'	0	HDBTYPE0	"0" Historic HDB type
134	(86)	X'1'	0	HDBTYPE1	"1" Advanced format HDB type
135	(87)	BITSTRING	1		Reserved
136	(88)	SIGNED	2	HDBSTART(0)	Normal HDB data start
128	(80)	BITSTRING	6	HDBANXTM	Next advanced HDB MQTR
134	(86)	BITSTRING	1	HDBATYPE	HDB type
135	(87)	BITSTRING	1	HDBAFLG1	Flag byte
		1...		HDBA1DAT	"B'10000000'" Data block prefix present
136	(88)	BITSTRING	6	HDBAPRVM	Previous HDB MQTR
142	(8E)	BITSTRING	6	HDBAIOT	MQTR of owning IOT/PDDB
148	(94)	BITSTRING	8	HDBARECN	Record number associated with 1st LRC in the buffer
156	(9C)	SIGNED	2	HDBARCNT	Count of record starts
158	(9E)	SIGNED	2		Reserved
160	(A0)	SIGNED	4	HDBASTRT(0)	Advanced HDB data start
160	(A0)	BITSTRING	6	HDBDATNX	Next HDB with data blk MQTR
166	(A6)	BITSTRING	6	HDBDATPR	Prev HDB with data blk MQTR
172	(AC)	SIGNED	4	HDBDSTRT(0)	Advanced HDB data start
BSC TP buffer fields					

Table 32. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	DBL WORD	8	IOBCCW5	CHANNEL COMMAND WORD 5
112	(70)	DBL WORD	8	IOBCCW6	CHANNEL COMMAND WORD 6
120	(78)	DBL WORD	8	IOBCCW7	CHANNEL COMMAND WORD 7
128	(80)	DBL WORD	8	IOBCCW8	CHANNEL COMMAND WORD 8
128	(80)	X'70'	0	BUFIOBSZ	"*-BUFIOBST" IOB LENGTH
136	(88)	SIGNED	4	TPBUFST(0)	START OF REMOTE BUFFER WORK SPACE
136	(88)	X'F78'	0	\$MAXTPBS	"(4096+7-(TPBUFST-BFPDSECT))/8*8" Max bisynch buffer size
136	(88)	X'7F00'	0	\$SNABFMX	"(32768-256)" Max SNA buffer size
SPOOL OFFLOAD BUFFER FORMAT. THE FIELD SPBSTART MUST ALWAYS BE X'36' BYTES INTO THE BUFFER TO ENSURE A CONSISTENT AMOUNT OF DATA IS BEING READ OR WRITTEN.					
24	(18)	SIGNED	4	SPBCHAN2	SECONDARY BUFFER CHAIN FIELD
28	(1C)	SIGNED	4	SPBFDATA	POINTER TO NEXT RECORD
32	(20)	SIGNED	2	SPBRECNT	SPOOL TRANSFER BUFFER REC CNT
34	(22)	BITSTRING	1	SPBFLAG1	SPOOL OFFLOAD BUFFER FLAGS
54	(36)	BITSTRING	1	SPBSTART(0)	START OF DATA SECTION OF BUFFER

Table 33. Structure SPBRECD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPBRECD	, START OF LOGICAL RECORD
0	(0)	BITSTRING	1	SPBRCB	RECORD RCB
1	(1)	BITSTRING	1	SPBSRCB	RECORD SRCB
2	(2)	BITSTRING	1	SPBTYP	RECORD TYPE
3	(3)	BITSTRING	2	SPBDLEN	RECORD LENGTH FOR DATA RECORD
5	(5)	BITSTRING	1	SPBRDATA(0)	START OF DATA PORTION OF RECORD
5	(5)	X'0'	0	SPBHDR	"SPBRCB,*-SPBRCB" DISPL AND LENGTH OF RECORD HDR
5	(5)	X'3'	0	SPBEOFID	"SPBDLEN" EOF TYPE FOR EOF RECORD
SPBTYP DEFINITIONS					
5	(5)	X'1'	0	SPBTYPD	"1" TYPE IS DATA RECORD
5	(5)	X'2'	0	SPBTYP EF	"2" TYPE IS EOF RECORD
5	(5)	X'3'	0	SPBTYP EB	"3" TYPE IS END OF BUFFER RECORD
SPBEOFID DEFINITIONS					
5	(5)	X'1'	0	SPBEOFOK	"1" NORMAL EOF REACHED
5	(5)	X'2'	0	SPBEOFAB	"2" ABNORMAL EOF REACHED
SPBFLAG1 DEFINITIONS					
		1... ..		SPBSYNAD	"B'10000000'" PERM I/O ERROR HAS OCCURED
		.1.. ..		SPBEODAD	"B'01000000'" END OF DATA HAS OCCURED
		..1.		SPBSKIP	"B'00100000'" BUFFER IS TO BE SKIPPED

Table 34. Structure BFD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BFD	Start of HAM buffer prefix
0	(0)	CHARACTER	4	BFDID	Buffer identifier
4	(4)	SIGNED	4	BFDBAT	Address of auxiliary buffer
8	(8)	ADDRESS	4	BFDCHAIN	Buffer chain field
12	(C)	BITSTRING	1	BFDTYPE	Buffer type (see BUFTYPE)
13	(D)	BITSTRING	1	BFDMIGT	Migration transition count captured from DAS when I/O is queued
14	(E)	SIGNED	2	BFDLEN	Length remaining in buffer
16	(10)	DBL WORD	8	(0)	Alignment for PUT data area
16	(10)	BITSTRING	5	BFDQTR	HAM PUT buffer QTR value
21	(15)	BITSTRING	5	BFDCCHHR	HAM PUT buffer CCHHR value
16	(10)	BITSTRING	8		Reserved (BFDFSRBA)
24	(18)	SIGNED	4	(4)	Reserved (BFDSPNRG)
40	(28)	SIGNED	4		Reserved (BFDSPNR9)
44	(2C)	SIGNED	4		Reserved (BFDSPNRC)
48	(30)	ADDRESS	4		Reserved (BFDSCDR)
52	(34)	BITSTRING	7		Reserved (BFDSCDWK)
59	(3B)	BITSTRING	1		Reserved (BFDCCWKR)
60	(3C)	BITSTRING	1	BFDFLAG3	More flags: (also part of BUFMEMD1)
	1...			BFD3PROT	"B'10000000'" Buffer set read only
64	(40)	SIGNED	8	BFDCRECN	Reserved (BFDCRECN) (also BUFMEMW1/BUFMEMW2)
72	(48)	ADDRESS	4	BFDSDDB	In HAM, addr of owning SDB
72	(48)	X'48'	0	BFDPCE	"BFDSDB,4,C'A'" In HAM, addr of owning PCE
76	(4C)	BITSTRING	1	BFDECBCC(0)	I/O completion code
76	(4C)	SIGNED	4	BFDECB	ECB on which to wait (also BUFMEMW4)
80	(50)	BITSTRING	1	BFDFLAG1	Flag byte 1 (also BUFMEMF1)
	1...			BFD1EOB	"B'10000000'" END-OF-BUFFER indicator
	.1..			BFD1PUAC	"B'01000000'" PUT update active
	..1.			BFD1COPB	"B'00100000'" Copy and write buffer
	...1			BFD1ENDR	"B'00010000'" ENDREQ created buffer
BFDFLAG1 flags, for internal reader only					
	.... 1...			BFD1IEOF	"B'00001000'" PUT request for EOF
	.... .1..			BFD1IDEL	"B'00000100'" PUT req for DEL or PURGE
	.... ..1.			BFD1IERQ	"B'00000010'" ENDREQ request
	.... ...1			BFD1ICLS	"B'00000001'" CLOSE request
81	(51)	BITSTRING	1	BFDFLAG2	Flag byte 2 (also IOTFLAG5, BUFMEMF2, DSXFLAG2)
	1...			BFD2CSDB	"B'10000000'" Buffer queue for HAM PUT
	.1..			BFD2CSFR	"B'01000000'" HAM PUT should free bfr
	..1.			BFD2RPBF	"B'00100000'" Try again to fill PBF
	...1			BFD2IOE	"B'00010000'" I/O error encountered
	.... 1...			BFD2PCE	"B'00001000'" PCE owns I/O

Table 34. Structure BFD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		BFD2MGSK	"B'00000010'" Skip migration processing
		.... ...1		BFD2SOVR	"B'00000001'" Source override - use source DAS for I/O
BFDTRKQ use BUFMEMF3/BUFMEMF4/BUFMEMW5					
82	(52)	BITSTRING	6	BFDTRKQ	MQTR address of buffer
BFDRBA uses BUFMEMW6/BUFMEMW7					
88	(58)	DBL WORD	8	(0)	Alignment for BFDRBA
88	(58)	BITSTRING	8	BFDRBA	Relative block address
96	(60)	ADDRESS	4	BFDTCB	TCB address for FREEMAIN
100	(64)	ADDRESS	4	BFDLOC	Current location in buffer
104	(68)	DBL WORD	8	BFDSTART(0)	Start of data in buffer
Fields only used for substitution buffer (TYPE=SUBST).					
104	(68)	SIGNED	4	BFDYSLEN	Allocated buffer size
108	(6C)	CHARACTER	20	BFDYSRCN	Left adjusted printable record number (logging)
128	(80)	SIGNED	4	BFDYSRNL	Length of rec number
132	(84)	CHARACTER	12	BFDYSTRN	Printable truncate position (used for logging)
144	(90)	BITSTRING	1	BFDYSPRM(0)	Substitution service parameter list
144	(90)	BITSTRING	1	(0)	End of SUBST fields
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	ADDRESS	2	(0)	
144	(90)	X'1000'	0	BFD SIZE	"4096" Length of data set buffer
144	(90)	X'798'	0	\$MINBFSZ	"(2048+7-(BUFSTART-BFPDSECT))/8*8" Min HASP buffer size
144	(90)	X'F98'	0	\$MAXBFSZ	"(4096+7-(BUFSTART-BFPDSECT))/8*8" Max HASP buffer size

Table 35. Structure SCDREC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDREC	
0	(0)	ADDRESS	1	SCDLEN	Length of record
1	(1)	BITSTRING	6	SCDSTCKE	STCKE of PUT
1	(1)	X'7'	0	SCDTSLEN	"*-SCDREC" Length of PUT timestamp

Table 36. Cross Reference for \$BUFFER

Name	Offset	Hex Tag
\$MAXBFSZ	90	F98
\$MAXTPBS	88	F78
\$MINBFSZ	90	798
\$SNABFMX	88	7F00
BFD	0	
BFDBAT	4	
BFDCCHHR	15	
BFDCHAIN	8	
BFDCRECN	40	
BFDECB	4C	
BFDECBCC	4C	
BFDFLAG1	50	
BFDFLAG2	51	
BFDFLAG3	3C	
BFDID	0	
BFDLEN	E	
BFDLOC	64	
BFDMIGT	D	
BFDPCE	48	48
BFDQTR	10	
BFDRBA	58	
BFDSDDB	48	
BFDSIZE	90	1000
BFDSTART	68	
BFDTCB	60	
BFDTRKQ	52	
BFDTYPE	C	
BFDYSLEN	68	
BFDYSPRM	90	
BFDYSRCN	6C	
BFDYSRNL	80	
BFDYSTRN	84	
BFD1COPB	50	20
BFD1ENDR	50	10
BFD1E0B	50	80
BFD1ICLS	50	1
BFD1IDEL	50	4
BFD1IEOF	50	8
BFD1IERQ	50	2

Table 36. Cross Reference for \$BUFFER (continued)

Name	Offset	Hex Tag
BFD1PUAC	50	40
BFD2CSDB	51	80
BFD2CSFR	51	40
BFD2IOE	51	10
BFD2MGSK	51	2
BFD2PCE	51	8
BFD2RPBF	51	20
BFD2SOVR	51	1
BFD3PROT	3C	80
BFPBAT	4	
BFPCHN64	10	
BFPDCT	10	
BFPDSECT	0	
BFPEWF	14	
BFPID	0	
BFPLEN	18	18
BFPSWEL	4	4
BFPTHMGR	E	80
BPMTBSC	C	1
BPMTCB	C	2
BPMTHAM	C	7
BPMTHASP	C	3
BPMTPAGE	C	4
BPMTTP	C	5
BPMTUSCB	C	FF
BPMTVTAM	C	6
BUFBPMT	C	7
BUFBSC	C	21
BUFCB	C	22
BUFCB64	C	42
BUFCCFCB	D	1
BUFCHAIN	8	
BUFCHECB	44	
BUFCHEQ	44	
BUFCHNCT	42	
BUFCHOFF	41	
BUFDECB	C	8
BUFECBCC	D	
BUFFIX	C	80

Table 36. Cross Reference for \$BUFFER (continued)

Name	Offset	Hex Tag
BUFFLAG1	E	
BUFHASP	C	23
BUFIOB	C	20
BUFIOBST	18	
BUFIOBSZ	80	70
BUFLOCAL	C	0
BUFMEM	64	38
BUFMEMD1	38	
BUFMEMF1	50	
BUFMEMF2	51	
BUFMEMF3	52	
BUFMEMF4	53	
BUFMEMW1	40	
BUFMEMW2	44	
BUFMEMW3	48	
BUFMEMW4	4C	
BUFMEMW5	54	
BUFMEMW6	58	
BUFMEMW7	5C	
BUFMFLG1	50	50
BUFMIGTC	F	
BUFMULT	C	0
BUFM1CKP	50	80
BUFM1CK2	50	40
BUFPAGE	C	24
BUFPP	C	25
BUFRPL	C	10
BUFSJIOB	60	
BUFSPXFR	C	C
BUFSTART	68	
BUFTYPE	C	
BUFVTAM	C	16
BUFWRTBK	64	
BUF1CHEN	E	8
BUF1DASD	E	4
BUF1EXVR	E	40
BUF1MIGO	E	1
BUF1PERM	E	10
BUF1REDO	E	2

Table 36. Cross Reference for \$BUFFER (continued)

Name	Offset	Hex Tag
BUF1SINT	E	20
BUF1WIN	E	40
BUF64	C	40
HDBAFLG1	87	
HDBAIOT	8E	
HDBANXTM	80	
HDBAPRVM	88	
HDBARCNT	9C	
HDBARECN	94	
HDBASTRT	A0	
HDBATYPE	86	
HDBA1DAT	87	80
HDBDATNX	A0	
HDBDATPR	A6	
HDBDSKEY	7C	
HDBDSTRT	AC	
HDBID	68	
HDBJBKEY	78	
HDBJBNUM	74	
HDBJNAME	6C	
HDBKEY	78	
HDBNXTRK	80	
HDBSPLNG	7C	18
HDBSTART	88	
HDBTYPE	86	
HDBTYPE0	86	0
HDBTYPE1	86	1
IOBCCW1	48	
IOBCCW2	50	
IOBCCW3	58	
IOBCCW4	60	
IOBCCW5	68	
IOBCCW6	70	
IOBCCW7	78	
IOBCCW8	80	
IOBECBSV	18	2D
IOBXTENT	18	30
LCBACK	41	
LCBMCB	40	

Table 36. Cross Reference for \$BUFFER (continued)

Name	Offset	Hex Tag
LCBRCB	42	
PPBCBOFF	5C	
PPBCCWNX	4C	
PPBCMQR	54	
PPBCRCB	5A	
PPBDISPL	66	
PPBFLAG1	40	40
PPBLVCCC	3C	
PPBLVCCN	50	
PPBNBOFF	65	
PPBNMQTR	5D	
PPBNRCB	63	
PPBPCIE	48	
SCDLEN	0	
SCDREC	0	
SCDSTCKE	1	
SCDTSLEN	1	7
SPBCHAN2	18	
SPBDLEN	3	
SPBEODAD	5	40
SPBEOFAB	5	2
SPBEOFID	5	3
SPBEOFOK	5	1
SPBFDATA	1C	
SPBFLAG1	22	
SPBHDR	5	0
SPBRCB	0	
SPBRDATA	5	
SPBRECD	0	
SPBRECNT	20	
SPBSKIP	5	20
SPBSRCB	1	
SPBSTART	36	
SPBSYNAD	5	80
SPBTYPD	5	1
SPBTYP	2	
SPBTYP	5	3
SPBTYP	5	2
TPBFDATA	3C	

Table 36. Cross Reference for \$BUFFER (continued)

Name	Offset	Hex Tag
TPBLCCAD	18	30
TPBLCCC	18	30
TPBMXREC	18	2C
TPBRECNT	3C	
TPBUFST	88	

\$CADDR information

\$CADDR heading information

Common name:	Common storage address table
Macro ID:	\$CADDR
DSECT name:	CADDR
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CADD' Offset: CADDRID-CADDR Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage can be either above or below the 16M line, in common storage.
Size:	See the CADDRLEN equate.
Created by:	The CADDR is created during JES2 initialization, when JES2 common storage code modules are loaded.
Pointed to by:	CCTCADDR field of the \$HCCT data area
Serialization:	The CADDR should be considered as read-only once the initialization processing that builds it completes.
Function:	The CADDR contains the addresses of all JES2 common storage service routines to which access is required from multiple assembly modules or installation exits. This table may be used by \$CALL to locate routines residing in common storage in the JES2 address space. \$CALL uses this table to find either the address or PC number for the called routine. JES2 service routine addresses are normally defined using the \$ENTRY macro (common storage service routine addresses MUST be defined using \$ENTRY). When \$ENTRY is used in base IBM JES2 product modules which are assembled using the USER assembly environment, it builds information about the entry point in the module. The information is then used during JES2 initialization to resolve the routine's address to the appropriate CADDR field.

\$CADDR mapping

Table 37. Structure CADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CADDR	, JES2 Common storage routine ADDRESS table dsect
0	(0)	CHARACTER	4	CADDRID	CADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	CADDRVSN	VERSION NUMBER FIELD
4	(4)	X'7'	0	CADDRVNM	"7" Current version number
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Fields from CADDREQS through CADDREQE are resolved from the MTEs (\$ENTRY information) in IBM JES2 product modules loaded to common storage. They must all be either non-zero or defined in an exception table after that resolution.					
8	(8)	ADDRESS	4	CADDREQS(0)	Start of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
MODULE HASCARMS ROUTINES LISTED ALPHABETICALLY					
8	(8)	ADDRESS	4	C@CPJAFF	Set local affinity
12	(C)	ADDRESS	4	C@CPJCLINI	Initialize PJCL queue
16	(10)	ADDRESS	4	C@CPJCLTRM	Terminate PJCL queue
MODULE HASCARSO ROUTINES LISTED ALPHABETICALLY					
20	(14)	ADDRESS	4	C@ARMEQJ	Notify ARM of end of job
MODULE HASCBLDM ROUTINES LISTED ALPHABETICALLY					
24	(18)	ADDRESS	4	C@\$MSGDISR	\$BLDMSG default display rtn
28	(1C)	ADDRESS	4	C@\$MSGSCAN	\$BLDMSG service routine
32	(20)	ADDRESS	4	C@\$REPLY	\$REPLY service routine
36	(24)	ADDRESS	4	C@PREJOBNM	Display current jobname
40	(28)	ADDRESS	4	C@PREREPGC	Display record/page count in HASP150 routine
Module HASCCNVS routines listed alphabetically					
44	(2C)	ADDRESS	4	C@CALLCI	Convert and interpret a job
48	(30)	ADDRESS	4	C@CNVCLNUP	C/I subtask cleanup routine
52	(34)	ADDRESS	4	C@CNVSETUP	C/I subtask setup routine
56	(38)	ADDRESS	4	C@COPNPROC	PROCLIB OPEN/CLOSE routine
60	(3C)	ADDRESS	4	C@EXTRTOD	Extract Time of Day routine
64	(40)	ADDRESS	4	C@GTCURTIME	Get Current Time routine
68	(44)	ADDRESS	4	C@GTUTC0IM	Get UTC offset on Inp memb
72	(48)	ADDRESS	4	C@JCISUB	C/I subtask in C/I addrspac
76	(4C)	ADDRESS	4	C@PROCALCS	Subtask PROCLIB allocation
80	(50)	ADDRESS	4	C@XCNRECOV	General CNVS subtask recov
84	(54)	ADDRESS	4	C@XINTKEY	Locate internal text string
88	(58)	ADDRESS	4	C@XJDTKEY	Locate internal text string (JDT keyword)

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Module HASCDAU Routines Listed Alphabetically					
92	(5C)	ADDRESS	4	C@\$ALLDAU	Allocate daughter IOT
96	(60)	ADDRESS	4	C@\$UALDAU	Unallocate daughter IOT
MODULE HASCDLAL ROUTINES LISTED ALPHABETICALLY					
100	(64)	ADDRESS	4	C@\$DSCBBLD	Fill in DSCB
104	(68)	ADDRESS	4	C@\$PDBBLD	GET A Pddb SLOT ROUTINE
108	(6C)	ADDRESS	4	C@\$PDBDEFS	Default some Pddb fields
112	(70)	ADDRESS	4	C@HALENCRY	Alloc encrypt/compress obj
116	(74)	ADDRESS	4	C@HALFDSNR	Find data set name
120	(78)	ADDRESS	4	C@HALOMERG	Find MERGE=YES SWB
124	(7C)	ADDRESS	4	C@HALOPDBI	FINISH SYSOUT Pddb INIT
128	(80)	ADDRESS	4	C@HALR	Internal reader allocate
132	(84)	ADDRESS	4	C@HALRDCAT	Read data set catalog
136	(88)	ADDRESS	4	C@HALUNAL	UNALLOCATE A DATASET ROUTINE
140	(8C)	ADDRESS	4	C@HIOTSPIN	SPIN THE ARGUMENT IOT
144	(90)	ADDRESS	4	C@HNDUPDTE	Update SWB NOTIFY keyword
148	(94)	ADDRESS	4	C@HNOTIFY	Determine nodes/userids for notify msg
152	(98)	ADDRESS	4	C@HBSRBLDL	Rebuild syslog chain
156	(9C)	ADDRESS	4	C@HTRACSET	Setup PHAM CTRACE
160	(A0)	ADDRESS	4	C@JESLOGC	JESLOG conversion routine
MODULE HASCDSOC ROUTINES LISTED ALPHABETICALLY					
164	(A4)	ADDRESS	4	C@DSOPEN	DATA SET OPEN ROUTINE
168	(A8)	ADDRESS	4	C@HFEXFSPC	SPC Finalization
172	(AC)	ADDRESS	4	C@HFEXJESL	Extend JESLOG data set
176	(B0)	ADDRESS	4	C@HFEXSDET	JESLOG/Spin-any Spin determination
180	(B4)	ADDRESS	4	C@HFEXSPIN	Spin JESLOG/Spin-any D S
184	(B8)	ADDRESS	4	C@HFOPSUB	ACB FAKE OPEN ROUTINE
188	(BC)	ADDRESS	4	C@HOCSETUP	RESTART/OPEN/CLOSE SETUP ROUTINE
192	(C0)	ADDRESS	4	C@SSVCLSC	CONVERTER FAKE CLOSE
196	(C4)	ADDRESS	4	C@SSVOPNC	CONVERTER FAKE OPEN
MODULE HASCDSS ENTRY POINT.					
200	(C8)	ADDRESS	4	C@\$ALESERV	ALET management service
204	(CC)	ADDRESS	4	C@DPSERV	Data space service entry
Module HASCEDL routines listed alphabetically					
208	(D0)	ADDRESS	4	C@EDSCBCR	Create EDSCB
212	(D4)	ADDRESS	4	C@EDSCBDL	Delete EDSCB
216	(D8)	ADDRESS	4	C@EDSCRT	Create EDS address space
220	(DC)	ADDRESS	4	C@EDSDLT	Delete EDS address space
224	(E0)	ADDRESS	4	C@EDSKILL	Kill EDS address space
228	(E4)	ADDRESS	4	C@PREEMFRG	Display email for HASP1528

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
232	(E8)	ADDRESS	4	C@PREHTERR	Display Toolkit error
236	(EC)	ADDRESS	4	C@PREURI	Display server URI
240	(F0)	ADDRESS	4	C@PREZFERR	Display z/OSMF error
244	(F4)	ADDRESS	4	C@URIPARSE	Parse URI/URL
Module HASCENF routines and tokens listed alphabetically.					
248	(F8)	ADDRESS	4	C@ENFISSUE	ENF issue service
252	(FC)	ADDRESS	4	K@ENF58CDC	Copy ENF 58 info to CDCT
256	(100)	ADDRESS	4	K@ENF70CDC	Copy ENF 70 info to CDCT
The list of ENF routines must be contiguous and the routines must appear in the same order as the ENFREQ LISTENS appear in the \$CSVLIST macro.					
260	(104)	ADDRESS	4	CADDR#ENFBEG(0)	Start of ENF entries
260	(104)	ADDRESS	4	CADDR@ENF35	Code 35 - CF structure
264	(108)	ADDRESS	4	CADDR#ENF35	status change
268	(10C)	ADDRESS	4	CADDR@ENF41GL	Code 41 - VARY WLM,POLICY=
272	(110)	ADDRESS	4	CADDR#ENF41GL	in goal mode done
276	(114)	ADDRESS	4	CADDR@ENF41CP	Code 41 - VARY WLM,POLICY=
280	(118)	ADDRESS	4	CADDR#ENF41CP	in compatibility mode done
284	(11C)	ADDRESS	4	CADDR@ENF46	Code 46 - OMVS active
288	(120)	ADDRESS	4	CADDR#ENF46	or inactive
292	(124)	ADDRESS	4	CADDR@ENF51	Code 51 - GRS local ENQ
296	(128)	ADDRESS	4	CADDR#ENF51	contention
300	(12C)	ADDRESS	4	CADDR@ENF53	Code 53 - local time
304	(130)	ADDRESS	4	CADDR#ENF53	offset change
308	(134)	ADDRESS	4	CADDR@ENF56RST	Code 56 - RESET job
312	(138)	ADDRESS	4	CADDR#ENF56RST	command issued
316	(13C)	ADDRESS	4	CADDR@ENF56RGQ	Code 56 - Register queue
320	(140)	ADDRESS	4	CADDR#ENF56RGQ	command issued
324	(144)	ADDRESS	4	CADDR@ENF57CM	Code 57 - MODIFY WLM,
328	(148)	ADDRESS	4	CADDR#ENF57CM	RESOURCE command issued
332	(14C)	ADDRESS	4	CADDR@ENF57RV	Code 57 - Scheduling chg
336	(150)	ADDRESS	4	CADDR#ENF57RV	due to WLM recovery
340	(154)	ADDRESS	4	CADDR@ENF58NR	Code 58 - ENF for data set
344	(158)	ADDRESS	4	CADDR#ENF58NR	event
348	(15C)	ADDRESS	4	CADDR@ENF62RL	Code 62 - RACF RACLIST
352	(160)	ADDRESS	4	CADDR#ENF62RL	class change
356	(164)	ADDRESS	4	CADDR@ENF62RF	Code 62 - RACF RACLIST
360	(168)	ADDRESS	4	CADDR#ENF62RF	REFRESH class change
364	(16C)	ADDRESS	4	CADDR@ENF62NR	Code 62 - RACF NORACLIST
368	(170)	ADDRESS	4	CADDR#ENF62NR	class change
372	(174)	ADDRESS	4	CADDR@ENF70NR	Code 70 - JES job change
376	(178)	ADDRESS	4	CADDR#ENF70NR	event
380	(17C)	ADDRESS	4	CADDR@ENF80LS	Code 80 - TCP stack
384	(180)	ADDRESS	4	CADDR#ENF80LS	active

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
388	(184)	ADDRESS	4	CADDR@ENF83LS	Code 83 - z/OSMF
392	(188)	ADDRESS	4	CADDR#ENF83LS	event
396	(18C)	ADDRESS	4	CADDR@ENF86LS	Code 86 - Compliance check
400	(190)	ADDRESS	4	CADDR#ENF86LS	event
400	(190)	X'12'	0	CADDRENFNUM	"(*-CADDRENFBEGB)/8" Number of ENF entries
MODULE HASC GGKY ROUTINES LISTED ALPHABETICALLY					
404	(194)	ADDRESS	4	C@\$GKGET	Get grouping keys
408	(198)	ADDRESS	4	C@\$GKINIT	Initialize grouping keys
412	(19C)	ADDRESS	4	C@\$GKTERM	Terminate grouping keys
MODULE HASC GGST ROUTINES LISTED ALPHABETICALLY					
416	(1A0)	ADDRESS	4	C@\$GASSIGN	Assign grouping token
420	(1A4)	ADDRESS	4	C@\$GSINIT	Initialize grouping strings
424	(1A8)	ADDRESS	4	C@\$GSTERM	Terminate grouping strings
Module HASCHAM routines listed alphabetically					
428	(1AC)	ADDRESS	4	CADDR@HAMAVT	HAM appendage vector table, not for \$CALL, data only
432	(1B0)	ADDRESS	4	C@HAMNULL	'Null' acsmeth interface
436	(1B4)	ADDRESS	4	C@HAMPSTER	HAM Post Exit routine
440	(1B8)	ADDRESS	4	C@HASPAMI	Access method interface
444	(1BC)	ADDRESS	4	C@HGETCHN	Get next buffer/record
448	(1C0)	ADDRESS	4	C@HGETSPEC	HGETSPEC entry point
452	(1C4)	ADDRESS	4	C#HGETSPEC	HGETSPEC PC number
456	(1C8)	ADDRESS	4	C@HGETSREC	HGETSPEC recovery
460	(1CC)	ADDRESS	4	K@HPOSTECB	Post a HAM ECB
Module HASCINJR routines listed alphabetically					
464	(1D0)	ADDRESS	4	C@CBOOKMRK	Create JCLIN bookmark
468	(1D4)	ADDRESS	4	C@CCLSSYSI	Common CLOSE sysin data set
472	(1D8)	ADDRESS	4	C@CEXITACT	Accounting card exit (53)
476	(1DC)	ADDRESS	4	C@CEXITCRD	RDR card exits (52 and 54)
480	(1E0)	ADDRESS	4	C@CINITJRW	Initialize new JRW
484	(1E4)	ADDRESS	4	C@CIOTCLN	Common clean up IOT service
488	(1E8)	ADDRESS	4	C@CIRDRPUT	Internal reader PUT service
492	(1EC)	ADDRESS	4	C@CJOBADD	Finalize job structures
496	(1F0)	ADDRESS	4	C@CJOBBLD	Common job build service
500	(1F4)	ADDRESS	4	C@CJOBVFY	Common job verification
504	(1F8)	ADDRESS	4	C@CLEANJRW	Clean storage assoc w JRW
508	(1FC)	ADDRESS	4	C@CPROCARD	Common JCL/JECL card proc
512	(200)	ADDRESS	4	C@CPUT	Common JCL PUT service
516	(204)	ADDRESS	4	C@CSETVECT	Set routine address vector
520	(208)	ADDRESS	4	C@CSPLOPN	Common OPEN spool data set
524	(20C)	ADDRESS	4	C@CXMTRTNE	Common XMIT processing rtn

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
528	(210)	ADDRESS	4	C@IRCLNUP	Internal Reader Cleanup
MODULE HASCJBST ROUTINES LISTED ALPHABETICALLY					
532	(214)	ADDRESS	4	C@BLDSYSDS	Build system data sets
536	(218)	ADDRESS	4	C@GRPINIT	Initialize grouping strings
540	(21C)	ADDRESS	4	C@HFJOBLOG	PLACE TITLE IN JES2 JOB LOG
544	(220)	ADDRESS	4	C@HFJLOGTM	Add date line to JOB LOG
548	(224)	ADDRESS	4	C@HFJDLINE	Create date line
552	(228)	ADDRESS	4	C@HJE000	COMMON JOB TERMINATION ROUTINE
556	(22C)	ADDRESS	4	C@HJSMASL	MAKE A SLOT FOR A SYSTEM Pddb
560	(230)	ADDRESS	4	C@JBFOUND	JOB SELECT SET UP ROUTINE
564	(234)	ADDRESS	4	C@JBSELECT	JOB SELECT SELECTION ROUTINE
568	(238)	ADDRESS	4	C@JOBSTATS	UPDATE JCT STATS ROUTINE
572	(23C)	ADDRESS	4	C@JSOPSSDS	OPEN SUBSYSTEM DATASETS ROUTINE
576	(240)	ADDRESS	4	C@JSREOPEN	JOB SELECT DS REOPEN RTN
580	(244)	ADDRESS	4	C@SWAREAD	SWA read/relocate service
MODULE HASCJBTR ROUTINES LISTED ALPHABETICALLY					
584	(248)	ADDRESS	4	C@\$UCBINDX	Reset Attn Index in UCB
588	(24C)	ADDRESS	4	C@CLEANBAT	Cleanup BATs
592	(250)	ADDRESS	4	C@EOBLOB	Clean up BLOB
596	(254)	ADDRESS	4	C@EOTFDCON	ISSUE FSI DISCONNECT REQUEST
MODULE HASCJZDN ROUTINES LISTED ALPHABETICALLY					
600	(258)	ADDRESS	4	C@PROCJZDN	Dep Job Control request processing routine.
604	(25C)	ADDRESS	4	K@JDPRWHER	WHEN=/ERROR= parser
608	(260)	ADDRESS	4	K@JDPRRPNL	Evaluate RPN using MAXRC
MODULE HASCLINK ROUTINES LISTED ALPHABETICALLY					
612	(264)	ADDRESS	4	C@\$GETABL	\$GETABLE service routine
616	(268)	ADDRESS	4	C@\$CRETANY	\$RETURN SERVICE ROUTINE
620	(26C)	ADDRESS	4	C@\$CRETRN	\$RETURN SERVICE ROUTINE
624	(270)	ADDRESS	4	C@\$CSAVANY	\$SAVE SERVICE ROUTINE
628	(274)	ADDRESS	4	C@\$CSAVE	\$SAVE SERVICE ROUTINE
632	(278)	ADDRESS	4	C@\$DYNLPA	Dynamic LPA exit routine
636	(27C)	ADDRESS	4	C@\$ECBEXIT	ECB post processing exit
640	(280)	ADDRESS	4	C@\$ECBPOST	Post ECB from POST exit
644	(284)	ADDRESS	4	C@\$FBUFRTN	Routine to free buffers with LOCAL lock held
648	(288)	ADDRESS	4	C@\$FRECEL	FREE A CSA CELL
652	(28C)	ADDRESS	4	C@\$GETCEL	OBTAIN A CSA CELL
656	(290)	ADDRESS	4	K@\$GETHP	HIGH PRIVATE STORAGE CELLS
660	(294)	ADDRESS	4	C@\$HGFMMAIN	HGFMMAIN GET/FREE MAIN SERVICES (REGS=SAVE/REGS=USE)
664	(298)	ADDRESS	4	K@\$HGFMANK	HGFMMAIN GET/FREE MAIN SERVICES (REGS=SYSTEM)

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
668	(29C)	ADDRESS	4	C@\$MLTFBUF	MULTIPLE BUFFER FREE ROUTINE
672	(2A0)	ADDRESS	4	K@\$MODLOC	Locate a module (MVS style)
676	(2A4)	ADDRESS	4	C@\$MSDDUMP	Multi System Dump Routine
680	(2A8)	ADDRESS	4	C@\$SSIAUTH	SSI authorization service
684	(2AC)	ADDRESS	4	C#\$SSIAUTH	SSI auth PC number
688	(2B0)	ADDRESS	4	C@\$SSIBEGN	SSI INTERFACE BEGIN ROUTINE
692	(2B4)	ADDRESS	4	C@\$SSIEND	SSI INTERFACE END ROUTINE
696	(2B8)	ADDRESS	4	C@\$SYMREC	ENTRY TO \$SYMREC ROUTINE
700	(2BC)	ADDRESS	4	C@ABNDADJ	Adjust ABEND loc for ILC
704	(2C0)	ADDRESS	4	C@ABNSKIP	Determine if SDUMP needed
708	(2C4)	ADDRESS	4	C@FINDMOD	Find LMT/MIT for a module containing a given address
712	(2C8)	ADDRESS	4	C@FRETRE	FREE TCB RECOVERY ELEMENT
716	(2CC)	ADDRESS	4	C@GETTRE	GET TCB RECOVERY ELEMENT
720	(2D0)	ADDRESS	4	C@FINDLMD	Locate load module by addr
724	(2D4)	ADDRESS	4	C@MBSCATTN	BSC CTC Attention routine
728	(2D8)	ADDRESS	4	C@RECOVERY	SSI RECOVERY ROUTINE
732	(2DC)	ADDRESS	4	C@SSIFINE	SSI INTERFACE FINISH ROUTINE
736	(2E0)	ADDRESS	4	C@SSISESTA	SSI \$ESTAE ROUTINE
740	(2E4)	ADDRESS	4	C@SSISETUP	SSI INTERFACE SETUP ROUTINE
744	(2E8)	ADDRESS	4	CADDR@CNTBITAB	TRT table for \$CNTBIT macro
748	(2EC)	ADDRESS	4	CADDR@TRJNAME	Table for BAD_JOBNAME_CHAR
Module HASCNJAS entries listed alphabetically					
752	(2F0)	ADDRESS	4	C@\$FRETBUF	\$FRETBUF service
756	(2F4)	ADDRESS	4	C@\$GETTBUF	\$GETTBUF service
760	(2F8)	ADDRESS	4	C@\$NSSTLOK	Obtain/Release NSST lock
764	(2FC)	ADDRESS	4	C@DELJ2SRV	Delete JES2 server addrspc
768	(300)	ADDRESS	4	C@GETJ2SRV	Start JES2 server addrspc
MODULE HASCNJE ROUTINES listed alphabetically					
772	(304)	ADDRESS	4	C@NJEFOpen	NJE Fake Open
776	(308)	ADDRESS	4	C@NJEFREBF	Free NJE CB buffers
780	(30C)	ADDRESS	4	C@NJEHBLD	NJE Header build routine
784	(310)	ADDRESS	4	C@NJEHDADD	Add NJE header section
788	(314)	ADDRESS	4	C@NJEHDEXP	Expand NJE header section
792	(318)	ADDRESS	4	C@NJEHDMAK	Create NJE header
796	(31C)	ADDRESS	4	C@NJEHDRDU	NJE header read routine
800	(320)	ADDRESS	4	C@NJEHDREM	Delete NJE header section
804	(324)	ADDRESS	4	C@NJEHDVAL	HDR/TRL Validate routine
808	(328)	ADDRESS	4	C@NJEHDWRU	NJE header write routine
812	(32C)	ADDRESS	4	C@NJEPORCV	NJE post-receive header rtn
816	(330)	ADDRESS	4	C@NJEPRXMT	NJE pre-xmit header rtn
820	(334)	ADDRESS	4	C@NJETBLD	Build job trailer
824	(338)	ADDRESS	4	C@NJETRACE	NJE rolling trace
828	(33C)	ADDRESS	4	C@HASPNACT	Entry to HASPNACT routine

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
832	(340)	ADDRESS	4	C@PREMG529	MSG529 \$BLDMSG TEXT prescan
836	(344)	ADDRESS	4	C@RNODEBAD	Entry to RNODEBAD routine
Module HASCNJEX entries listed alphabetically					
840	(348)	ADDRESS	4	C@NJEXARR	NJE/TCP recovery ARR
844	(34C)	ADDRESS	4	C@NJEXASEA	Server early addrspc init
848	(350)	ADDRESS	4	C@NJEXASIN	Server addrspc init
852	(354)	ADDRESS	4	C@NJEXASRQ	Server addrspc request
856	(358)	ADDRESS	4	C@NJEXASTM	Server addrspc term
860	(35C)	ADDRESS	4	C@NJEXCREQ	Connection Request
864	(360)	ADDRESS	4	C@NJEXIREC	Server inbound NCC/NMR
868	(364)	ADDRESS	4	C@NJEXISIN	Server inbound SYSIN
872	(368)	SIGNED	4	C#NJEXISIN	NJE/TCP inbound SYSIN PC
876	(36C)	ADDRESS	4	C@NJEXISOT	Server inbound SYSOUT
880	(370)	SIGNED	4	C#NJEXISOT	NJE/TCP inbound SYSOUT PC
884	(374)	ADDRESS	4	C@NJEXOSIN	Server outbound SYSIN
888	(378)	SIGNED	4	C#NJEXOSIN	NJE/TCP outbound SYSIN PC
892	(37C)	ADDRESS	4	C@NJEXOSOT	Server outbound SYSOUT
896	(380)	SIGNED	4	C#NJEXOSOT	NJE/TCP outbound SYSOUT PC
900	(384)	ADDRESS	4	C@NJEXSTIN	Server subtask init
904	(388)	ADDRESS	4	C@NJEXSTNM	Server subtask message
908	(38C)	SIGNED	4	C#NJEXSTNM	NJE/TCP subtask message PC
912	(390)	ADDRESS	4	C@NJEXSTRQ	Server subtask request
916	(394)	SIGNED	4	C#NJEXSTRQ	NJE/TCP subtask request PC
920	(398)	ADDRESS	4	C@NJEXSTTM	Server subtask term
924	(39C)	ADDRESS	4	C@NJEXTRAC	Tracing routine
928	(3A0)	SIGNED	4	C#NJEXTRAC	NJE/TCP general trace PC
Module HASCNJGP entries listed alphabetically					
932	(3A4)	ADDRESS	4	C@HA\$CNJGP	Entry point for GP subtask
936	(3A8)	ADDRESS	4	C@NJGPRCOV	Recovery routine
940	(3AC)	ADDRESS	4	C@\$CSUBIT	\$SUBIT Routine
Module HASCNJJR entries listed alphabetically					
944	(3B0)	ADDRESS	4	C@NJJRJOBH	Process NJE job header
948	(3B4)	ADDRESS	4	C@NJJRMAIN	NETSRV addrspc main line
952	(3B8)	ADDRESS	4	C@NJJRTERM	Job rcvr resource cleanup
956	(3BC)	ADDRESS	4	C@NJOBWTO	Job rcvr notify message
960	(3C0)	ADDRESS	4	C@RNJEHCTR	Verify/expand job headers
Module HASCNJJT entries listed alphabetically					
964	(3C4)	ADDRESS	4	C@NJJTJOBH	Build job header
968	(3C8)	ADDRESS	4	C@NJJTJOBT	Build job trailer
972	(3CC)	ADDRESS	4	C@NJJTMAIN	NETSRV addrspc main line
976	(3D0)	ADDRESS	4	C@NJJTNTFY	Job Xmitter Notify Message

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
980	(3D4)	ADDRESS	4	C@NJJTTERM	Job Xmitter Cleanup rtn
984	(3D8)	ADDRESS	4	C@NJMENCER	Report \$MGENCRY error(NJJT)
988	(3DC)	ADDRESS	4	C@NJTAUTH	JESSPOOL class authorizatin
Module HASCNJRC entries listed alphabetically					
992	(3E0)	ADDRESS	4	C@NJEABSNP	Entry point for subtask
Module HASCNJRQ entries listed alphabetically					
996	(3E4)	ADDRESS	4	C@HASCNJRQ	Entry point for subtask
1000	(3E8)	ADDRESS	4	C@NJRQRCOV	Recovery routine
1004	(3EC)	ADDRESS	4	C@NJRQENQ	Queue request to server
Module HASCNJSR entries listed alphabetically					
1008	(3F0)	ADDRESS	4	C@NJSRPCPY	Apply SYSOUT recvr policies
1012	(3F4)	ADDRESS	4	C@NJSRJOBH	Process NJE job header
1016	(3F8)	ADDRESS	4	C@NJSRJOBT	Process NJE job trailer
1020	(3FC)	ADDRESS	4	C@NJSRMAIN	NETSRV addrspc main line
1024	(400)	ADDRESS	4	C@NJSRNTFY	Process NJE notify message
1028	(404)	ADDRESS	4	C@NJSRPDDb	Process dataset header
1032	(408)	ADDRESS	4	C@NJSRSIGN	Build sign-on message
1036	(40C)	ADDRESS	4	C@NJSRTERM	SYSOUT Receiver Cleanup rtn
1040	(410)	ADDRESS	4	C@NJSRNCOD	Encode nodename
1044	(414)	ADDRESS	4	C@NSRAUTH	NJE authority checking
1048	(418)	ADDRESS	4	C@NJSROPTB	Extract OPTB values to PDDb
MODULE HASCNJST ROUTINES listed alphabetically					
1052	(41C)	ADDRESS	4	C@NJSTMAIN	NETSRV addrspc main line
1056	(420)	ADDRESS	4	C@NJSTOPTB	OPTB section subroutine
1060	(424)	ADDRESS	4	C@NJSTTERM	SYSOUT Xmitter Cleanup rtn
1064	(428)	ADDRESS	4	C@NSTAUTH	Data set authorization rtn.
1068	(42C)	ADDRESS	4	C@NSTCDSH	Update dataset header
1072	(430)	ADDRESS	4	C@NSTCJBH	Update Job Header
1076	(434)	ADDRESS	4	C@NSTCJBT	Update Job Trailer
Module HASCOFST entries listed alphabetically					
1080	(438)	ADDRESS	4	CADDR@COOOFST	Offset table for O C O code (data only, not \$CALLable) O C O code cannot use this CADDR field, as the CADDR is not frozen.
Module HASCPCYC entries listed alphabetically					
1084	(43C)	ADDRESS	4	CADDR@MINMAXF	MIN()/MAX() implementation
1088	(440)	ADDRESS	4	C@PCYAPPCk	Policy apply pre-check
1092	(444)	ADDRESS	4	C@PCYAPPLY	Policy apply service
1096	(448)	ADDRESS	4	C@PCYEXPR	Policy expression parser
1100	(44C)	ADDRESS	4	C@PCYMAPPT	Map policy type

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1104	(450)	ADDRESS	4	C@PCYOADD	Add policy object to chain
1108	(454)	ADDRESS	4	K@PCYOCRT	Create policy object
1112	(458)	ADDRESS	4	K@PCYODEST	Destroy policy object
1116	(45C)	ADDRESS	4	C@PCYORMVC	Remove policy object from chain
1120	(460)	ADDRESS	4	C@PCYORPLC	Replace policy object in chain
1124	(464)	ADDRESS	4	C@PCYRPNEV	Policy RPN evaluator
1128	(468)	ADDRESS	4	K@PCYTERM	Policy termination cleanup
1132	(46C)	ADDRESS	4	K@PIWCRT	Create policy interpreter work area
1136	(470)	ADDRESS	4	K@PIWDST	Destroy policy interpreter work area
1140	(474)	ADDRESS	4	C@PIWRSIV	Reset instance variables
1144	(478)	ADDRESS	4	CADDR@PCYACIT	Policy action implementation table
1148	(47C)	ADDRESS	4	CADDR@PCYATMT	Policy attribute implementation table
Module HASCPHAM routines listed alphabetically					
1152	(480)	ADDRESS	4	C@ABEND722	Issue 722 ABEND
1156	(484)	ADDRESS	4	C@ALCSSTB	Allocate substitution buf
1160	(488)	ADDRESS	4	C#ALCSSTB	Allocate SST buf PC number
1164	(48C)	ADDRESS	4	C@ALCSBRY	Allocate SST buf ARR rtn
1168	(490)	ADDRESS	4	C@CNIN2OUT	Convert SDB from input to output mode
1172	(494)	ADDRESS	4	C@FREPBLOK	Free protected block
1176	(498)	ADDRESS	4	C@FRESDBLK	Unserialize the SDB
1180	(49C)	ADDRESS	4	C@FRESDBL2	Unserialize the SDB with SDBIVSDB POST code
1184	(4A0)	ADDRESS	4	C@FRIRWDLK	Free IRWD lock
1188	(4A4)	ADDRESS	4	C@GETPBLOK	Obtain GET protected block
1192	(4A8)	ADDRESS	4	C@GETSDBLK	Serialize the SDB
1196	(4AC)	ADDRESS	4	C@GETSDBL2	Get SDB lock with no WAIT
1200	(4B0)	ADDRESS	4	C@GTIRWDLK	Get IRWD lock
1204	(4B4)	ADDRESS	4	C@HINTRDR	Prot INTRDR service entry
1208	(4B8)	ADDRESS	4	C#HINTRDR	Prot INTRDR PC number
1212	(4BC)	ADDRESS	4	C@HINTRREC	Prot INTRDR recovery rtn
1216	(4C0)	ADDRESS	4	C@HIOCHECK	Start HAM I/O if needed
1220	(4C4)	ADDRESS	4	C#HIOCHECK	Start HAM I/O PC number
1224	(4C8)	ADDRESS	4	C@HIOCKRY	Start HAM I/O recovery rtn
1228	(4CC)	ADDRESS	4	C@HMIGTRK	Track processing during volume migration
1232	(4D0)	ADDRESS	4	C@HPUTFULL	Write complete HDB/IOT
1236	(4D4)	ADDRESS	4	C@HWAITBUF	Wait for all I/O to end
1240	(4D8)	ADDRESS	4	C@LOGISST	Log symbol substitution
1244	(4DC)	ADDRESS	4	C#LOGISST	Log sym subst PC number
1248	(4E0)	ADDRESS	4	C@LOGSTRY	Log sym subst recovery rtn
1252	(4E4)	ADDRESS	4	C@OBTGBAT	Obtain BAT for GET request
1256	(4E8)	ADDRESS	4	C@PROTENDR	Protected Endreq entry pt
1260	(4EC)	ADDRESS	4	C#PROTENDR	Protected Endreq PC number
1264	(4F0)	ADDRESS	4	C@PRENREC	Protected Endreq recov rtn
1268	(4F4)	ADDRESS	4	C@PROTGET	Protected Get entry point

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1272	(4F8)	ADDRESS	4	C#PROTGET	Protected Get PC number
1276	(4FC)	ADDRESS	4	C@PRGETREC	Protected Get recovery rtn
1280	(500)	ADDRESS	4	C@PROTPUT	Protected Put entry point
1284	(504)	ADDRESS	4	C#PROTPUT	Protected Put PC number
1288	(508)	ADDRESS	4	C@PRPUTREC	Protected Put recovery rtn
1292	(50C)	ADDRESS	4	C@PROTPNT	Protected Point entry point
1296	(510)	ADDRESS	4	C#PROTPNT	Protected Point PC number
1300	(514)	ADDRESS	4	C@PRPNTREC	Protected Point recovery rt
1304	(518)	ADDRESS	4	C@PROTSRB	Protected Get SRB entry pnt
1308	(51C)	ADDRESS	4	C#PROTSRB	Protected Get SRB PC number
1312	(520)	ADDRESS	4	C@PRSRBREC	Protected SRB recovery rtn
1316	(524)	ADDRESS	4	C@RELGBAT	Release BAT for GET request
1320	(528)	ADDRESS	4	C@SVCADDCT	Add packed decimal
1324	(52C)	ADDRESS	4	C@SVCADPCT	Add packed decimal to packed decimal (PHAM)
1328	(530)	ADDRESS	4	C@UPDDSCA	Update current DSCA pointer
MODULE HASCPool ROUTINES LISTED ALPHABETICALLY					
1332	(534)	ADDRESS	4	C@CPBUILD	CPool build entry point
1336	(538)	ADDRESS	4	C#CPBUILD	CPool build PC number
1340	(53C)	ADDRESS	4	C@CPBREC	CPool build recovery rtn
1344	(540)	ADDRESS	4	C@CPCONTRA	CPool contract service
1348	(544)	ADDRESS	4	C#CPCONTRA	CPool contract PC number
1352	(548)	ADDRESS	4	C@CPCREC	CPool contract recovery rtn
1356	(54C)	ADDRESS	4	C@CPDELETE	CPool delete entry point
1360	(550)	ADDRESS	4	C#CPDELETE	CPool delete PC number
1364	(554)	ADDRESS	4	C@CPDREC	CPool delete recovery rtn
1368	(558)	ADDRESS	4	C@CPEXPAND	CPool expand entry point
1372	(55C)	ADDRESS	4	C#CPEXPAND	CPool expand PC number
1376	(560)	ADDRESS	4	C@CPXREC	CPool expand recovery rtn
1380	(564)	ADDRESS	4	C@CPFREE	CPool free entry point
1384	(568)	ADDRESS	4	C#CPFREE	CPool free PC number
1388	(56C)	ADDRESS	4	C@CPFREC	CPool free recovery rtn
1392	(570)	ADDRESS	4	C@CPGET	CPool get entry point
1396	(574)	ADDRESS	4	C#CPGET	CPool get PC number
1400	(578)	ADDRESS	4	C@CPGREC	CPool get recovery rtn
1404	(57C)	ADDRESS	4	C@CPINIT	CPool initialization
1408	(580)	ADDRESS	4	C@CPMODIFY	CPool modify entry point
1412	(584)	ADDRESS	4	C#CPMODIFY	CPool modify PC number
1416	(588)	ADDRESS	4	C@CPMREC	CPool modify recovery rtn
1420	(58C)	ADDRESS	4	C@CPQCELL	CPool query cell entry pt
1424	(590)	ADDRESS	4	C#CPQCELL	CPool query call PC number
1428	(594)	ADDRESS	4	C@CPQCREC	CPool query cell recovery
1432	(598)	ADDRESS	4	C@CPQEXT	CPool query extent entry pt
1436	(59C)	ADDRESS	4	C#CPQEXT	CPool query extent PC numb
1440	(5A0)	ADDRESS	4	C@CPQXREC	CPool query extent recovery

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1444	(5A4)	ADDRESS	4	C@CPQPOOL	CPool query pool entry pt
1448	(5A8)	ADDRESS	4	C#CPQPOOL	CPool query pool PC number
1452	(5AC)	ADDRESS	4	C@CPQPREC	CPool query pool recovery
1456	(5B0)	ADDRESS	4	C@CPTERM	CPool termination
1460	(5B4)	ADDRESS	4	CADDR@CPLTABS	CPool table of JES2 pools, not for \$CALL, data only
MODULE HASCQUEU ROUTINES LISTED ALPHABETICALLY					
1464	(5B8)	ADDRESS	4	K@AVLINST	AVL tree - insert
1468	(5BC)	ADDRESS	4	K@AVLTRVS	AVL tree traversal
1472	(5C0)	ADDRESS	4	K@AVLDELET	AVL tree - delete
MODULE HASCRCQUE ROUTINES LISTED ALPHABETICALLY					
1476	(5C4)	ADDRESS	4	C@\$RQUEACT	Activate service
1480	(5C8)	ADDRESS	4	C@\$RQUECMP	Wait for completion
1484	(5CC)	ADDRESS	4	C@\$RQUEDEA	Deactivate service
1488	(5D0)	ADDRESS	4	C@\$RQUEDEQ	Dequeue MTRB service
1492	(5D4)	ADDRESS	4	C@\$RQUEEXE	Execute request
1496	(5D8)	ADDRESS	4	C@\$RQUEGET	Get request
1500	(5DC)	ADDRESS	4	C@\$RQUERET	Return request
Module HASCSAPI Routines listed alphabetically					
1504	(5E0)	ADDRESS	4	C@CSPEOX	Scan SAPIDs for terminating TCB or memory
Module HASCSCAN Routines listed alphabetically					
1508	(5E4)	ADDRESS	4	C@\$SCAN	\$SCAN main routine
1512	(5E8)	ADDRESS	4	C@\$SCANB	\$SCANB service routine
1516	(5EC)	ADDRESS	4	C@\$SCANCOM	\$SCANCOM service routine
1520	(5F0)	ADDRESS	4	C@\$SCAND	\$SCAN Main routine
1524	(5F4)	ADDRESS	4	C@BACKRETN	BACKRETN Service Routine
1528	(5F8)	ADDRESS	4	C@PREDDNAME	PRESCAN to display keyword
1532	(5FC)	ADDRESS	4	C@PREFILT	Prescan to apply filters
1536	(600)	ADDRESS	4	C@RESTORE	RESTORE Service Routine
1540	(604)	ADDRESS	4	C@SCANDIAG	\$SCANDIA Service routine
1544	(608)	ADDRESS	4	C@SCNDBRNG	RESTORE Service Routine
1548	(60C)	ADDRESS	4	CADDR@SCNDIAGT	Diagnostic message table
1552	(610)	ADDRESS	4	C@SCNDGRTN	RESTORE Service Routine
1556	(614)	ADDRESS	4	C@SCNDVVAL	RESTORE Service Routine
MODULE HASCSIJR ROUTINES LISTED ALPHABETICALLY					
1560	(618)	ADDRESS	4	C@DATASERV	JOB INFORMATION SERVICE
1564	(61C)	ADDRESS	4	C@REFRDSRV	Refresh non-CKPT data
Module HASCSIJR routines listed alphabetically					
1568	(620)	ADDRESS	4	K@JPXIBLD	Build JESplex info array subroutine

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1572	(624)	ADDRESS	4	C@PRIPRINI	Initiator processing entry
1576	(628)	ADDRESS	4	C@PRITORD	Initiator data SSI
1580	(62C)	ADDRESS	4	C@PRJPCKP	CKPT information SSI
1584	(630)	ADDRESS	4	C@PRJPCLS	Job class data SSI
1588	(634)	ADDRESS	4	C@PRJPLEX	JESplex data SSI
1592	(638)	ADDRESS	4	C@PRJPNJN	NJE node SSI
1596	(63C)	ADDRESS	4	C@PRJPRGP	RESGROUP information SSI
1600	(640)	ADDRESS	4	C@PRJPLCY	Policy information SSI
1604	(644)	ADDRESS	4	C@PRJPROC	PROCLIB data SSI
1608	(648)	ADDRESS	4	C@PRJPSPL	Spool data SSI
1612	(64C)	ADDRESS	4	K@PRSMIGD	Spool data SSI - Migration data subroutine
MODULE HASCSIRQ ROUTINES LISTED ALPHABETICALLY					
1616	(650)	ADDRESS	4	C@\$DESTCHK	AUTHORIZE TRANSMIT TO DEST
1620	(654)	ADDRESS	4	C@\$NOTIFY	Send notify message
1624	(658)	ADDRESS	4	K@MCSFLUSH	MCS flush routine
1628	(65C)	ADDRESS	4	C@TSCNVJB	CONVERT EXT JOB ID TO JOB NUM
1632	(660)	ADDRESS	4	K@USERDEST	VERIFY DESTINATION
1636	(664)	ADDRESS	4	C@USERSUB	USER/SUBTASK EXIT EFFECTOR
1640	(668)	ADDRESS	4	C@USRNEWND	Assign new node to dest
1644	(66C)	ADDRESS	4	C@WTALOGQ	Flush S35D Joblog queue
1648	(670)	ADDRESS	4	C@WTASRBQI	Schedule JOBLOG SRB immed
Module HASCSISC routines listed alphabetically					
1652	(674)	ADDRESS	4	K@CNVDEVID	Convert DEVID to EBCDIC
1656	(678)	ADDRESS	4	K@CRJOES	Create JOEs from PDDb
1660	(67C)	ADDRESS	4	C@CVDEVID	Process device ID to name conversion
1664	(680)	ADDRESS	4	K@ESWFREE	Free ESWORK area
1668	(684)	ADDRESS	4	K@MODJXACK	MODJOB ACK rsp msg exit rtn
1672	(688)	ADDRESS	4	C@PRJBCLD	Process job class info
1676	(68C)	ADDRESS	4	C@PRLIMIT	Process LIMITS data req
1680	(690)	ADDRESS	4	C@PRSPLIO	Process spool I/O info
Module HASCSJFA Routines Listed Alphabetically					
1684	(694)	ADDRESS	4	C@HSJFACC	MVS SJFACC Routine
Module HASCSJFS Routines Listed Alphabetically					
1688	(698)	ADDRESS	4	C@HASJFREQ	SJFREQ Service Routine
1692	(69C)	ADDRESS	4	C@HASJIDST	IPADDR/DEST Process - CSJFS
1696	(6A0)	ADDRESS	4	C@SFLOPDDb	Locate PDDb using CTOKEN
1700	(6A4)	ADDRESS	4	C@SJFSWBRD	SWB Read Service Routine
1704	(6A8)	ADDRESS	4	C@SWBTUMRG	SWB Merge Service Routine
1708	(6AC)	ADDRESS	4	C@TUXTRACT	TU extraction - HASCSJFS
Module HASCSRAX routines listed alphabetically					

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1712	(6B0)	ADDRESS	4	C@GETJ2AUX	Access aux address space
1716	(6B4)	ADDRESS	4	C@DELJ2AUX	Delete aux address space
1720	(6B8)	ADDRESS	4	K@SNQCKPT	Refresh CKPT entries in SNQ
1724	(6BC)	ADDRESS	4	K@SNQSNIN	Do SNQ processing for init
1728	(6C0)	ADDRESS	4	K@SNQSREQ	Send SYS DS ENQ request
1732	(6C4)	ADDRESS	4	C@SRXEMSG	Issue error message for JES2AUX subtasks
1736	(6C8)	ADDRESS	4	C@SRXIAR64	IARV64 JES2AUX services
1740	(6CC)	SIGNED	4	C#SRXIAR64	IARV64 JES2AUX serv PC #
1744	(6D0)	ADDRESS	4	C@SRXARR64	ARR for SRXIAR64 routine
1748	(6D4)	ADDRESS	4	K@ZGLMSG	Log message for a jobgroup
Module HASCSRCI routines listed alphabetically					
1752	(6D8)	ADDRESS	4	C@CMNFCICB	Free CICB data area
1756	(6DC)	ADDRESS	4	C@CMNINIT	JES2 C/I address space init
1760	(6E0)	ADDRESS	4	C@CMNPPROC	Mange C/I addrspac PROCLIBs
1764	(6E4)	ADDRESS	4	C@CMNPSTBT	Mange JES2 C/I subtask
1768	(6E8)	ADDRESS	4	C@DELJ2CI	Delete C/I subtask/AS
1772	(6EC)	ADDRESS	4	C@GETJ2CI	Create C/I subtask/AS
1776	(6F0)	ADDRESS	4	C@J2CIREC	JES2 C/I main task recovery
MODULE HASCSRDS ROUTINES LISTED ALPHABETICALLY					
1780	(6F4)	ADDRESS	4	C@\$CBIO	Control block I/O routine addr
1784	(6F8)	ADDRESS	4	C@\$FNDRIOT	FIND REUSEABLE SPIN IOT
1788	(6FC)	ADDRESS	4	C@\$IOTBLD	BUILD AN IOT ROUTINE
1792	(700)	ADDRESS	4	C@\$PDBFIND	FIND A PDB ROUTINE
1796	(704)	ADDRESS	4	C@\$PDBNEXT	Find next PDB same key
1800	(708)	ADDRESS	4	C@\$SDBCHEK	Verify a SDB/DCT routine
1804	(70C)	ADDRESS	4	C@\$SDBFREE	FREE AN SDB
1808	(710)	ADDRESS	4	C@\$SDBINIT	INITIALIZE AN SDB
1812	(714)	ADDRESS	4	C@\$VERIFY	\$VERIFY SERVICE ROUTINE ADDRESS
1816	(718)	ADDRESS	4	C@ASOKADD	Add ASOK for SDB
1820	(71C)	ADDRESS	4	C@ASOKDEL	Delete ASOK for SDB
1824	(720)	ADDRESS	4	C@ASOKGC	Garbage collect ASOKs
1828	(724)	ADDRESS	4	C@DSNCMP	SYSIN/SYSOUT DATASET COMPRESS
1832	(728)	ADDRESS	4	C@DSNVFY	SYSIN/SYSOUT DATASET VERIFY
1836	(72C)	ADDRESS	4	C@DSNMSRV	SYSIN/SYSOUT Dataset Name service
1840	(730)	ADDRESS	4	C@ENF58BLD	Build ENF58 parm lists
1844	(734)	ADDRESS	4	C@HALCLASS	CHECK SYSOUT CLASS FOR HOLD RTN
1848	(738)	ADDRESS	4	C@HALUPCAT	Update data set catalog
1852	(73C)	ADDRESS	4	CADDR@HASPVTAB	\$VERIFY control block table
1856	(740)	ADDRESS	4	C@HCBCK	CHECKPOINT HASP CONTROL BLOCKS
1860	(744)	ADDRESS	4	C@HCBFM	FREEMAIN CONTROL BLOCK STORAGE
1864	(748)	ADDRESS	4	C@HCBGM	GETMAIN CONTROL BLOCK STORAGE
1868	(74C)	ADDRESS	4	C@HFCLSUB	FAKE CLOSE DATASETS
1872	(750)	ADDRESS	4	C@HFCLTRNC	TRUNCATE A BUFFER ROUTINE

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1876	(754)	ADDRESS	4	C@HJSRETAB	REBUILD SDB TAB
1880	(758)	ADDRESS	4	C@HONWOUT	OPEN NEW OUTPUT DATASET RTN
1884	(75C)	ADDRESS	4	C@HOOLDINP	OPEN OLD INPUT DATASET RTN
1888	(760)	ADDRESS	4	C@HOOLDOUT	OPEN OLD OUTPUT DATASET RTN
1892	(764)	ADDRESS	4	C@JSMTSRV	Job symbol table service
1896	(768)	ADDRESS	4	C@MQTRVAL	Validate MQTR routine
1900	(76C)	ADDRESS	4	C@MQTROVAL	Validate MQTR (R = 0 OK)
1904	(770)	ADDRESS	4	C@MTTRVAL	VALIDATE MTTR ROUTINE
1908	(774)	ADDRESS	4	C@MTTROVAL	Validate MTTR (R = 0 OK)
1912	(778)	ADDRESS	4	C@OLDJOE	Old JOE
1916	(77C)	ADDRESS	4	C@PDDBUPT	Update PDDB
1920	(780)	ADDRESS	4	C@PRIMEIOT	RTN Primary alloc IOT info
1924	(784)	ADDRESS	4	C@SIGIOU	Signature Rcd I/O Routine
1928	(788)	ADDRESS	4	C@SYMTT	Generate SIGIO SYMREC rtn
1932	(78C)	ADDRESS	4	C@SYSOVFY	SYSOUT validation routine
1936	(790)	ADDRESS	4	C@USENF58	User environment ENF58 rtn
MODULE HASCSRIC ROUTINES LISTED ALPHABETICALLY					
1940	(794)	ADDRESS	4	C@\$POST	POST HASP TASK
1944	(798)	ADDRESS	4	K@\$BITMAP	\$BITMAP service
1948	(79C)	ADDRESS	4	C@\$CLEANUP	Oper=cleanup - get/put obj
1952	(7A0)	ADDRESS	4	C@\$MGENCRY	Setup encryption environ
1956	(7A4)	ADDRESS	4	C@\$MGIOMSG	SEND MIGRATION MESSAGE FOR BUFFER MAIN TASK I/O.
1960	(7A8)	ADDRESS	4	C@\$MGIOSJM	SEND MIGRATION MESSAGE FOR SJIOB MAIN TASK I/O.
1964	(7AC)	ADDRESS	4	C@\$MGUNALO	Take down encrypt environ
1968	(7B0)	ADDRESS	4	C@\$RACROUT	ISSUE SAF CALL
1972	(7B4)	ADDRESS	4	C@\$STRAK	ALLOCATE TRACK ADDRESS
1976	(7B8)	ADDRESS	4	C@\$SVJLOK	GET JOB COM QUEUES LOCK RTN
1980	(7BC)	ADDRESS	4	C@\$SVJLOK2	Secondary locking routine
1984	(7C0)	ADDRESS	4	C@\$SVJTEST	TEST FOR JCQ LOCK OWNERSHIP
1988	(7C4)	ADDRESS	4	C@\$SVJUNLK	RELEASE JOB COM QUEUES LOCK RTN
1992	(7C8)	ADDRESS	4	C@\$TRACER	EVENT TRACE FACILITY
1996	(7CC)	ADDRESS	4	C@\$TRAREL	\$TRACE RELEASE ENTRY POINT
2000	(7D0)	ADDRESS	4	C@\$TRCFILT	\$TRACE filter routine
2004	(7D4)	ADDRESS	4	C@\$VFLI	SIMULATE VFL INSTRUCTION
2008	(7D8)	ADDRESS	4	C@\$XMPOST	CROSS MEMORY POST ROUTINE
2012	(7DC)	ADDRESS	4	C@\$XMPOSTX	Extended cross memory post
2016	(7E0)	ADDRESS	4	C@BERTREAD	CSA \$DOGBERT Fetch support
2020	(7E4)	ADDRESS	4	C@BRTCOUNT	BERT count service
2024	(7E8)	ADDRESS	4	C@BRTIECNT	BERTIE count service
2028	(7EC)	ADDRESS	4	C@CATBFREE	Free unused \$CATBERT
2032	(7F0)	ADDRESS	4	K@CATREAD	CSA \$DOGCAT Fetch support
2036	(7F4)	ADDRESS	4	C@CATTREE	CAT tree support
2040	(7F8)	ADDRESS	4	C@CKPTGDAT	Get checkpoint data

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2044	(7FC)	ADDRESS	4	C@CMSFLOK	Free CMS/LOCAL lock
2048	(800)	ADDRESS	4	C@CMSGLOK	Get CMS/LOCAL lock
2052	(804)	ADDRESS	4	K@DJBREAD	CSA \$DOGDJB Fetch support
2056	(808)	ADDRESS	4	C@DOMCHECK	Seclabel Dominance check
2060	(80C)	ADDRESS	4	C@FIFOBK	FIFO Block/Release
2064	(810)	ADDRESS	4	C@FIFOEQ	Remove elmnt from FIFO que
2068	(814)	ADDRESS	4	C@FIFOENQ	Place element on FIFO queue
2072	(818)	ADDRESS	4	C@FIFOQTQ	Dechain entire FIFO queue
2076	(81C)	ADDRESS	4	K@FIFOBK8	FIFO Block/Release
2080	(820)	ADDRESS	4	C@FIFOEQ8	Remove elmnt from FIFO que
2084	(824)	ADDRESS	4	C@FIFOENQ8	Place element on FIFO queue
2088	(828)	ADDRESS	4	C@FIFOQTQ8	Dechain entire FIFO queue
2092	(82C)	ADDRESS	4	K@GOFDSERV	GET/FREE DSERV addr
2096	(830)	ADDRESS	4	C@GRPASGN	ASSIGN GROUPING TOKEN
2100	(834)	ADDRESS	4	C@HCNVTIME	USED BY C/T FOR A TOD CONVERSION ROUTINE IN HASCSRIC
2104	(838)	ADDRESS	4	C@HKYMERGE	MERGE OUTPUT JCL KEYWORDS RTN
2108	(83C)	ADDRESS	4	C@HOSWB	GET SWB ERROR ROUTINE
2112	(840)	ADDRESS	4	C@HSJFLSP	FREE SJF STORAGE ROUTINE
2116	(844)	ADDRESS	4	K@JOEREAD	CSA \$DOGJOE Fetch support
2120	(848)	ADDRESS	4	K@JQEREAD	CSA \$DOGJQE Fetch support
2124	(84C)	ADDRESS	4	C@JSONSERV	JSON parsing services
2128	(850)	ADDRESS	4	C@PPSOSJB	PURGE PSO FROM SJB ROUTINE
2132	(854)	ADDRESS	4	C@PREWTO	WTO PREPROCESSING ROUTINE
2136	(858)	ADDRESS	4	C@PRTAUTH	JESNEWS & SYSOUT DATA SET AUTHORIZATION
2140	(85C)	ADDRESS	4	C@PSQUEUE	PSO QUEUE ROUTINE
2144	(860)	ADDRESS	4	C@RECABORT	PSO,STATUS,CANCEL recovery
2148	(864)	ADDRESS	4	C@RRWTORTN	Issue chain of WTO msgs
2152	(868)	ADDRESS	4	C@SECLEXTR	SECLABEL extract affinity
2156	(86C)	ADDRESS	4	C@SSVXDEF	EXIT DEFINITION ROUTINE
2160	(870)	ADDRESS	4	C@TBADTGBQ	Queue bad TGB to HASPSPOL
2164	(874)	ADDRESS	4	C@TOKENSR	TOKEN retrieve service
2168	(878)	ADDRESS	4	C@TRKCELL	Track Cell allocation
2172	(87C)	ADDRESS	4	C#TRKCELL	Track Cell allocation PC #
2176	(880)	ADDRESS	4	C@TRKCELLA	Track Cell allocation ARR
2180	(884)	ADDRESS	4	C@TSETLOCK	GET LOCAL AND CMS LOCKS ROUTINE
2184	(888)	ADDRESS	4	C@TSFRELOK	FREE LOCAL AND CMS LOCKS RTN
2188	(88C)	ADDRESS	4	K@WSCREAD	CSA \$WSCJQE Fetch support
2192	(890)	ADDRESS	4	C@XBFPITCH	JESXCF directed PROTSRB
2196	(894)	ADDRESS	4	C@XCFXMBN	Build JESXCF member name for XSYS data rtv group
2200	(898)	ADDRESS	4	C@XMXSRB	Extended post SRB routine
2204	(89C)	ADDRESS	4	C@XMXRMTR	Extended post RMTR routine
2208	(8A0)	ADDRESS	4	C@XSYSINIT	Init cross system interface for data retrieval

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2212	(8A4)	ADDRESS	4	C@XSYSTEM	Term cross system interface for data retrieval
Module HASCS RIP Routines Listed Alphabetically					
2216	(8A8)	ADDRESS	4	C@\$LOGMSG	JOBLOG/SYSMSGs access rtn
2220	(8AC)	ADDRESS	4	C@CDEFJRJW	Defer a JRW.
2224	(8B0)	ADDRESS	4	C@CEXIVUC	Validate UCOR char (SRIP)
2228	(8B4)	ADDRESS	4	C@CJOBKILL	Abort job
2232	(8B8)	ADDRESS	4	C@CJOBEND	Job end processing
2236	(8BC)	ADDRESS	4	C@CMULJEND	Job end processing
2240	(8C0)	ADDRESS	4	C@CMULJKIL	Abort job
2244	(8C4)	ADDRESS	4	C@ENCRYPTV	Encryption validation
2248	(8C8)	ADDRESS	4	C@HASPRCCS	Control Card (JECL) scan
2252	(8CC)	ADDRESS	4	C@HASPRDDS	Dataset services
2256	(8D0)	ADDRESS	4	C@HASPRSCN	Accounting field scan rtn
2260	(8D4)	ADDRESS	4	C@JOBCLASV	Job class validation
2264	(8D8)	ADDRESS	4	C@JOBCLVAL	Job class - subtask
2268	(8DC)	ADDRESS	4	C@JOBIPCY	Apply input phase policies
2272	(8E0)	ADDRESS	4	C@JOBVALM	Job validation
2276	(8E4)	ADDRESS	4	C@RACCTSET	Parse ACCT field for SAF
2280	(8E8)	ADDRESS	4	C@RANLZCRD	Analyze New Card Image
2284	(8EC)	ADDRESS	4	C@RCARDSCN	Scan keywords on JCL/JECL
2288	(8F0)	ADDRESS	4	C@RDELEGRP	Delete JOBGROUP - init JRW
2292	(8F4)	ADDRESS	4	C@RDELNETA	Delete area - / NET
2296	(8F8)	ADDRESS	4	C@RDELRJCB	Delete all queued RJCBs
2300	(8FC)	ADDRESS	4	C@RDELWTO	Job deleted WTO
2304	(900)	ADDRESS	4	C@REFRJRJW	Refresh JRW
2308	(904)	ADDRESS	4	C@RESTINFO	Scan keywords on JCL/JECL
2312	(908)	ADDRESS	4	C@REXTENMG	Extend msgs with FROM info
2316	(90C)	ADDRESS	4	C@RFRDEJRJW	Free one/all deferred JRWs.
2320	(910)	ADDRESS	4	C@RFRERJCB	Free one/all RJCBs
2324	(914)	ADDRESS	4	C@RGETNETA	Get area - / NET processing
2328	(918)	ADDRESS	4	C@RGETRJCB	Get an RJCB
2332	(91C)	ADDRESS	4	C@RGETSPOF	Get SPOF section
2336	(920)	ADDRESS	4	C@RGTDJRJW	Get a deferred JRW.
2340	(924)	ADDRESS	4	C@RINITGRP	Init JOBGROUP and get ZOD
2344	(928)	ADDRESS	4	C@RJOBDEF	Set JQE/JCT defaults
2348	(92C)	ADDRESS	4	C@RJOBONMG	Issue ON READER message
2352	(930)	ADDRESS	4	C@RMSGQUE	Queue message to be issued
2356	(934)	ADDRESS	4	C@RNJCOMSG	NJE skipping message
2360	(938)	ADDRESS	4	C@RNJEONMG	NJE S&F ON READER message
2364	(93C)	ADDRESS	4	C@RPDBBLD	Create system PDBs
2368	(940)	ADDRESS	4	C@RPDBINIT	Complete system PDBs
2372	(944)	ADDRESS	4	C@RPDBSEC	System PDB init routine
2376	(948)	ADDRESS	4	C@RPROCGRP	Process JOBGROUP JCL stmts
2380	(94C)	ADDRESS	4	C@RPROCJCL	Process JCL statement

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2384	(950)	ADDRESS	4	C@RPRCRCSS	Process RCCS header
2388	(954)	ADDRESS	4	C@RPSTCXIT	Post exits 2,4,52,54 proc
2392	(958)	ADDRESS	4	C@RPSWSCAN	Scan RJCBS for passwords
2396	(95C)	ADDRESS	4	C@RPUTSCAN	Stip PASSWORDs at PUT
MODULE HASCSRJB ROUTINES LISTED ALPHABETICALLY					
2400	(960)	ADDRESS	4	C@\$DSELINT	Initialize a data info
2404	(964)	ADDRESS	4	K@\$JBIDBLD	JOB ID BUILD ROUTINE
2408	(968)	ADDRESS	4	K@\$JCORBLD	Job Correlator build rtn
2412	(96C)	ADDRESS	4	C@\$JCTINIT	Initialize a JCT
2416	(970)	ADDRESS	4	C@JNFYPROC	Process job NOTIFY data
2420	(974)	ADDRESS	4	C@\$JQESERV	JQE Request service
2424	(978)	ADDRESS	4	C@M165BLD	Build HASP165 message
2428	(97C)	ADDRESS	4	K@\$QLOCC	Locate JQE for a job #
2432	(980)	ADDRESS	4	C@\$SJBFINDD	FIND AN SJB
2436	(984)	ADDRESS	4	C@\$SJBLOCK	LOCK AN SJB
2440	(988)	ADDRESS	4	C@\$SJBREQ	REQUEUE AN SJB
2444	(98C)	ADDRESS	4	C@\$SJBUNLK	UNLOCK AN SJB
2448	(990)	ADDRESS	4	K@ARTEADD	ART Table add history entry
2452	(994)	ADDRESS	4	K@ARTERAT	Consumption rate calc
2456	(998)	ADDRESS	4	C@AUDSAF	Audit job removal
2460	(99C)	ADDRESS	4	C@ENF70BLD	Build ENF 70 parm lists
2464	(9A0)	ADDRESS	4	C@ENF78BLD	Build ENF 78 parm lists
2468	(9A4)	ADDRESS	4	C@FREEJCT	Free JCT and related stor
2472	(9A8)	ADDRESS	4	C@HETSOUT	SAVES STATUS ON INTERRUPT
2476	(9AC)	ADDRESS	4	C@JLMACTM	Rsrc limit action message
2480	(9B0)	ADDRESS	4	C@JLMWAIT	Rsrc limit wait (with msg)
2484	(9B4)	ADDRESS	4	C@JLMWARN	Rsrc limit warning message
2488	(9B8)	ADDRESS	4	C@JPFSTAT	Job performance statistics
2492	(9BC)	ADDRESS	4	C@RGLACTM	Resource group limit action message
2496	(9C0)	ADDRESS	4	C@RGLWAIT	Resource group limit wait (with msg)
2500	(9C4)	ADDRESS	4	C@RGRFIND	Resolve rsrc group name
2504	(9C8)	ADDRESS	4	C@RJNFYURL	Request job notify msg
2508	(9CC)	ADDRESS	4	C@SJBFREE	FREE AN SJB
2512	(9D0)	ADDRESS	4	C@SJBINIT	CREATE AN SJB
2516	(9D4)	ADDRESS	4	K@SJIOBINT	SJIOB initialization
2520	(9D8)	ADDRESS	4	C@STEALOCK	Steal SJB/SDB lock
2524	(9DC)	ADDRESS	4	C@USENF70	Issue ENF 70
Module HASCSRJH routines listed alphabetically					
2528	(9E0)	ADDRESS	4	C@DATAREPC	Data repository service
2532	(9E4)	ADDRESS	4	C@JHISTEXP	Expand job history CB
2536	(9E8)	ADDRESS	4	C@JHISTRET	JES history RETRIEVE_LOCAL
2540	(9EC)	ADDRESS	4	C@JHISTSRV	JES history service

Table 37. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Module HASCSRJM routines listed alphabetically					
2544	(9F0)	ADDRESS	4	C@GETJ2MON	Access monitor addr space
2548	(9F4)	ADDRESS	4	C@DELJ2MON	Delete monitor addr space
2552	(9F8)	ADDRESS	4	C@MONSSIRQ	Monitor SSI request service
Module HASCUBSR routines listed alphabetically					
2556	(9FC)	ADDRESS	4	C@UBSRB	Unwritten buffer SRB rtn
Module HASCXJCT routines listed alphabetically					
2560	(A00)	ADDRESS	4	C@\$JCTXADD	Add \$JCT extension
2564	(A04)	ADDRESS	4	C@\$JCTXEXP	Expand \$JCT extension
2568	(A08)	ADDRESS	4	C@\$JCTXGET	Locate \$JCT extension
2572	(A0C)	ADDRESS	4	C@\$JCTXREM	Delete \$JCT extension
MVS entry points listed alphabetically					
2576	(A10)	ADDRESS	4	C@CSRC4ACT	MVS CP00L Activate extent
2580	(A14)	ADDRESS	4	C@CSRC4BLD	MVS CP00L Build routine
2584	(A18)	ADDRESS	4	C@CSRC4CON	MVS CP00L Connect storage
2588	(A1C)	ADDRESS	4	C@CSRC4DAC	MVS CP00L Deactivate extent
2592	(A20)	ADDRESS	4	C@CSRC4DIS	MVS CP00L Disconn storage
2596	(A24)	ADDRESS	4	C@CSRC4EXP	MVS CP00L Expand routine
2600	(A28)	ADDRESS	4	C@CSRC4QCL	MVS CP00L Query cell rtn
2604	(A2C)	ADDRESS	4	C@CSRC4QEX	MVS CP00L Query extent rtn
2608	(A30)	ADDRESS	4	C@CSRC4QPL	MVS CP00L Query pool rtn
2612	(A34)	ADDRESS	4	C@CSRC4RFR	MVS CP00L Free routine
2616	(A38)	ADDRESS	4	C@CSRC4RGT	MVS CP00L Get routine
2620	(A3C)	ADDRESS	4	C@IEANTCR	MVS NAME/TOKEN Create rtn
2624	(A40)	ADDRESS	4	C@IEANTDL	MVS NAME/TOKEN Delete rtn
2628	(A44)	ADDRESS	4	C@IEANTRT	MVS NAME/TOKEN Retrieve rtn
2632	(A48)	ADDRESS	4	C@IEAVM703	MVS message extract routine
2636	(A4C)	ADDRESS	4	C@IEAVH709	MVS MCS flush routine
2640	(A50)	ADDRESS	4	C@ASASYMBF	System Symbol Substitute Service (quick path)
RESERVED FOR FUTURE USE FIELDS--(LAST ENTRIES IN CADDR)					
2644	(A54)	ADDRESS	4	CADDREQE(0)	End of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
2644	(A54)	ADDRESS	4	(8)	Reserved for maintenance
The following contains the entry points for routines which may or may not be present. When adding entry points above, use one of the above reserved fields to avoid requiring an assembly of modules using the entry points below.					
2676	(A74)	ADDRESS	4	C@CSNEKRR2	MVS encipher/decipher rout
2676	(A74)	X'A78'	0	CADDRLEN	"*-CADDR" LENGTH OF THE CADDR TABLE

Table 38. Cross Reference for \$CADDR

Name	Offset	Hex Tag
C#\$SSIAUTH	2AC	
C#ALCSSTB	488	
C#CPBUILD	538	
C#CPCONTRA	544	
C#CPDELETE	550	
C#CPEXPAND	55C	
C#CPFREE	568	
C#CPGET	574	
C#CPMODIFY	584	
C#CPQCELL	590	
C#CPQEXT	59C	
C#CPQPPOOL	5A8	
C#HGETSPEC	1C4	
C#HINTRDR	4B8	
C#HIOCHECK	4C4	
C#LOGISST	4DC	
C#NJEXISIN	368	
C#NJEXISOT	370	
C#NJEXOSIN	378	
C#NJEXOSOT	380	
C#NJEXSTNM	38C	
C#NJEXSTRQ	394	
C#NJEXTRAC	3A0	
C#PROTENDR	4EC	
C#PROTGET	4F8	
C#PROTPNT	510	
C#PROTPUT	504	
C#PROTSRB	51C	
C#SRXIAR64	6CC	
C#TRKCELL	87C	
C@\$POST	794	
C@\$ALESERV	C8	
C@\$ALLDAU	5C	
C@\$CBIO	6F4	
C@\$CGETABL	264	
C@\$CLEANUP	79C	
C@\$CRETANY	268	
C@\$CRETRN	26C	
C@\$CSAVANY	270	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@\$CSAVE	274	
C@\$CSUBIT	3AC	
C@\$DESTCHK	650	
C@\$DSCTBLD	64	
C@\$DSELINT	960	
C@\$DYNLPA	278	
C@\$ECBEXIT	27C	
C@\$ECBPOST	280	
C@\$FBUFRTN	284	
C@\$FNDRIOT	6F8	
C@\$FRECEL	288	
C@\$FRETBUF	2F0	
C@\$GASSIGN	1A0	
C@\$GETCEL	28C	
C@\$GETTBUF	2F4	
C@\$GKGET	194	
C@\$GKINIT	198	
C@\$GKTERM	19C	
C@\$GSINIT	1A4	
C@\$GSTERM	1A8	
C@\$HGFMMAIN	294	
C@\$IOTBLD	6FC	
C@\$JCTINIT	96C	
C@\$JCTXADD	A00	
C@\$JCTXEXP	A04	
C@\$JCTXGET	A08	
C@\$JCTXREM	A0C	
C@\$JQESERV	974	
C@\$LOGMSG	8A8	
C@\$MGENCRY	7A0	
C@\$MGIOMSG	7A4	
C@\$MGIOSJM	7A8	
C@\$MGUNALO	7AC	
C@\$MLTFBUF	29C	
C@\$MSDDUMP	2A4	
C@\$MSGDISR	18	
C@\$MSGSCAN	1C	
C@\$NOTIFY	654	
C@\$NSSTLOK	2F8	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@\$PDBBLD	68	
C@\$PDBDEFS	6C	
C@\$PDBFIND	700	
C@\$PDBNEXT	704	
C@\$RACROUT	7B0	
C@\$REPLY	20	
C@\$RQUEACT	5C4	
C@\$RQUECMP	5C8	
C@\$RQUEDEA	5CC	
C@\$RQUEDEQ	5D0	
C@\$RQUEEXE	5D4	
C@\$RQUEGET	5D8	
C@\$RQUERET	5DC	
C@\$SCAN	5E4	
C@\$SCANB	5E8	
C@\$SCANCOM	5EC	
C@\$SCAND	5F0	
C@\$SDBCHEK	708	
C@\$SDBFREE	70C	
C@\$SDBINIT	710	
C@\$SJBFIND	980	
C@\$SJBLOCK	984	
C@\$SJBRQ	988	
C@\$SJBUNLK	98C	
C@\$SSIAUTH	2A8	
C@\$SSIBEGN	2B0	
C@\$SSIEND	2B4	
C@\$STRAK	7B4	
C@\$SVJLOK	7B8	
C@\$SVJLOK2	7BC	
C@\$SVJTEST	7C0	
C@\$SVJUNLK	7C4	
C@\$SYMREC	2B8	
C@\$TRACER	7C8	
C@\$TRAREL	7CC	
C@\$TRCFILT	7D0	
C@\$UALDAU	60	
C@\$UCBINDX	248	
C@\$VERIFY	714	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@\$VFLI	7D4	
C@\$XMPOST	7D8	
C@\$XMPOSTX	7DC	
C@ABEND722	480	
C@ABNDADJ	2BC	
C@ABNSKIP	2C0	
C@ALCSBRY	48C	
C@ALCSSTB	484	
C@ARME0J	14	
C@ASASYMBF	A50	
C@ASOKADD	718	
C@ASOKDEL	71C	
C@ASOKGC	720	
C@AUDSAF	998	
C@BACKRETN	5F4	
C@BERTREAD	7E0	
C@BLDSYSDS	214	
C@BRTCOUNT	7E4	
C@BRTIECNT	7E8	
C@CALLCI	2C	
C@CATBFREE	7EC	
C@CATTREE	7F4	
C@CBOOKMRK	1D0	
C@CCLSSYSI	1D4	
C@CDEFJRJRW	8AC	
C@CEXITACT	1D8	
C@CEXITCRD	1DC	
C@CEXIVUC	8B0	
C@CINITJRW	1E0	
C@CIOTCLN	1E4	
C@CIRDRPUT	1E8	
C@CJOBADD	1EC	
C@CJOBBLD	1F0	
C@CJOBEND	8B8	
C@CJOBKILL	8B4	
C@CJOBVFY	1F4	
C@CKPTGDAT	7F8	
C@CLEANBAT	24C	
C@CLEANJRW	1F8	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@CMNFCICB	6D8	
C@CMNINIT	6DC	
C@CMNPPROC	6E0	
C@CMNPSTBT	6E4	
C@CMSFLOK	7FC	
C@CMSGLOK	800	
C@CMULJEND	8BC	
C@CMULJKIL	8C0	
C@CNIN2OUT	490	
C@CNVCLNUP	30	
C@CNVSETUP	34	
C@COPNPROC	38	
C@CPBREC	53C	
C@CPBUILD	534	
C@CPCONTRA	540	
C@CPCREC	548	
C@CPDELETE	54C	
C@CPDREC	554	
C@CPEXPAND	558	
C@CPFREC	56C	
C@CPFREE	564	
C@CPGET	570	
C@CPGREC	578	
C@CPINIT	57C	
C@CPJAFF	8	
C@CPJCLINI	C	
C@CPJCLTRM	10	
C@CPMODIFY	580	
C@CPMREC	588	
C@CPQCELL	58C	
C@CPQCREC	594	
C@CPQEXT	598	
C@CPQP00L	5A4	
C@CPQPREC	5AC	
C@CPQXREC	5A0	
C@CPROCCRD	1FC	
C@CPTERM	5B0	
C@CPUT	200	
C@CPXREC	560	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@CSETVECT	204	
C@CSNEKRR2	A74	
C@CSPE0X	5E0	
C@CSPL0PN	208	
C@CSRC4ACT	A10	
C@CSRC4BLD	A14	
C@CSRC4CON	A18	
C@CSRC4DAC	A1C	
C@CSRC4DIS	A20	
C@CSRC4EXP	A24	
C@CSRC4QCL	A28	
C@CSRC4QEX	A2C	
C@CSRC4QPL	A30	
C@CSRC4RFR	A34	
C@CSRC4RGT	A38	
C@CVDEVID	67C	
C@CXMTRTNE	20C	
C@DATAREPC	9E0	
C@DATASERV	618	
C@DELJ2AUX	6B4	
C@DELJ2CI	6E8	
C@DELJ2MON	9F4	
C@DELJ2SRV	2FC	
C@DOMCHECK	808	
C@DSNCMP	724	
C@DSNMSRV	72C	
C@DSNVFY	728	
C@DSOPEN	A4	
C@DSPSERV	CC	
C@EDSCBCR	D0	
C@EDSCBDL	D4	
C@EDSCRT	D8	
C@EDSDLT	DC	
C@EDSKILL	E0	
C@ENCRYPTV	8C4	
C@ENFISSUE	F8	
C@ENF58BLD	730	
C@ENF70BLD	99C	
C@ENF78BLD	9A0	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@EOBLOB	250	
C@EOTFDCON	254	
C@EXTRTOD	3C	
C@FIFOBLK	80C	
C@FIFODEQ	810	
C@FIFODEQ8	820	
C@FIFOENQ	814	
C@FIFOENQ8	824	
C@FIFOGTQ	818	
C@FIFOGTQ8	828	
C@FINDLMOD	2D0	
C@FINDMOD	2C4	
C@FREEJCT	9A4	
C@FREPBLK	494	
C@FRESDBLK	498	
C@FRESDBL2	49C	
C@FRETRE	2C8	
C@FRIRWDLK	4A0	
C@GETJ2AUX	6B0	
C@GETJ2CI	6EC	
C@GETJ2MON	9F0	
C@GETJ2SRV	300	
C@GETPBLOK	4A4	
C@GETSDBLK	4A8	
C@GETSDBL2	4AC	
C@GETTRE	2CC	
C@GRPASGN	830	
C@GRPINIT	218	
C@GTCURTME	40	
C@GTIRWDLK	4B0	
C@GTUTCOIM	44	
C@HA\$CNJGP	3A4	
C@HA\$CNJRQ	3E4	
C@HALCLASS	734	
C@HALENCRY	70	
C@HALFDSNR	74	
C@HALOMERG	78	
C@HALOPDBI	7C	
C@HALR	80	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@HALRDCAT	84	
C@HALUNAL	88	
C@HALUPCAT	738	
C@HAMNULL	1B0	
C@HAMPSTER	1B4	
C@HASJFREQ	698	
C@HASJIDST	69C	
C@HASPAMI	1B8	
C@HASPNACT	33C	
C@HASPRCCS	8C8	
C@HASPRDDS	8CC	
C@HASPRSCN	8D0	
C@HBSRBLDL	98	
C@HCBCK	740	
C@HCBFM	744	
C@HCBGM	748	
C@HCNVTIME	834	
C@HETSOUT	9A8	
C@HFCLSUB	74C	
C@HFCLTRNC	750	
C@HFEXFSPC	A8	
C@HFEXJESL	AC	
C@HFEXSDET	B0	
C@HFEXSPIN	B4	
C@HFJDLIN	224	
C@HFJLOGTM	220	
C@HFJOBLOG	21C	
C@HFOPSUB	B8	
C@HGETCHN	1BC	
C@HGETSPEC	1C0	
C@HGETSREC	1C8	
C@HINTRDR	4B4	
C@HINTRREC	4BC	
C@HIOCHECK	4C0	
C@HIOCKRY	4C8	
C@HIOTSPIN	8C	
C@HJE000	228	
C@HJSMASL	22C	
C@HJSRETAB	754	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@HKYMERGE	838	
C@HMIGTRK	4CC	
C@HNDUPDTE	90	
C@HNOTIFY	94	
C@HOCSETUP	BC	
C@HONEWOUT	758	
C@HOOLDINP	75C	
C@HOOLDOUT	760	
C@HOSWB	83C	
C@HPUTFULL	4D0	
C@HSJFACC	694	
C@HSJFLSP	840	
C@HTRACSET	9C	
C@HWAITBUF	4D4	
C@IEANTCR	A3C	
C@IEANTDL	A40	
C@IEANTRT	A44	
C@IEAVH709	A4C	
C@IEAVM703	A48	
C@IRCLNUP	210	
C@JBFOUND	230	
C@JBSELECT	234	
C@JCISUB	48	
C@JESLOGC	A0	
C@JHISTEXP	9E4	
C@JHISTRET	9E8	
C@JHISTSRV	9EC	
C@JLMACTM	9AC	
C@JLMWAIT	9B0	
C@JLMWARN	9B4	
C@JNFYPROC	970	
C@JOBCLASV	8D4	
C@JOBCLVAL	8D8	
C@JOBIPCY	8DC	
C@JOBSTATS	238	
C@JOBVALM	8E0	
C@JPFSTAT	9B8	
C@JSMTSRV	764	
C@JSONSERV	84C	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@JSOPSSDS	23C	
C@JSREOPEN	240	
C@J2CIREC	6F0	
C@LOGISST	4D8	
C@LOGSTRY	4E0	
C@MBSCATTN	2D4	
C@MONSSIRQ	9F8	
C@MQTRVAL	768	
C@MQTR0VAL	76C	
C@MTTRVAL	770	
C@MTTR0VAL	774	
C@M165BLD	978	
C@NJEABSNP	3E0	
C@NJEFOpen	304	
C@NJEFREBF	308	
C@NJEHBLD	30C	
C@NJEHDADD	310	
C@NJEHDEXP	314	
C@NJEHDMAK	318	
C@NJEHDRDU	31C	
C@NJEHDREM	320	
C@NJEHDVAL	324	
C@NJEHDWRU	328	
C@NJEPORCV	32C	
C@NJEPRXMT	330	
C@NJETBLD	334	
C@NJETTRACE	338	
C@NJEXARR	348	
C@NJEXASEA	34C	
C@NJEXASIN	350	
C@NJEXASRQ	354	
C@NJEXASTM	358	
C@NJEXCREQ	35C	
C@NJEXIREC	360	
C@NJEXISIN	364	
C@NJEXISOT	36C	
C@NJEXOSIN	374	
C@NJEXOSOT	37C	
C@NJEXSTIN	384	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@NJEXSTNM	388	
C@NJEXSTRQ	390	
C@NJEXSTTM	398	
C@NJEXTRAC	39C	
C@NJGPRCOV	3A8	
C@NJJRJOBH	3B0	
C@NJJRMAIN	3B4	
C@NJJRTERM	3B8	
C@NJJTJOBH	3C4	
C@NJJTJOBT	3C8	
C@NJJTMAIN	3CC	
C@NJJTNTFY	3D0	
C@NJJTTERM	3D4	
C@NJMENCER	3D8	
C@NJOBWTO	3BC	
C@NJRQENQ	3EC	
C@NJRQRCOV	3E8	
C@NJSRPCY	3F0	
C@NJSRJOBH	3F4	
C@NJSRJOBT	3F8	
C@NJSRMAIN	3FC	
C@NJSRNCOD	410	
C@NJSRNTFY	400	
C@NJSROPTB	418	
C@NJSRPDDDB	404	
C@NJSRSIGN	408	
C@NJSRTERM	40C	
C@NJSTMAIN	41C	
C@NJSTOPTB	420	
C@NJSTTERM	424	
C@NJTAUTH	3DC	
C@NSRAUTH	414	
C@NSTAUTH	428	
C@NSTCDSH	42C	
C@NSTCJBH	430	
C@NSTCJBT	434	
C@OBTGBAT	4E4	
C@OLDJOE	778	
C@PCYAPPCK	440	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@PCYAPPLY	444	
C@PCYEXPR	448	
C@PCYMAPPT	44C	
C@PCYOADD	450	
C@PCYORMVC	45C	
C@PCYORPLC	460	
C@PCYRPNEV	464	
C@PDDBUPD	77C	
C@PIWRSIV	474	
C@PPSOSJB	850	
C@PREDNAME	5F8	
C@PREEMFRG	E4	
C@REFILT	5FC	
C@PREHTERR	E8	
C@PREJOBNM	24	
C@PREMG529	340	
C@PRENRREC	4F0	
C@PREREPGC	28	
C@PREURI	EC	
C@PREWTO	854	
C@PREZFERR	F0	
C@PRGETREC	4FC	
C@PRIMEIOT	780	
C@PRIPRINI	624	
C@PRITOR	628	
C@PRJBCLD	688	
C@PRJPCKP	62C	
C@PRJPCLS	630	
C@PRJPLCY	640	
C@PRJPLEX	634	
C@PRJPNJN	638	
C@PRJPRGP	63C	
C@PRJPROC	644	
C@PRJPSPL	648	
C@PRLIMIT	68C	
C@PROCALCS	4C	
C@PROCJZDN	258	
C@PROTENDR	4E8	
C@PROTGET	4F4	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@PROTPNT	50C	
C@PROTPUT	500	
C@PROTSRB	518	
C@PRPNTREC	514	
C@PRPUTREC	508	
C@PRSPLIO	690	
C@PRSRBREC	520	
C@PRTAUTH	858	
C@PSQUEUE	85C	
C@RACCTSET	8E4	
C@RANLZCRD	8E8	
C@RCARDSCN	8EC	
C@RDELEGRP	8F0	
C@RDELNETA	8F4	
C@RDELRJCB	8F8	
C@RDELWTO	8FC	
C@RECABORT	860	
C@RECOVERY	2D8	
C@REFRDSRV	61C	
C@REFRJRW	900	
C@RELGBAT	524	
C@RESTINFO	904	
C@RESTORE	600	
C@REXTENMG	908	
C@RFRDEJRW	90C	
C@RFRERJCB	910	
C@RGETNETA	914	
C@RGETRJCB	918	
C@RGETSPOF	91C	
C@RGLACTM	9BC	
C@RGLWAIT	9C0	
C@RGRFIND	9C4	
C@RGTDJRW	920	
C@RINITGRP	924	
C@RJNFYURL	9C8	
C@RJOBDEF	928	
C@RJOBONMG	92C	
C@RMSGQUE	930	
C@RNJCOMSG	934	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@RNJEHDTR	3C0	
C@RNJEONMG	938	
C@RNODEBAD	344	
C@RPDBBLD	93C	
C@RPDBINIT	940	
C@RPDBSEC	944	
C@RPRCRCCS	950	
C@RPROCGRP	948	
C@RPROCJCL	94C	
C@RPSTCXIT	954	
C@RPSWSCAN	958	
C@RPUTSCAN	95C	
C@RRWTORTN	864	
C@SCANDIAG	604	
C@SCNDBRNG	608	
C@SCNDGRTN	610	
C@SCNDVVAL	614	
C@SECLEXTR	868	
C@SFLOPDDDB	6A0	
C@SIGIOU	784	
C@SJBFREE	9CC	
C@SJBINIT	9D0	
C@SJFSWBRD	6A4	
C@SRXARR64	6D0	
C@SRXEMSG	6C4	
C@SRXIAR64	6C8	
C@SSIFINE	2DC	
C@SSISESTA	2E0	
C@SSISETUP	2E4	
C@SSVCLSC	C0	
C@SSVOPNC	C4	
C@SSVXDEF	86C	
C@STEALOCK	9D8	
C@SVCADDCT	528	
C@SVCADPCT	52C	
C@SWAREAD	244	
C@SWBTUMRG	6A8	
C@SYMTT	788	
C@SYSOVFY	78C	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
C@TBADTGBQ	870	
C@TOKENSR	874	
C@TRKCELL	878	
C@TRKCELLA	880	
C@TSCNVJB	65C	
C@TSETLOCK	884	
C@TSFRELOK	888	
C@TUXTRACT	6AC	
C@UBSRB	9FC	
C@UPDDSCA	530	
C@URIPARSE	F4	
C@USENF58	790	
C@USENF70	9DC	
C@USERSUB	664	
C@USRNEWND	668	
C@WTALOGQ	66C	
C@WTASRBQI	670	
C@XBFPITCH	890	
C@XCFXMBN	894	
C@XCNRECOV	50	
C@XINTKEY	54	
C@XJDTKEY	58	
C@XMXRMTR	89C	
C@XMXSRB	898	
C@XSYSINIT	8A0	
C@XSYSTEM	8A4	
CADDR	0	
CADDR#ENF35	108	
CADDR#ENF41CP	118	
CADDR#ENF41GL	110	
CADDR#ENF46	120	
CADDR#ENF51	128	
CADDR#ENF53	130	
CADDR#ENF56RGQ	140	
CADDR#ENF56RST	138	
CADDR#ENF57CM	148	
CADDR#ENF57RV	150	
CADDR#ENF58NR	158	
CADDR#ENF62NR	170	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
CADDR#ENF62RF	168	
CADDR#ENF62RL	160	
CADDR#ENF70NR	178	
CADDR#ENF80LS	180	
CADDR#ENF83LS	188	
CADDR#ENF86LS	190	
CADDR@CNTBITAB	2E8	
CADDR@CPLTABS	5B4	
CADDR@ENF35	104	
CADDR@ENF41CP	114	
CADDR@ENF41GL	10C	
CADDR@ENF46	11C	
CADDR@ENF51	124	
CADDR@ENF53	12C	
CADDR@ENF56RGQ	13C	
CADDR@ENF56RST	134	
CADDR@ENF57CM	144	
CADDR@ENF57RV	14C	
CADDR@ENF58NR	154	
CADDR@ENF62NR	16C	
CADDR@ENF62RF	164	
CADDR@ENF62RL	15C	
CADDR@ENF70NR	174	
CADDR@ENF80LS	17C	
CADDR@ENF83LS	184	
CADDR@ENF86LS	18C	
CADDR@HAMAVT	1AC	
CADDR@HASPVTAB	73C	
CADDR@MINMAXF	43C	
CADDR@OCO0FFST	438	
CADDR@PCYACIT	478	
CADDR@PCYATMT	47C	
CADDR@SCNDIAGT	60C	
CADDR@TRJNAME	2EC	
CADDRENFBEQ	104	
CADDRENFNUM	190	12
CADDREQE	A54	
CADDREQS	8	
CADDRID	0	C3C1C4C4

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
CADDRLEN	A74	A78
CADDRVNM	4	7
CADDRVSN	4	
K@\$BITMAP	798	
K@\$GETHP	290	
K@\$HGFMANK	298	
K@\$JBIDBLD	964	
K@\$JCORBLD	968	
K@\$MODLOC	2A0	
K@\$QLOCC	97C	
K@ARTEADD	990	
K@ARTERAT	994	
K@AVLDELET	5C0	
K@AVLINST	5B8	
K@AVLTRVS	5BC	
K@CATREAD	7F0	
K@CNVDEVID	674	
K@CRJOES	678	
K@DJBREAD	804	
K@ENF58CDC	FC	
K@ENF70CDC	100	
K@ESWFREE	680	
K@FIFOBLK8	81C	
K@GOFDSERV	82C	
K@HPOSTECB	1CC	
K@JDPRRPNL	260	
K@JDPRWHER	25C	
K@JOEREAD	844	
K@JPXIBLD	620	
K@JQEREAD	848	
K@MCSFLUSH	658	
K@MODJXACK	684	
K@PCYOCRT	454	
K@PCYODEST	458	
K@PCYTERM	468	
K@PIWCRT	46C	
K@PIWDST	470	
K@PRSMIGD	64C	
K@SJIOBINT	9D4	

Table 38. Cross Reference for \$CADDR (continued)

Name	Offset	Hex Tag
K@SNQCKPT	6B8	
K@SNQSNIN	6BC	
K@SNQSREQ	6C0	
K@USERDEST	660	
K@WSCREAD	88C	
K@ZGLMSG	6D4	

\$CAT information

\$CAT programming interface information

\$CAT is a programming interface.

\$CAT heading information

Common name:	Class Attribute Table
Macro ID:	\$CAT
DSECT name:	CAT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CATLEN, CATLLEN
Created by:	JES2 Initialization \$DOGCAT
Pointed to by:	\$CATABLE field of the \$HCT data area (during JES2 initialization only). Constructed dynamically from data in BERTs
Serialization:	None Required
Function:	The CAT defines the attributes of the JES2 job classes. There are 64 CAT entries arranged contiguously. The appropriate CAT entry for a particular class is found by taking the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A = '01') multiplying by the CATLEN equate, and adding the contents of \$CATABLE.

\$CAT mapping

Table 39. Structure CAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CAT	HASP CLASS ATTRIBUTE TABLE ELEMENT
Start of memory-only segment (not checkpointed) NOTE: - This section also exists in GRPOBJ elements (see \$CLASGRP).					
0	(0)	SIGNED	2	CATMEM(0)	Start of memory-only sect
CAT cache binary AVL tree 'node' data : - For performance, each checkpointed (BERT resident) CAT is cached in memory as part of a balanced binary AVL tree. - The tree is rebuilt whenever a CAT is added or removed.					
0	(0)	ADDRESS	4	CATLEFT	Pointer to lower CAT in binary tree.
4	(4)	ADDRESS	4	CATRIGHT	Pointer to higher CAT in binary tree.
8	(8)	SIGNED	2	CATAVBAL	AVL tree balance factor - used while building the binary tree.
Memory only flags :					
10	(A)	BITSTRING	1	CATFLAG5	Memory-only flags
		1...		CAT5ANOM	"B'10000000" ON = This job class has anomalies. Set in HASPJQS::CATHMAX.
		.1..		CAT5NOWK	"B'01000000" ON = No selectable work exists for this job class (within the current checkpoint cycle). Set by \$QGET processing and cleared by HASPJQS::CATHMAX (at ckpt cycle) and when a job is added to the class.
		..1.		CAT5CKPT	"B'00100000" ON = BERT resident CAT fields have changed. Alerts checkpoint cycle processing to write this CAT. SET by \$DOGCAT when a CAT is updated. RESET by the checkpoint cycle when written (see \$CATCWRT routine).
Other bookkeeping data :					
11	(B)	BITSTRING	1	CATPSQTP	The associated JQETYPE of this CAT.
12	(C)	SIGNED	4	CATELNUM	One-based element number of this cache element.
CAT/GRPOBJ cache element name. This will be equal to CATCLASS if a CAT element or GRPNAME if a GRPOBJ element.					
16	(10)	CHARACTER	8	CATELNAM	CAT cache element name.
FETCHNEXT Class group (GRPOBJ) bookkeeping info: - CATGRP@ : FETCHNEXT group address/indicator : o If NOT ZERO - Processing a group and this addr points to the corresponding GRPOBJ. A FETCHNEXT= will locate the next CAT in the group. o If ZERO - The CAT is NOT part of group processing. A FETCHNEXT= will locate the next 'sequential' CAT. - CATGRPC1 : The first CAT visited in the group. Since the GRPOBJ is a circular chain, this is used as the end condition to determine when group processing is complete.					

Table 39. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	CATGRP@	FETCHNEXT GRPOBJ address/ indicator.
28	(1C)	CHARACTER	8	CATGRPC1	First CAT processed in GRPOBJ circular chain.
28	(1C)	X'24'	0	CATMEMLN	"*-CATMEM" Size of memory only section
Start of CATBASE BERT segment.					
28	(1C)	X'7'	0	CATVERSN	"7" CAT version
36	(24)	BITSTRING	1	CATJOBFL	HASP JOB FLAGS, COPIED INTO THE JCTJOBFL FIELD, FLAG VALUES ARE DEFINED IN \$JCT
37	(25)	BITSTRING	1	CATJBOPT	HASP JOB OPTIONS, COPIED INTO THE JCTJBOPT FIELD, FLAG VALUES ARE DEFINED IN \$JCT
38	(26)	CHARACTER	2	CATPROC�	PROCEDURE LIBRARY NUMBER
40	(28)	BITSTRING	1	CATSMFLG	HASP SMF FLAGS, COPIED INTO THE JCTSMFLG FIELD, FLAG VALUES ARE DEFINED IN \$JCT
41	(29)	CHARACTER	3	CATPERFM	DEFAULT PERFORMANCE GROUP
The following fields are defined in aggregate by the CATCONVP symbol (below) and represent the converter defaults mapped by the converter parameter list (IEFCNPRM). The fields covered by CATCONVP must match those mapped by IEFCNPRM.					
44	(2C)	SIGNED	4	CATCPBGN(0)	START OF CONVERTER PARMS
44	(2C)	CHARACTER	1	CATCACCT	ACCOUNTING INFO REQUIRED
		.... ....		CATCNONE	"B'00000000'" NO INFO IS REQUIRED
		.... ...1		CATCNAME	"B'00000001'" PROGRAMMER NAME REQ'D
		.... ..1.		CATCNUMB	"B'00000010'" ACCOUNT NUMBER REQUIRED
44	(2C)	X'3'	0	CATCALL	"CATCNAME+CATCNUMB" JOB AND NUMBER REQUIRED
		.... .1..		CATCSWAL	"B'00000100'" SWA ABOVE 16M LINE
45	(2D)	CHARACTER	2		RESERVED
47	(2F)	CHARACTER	8	CATCTIME(0)	DFLT JOB STEP INTL TIME
47	(2F)	CHARACTER	6	CATCMNTE	MAXIMUM MINUTES
53	(35)	CHARACTER	2	CATCSECS	MAXIMUM SECONDS
55	(37)	CHARACTER	5	CATCREGN(0)	DEFAULT JOB STEP REGION
55	(37)	CHARACTER	4	CATCRGN	NUMERIC SPECIFICATION
59	(3B)	CHARACTER	1	CATCRGA	KILOBYTES OR MEGABYTES SPECIFICATION
60	(3C)	CHARACTER	1	CATCMND	COMMAND DISPOSITION
60	(3C)	X'F0'	0	CATCEXEC	"C'0'" PASS THE COMMAND THROUGH
60	(3C)	X'F1'	0	CATCDSPL	"C'1'" DISPLAY AND THEN PASS CMND
60	(3C)	X'F2'	0	CATCVER	"C'2'" ASK OPERATOR DISPOSITION
60	(3C)	X'F3'	0	CATCIGN	"C'3'" IGNORE THE COMMAND
61	(3D)	CHARACTER	1	CATCBLP	BYPASS LABEL PROCESSING OPT.
		.... ...1		CATCBLPY	"B'00000001'" PROCESS BYPASS LABEL PARM
62	(3E)	CHARACTER	1	CATCOCG(4)	OPERATOR COMMAND GROUP
		.... .1..		CATCGSYS	"B'00000100'" GROUP 1 COMMANDS (SYS)
		.... ..1.		CATCGIO	"B'00000010'" GROUP 2 COMMANDS (I/O)

Table 39. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		CATCGCON	"B'00000001'" GROUP 3 COMMANDS (CONS)
62	(3E)	X'7'	0	CATCGALL	"CATCGSYS+CATCGIO+CATCGCON" ALL GROUPS
66	(42)	CHARACTER	1	CATCLJCL	DEFAULT MSGLEVEL, JCL LISTED IF NO MSGLEVEL
67	(43)	CHARACTER	1	CATCTMSG	ALLOCATION TERMINATION MSGS
67	(43)	X'2C'	0	CATCONVP	"CATCPBGN,*-CATCPBGN" FULL CONVERTER PARAMETERS
68	(44)	BITSTRING	1	CATCFLG1	Converter parm byte
		1...		CATCNQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE
		.1..		CATCNQDS	"B'01000000'" - Do not allow the DSENQSHR JCL keyword on a job statement. This disables the SYSDSN ENQ downgrade function. - Both bits off allows the function (ALLOW)
		..1.		CATSYSYM	"B'00100000'" - System symbols substitution in batch jobs is supported
		...1		CATGDGST	"B'00010000'" - GDGBIAS=STEP default has been set
69	(45)	BITSTRING	7		Reserved for potential expansion of IEF CNPRM
End of converter parameters mapped by IEF CNPRM					
76	(4C)	BITSTRING	1	CATOPSWT	CONVERTER OPTION SWITCHES
77	(4D)	BITSTRING	1	CATFLAG1	NORMAL OUTDISP FOR JESDS
		1...		CAT1CDP	"B'10000000'" CONDITIONALLY PURGE OUTPUT FOR JOBS IN THIS CLASS
77	(4D)	X'10'	0	CAT1NODP	"\$ODPURGE" NORMAL OUTDISP=PURGE
77	(4D)	X'8'	0	CAT1NODW	"\$ODWRITE" NORMAL OUTDISP=WRITE
77	(4D)	X'4'	0	CAT1NODH	"\$ODHOLD" NORMAL OUTDISP=HOLD
77	(4D)	X'2'	0	CAT1NODK	"\$ODKEEP" NORMAL OUTDISP=KEEP
77	(4D)	X'1'	0	CAT1NODL	"\$ODLEAVE" NORMAL OUTDISP=LEAVE
78	(4E)	BITSTRING	1	CATFLAG2	ABNORMAL OUTDISP FOR JESDS
78	(4E)	X'10'	0	CAT2AODP	"\$ODPURGE" ABNORMAL OUTDISP=PURGE
78	(4E)	X'8'	0	CAT2AODW	"\$ODWRITE" ABNORMAL OUTDISP=WRITE
78	(4E)	X'4'	0	CAT2AODH	"\$ODHOLD" ABNORMAL OUTDISP=HOLD
78	(4E)	X'2'	0	CAT2AODK	"\$ODKEEP" ABNORMAL OUTDISP=KEEP
78	(4E)	X'1'	0	CAT2AODL	"\$ODLEAVE" ABNORMAL OUTDISP=LEAVE
79	(4F)	BITSTRING	1	CATFLAG3	Processing flags
		1...		CAT3WLM	"B'10000000'" WLM managed class
		.1..		CAT3SPEC	"B'01000000'" Special class (STC/TSU)
		..1.		CAT3PSEU	"B'00100000'" Pseudo-class queue (not set in real CATs)
		...1		CAT3RBLD	"B'00010000'" Pseudo-class queue for rebuild queue
		.... 1...		CAT3RECO	"B'00001000'" Pseudo CAT used for JQE and CAT reconciliation
		.... .1..		CAT3SINV	"B'00000100'" Default SCHENV (CATSCHED) no longer defined

Table 39. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CAT3DUOK	"B'00000010'" Duplicate job names OK this job class
		.... ...1		CAT3LSRC	"B'00000001'" JOBRC=LASTRC specified for this job class
80	(50)	CHARACTER	8	CATXBM	PROCNAME FOR XBM/2 JOB
88	(58)	CHARACTER	8	CATCLASS	Name of this job class.
96	(60)	SIGNED	4	CATMAXJ	Max executing jobs in this class in the JESplex
CATCURJ is altered by \$QBUSY, QADCHAIN and QDECHAIN only					
100	(64)	SIGNED	4	CATCURJ	Current executing jobs in this class in the JESplex
104	(68)	SIGNED	4	CATMAXT	TOD when Max executing jobs reached
108	(6C)	SIGNED	4	CATJQER	Number of JQEs waiting for timer reconciliation (only present in CATs with CAT3RECO on)
112	(70)	SIGNED	4	CATIMER	TOD when queue held
116	(74)	ADDRESS	4	CATQHDI	First JQE in class; CKPT only (index)
120	(78)	CHARACTER	16	CATSCHED	Default SCHENV, JOB classes only
136	(88)	CHARACTER	1	CATMCLAS	Default message class, TSU and STC classes only
137	(89)	BITSTRING	6	CATJLOG	JES log control
143	(8F)	BITSTRING	1		Reserved
144	(90)	ADDRESS	4	(0)	Word align
144	(90)	SIGNED	4	CATXITD1	Reserved for Exit use
148	(94)	SIGNED	4	CATXITD2	Reserved for Exit use
152	(98)	BITSTRING	1	CATFLAG7	More flags
		1...		CAT7PRC8	"B'10000000'" CATPROC8 has been set
		.1..		CAT7JCNL	"B'01000000'" JESCANCEL restricted OFF- \$C allowed ON - \$C restricted
153	(99)	BITSTRING	3		Reserved
156	(9C)	CHARACTER	8	CATPROC8	Procedure library name
164	(A4)	SIGNED	4	(0)	Align section length
164	(A4)	X'80'	0	CATLEN1	"*-CATJOBFL" Length of main CATBASE BERT segment.
Start of CATQAFF BERT segment.					
164	(A4)	BITSTRING	4	CATQAFF	Members to which the class has affinity
168	(A8)	BITSTRING	1	CATMBRMX	Members on which CATJACT is less than CATJMACT
168	(A8)	X'8'	0	CATLEN4	"*-CATQAFF" Length of affinity/max CATQAFF BERT segment.
Start of CATACT BERT segment.					
172	(AC)	BITSTRING	1	CATFLAG4	Flags
		1...		CAT4JDUP	"B'10000000'" At least one duplicate job in this class
		.1..		CAT4INAC	"B'01000000'" This CAT is inactive and no new work can be selected from it.

Table 39. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CAT4PERM	"B'00100000" Permanent CAT (cannot be deleted).
		...1		CAT4DFLT	"B'00010000" This is default job class (cannot delete/inact)
173	(AD)	BITSTRING	1	CATPRMRT	STARTBY promotion rate
174	(AE)	BITSTRING	2		Reserved for future use
176	(B0)	SIGNED	4	CATJACT(0)	Batch jobs active
176	(B0)	X'84'	0	CATLEN2	"*-CATFLAG4" Length of job active CATACT BERT segment.
Start of CATGROUP BERT segment.					
304	(130)	CHARACTER	8	CATGPNAM	If not all zeroes, this CAT belongs to a class group and this is the name of the group.
312	(138)	CHARACTER	8	CATGPNXT	If not all zeroes, this CAT belongs to a class group and this is the name of the NEXT CAT in this class group
312	(138)	X'10'	0	CATLEN5	"*-CATGPNAM" Length of class group CATGROUP BERT segment.
Start of CATMACT BERT segment.					
320	(140)	SIGNED	4	CATJMACT(0)	Batch job activity maximum
320	(140)	X'80'	0	CATLEN3	"*-CATJMACT" Length of max active CATMACT BERT segment.
Start of CATDESC BERT segment.					
448	(1C0)	DBL WORD	8	(0)	Alignment
448	(1C0)	CHARACTER	80	CATDESC	Description of class
Start of CATRSRC BERT segment.					
528	(210)	DBL WORD	8	(0)	Alignment
528	(210)	BITSTRING	0	CATRSRC(0)	Managed resources
528	(210)	X'20'	0	CATLEN6	"*-CATRSRC" Length of resource segment
560	(230)	DBL WORD	8	(0)	Ensure double word bdy
560	(230)	X'230'	0	CATLEN	"*-CAT" Length of CAT
560	(230)	X'230'	0	CATLLEN	"*-CAT" Full length of CAT
SPECIAL CLASS DEFINITIONS					
		11.1		CATSTCCL	"X'D0'" SYSTEM TASK CLASS
		111.		CATTSUCL	"X'E0'" FOREGROUND TIME SHARING CLASS
560	(230)	X'5B'	0	CATSTCID	"C'\$'" SYSTEM TASK DISPLAY ID
560	(230)	X'7C'	0	CATTSUID	"C'@'" FORGROUN TIME SHARING DISPLAY ID
		.1..		CATNENT	"X'FF'-X'C0'+1" NUMBER OF ENTRIES IN CAT

Table 40. Structure CATCHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATCHDR	CACHE HEADER

Table 40. Structure CATCHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	CATCHNUM	Number of elements in cache
4	(4)	SIGNED	4	CATCHESZ	Byte size of a cache element. Includes PREBERT, CAT/GRPOBJ, and additional user BERT data
8	(8)	SIGNED	4	CATCHSIZ	Total size of the cache - in BYTES.
12	(C)	SIGNED	2	CATCHCNT	JNTCATCT value captured when the cache is built. Used to determine if the cache is current.
14	(E)	BITSTRING	1	CATFLAG6	CAT Cache header flags
	1...			CAT6TREE	"B'10000000'" Binary tree has been successfully built
15	(F)	BITSTRING	1		Reserved
16	(10)	ADDRESS	4	CATCROOT	Root node in cache AVL tree. Points to CAT cache entry.
20	(14)	BITSTRING	64	CATIPATH	Array of 2 byte elements used to track path taken when inserting a cache element within AVL tree. 0 -> left subtree path 1 -> right subtree path Supports 2 to the 32th distinct values and tree depths up to 32. Only used when tree is built.
20	(14)	X'40'	0	CATIPATL	"*-CATIPATH" Length
20	(14)	CHARACTER	8	CATPRVCN	Prev CAT/GRP name before CAT cache entry refresh
28	(1C)	ADDRESS	4	CATPRVLE	Previous pointer to lower CAT in tree before CAT cache entry refresh
32	(20)	ADDRESS	4	CATPRVRI	Previous pointer to higher CAT in tree before CAT cache entry refresh
36	(24)	SIGNED	2	CATPRVBL	Previous cache entry balance factor before CAT cache entry refresh
84	(54)	CHARACTER	8	CATCHSRC	Search value (job class name) used to locate a cache element.
84	(54)	X'5C'	0	CATCHLEN	"*-CATCHDR" Size of cache header.
92	(5C)	SIGNED	2	CATCHELM(0)	Cache elements start here.
92	(5C)	X'32'	0	CATCINEL	"50" Storage will be created for CATCINEL # of elements the first time the cache is created.

Table 41. Structure CATRSREN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATRSREN	, CAT resource entry
0	(0)	BITSTRING	2	CATRLIMP	Resource usage limit for the resource (% * 100)
2	(2)	BITSTRING	1	CATRACCT	Resource action
3	(3)	BITSTRING	1		Reserved
3	(3)	X'4'	0	CATRENSZ	"*-CATRSREN" Size of entry

Table 42. Cross Reference for \$CAT

Name	Offset	Hex Tag
CAT	0	
CATAVBAL	8	
CATCACCT	2C	

Table 42. Cross Reference for \$CAT (continued)

Name	Offset	Hex Tag
CATCALL	2C	3
CATCBLP	3D	
CATCBLPY	3D	1
CATCD SPL	3C	F1
CATCEXEC	3C	F0
CATCFLG1	44	
CATCGALL	3E	7
CATCGCON	3E	1
CATCGIO	3E	2
CATCGSYS	3E	4
CATCHCNT	C	
CATCHDR	0	
CATCHELM	5C	
CATCHESZ	4	
CATCHLEN	54	5C
CATCHNUM	0	
CATCHSIZ	8	
CATCHSRC	54	
CATCIGN	3C	F3
CATCINEL	5C	32
CATCLASS	58	
CATCLJCL	42	
CATCMND	3C	
CATCMNTE	2F	
CATCNAME	2C	1
CATCNONE	2C	0
CATCNQAU	44	80
CATCNQDS	44	40
CATCNUMB	2C	2
CATCOCG	3E	
CATCONVP	43	2C
CATCPBGN	2C	
CATCREGN	37	
CATCRGA	3B	
CATCRGN	37	
CATCROOT	10	
CATCSECS	35	
CATCSWAL	2C	4
CATCTIME	2F	

Table 42. Cross Reference for \$CAT (continued)

Name	Offset	Hex Tag
CATCTMSG	43	
CATCURJ	64	
CATCVER	3C	F2
CATDESC	1C0	
CATELNAM	10	
CATELNUM	C	
CATFLAG1	4D	
CATFLAG2	4E	
CATFLAG3	4F	
CATFLAG4	AC	
CATFLAG5	A	
CATFLAG6	E	
CATFLAG7	98	
CATGDGST	44	10
CATGPNAM	130	
CATGPNXT	138	
CATGRP@	18	
CATGRPC1	1C	
CATIMER	70	
CATIPATH	14	
CATIPATL	14	40
CATJACT	B0	
CATJB0PT	25	
CATJLOG	89	
CATJMACT	140	
CATJOBFL	24	
CATJQER	6C	
CATLEFT	0	
CATLEN	230	230
CATLEN1	A4	80
CATLEN2	B0	84
CATLEN3	140	80
CATLEN4	A8	8
CATLEN5	138	10
CATLEN6	210	20
CATLLEN	230	230
CATMAXJ	60	
CATMAXT	68	
CATMBRMX	A8	

Table 42. Cross Reference for \$CAT (continued)

Name	Offset	Hex Tag
CATMCLAS	88	
CATMEM	0	
CATMEMLN	1C	24
CATNENT	230	40
CATOPSWT	4C	
CATPERFM	29	
CATPRMRT	AD	
CATPROCN	26	
CATPROC8	9C	
CATPRVBL	24	
CATPRVCN	14	
CATPRVLE	1C	
CATPRVRI	20	
CATPSQTP	B	
CATQAFF	A4	
CATQHDI	74	
CATRACT	2	
CATRENSZ	3	4
CATRIGHT	4	
CATRLIMP	0	
CATRSRC	210	
CATRSREN	0	
CATSCHED	78	
CATSMFLG	28	
CATSTCCL	230	D0
CATSTCID	230	5B
CATSYSYM	44	20
CATTSUCL	230	E0
CATTSUID	230	7C
CATVERSN	1C	7
CATXBM	50	
CATXITD1	90	
CATXITD2	94	
CAT1CDP	4D	80
CAT1NODH	4D	4
CAT1NODK	4D	2
CAT1NODL	4D	1
CAT1NODP	4D	10
CAT1NODW	4D	8

Table 42. Cross Reference for \$CAT (continued)

Name	Offset	Hex Tag
CAT2AODH	4E	4
CAT2AODK	4E	2
CAT2AODL	4E	1
CAT2AODP	4E	10
CAT2AODW	4E	8
CAT3DUOK	4F	2
CAT3LSRC	4F	1
CAT3PSEU	4F	20
CAT3RBLD	4F	10
CAT3RECO	4F	8
CAT3SINV	4F	4
CAT3SPEC	4F	40
CAT3WLM	4F	80
CAT4DFLT	AC	10
CAT4INAC	AC	40
CAT4JDUP	AC	80
CAT4PERM	AC	20
CAT5ANOM	A	80
CAT5CKPT	A	20
CAT5NOWK	A	40
CAT6TREE	E	80
CAT7JCNL	98	40
CAT7PRC8	98	80

\$CATBERT information

\$CATBERT heading information

Common name:	Collector Attribute Table for BERTs
Macro ID:	\$CATBERT
DSECT name:	CATBERT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CATB Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in ECSA. Real storage is anywhere.
Size:	See CBRSIZE (plus an 8 byte prefix)

Created by: JES2 initialization processing

Pointed to by: CCTCBRT field of the HCCT data area
CVCB_\$CATBERT_ADDR field of the CVCB data area

Serialization: This control block is updated during JES2 initializaion processing and not updated after that.

Function: This control block maps the common storage data area used by the \$DOGBERT (and related) services.

\$CATBERT mapping

Table 43. Structure CATBERT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CATBERT	, Collector Attribute table for BERTs
0	(0)	ADDRESS	1	CBRVERS	Version number
0	(0)	X'1'	0	CBRVERSN	"1" Current version
1	(1)	SIGNED	1	CBRNTYPE	Number of table entries
2	(2)	SIGNED	1	CBRMSTRV	CKPT level of last BERTMAP
3	(3)	BITSTRING	1		Reserved
4	(4)	SIGNED	4	CBRVERCT	Number of CKPT versions using this \$CATBERT
<p>The following table points to the BERT maps for the supported types of BERTs. The entries in this table must match the CB numbers assigned in \$PARMLST and in the \$BERT CB type field.</p>					
4	(4)	X'0'	0	CBRMAPE	"0,12,C'X'" BERT map entry
4	(4)	X'0'	0	CBRMADDR	"0,4,C'A'" Address of BERT translate table
4	(4)	X'4'	0	CBRMCNT	"4,1,C'F'" Number of table entries (Not including id 0 record)
4	(4)	X'5'	0	CBRMFLAG	"5,1,C'B'" Flags
		1...		CBRMFJ2	"B'10000000'" Type is JES2-defined
4	(4)	X'6'	0	CBRMSIZE	"6,2,C'H'" Max entry size (highest offset set)
4	(4)	X'8'	0	CBRMBYTE	"8,2,C'H'" Bytes of BERT data needed
4	(4)	X'C'	0	CBRMLEN	"L'CBRMAPE" Size of BERT map tabl entry
<p>Note for internal BERTs, the BERT translation table is used to store the number assigned to the BERT. Other fields are not used.</p>					
8	(8)	SIGNED	4	CBRMAPS(0)	--+ Table of BERT maps
8	(8)	ADDRESS	4	CBRMINT	| Internal CB
12	(C)	SIGNED	1	CBRNINT	| Number of entries
13	(D)	BITSTRING	1	CBRINTF	| Flag byte
14	(E)	SIGNED	2	CBRINTL	| Max size (always zero)
16	(10)	SIGNED	2	CBRINTS	| Bytes in BERTs (zero)
18	(12)	SIGNED	2		| Reserved
20	(14)	ADDRESS	4	CBRMJQE	| JQE extensions
24	(18)	SIGNED	1	CBRNJQE	| Number of entries
25	(19)	BITSTRING	1	CBRJQEF	| Flag byte

Table 43. Structure CATBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
26	(1A)	SIGNED	2	CBRJQEL	| Max JQE size
28	(1C)	SIGNED	2	CBRJQES	| Bytes in BERTs
30	(1E)	SIGNED	2		| Reserved
32	(20)	ADDRESS	4	CBRMCAT	| CAT control blocks
36	(24)	SIGNED	1	CBRNCAT	| Number of entries
37	(25)	BITSTRING	1	CBRCATF	| Flag byte
38	(26)	SIGNED	2	CBRCATL	| Max CAT size
40	(28)	SIGNED	2	CBRCATS	| Bytes in BERTs
42	(2A)	SIGNED	2		| Reserved
44	(2C)	ADDRESS	4	CBRMWSCQ	| WSCQ control blocks
48	(30)	SIGNED	1	CBRNWSCQ	| Number of entries
49	(31)	BITSTRING	1	CBRWSCQF	| Flag byte
50	(32)	SIGNED	2	CBRWSCQL	| Max WSCQ size
52	(34)	SIGNED	2	CBRWSCQS	| Bytes in BERTs
54	(36)	SIGNED	2		| Reserved
56	(38)	SIGNED	4	(0)	--+ End of table
56	(38)	X'4'	0	CBRMAPCT	"(*-CBRMAPS)/CBRMLEN" Number of table entries
56	(38)	X'FE'	0	CBRMAXID	"\$DGBDYN-1" Max usable CB type
56	(38)	X'BFC'	0	CBRDYNPT	"CBRMAPS+CBRMADDR+(\$DGBDYN*CBRMLEN),4,C'A'" Dynamic BRTRANS pointer
56	(38)	X'C08'	0	CBRSIZE	"(CBRMAPS-CATBERT)+(CBRMAXID+1+1)*CBRMLEN" Size of CATBERT

BERT translation table
 Bert translation tables are obtained in CSA and consist of a prefix area, containing storage pointers from area to area, followed by several (up to 253) BRTRANS areas. The prefix area contains a chain pointer that is used to free the CSA on a clean shutdown of JES2.

56	(38)	X'0'	0	CBRBMPFX	"0,8" Prefix area
56	(38)	X'0'	0	CBRBMPTR	"0,4" Prefix area chain pointer

Table 44. Structure BRTRANS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTRANS	, BERT translation table
0	(0)	CHARACTER	8	BRTRNAME	Name (Zero if not in use)
8	(8)	BITSTRING	1	BRTRID	BERTIE id
8	(8)	X'FD'	0	BRTRMAXI	"BRTIICNT-1" Max usable BERTIE ID
9	(9)	BITSTRING	1	BRTRCBT	CB type (same as \$PARMLST)
10	(A)	SIGNED	2	BRTRCOFF	Offset into CB of data
12	(C)	BITSTRING	1	BRTRLEN	Length of data
13	(D)	BITSTRING	1	BRTRFLG1	Flag bytes
		1...		BRTRF10L	"B'10000000'" Offset overlaps allowed
		.1..		BRTRF1J2	"B'01000000'" Type is JES2-defined
		..1.		BRTRF1DF	"B'00100000'" BERTTAB found
14	(E)	X'F'	0	BRTRFILL	"BRTRFCLI+1,1" Fill character

Table 44. Structure BRTRANS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
18	(12)	SIGNED	2		Reserved
20	(14)	SIGNED	4	BRTRCNT	Count of this BERTIE type used in the MAS
20	(14)	X'18'	0	BRTRSIZE	"*-BRTRANS" Length of a table entry

Table 45. Cross Reference for \$CATBERT

Name	Offset	Hex	Tag
BRTRANS	0		
BRTRCBT	9		
BRTRCNT	14		
BRTRCOFF	A		
BRTRFILL	E		F
BRTRFLG1	D		
BRTRF1DF	D		20
BRTRF1J2	D		40
BRTRF10L	D		80
BRTRID	8		
BRTRLEN	C		
BRTRMAXI	8		FD
BRTRNAME	0		
BRTRSIZE	14		18
CATBERT	0		
CBRBMPFX	38		0
CBRBMPTR	38		0
CBRCATF	25		
CBRCATL	26		
CBRCATS	28		
CBRDYNPT	38		BFC
CBRINTF	D		
CBRINTL	E		
CBRINTS	10		
CBRJQEF	19		
CBRJQEL	1A		
CBRJQES	1C		
CBRMADDR	4		0
CBRMAPCT	38		4
CBRMAPE	4		0
CBRMAPS	8		
CBRMAXID	38		FE
CBRMBYTE	4		8

Table 45. Cross Reference for \$CATBERT (continued)

Name	Offset	Hex Tag
CBRMCAT	20	
CBRMCNT	4	4
CBRMFJ2	4	80
CBRMFLAG	4	5
CBRMINT	8	
CBRMJQE	14	
CBRMLEN	4	C
CBRMSIZE	4	6
CBRMSTRV	2	
CBRMWSCQ	2C	
CBRNCAT	24	
CBRNINT	C	
CBRNJQE	18	
CBRNTYPE	1	
CBRNWSCQ	30	
CBRSIZE	38	C08
CBRVERCT	4	
CBRVERS	0	
CBRVERSN	0	1
CBRWSCQF	31	
CBRWSCQL	32	
CBRWSCQS	34	

\$CCE information

\$CCE heading information

Common name: Cell Control Element

Macro ID: \$CCE

DSECT name: CCE

Owning component: JES2 (SC1BH)

Eye-catcher ID: CCE
Offset: CCEID-CCE
Length: L'CCEID

Storage attributes: Subpool: 231
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.

Size: See CCEL

Created by: \$GETCEL in HASCLINK

Pointed to by:	CCTCSACH field of the HCCT data area CCECCE field of the CCE data area PSOCCE field of the PSO data area S35DCCE field of the S35D data area
Serialization:	Compare and swap logic is used to place CCEs on the CCTCSACH chain. Once on the chain, they are never removed. Compare and swap logic must also be used to update field CCEKEY1. CCEKEY1 is a claim field that must be obtained prior to modifying any other CCE field. If CCEKEY1 field is 0 then there is no owner of the CCE.
Function:	CCE's represent CSA cells of variable length (allocated in blocks of 256 bytes). The CCEs are chain from the CCTCSACH field in the HCCT control block. Once on this chain, a CCE will never be removed. The cell represented by each CCE is chained from the CCECLOC field of the CCE. The CCE describes who the owner of the cell is and what properties are associated with the cell (how large it is, whether it is a primary cell or not, how the cell may be freed). For more information on the CCEs, look at routines \$GETCEL and \$FRECEL in HASCLINK.

\$CCE mapping

Table 46. Structure CCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CCE	THE \$CCE CONTROL BLOCK
0	(0)	CHARACTER	4	CCEID	CCE IDENTIFICATION
4	(4)	ADDRESS	1	CCEVRSN	CCE VERSION FIELD
4	(4)	X'1'	0	CCEVERSN	"1" CURRENT VERSION LEVEL
5	(5)	BITSTRING	1	CCEFLAG1	CCE FLAG FIELD
		1...		CCE1PRIM	"B'10000000'" CELL WAS ALLOCATED WITH CCEs--DO NOT FREE THE ASSOCIATED CELL
6	(6)	ADDRESS	2	CCECSIZ	ASSOCIATED CELL SIZE IN BYTES
8	(8)	ADDRESS	4	CCECCE	NEXT CCE
12	(C)	ADDRESS	4	CCECLOC	ADDRESS OF ASSOCIATED CELL
16	(10)	ADDRESS	4	CCEKEY1	PRIMARY KEY (CLAIM ID)--USUALLY AN SJB ADDRESS (USE CS INSTR)
20	(14)	ADDRESS	4	CCEKEY2	SECONDARY KEY--USUALLY A TCB ADDRESS OR 0
20	(14)	X'18'	0	CCEL	"*-CCE"

Table 47. Cross Reference for \$CCE

Name	Offset	Hex Tag
CCE	0	
CCECCE	8	
CCECLOC	C	
CCECSIZ	6	
CCEFLAG1	5	

Table 47. Cross Reference for \$CCE (continued)

Name	Offset	Hex Tag
CCEID	0	C3C3C540
CCEKEY1	10	
CCEKEY2	14	
CCEL	14	18
CCEVERSN	4	1
CCEVRSN	4	
CCE1PRIM	5	80

\$CCW information

\$CCW programming interface information

\$CCW is a programming interface.

\$CCW heading information

Common name:	CCW mapping and operation code equates
Macro ID:	\$CCW
DSECT name:	None
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	These equates define the fields within format 0 and format 1 CCWs as well as the operation codes and flags. Basic command codes may have to be combined with modifiers to produce CCW operation codes for specific devices. Not all combinations of basic opcodes and modifiers are valid CCW opcodes for all types of devices. See specific device documentation for valid combinations.

\$CCW mapping

Table 48. Structure

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		

Table 49. Structure \$CCWS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	\$CCWS	, CCW equates DSECT
Basic CCW fields (format 0)					
0	(0)	X'0'	0	CCWOP	"0,1" OPERATION
0	(0)	X'0'	0	CCWCMD	"0,1" (ALIAS COMMAND CODE)
0	(0)	X'1'	0	CCWADDR	"1,3" DATA (TARGET) ADDRESS
0	(0)	X'4'	0	CCWFLAG	"4,1" FLAG BYTES
0	(0)	X'5'	0	CCWRESVD	"5,1" RESERVED
0	(0)	X'6'	0	CCWCOUNT	"6,2" LENGTH
0	(0)	X'6'	0	CCWLEN	"6,2" LENGTH
Basic CCW fields (format 1)					
0	(0)	X'0'	0	CCW1OP	"0,1" Operation
0	(0)	X'0'	0	CCW1CMD	"0,1" (Alias command code)
0	(0)	X'1'	0	CCW1FLAG	"1,1" Flag byte
0	(0)	X'2'	0	CCW1CNT	"2,2" Length
0	(0)	X'2'	0	CCW1LEN	"2,2" (Alias length)
0	(0)	X'1'	0	CCW1RESV	"CCW1FLAG,L'CCW1FLAG+L'CCW1CNT" Area that must be zero in a TIC
0	(0)	X'4'	0	CCW1ADDR	"4,4" Data (target) address
BASIC COMMAND CODES					
		.... ..1		WRITE	"X'01'" WRITE
		.... ..1		PRINT	"X'01'" PRINT (ON PRINTERS)
		.... ..1		PUNCH	"X'01'" PUNCH (ON PUNCHES)
		.... ..1		SRCH	"X'01'" SEARCH (USED WITH MODIFIER)
		.... ..1.		READ	"X'02'" READ
		.... ..11		CNTRL	"X'03'" CONTROL
		.... ..11		NOP	"X'03'" NO OPERATION
		.... ..1..		SNS	"X'04'" SENSE
		.... 1...		TIC	"X'08'" TRANSFER IN CHANNEL
0	(0)	X'6'	0	READIO	"READ+SNS" READ AND SENSE COMMAND
0	(0)	X'5'	0	WRITEIO	"WRITE+SNS" WRITE AND SENSE COMMAND
CCW FLAG VALUES					
		1...		DC	"X'80'" DATA CHAINING
		.1..		CC	"X'40'" COMMAND CHAINING
		..1.		SLI	"X'20'" SUPPRESS INCORRECT LENGTH
		...1		SKIP	"X'10'" SUPPRESS DATA TRANSFER
		.... 1...		PCI	"X'08'" PGM CONTROLLED INTERRUPT
		.... ..1..		IDA	"X'04'" CHANNEL INDIRECT ADDRESSING
		.... ..1.		SUS	"X'02'" Suspend
		.... ...1		MIDA	"X'01'" Modified indirect data addr
DIRECT ACCESS DEVICE -- CONTROL COMMANDS					
		..1. 1.11		ORIENT	"X'28'+CNTRL" ORIENT - (2305 ONLY)

Table 49. Structure \$CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 ..11		RECALIB	"X'10'+CNTRL" RECALIBRATE
		.... .111		SEEK	"X'04'+CNTRL" SEEK
		.... 1.11		SEEKCYL	"X'08'+CNTRL" SEEK CYLINDER
		...1 1.11		SEEKHD	"X'18'+CNTRL" SEEK HEAD
		.... 1111		SPACNT	"X'0C'+CNTRL" SPACE COUNT
		...1 1111		SETFMSK	"X'1C'+CNTRL" SET FILE MASK
		..1. ..11		SETS	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		..1. ..11		SETSECTR	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		...1 .111		RESTORE	"X'14'+CNTRL" RESTORE
		..1. .111		VARYSNS	"X'24'+CNTRL" VARY SENSING - (2305 ONLY)
		.1.. .111		LOCRCO	"X'44'+CNTRL" LOCATE RECORD - (EXT. C-K-D)
		.11. ..11		DEFXTNT	"X'60'+CNTRL" Define Extent
Direct Access Device -- Track operations					
		1.1. .11.		READTRD	"X'A4'+READ" Read track data
		1.1. .1.1		WRITETRD	"X'A4'+WRITE" Write track data
DIRECT ACCESS DEVICE -- SEARCH COMMAND MODIFIERS					
		..1.		EQ	"X'20'" SEARCH EQUAL MODIFIER
		.1..		HI	"X'40'" SEARCH HI MODIFIER
		.11.		HIEQ	"X'60'" SEARCH HI OR EQUAL MODIFIER
		.... .1..		CNTNU	"X'04'" SEARCH CONTINUE (2314 ONLY)
DIRECT ACCESS DEVICE -- SENSE COMMAND MODIFIERS					
		1..1		RSVDISK	"X'90'" DEVICE RESERVE
		1.11		RLSDISK	"X'B0'" DEVICE RELEASE
DIRECT ACCESS DEVICE -- FIELD MODIFIERS					
		...1 1...		HA	"X'18'" HOME ADDRESS FIELD
		...1		CNT	"X'10'" COUNT (ID) FIELD
		...1		ID	"X'10'" ID (COUNT) FIELD
		...1 .1..		RECO	"X'14'" RECORD ZERO
		.... .1..		DATA	"X'04'" DATA FIELD
		.... 1...		KEY	"X'08'" KEY FIELD
		.... 11..		KD	"X'0C'" KEY AND DATA FIELD
		...1 11..		CKD	"X'1C'" COUNT, KEY AND DATA FIELDS
			IPL	"X'00'" IPL RECORD
		..1.		SECTOR	"X'20'" SECTOR
		1...		UPDT	"X'80'" Update
		1...		MT	"X'80'" MULTI-TRACK OPERATION
PRINTER DEVICE -- CONTROL COMMANDS					
		1111 1.11		LOADUCS	"X'F8'+CNTRL" LOAD UCS BUFFER

Table 49. Structure \$CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	1111	..11		LOADUSCF	"X'F0'+CNTRL" LOAD UCS BUFFER (FOLDED)
	.1..	..11		FOLDUCS	"X'40'+CNTRL" FOLD UCS BUFFER
	..1.	..11		UNFLDUCS	"X'20'+CNTRL" UNFOLD UCS BUFFER
	111.	1.11		GATEUCS	"X'E8'+CNTRL" GATE/LOAD UCS BUFFER
	.111	..11		BLKDATA C	"X'70'+CNTRL" BLOCK DATA CHECK
	.111	1.11		ALWDATA C	"X'78'+CNTRL" ALLOW DATA CHECK
	.11.	..11		LOADFCB	"X'60'+CNTRL" LOAD FCB
	.11.	1.11		RAISCOVER	"X'68'+CNTRL" RAISE COVER
PRINTER DEVICE -- READ COMMANDS					
	....	..1.		READPLB	"X'00'+READ" READ PRINT INE BUFFER
	....	1.1.		READUCS	"X'08'+READ" READ UCS BUFFER
	...1	..1.		READFCB	"X'10'+READ" READ FCB
PRINTER DEVICE -- SPACING AND CHANNEL MODIFIERS					
	....	..11		IMED	"X'03'" IMMEDIATE COMMAND (FORMS CONTROL)
	....	1...		SPAC1	"X'08'" PRINT WITH 1 SPACE
	...1	....		SPAC2	"X'10'" PRINT WITH 2 SPACES
	...1	1...		SPAC3	"X'18'" PRINT WITH 3 SPACES
	1...	....		SKPCH0	"X'00'+X'80'" SKIP TO CHANNEL 0
	1...	1...		SKPCH1	"X'08'+X'80'" SKIP TO CHANNEL 1
	1..1	....		SKPCH2	"X'10'+X'80'" SKIP TO CHANNEL 2
	1..1	1...		SKPCH3	"X'18'+X'80'" SKIP TO CHANNEL 3
	1.1.	....		SKPCH4	"X'20'+X'80'" SKIP TO CHANNEL 4
	1.1.	1...		SKPCH5	"X'28'+X'80'" SKIP TO CHANNEL 5
	1.11	....		SKPCH6	"X'30'+X'80'" SKIP TO CHANNEL 6
	1.11	1...		SKPCH7	"X'38'+X'80'" SKIP TO CHANNEL 7
	11..	....		SKPCH8	"X'40'+X'80'" SKIP TO CHANNEL 8
	11..	1...		SKPCH9	"X'48'+X'80'" SKIP TO CHANNEL 9
	11.1	....		SKPCH10	"X'50'+X'80'" SKIP TO CHANNEL 10
	11.1	1...		SKPCH11	"X'58'+X'80'" SKIP TO CHANNEL 11
	111.	....		SKPCH12	"X'60'+X'80'" SKIP TO CHANNEL 12
NON-IMPACT PRINTER DEVICE (3800) -- CONTROL COMMANDS					
	..11	.111		INITPRT	"X'34'+CNTRL" INITIALIZE PRINTER
	.1..	.111		SELXTAB0	"X'44'+CNTRL" SELECT TRANSLATE TABLE 0
	.1.1	.111		SELXTAB1	"X'54'+CNTRL" SELECT TRANSLATE TABLE 1
	.11.	.111		SELXTAB2	"X'64'+CNTRL" SELECT TRANSLATE TABLE 2
	.111	.111		SELXTAB3	"X'74'+CNTRL" SELECT TRANSLATE TABLE 3
	1...	.111		CLEARPRT	"X'84'+CNTRL" CLEAR PRINTER
	....	.111		PRTEOT	"X'04'+CNTRL" END-OF-TRANSMISSION
	....	.111		OFFSTACK	"X'04'+CNTRL" OR OFFSET-STACK

Table 49. Structure \$CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .111		MARKFORM	"X'14'+CNTRL" MARK FORM
		.1.1 .11		LOADWCGM	"X'50'+CNTRL" LOAD CHARACTER MODULE
		..1. .11		LDCOPYNO	"X'20'+CNTRL" LOAD COPY NUMBER
		.1.. .11		SETFLASH	"X'40'+CNTRL" LOAD FLASH FRAME
		.1.. .11		SETOVRLY	"X'40'+CNTRL" OR OVERLAY CONTROL SEQ.
NON-IMPACT PRINTER DEVICE (3800) -- SPECAIL WRITE COMMANDS					
		..1. .1.1		LDCHARMD	"X'24'+WRITE" LOAD CHARACTER MODIFICATION
		..11 .1.1		LDCOPYMD	"X'34'+WRITE" LOAD COPY MODIFICATION
MIDA - Modified indirect data addressing mapping NOTE: MIDAWs must start on a quadword boundary					
0	(0)	X'0'	0	MIDAW	"0,16" Midaw definition
EQU 0,5 Reserved					
0	(0)	X'5'	0	MIDAWFLG	"5,1" Flag byte
		1...		MIDAWFLS	"B'10000000'" Last MIDAW
		.1..		MIDAWFSK	"B'01000000'" Skip (read only)
		..1.		MIDAWFIN	"B'00100000'" Data-transfer-interruption
0	(0)	X'6'	0	MIDAWCNT	"6,2" Count of data to transfer
0	(0)	X'8'	0	MIDAWADR	"8,8" Address of data

Table 50. Structure LRPD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LRPD	, Locate rec data area DSECT
0	(0)	BITSTRING	16	LRPARM(0)	Locate record parm list
0	(0)	BITSTRING	1	LRPOPER	Operation byte
		.... ...1		LROWRITE	"X'01'" - Write data
		.... .11		LROFMT	"X'03'" - Format write
		.... .11.		LROREAD	"X'06'" - Read data
		.... 1.11		LROWTRAK	"X'0B'" - Write Track
		.... 11..		LRORTRAK	"X'0C'" - Read Track
1	(1)	BITSTRING	1	LRPAUX	Auxiliary byte
		1...		LRPAXTL	"X'80'" -Use transfer lngth factor
2	(2)	BITSTRING	1		Reserved (must be 0)
3	(3)	BITSTRING	1	LRPNREC	# of records to process
4	(4)	BITSTRING	4	LRPCCHH	(CCHH) Seek address (CCHH)
8	(8)	BITSTRING	5	LRPCCHR1(0)	(CCHHR) Search address
8	(8)	BITSTRING	4	LRPCCHH1	(CCHH) Cylinder and head numbers
12	(C)	BITSTRING	1	LRPREC1	(R) Record number
13	(D)	BITSTRING	1	LRPSECT1	Sector number
14	(E)	BITSTRING	2	LRPTLEN	Transfer length factor
14	(E)	X'10'	0	LRPLEN1	"*-LRPARM" Len of standard data packet

Table 51. Cross Reference for \$CCW

Name	Offset	Hex Tag
\$CCWS	0	
ALWDATAC	0	7B
BLKDATAC	0	73
CC	0	40
CCWADDR	0	1
CCWCMD	0	0
CCWCOUNT	0	6
CCWFLAG	0	4
CCWLEN	0	6
CCWOP	0	0
CCWRESVD	0	5
CCW1ADDR	0	4
CCW1CMD	0	0
CCW1CNT	0	2
CCW1FLAG	0	1
CCW1LEN	0	2
CCW1OP	0	0
CCW1RESV	0	1
CKD	0	1C
CLEARPRT	0	87
CNT	0	10
CNTNU	0	4
CNTRL	0	3
DATA	0	4
DC	0	80
DEFXTNT	0	63
EQ	0	20
FOLDUCS	0	43
GATEUCS	0	EB
HA	0	18
HI	0	40
HIEQ	0	60
ID	0	10
IDA	0	4
IMED	0	3
INITPRT	0	37
IPL	0	0
KD	0	C
KEY	0	8

Table 51. Cross Reference for \$CCW (continued)

Name	Offset	Hex Tag
LDCHARMD	0	25
LDCOPYMD	0	35
LDCOPYNO	0	23
LOADFCB	0	63
LOADUCS	0	FB
LOADUSCF	0	F3
LOADWCGM	0	53
LOCRCO	0	47
LROFMT	0	3
LROREAD	0	6
LRORTRAK	0	C
LROWRITE	0	1
LROWTRAK	0	B
LRPARG	0	
LRPAUX	1	
LRPAXTL	1	80
LRPCCHH	4	
LRPCCHH1	8	
LRPCCHR1	8	
LRPD	0	
LRPLEN1	E	10
LRPNREC	3	
LRPOPER	0	
LRPREC1	C	
LRPSECT1	D	
LRPTLEN	E	
MARKFORM	0	17
MIDA	0	1
MIDAW	0	0
MIDAWADR	0	8
MIDAWCNT	0	6
MIDAWFIN	0	20
MIDAWFLG	0	5
MIDAWFLS	0	80
MIDAWFSK	0	40
MT	0	80
NOP	0	3
OFFSTACK	0	7
ORIENT	0	2B

Table 51. Cross Reference for \$CCW (continued)

Name	Offset	Hex Tag
PCI	0	8
PRINT	0	1
PRTEOT	0	7
PUNCH	0	1
RAISCOVR	0	6B
READ	0	2
READFCB	0	12
READIO	0	6
READPLB	0	2
READTRD	0	A6
READUCS	0	A
RECALIB	0	13
REC0	0	14
RESTORE	0	17
RLSDISK	0	B0
RSVDISK	0	90
SECTOR	0	20
SEEK	0	7
SEEKCYL	0	B
SEEKHD	0	1B
SELXTAB0	0	47
SELXTAB1	0	57
SELXTAB2	0	67
SELXTAB3	0	77
SETFLASH	0	43
SETFMSK	0	1F
SETOVRLY	0	43
SETS	0	23
SETSECTR	0	23
SKIP	0	10
SKPCH0	0	80
SKPCH1	0	88
SKPCH10	0	D0
SKPCH11	0	D8
SKPCH12	0	E0
SKPCH2	0	90
SKPCH3	0	98
SKPCH4	0	A0
SKPCH5	0	A8

Table 51. Cross Reference for \$CCW (continued)

Name	Offset	Hex Tag
SKPCH6	0	B0
SKPCH7	0	B8
SKPCH8	0	C0
SKPCH9	0	C8
SLI	0	20
SNS	0	4
SPACNT	0	F
SPAC1	0	8
SPAC2	0	10
SPAC3	0	18
SRCH	0	1
SUS	0	2
TIC	0	8
UNFLDUCS	0	23
UPDT	0	80
VARYSNS	0	27
WRITE	0	1
WRITEIO	0	5
WRITETRD	0	A5

\$CDCWORK information

\$CDCWORK heading information

Common name: JES2 Cross-member device status PCE work area

Macro ID: \$CDCWORK

DSECT name: PCE (\$CDCWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol CDCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$CDCPCE field of the \$HCT data area
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 CDC Processor and by its support routines and exits. \$CDCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$CDCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECDCID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$CDCWORK mapping

Table 52. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	CHARACTER	16	CDCMBNAM	Mailbox name for dev data
352	(160)	SIGNED	4	CDCXCECB(0)	XECB for XCF posts
376	(178)	ADDRESS	4	CDCXBUFA	Address of current XREQ
380	(17C)	ADDRESS	4	CDCXBUFP	Current data area pointer
384	(180)	SIGNED	4	CDCXBUFL	Current data area length
388	(184)	BITSTRING	8	CDCXTOKN	Current XCF message token
396	(18C)	ADDRESS	4	CDCACKPT	Acknowledgement XREQ ptr
400	(190)	ADDRESS	4	CDCSND BF	Address of send buffer
404	(194)	SIGNED	4	CDCERRCT	ABEND count
408	(198)	BITSTRING	4	CDCMEMUP	Previous member up mask
412	(19C)	BITSTRING	4	CDCCDCUP	Previous CDC up mask
416	(1A0)	BITSTRING	4	CDCWRKAF	Working affinity mask
420	(1A4)	BITSTRING	4	CDCNITAF	Aff mask for NIT updates
424	(1A8)	ADDRESS	4	CDCSHEAD	Head/Tail of
428	(1AC)	ADDRESS	4	CDCSTAIL	synch elements
432	(1B0)	ADDRESS	8	CDCNITCP	Ptr to copy of local CNITs
List form macros for JESXCF services					
440	(1B8)	DBL WORD	8	(0)	
440	(1B8)	BITSTRING	160	CDCIXLST	JESXCF list form macros
600	(258)	DBL WORD	8	CDCIXEND(0)	End of list form area
----- IXZXIXAC MF=(L,CDCXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'1B8'	0	M00M1219	"CDCXIXAC" ++ IXZXIXAC NAME
440	(1B8)	DBL WORD	8	CDCXIXAC(0)	++ IXZXIXAC PARM LIST
440	(1B8)	BITSTRING	1	CDCXIXAC_XVERSION	++ INPUT XVERSION
441	(1B9)	CHARACTER	6	CDCXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
447	(1BF)	BITSTRING	1	CDCXIXAC_XSTB	++ INPUT
		1...		CDCXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD

Table 52. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1...		CDCXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
448	(1C0)	BITSTRING	8	CDCXIXAC_XMSGTOKEN	++ XMSGTOKEN
456	(1C8)	ADDRESS	4	CDCXIXAC_XDATA	++ XDATA
460	(1CC)	SIGNED	4	CDCXIXAC_XDATALEN	++ XDATALEN
464	(1D0)	SIGNED	4	CDCXIXAC_XUSERRC	++ XUSERRC
468	(1D4)	SIGNED	4	CDCXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
472	(1D8)	SIGNED	4	CDCXIXAC_XSYSRC	++ XSYSRC
476	(1DC)	SIGNED	4	CDCXIXAC_XSYSRSN	++ XSYSRSN
480	(1E0)	BITSTRING	1	CDCXIXAC_XKEYS	++ FIELD_LABEL
		1...		CDCXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1...		CDCXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CDCXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CDCXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CDCXIXAC_KEYUSED_SYSRN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
481	(1E1)	BITSTRING	1	CDCXIXAC_XMSGATTR	++ INPUT
		1...		CDCXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1...		CDCXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
481	(1E1)	X'2A'	0	CDCXIXACL	"*-CDCXIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
482	(1E2)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMB MF=(L,CDCXIXMB) Create mailbox MACDATE -93/05/10-<1>					
440	(1B8)	SIGNED	2	M00M1221(0)	IXZXIXMB-1
440	(1B8)	DBL WORD	8	CDCXIXMB(0)	++ IXZXIXMB PARM LIST
440	(1B8)	BITSTRING	1	CDCXIXMB_XVERSION	++ INPUT XVERSION
441	(1B9)	CHARACTER	6	CDCXIXMB_XKEYECATCH	++ CONSTANT XKEYECATCH
447	(1BF)	CHARACTER	1	CDCXIXMB_XRSV0001	++ RESERVED XRSV0001
448	(1C0)	CHARACTER	16	CDCXIXMB_XMBOXNAME	++ XMBOXNAME
464	(1D0)	ADDRESS	4	CDCXIXMB_XPOSTXIT	++ XPOSTXIT
468	(1D4)	ADDRESS	4	CDCXIXMB_XPOSTDATA	++ XPOSTDATA
472	(1D8)	SIGNED	4	CDCXIXMB_XPOSTALET	++ XPOSTALET
476	(1DC)	SIGNED	4	CDCXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
480	(1E0)	BITSTRING	1	CDCXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CDCXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1...		CDCXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
480	(1E0)	X'29'	0	CDCXIXMBL	"*-CDCXIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
482	(1E2)	ADDRESS	2	(0)	Ensure area fits

Table 52. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
----- IXZXIXMD MF=(L,CDCXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
440	(1B8)	SIGNED	2	M00M1222(0)	IXZXIXMD-1
440	(1B8)	DBL WORD	8	CDCXIXMD(0)	++ IXZXIXMD PARM LIST
440	(1B8)	BITSTRING	1	CDCXIXMD_XVERSION	++ INPUT XVERSION
441	(1B9)	CHARACTER	6	CDCXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
447	(1BF)	BITSTRING	1	CDCXIXMD_XSTB	++ INPUT
		1...		CDCXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CDCXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
448	(1C0)	CHARACTER	16	CDCXIXMD_XMBOXNAME	++ XMBOXNAME
464	(1D0)	SIGNED	4	CDCXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
464	(1D0)	X'1C'	0	CDCXIXMDL	"*-CDCXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
468	(1D4)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXRM MF=(L,CDCXIXRM) Receive message MACDATE -93/05/10-<1>					
440	(1B8)	SIGNED	2	M00M1223(0)	IXZXIXRM-1
440	(1B8)	DBL WORD	8	CDCXIXRM(0)	++ IXZXIXRM PARM LIST
440	(1B8)	BITSTRING	1	CDCXIXRM_XVERSION	++ INPUT XVERSION
441	(1B9)	CHARACTER	6	CDCXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
447	(1BF)	CHARACTER	1	CDCXIXRM_XRSV0001	++ RESERVED XRSV0001
448	(1C0)	CHARACTER	16	CDCXIXRM_XMBOXNAME	++ XMBOXNAME
464	(1D0)	ADDRESS	4	CDCXIXRM_XDATA	++ XDATA
468	(1D4)	SIGNED	4	CDCXIXRM_XDATALEN	++ XDATALEN
472	(1D8)	BITSTRING	8	CDCXIXRM_XMSGTOKEN	++ XMSGTOKEN
480	(1E0)	SIGNED	4	CDCXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
484	(1E4)	BITSTRING	1	CDCXIXRM_XMSGFETCH	++ INPUT
		1...		CDCXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CDCXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CDCXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CDCXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
485	(1E5)	BITSTRING	1	CDCXIXRM_XKEYS	++ FIELD_LABEL
		1...		CDCXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
485	(1E5)	X'2E'	0	CDCXIXRML	"*-CDCXIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
486	(1E6)	ADDRESS	2	(0)	Ensure area fits
600	(258)	DBL WORD	8	(0)	Force double-word alignment

Table 52. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
600	(258)	X'108'	0	CDCPCEWS	"*-PCEWORK" Length of work area

Table 53. Structure CDCSYN

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CDCSYN	
0	(0)	ADDRESS	4	CDCSYNNX	Next pointer (\$FIFOENQ)
4	(4)	ADDRESS	4	CDCSYNPR	Prev pointer (\$FIFOENQ)
8	(8)	BITSTRING	1	CDCSYNTY	Type (See CDCTTYPE)
9	(9)	BITSTRING	1	CDCSYNFG	Flags
	1...			CDCSYNFC	"B'10000000'" CREATE the control block
10	(A)	BITSTRING	1	CDCBUSY	Member ID sending request
11	(B)	BITSTRING	1		Reserved
12	(C)	ADDRESS	4	CDCSYNAD	Control block address
16	(10)	ADDRESS	8	CDCSYN64	64 bit control block addr
16	(10)	X'18'	0	CDCSYNLN	"*-CDCSYN" Length of element

Table 54. Cross Reference for \$CDCWORK

Name	Offset	Hex	Tag
CDCACKPT	18C		
CDCBUSY	A		
CDCCDCUP	19C		
CDCERRCT	194		
CDCIXEND	258		
CDCIXLST	1B8		
CDCMBNAM	150	E2E8E2D1	
CDCMEMUP	198		
CDCNITAF	1A4		
CDCNITCP	1B0		
CDCPCEWS	258		108
CDCSHEAD	1A8		
CDCSNDBF	190		
CDCSTAIL	1AC		
CDCSYN	0		
CDCSYNAD	C		
CDCSYNFC	9		80
CDCSYNFG	9		
CDCSYNLN	10		18
CDCSYNNX	0		
CDCSYNPR	4		
CDCSYNTY	8		

Table 54. Cross Reference for \$CDCWORK (continued)

Name	Offset	Hex Tag
CDCSYN64	10	
CDCWRKAF	1A0	
CDCXBUFA	178	
CDCXBUFL	180	
CDCXBUFP	17C	
CDCXCECB	160	
CDCXIXAC	1B8	
CDCXIXAC_KEYUSED_DATA	1E0	80
CDCXIXAC_KEYUSED_DATALEN	1E0	40
CDCXIXAC_KEYUSED_SYSRC	1E0	10
CDCXIXAC_KEYUSED_SYSRSN	1E0	8
CDCXIXAC_KEYUSED_USERRC	1E0	20
CDCXIXAC_XDATA	1C8	
CDCXIXAC_XDATALEN	1CC	
CDCXIXAC_XEYECATCH	1B9	
CDCXIXAC_XGROUPTOKEN	1D4	
CDCXIXAC_XKEYS	1E0	
CDCXIXAC_XMSGATTR	1E1	
CDCXIXAC_XMSGATTR_EXPRESS	1E1	40
CDCXIXAC_XMSGATTR_J3CONNECT	1E1	80
CDCXIXAC_XMSGTOKEN	1C0	
CDCXIXAC_XSTB	1BF	
CDCXIXAC_XSTB_NO	1BF	80
CDCXIXAC_XSTB_YES	1BF	40
CDCXIXAC_XSYSRC	1D8	
CDCXIXAC_XSYSRSN	1DC	
CDCXIXAC_XUSERRC	1D0	
CDCXIXAC_XVERSION	1B8	
CDCXIXACL	1E1	2A
CDCXIXMB	1B8	
CDCXIXMB_XEYECATCH	1B9	
CDCXIXMB_XGROUPTOKEN	1DC	
CDCXIXMB_XMBOXNAME	1C0	
CDCXIXMB_XPOSTALET	1D8	
CDCXIXMB_XPOSTDATA	1D4	
CDCXIXMB_XPOSTXIT	1D0	
CDCXIXMB_XRSV0001	1BF	
CDCXIXMB_XSYSEVENT_NO	1E0	40
CDCXIXMB_XSYSEVENT_YES	1E0	80

Table 54. Cross Reference for \$CDCWORK (continued)

Name	Offset	Hex Tag
CDCXIXMB_XSYSEVENTS	1E0	
CDCXIXMB_XVERSION	1B8	
CDCXIXMBL	1E0	29
CDCXIXMD	1B8	
CDCXIXMD_XEYECATCH	1B9	
CDCXIXMD_XGROUPTOKEN	1D0	
CDCXIXMD_XMBOXNAME	1C0	
CDCXIXMD_XSTB	1BF	
CDCXIXMD_XSTB_NO	1BF	80
CDCXIXMD_XSTB_YES	1BF	40
CDCXIXMD_XVERSION	1B8	
CDCXIXMDL	1D0	1C
CDCXIXRM	1B8	
CDCXIXRM_KEYUSED_MSGFETCH	1E5	80
CDCXIXRM_XDATA	1D0	
CDCXIXRM_XDATALEN	1D4	
CDCXIXRM_XEYECATCH	1B9	
CDCXIXRM_XGROUPTOKEN	1E0	
CDCXIXRM_XKEYS	1E5	
CDCXIXRM_XMBOXNAME	1C0	
CDCXIXRM_XMSGFETCH	1E4	
CDCXIXRM_XMSGFETCH_ACKS	1E4	10
CDCXIXRM_XMSGFETCH_ALL	1E4	80
CDCXIXRM_XMSGFETCH_MESSAGES	1E4	40
CDCXIXRM_XMSGFETCH_SYSEVENT	1E4	20
CDCXIXRM_XMSGTOKEN	1D8	
CDCXIXRM_XRSV0001	1BF	
CDCXIXRM_XVERSION	1B8	
CDCXIXRML	1E5	2E
CDCXTOKN	184	
M00M1219	0	1B8
M00M1221	1B8	
M00M1222	1B8	
M00M1223	1B8	
PCE	0	

\$CHK information

\$CHK programming interface information

\$CHK is a programming interface.

\$CHK heading information

Common name:	JES2 FSI Checkpoint Record
Macro ID:	\$CHK
DSECT name:	CHK
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CHK Offset: CHKID-CHK Length: L'CHKID
Storage attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage below 16 meg line
Size:	See CHKAZLNG
Created by:	HASPPRPU (via \$GETWORK) \$#ALCHK allocated SPOOL space.
Pointed to by:	WRMCHKBF field of the \$WARMWRK data area PPPCHKBF field of the \$PPPWORK data area PSPCKPTB field of the \$PSOWORK data area SPOOL MTTR kept in JOECPADR
Serialization:	Serialized by standard JES2 Main task serialization.
Function:	Maps the data area describing that information needed to understand where a printing or PSO function was when it reached a significant point in logic. This is used to reposition printers when they are resume working on a piece of output.

\$CHK mapping

Table 55. Structure CHKDSECT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CHKDSECT	HASP FSI CKPT RECORD DSECT
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	CHKSTART	"*" START OF DATA WRITTEN TO SPOOL
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
104	(68)	CHARACTER	4	CHKJID	Eyecatcher

Table 55. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
108	(6C)	CHARACTER	8	CHKJNAME	Job name
116	(74)	SIGNED	4	CHKJBNUM	Job number
120	(78)	SIGNED	4	CHKJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	CHKSPLNG	"*-CHKJID"
<pre> %CHKPRO: ; 01 CHANGE ACTIVITY: MVS/SP RELEASE 3 LEVEL 3 (SP1.3.3, JBB1329) \$VC1PXXX=PTM HBB5530 950915 VLC: BCP PTM xxx Ext Classifi \$R04LWLM=WLM HBB6604 970317 J_K2: Misc fixes \$R04P498=WLM HBB6604 970331 J_S1: \$Z05LENF=ENVIRON HBB7708 021003 .: ENF 58 for checkpoints A000000-999999 CREATED FOR MVS 1.3.3 01 NOTES: None %GOTO CHKDCL; </pre>					
128	(80)	DBL WORD	8	(0)	
128	(80)	X'80'	0	IAZCHK	"*,0,C'J'"
128	(80)	X'80'	0	CHK	"IAZCHK,0,C'J'" Alternate DSECT name
128	(80)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
132	(84)	SIGNED	2	CHKLNGTH	CHKPT LENGTH
134	(86)	SIGNED	2		RESERVED
136	(88)	CHARACTER	64	CHKJESWK	TO BE FILLED IN BY JES
200	(C8)	CHARACTER	8	CHKRBA	JES EQUIVALENT OF A RBA
208	(D0)	SIGNED	4	CHKDEV	DEVICE TYPE
212	(D4)	SIGNED	4	CHKMOD	MODEL NUMBER
216	(D8)	SIGNED	4	CHKCOPY	COPY COUNT
220	(DC)	SIGNED	4	CHKTRNC	TRANSMISSION COUNT
224	(E0)	SIGNED	4	CHKREC	LOGICAL RECORD COUNT (FROM SPOOL)
228	(E4)	SIGNED	4	CHKPAGE	PHYSICAL SHEET COUNT
232	(E8)	CHARACTER	8	CHKPROD	PRODUCT THAT CREATED CKPT REC
240	(F0)	SIGNED	4	CHKVER	VERSION OF PRODUCT
244	(F4)	SIGNED	4	CHKRELS	RELEASE OF PRODUCT
248	(F8)	SIGNED	4	CHKMODF	MODIFICATION LEVEL OF PRODUCT
252	(FC)	SIGNED	4	CHKSERV	SERVICE LEVEL OF PRODUCT
252	(FC)	X'80'	0	CHKLEN	"*-CHK"
<p>The following fields overlay the 64 byte CHKJESWK area generated by IAZCHK.</p>					
136	(88)	SIGNED	2	CHKJRCB	OFFSET TO RCB IN BUFFER
138	(8A)	SIGNED	2	CHKPDDB	DISPLACEMENT OF PDDB INTO IOT
140	(8C)	SIGNED	4	CHKPPCT	PDDB PAGE COUNT
144	(90)	SIGNED	4	CHKTLNC	TOTAL JOE LINE COUNT
148	(94)	SIGNED	4	CHKTPCT	TOTAL JOE PAGE COUNT (PHYSICAL)
152	(98)	BITSTRING	4	CHKMTTR_Z11	Data buffer track address (MQTR). Only valid at version CHKVER0.
156	(9C)	BITSTRING	4	CHKIOTTC_Z11	IOT track address (MQTR). (MQTR) Only valid at version CHKVER0.
160	(A0)	BITSTRING	1	CHKCOPYC	CURRENT COPY NUMBER
161	(A1)	BITSTRING	1	CHKBOFF	CURRENT OFFSET INTO TRACKCELL

Table 55. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
162	(A2)	BITSTRING	1	CHKCPYG	CURRENT OFFSET INTO COPY GROUP
163	(A3)	BITSTRING	1	CHKTNDS	TOTAL JOE DATASET COUNT
KEEP NEXT TWO FIELDS TOGETHER FOR \$DU COMMAND					
164	(A4)	SIGNED	4	CHKCRECN	CURRENT RECORD NUMBER
168	(A8)	SIGNED	4	CHKCPAGN	CURRENT PAGE NUMBER
172	(AC)	CHARACTER	12	CHKJOID(0)	JOE ID BLOCK FOR CHK VALIDATION
172	(AC)	CHARACTER	8	CHKJOENM	JOE OUTPUT GROUP NAME(JOENAME)
180	(B4)	CHARACTER	2	CHKJOID1	JOE OUTPUT GROUP ID (JOEID1)
182	(B6)	CHARACTER	2	CHKJOID2	JOE OUTPUT GROUP ID (JOEID2)
184	(B8)	BITSTRING	1		Reserved for future use
185	(B9)	SIGNED	1	CHKVERS	CHK version:
185	(B9)	X'0'	0	CHKVER0	"0" Pre-z/OS 1.12 (MTTRs)
185	(B9)	X'C'	0	CHKVER12	"12" z/OS 1.12+ (MQTRs)
186	(BA)	SIGNED	2	CHKPPHPC	PDDDB PHYSICAL PAGE COUNT
188	(BC)	BITSTRING	6	CHKMQTR	Data buffer track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	BITSTRING	6	CHKIOTTK	IOT track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	X'88'	0	CHKDATA	"CHKJESWK,*-CHKJESWK" CHK DATA AREA
The following fields overlay the 8 byte CHKRBA area generated by IAZCHK.					
200	(C8)	BITSTRING	1		Reserved
201	(C9)	BITSTRING	4	CHKRDATA	Data buffer Track Address (MTTR)
205	(CD)	BITSTRING	3	CHKRBA RN	RECORD NUMBER WITHIN BUFFER
256	(100)	SIGNED	4	(0)	PRESERVE FULL WORD ALIGNMENT
256	(100)	X'100'	0	CHKAZLNG	"*-CHKDSECT" Length of DSECT
FLAG EQUATES FOR \$#CHK MACRO INLINE PARM LIST					
	1... ..			CHK1RD	"B'10000000'" TYPE=READ OPTION \$#CHK MACRO
	.1.. ..			CHK1WR	"B'01000000'" TYPE=WRITE OPTION \$#CHK MACRO
	..1.			CHK1YW	"B'00100000'" WAIT=YES OPTION \$#CHK MACRO
	...1			CHK1NW	"B'00010000'" WAIT=NO OPTION \$#CHK MACRO
	.... 1...			CHK1RS5	"B'00001000'" RESERVED FOR FUTURE USE
	.... .1..			CHK1RS6	"B'00000100'" RESERVED FOR FUTURE USE
	.... ..1.			CHK1RS7	"B'00000010'" RESERVED FOR FUTURE USE
	.... ...1			CHK1RS8	"B'00000001'" RESERVED FOR FUTURE USE
FLAG EQUATES FOR \$#ALCHK MACRO INLINE PARM LIST					
	1... ..			CHK2WRI	"B'10000000'" WR1OT=YES OPTION \$#ALCHK MACRO
	.1.. ..			CHK2WRJ	"B'01000000'" WRJCT=YES OPTION \$#ALCHK MACRO

Table 55. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		CHK2IOT	"B'00100000'" IOT ADDR PASSED TO \$#ALCHK
		...1		CHK2JCT	"B'00010000'" JCT ADDR PASSED TO \$#ALCHK
		.... 1...		CHK2YJL	"B'00001000'" LOCK=YES OPTION \$#ALCHK MACRO
		.... .1..		CHK2QUE	"B'00000100'" Use \$CKPTQUE to update JOE
		.... ..1.		CHK2RS7	"B'00000010'" RESERVED FOR FUTURE USE
		.... ...1		CHK2RS8	"B'00000001'" RESERVED FOR FUTURE USE

Table 56. Cross Reference for \$CHK

Name	Offset	Hex	Tag
CHK	80		80
CHKAZLNG	100		100
CHKB0FF	A1		
CHKCOPY	D8		
CHKCOPYC	A0		
CHKCPAGN	A8		
CHKCPYG	A2		
CHKCRECN	A4		
CHKDATA	C2		88
CHKDEV	D0		
CHKDSECT	0		
CHKID	80		
CHKIOTTTC_Z11	9C		
CHKIOTTK	C2		
CHKJBKEY	78		
CHKJBNUM	74		
CHKJESWK	88		
CHKJID	68		
CHKJNAME	6C		
CHKJOENM	AC		
CHKJOID	AC		
CHKJOID1	B4		
CHKJOID2	B6		
CHKJRCB	88		
CHKLEN	FC		80
CHKLNGTH	84		
CHKMOD	D4		
CHKMODF	F8		
CHKMQTR	BC		

Table 56. Cross Reference for \$CHK (continued)

Name	Offset	Hex Tag
CHKMTTR_Z11	98	
CHKPAGE	E4	
CHKPDDB	8A	
CHKPPCT	8C	
CHKPPHPC	BA	
CHKPROD	E8	
CHKRBA	C8	
CHKRBARN	CD	
CHKRDATA	C9	
CHKREC	E0	
CHKRELS	F4	
CHKSERV	FC	
CHKSPLNG	7C	18
CHKSTART	0	68
CHKTLNC	90	
CHKTND	A3	
CHKTPCT	94	
CHKTRNC	DC	
CHKVER	F0	
CHKVERS	B9	
CHKVER0	B9	0
CHKVER12	B9	C
CHK1NW	100	10
CHK1RD	100	80
CHK1RS5	100	8
CHK1RS6	100	4
CHK1RS7	100	2
CHK1RS8	100	1
CHK1WR	100	40
CHK1YW	100	20
CHK2IOT	100	20
CHK2JCT	100	10
CHK2QUE	100	4
CHK2RS7	100	2
CHK2RS8	100	1
CHK2WRI	100	80
CHK2WRJ	100	40
CHK2YJL	100	8
IAZCHK	80	80

\$CICB information

\$CICB heading information

Common name:	C/I address space control block
Macro ID:	\$CICB
DSECT name:	CICB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CICB Offset: CCBID-CICB Length: L'CCBID
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The \$CICB resides in common storage.
Size:	See CCBLLEN
Created by:	HASPCNVT PCE
Pointed to by:	CCBNEXT field of the \$CICB data area CIPCICB field of the \$CNVWORK data area DCNVCICB field of the \$DTECNV data area CCTCICB field of the \$HCCT data area
Serialization:	Created when a C/I address space is being started. Otherwise it is updated by the C/I address space main task and only updated by it.
Function:	This DSECT maps the CSA data associated with a JES2 C/I address space. It serves as an anchor for all data areas related to the C/I subtasks.

\$CICB mapping

Table 57. Structure CICB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CICB	, JES2 C/I address space CB
0	(0)	CHARACTER	8	CCBID	Eyecatcher
8	(8)	ADDRESS	1	CCBVER	CB version
8	(8)	X'1'	0	CCBVERN	"1" Current version number
9	(9)	SIGNED	1	CCBSEQ	Address space sequence number
10	(A)	BITSTRING	1	CCBSTAT	Status flags for the address
		1...		CCBSTERM	"B'10000000" Terminate address space
		.1...		CCBSEOM	"B'01000000" Address space went through EOM
		..1.		CCBSFAIL	"B'00100000" Addr space start failed
11	(B)	BITSTRING	1	CCBREQS	Requests flags for main task
		1...		CCBRPROC	"B'10000000" Scan for PROCLIBs to process
		.1...		CCBRSUBS	"B'01000000" Scan for subtask work

Table 57. Structure CICB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	CCBNEXT	Next CICB on CCTCCB chain
16	(10)	ADDRESS	4	CCBCIWRK	CI work area in JES2 CI addr space
20	(14)	CHARACTER	8	CCBNAME	Address space name
28	(1C)	CHARACTER	8	CCBPROG	PROG= to run the address space
36	(24)	BITSTRING	8	CCBPRTKN	Token for CSVDYLPA DELETE request
44	(2C)	BITSTRING	24	CCBODA	ASCRE output area (IHAASE0)
68	(44)	SIGNED	4	CCBCECB	Completion ECB (from subtask)
72	(48)	SIGNED	4	CCBWECEB	Work ECB (to subtask)
76	(4C)	ADDRESS	4	CCBCIPRM	Address space CIPARM chain
80	(50)	ADDRESS	4	CCBCIPWR	CIPARM work queue
84	(54)	ADDRESS	4	CCBPAD	PROCLIB PAD to be allocated
88	(58)	DBL WORD	8	(0)	Alignment
88	(58)	X'58'	0	CCBLEN	"*-CICB" Length of work area

Table 58. Cross Reference for \$CICB

Name	Offset	Hex Tag
CCBCECB	44	
CCBCIPRM	4C	
CCBCIPWR	50	
CCBCIWRK	10	
CCBID	0	C3C9C3C2
CCBLEN	58	58
CCBNAME	14	D1C5E2F2
CCBNEXT	C	
CCBODA	2C	
CCBPAD	54	
CCBPROG	1C	C8C1E291
CCBPRTKN	24	
CCBREQS	B	
CCBRPROC	B	80
CCBRSUBS	B	40
CCBSEOM	A	40
CCBSEQ	9	
CCBSFAIL	A	20
CCBSTAT	A	
CCBSTERM	A	80
CCBVER	8	
CCBVERN	8	1
CCBWECEB	48	
CICB	0	

\$CID information

\$CID heading information

Common name:	Connect ID cell
Macro ID:	\$CID
DSECT name:	CID
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CID' Offset: CIDEYE-CID Length: 4
Storage attributes:	Subpool: see CIDPOOL Key: 1 Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of the JES2 address space. In a JES2 NJE Server address sSpace
Size:	See CIDSIZE
Created by:	HASPCON under WTO subtask
Pointed to by:	CSACIDCH field of the \$DTEWTO data area CSACID field of the \$DTEWTO data area
Serialization:	Used by \$HASPWTO subtask only.
Function:	Contains the connect id for a multiline WTO.

\$CID mapping

Table 59. Structure CID

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CID	
0	(0)	CHARACTER	4	CIDEYE	NSCT eyecatcher
4	(4)	ADDRESS	4	CIDNEXT	Chain pointer
8	(8)	ADDRESS	4	CIDPCE	PCE address
12	(C)	SIGNED	4	CIDCONCT	Connect id for MLWTO
16	(10)	BITSTRING	1	CIDFLAG1	Flags
		1...		CID1LONG	"B'10000000'" Consoles truncated MLWTO for being too long
		.1...		CID1TRNC	"B'01000000'" Most recent line was truncated
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	CIDSIZE	"*-CID" Length of data area

Table 60. Cross Reference for \$CID

Name	Offset	Hex Tag
CID	0	
CIDCONCT	C	
CIDEYE	0	C3C9C440

Table 60. Cross Reference for \$CID (continued)

Name	Offset	Hex Tag
CIDFLAG1	10	
CIDNEXT	4	
CIDPCE	8	
CIDSIZE	11	14
CID1LONG	10	80
CID1TRNC	10	40

\$CIPARM information

\$CIPARM heading information

Common name: C/I subtask parm list

Macro ID: \$CIPARM

DSECT name: CIPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: CIPARM
Offset: CIPID-CIPARM
Length: L'CIPID

Storage attributes: Subpool: N/A
Key: 1
Residency: Located in the PAD JES2 \$CPOOL in the PSO data space.

Size: See CIPLN

Created by: HASPCNVT PCE

Pointed to by: CIPCIPA field of the \$CIPARM data area
JPCECIP field of the \$CNVWORK data area
DCNVCIP field of the \$DTECNV data area
CCTCIP field of the \$HCCT data area

Serialization: Fields are access by the CNVT PCE when the C/I subtask is waiting for work and by the C/I subtask while the PCE is waiting for conversion to complete.

Function: This data area is used to pass information about jobs to be processed by C/I from the main task to the C/I subtask (either in the JES2 address space or in a JES2 C/I address space). This area should only be used to pass data not as a generic work area.

\$CIPARM mapping

Table 61. Structure CIPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CIPARM	, JES2 C/I subtask parm list
0	(0)	CHARACTER	8	CIPID	Eyecatcher

Table 61. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	1	CIPVER	CB version
8	(8)	X'1'	0	CIPVERN	"1" Current version number
<p>There are 3 sequence numbers for each subtask, all are zero based. For subtasks in the JES2 address space, only CIPSEQ is set.</p> <p>CIPSEQ - Overall sequence number, corresponds to PCESEQ. Set by PCE.</p> <p>CIPASSEQ - Sequence number of owning JES2CI address space. Corresponds to CCBSEQ. Set by GETJ2CI service when address space is created.</p> <p>CIPSTSEQ - Sequence number of C/I subtask within the JES2CI address space. Set by GETJ2CI service when subtask is created.</p>					
9	(9)	SIGNED	1	CIPSEQ	Converter sequence number
10	(A)	SIGNED	1	CIPASSEQ	Address space sequence number
11	(B)	SIGNED	1	CIPSTSEQ	Subtask sequence number
12	(C)	ADDRESS	4	CIPCIPA	Next CIPARM on CCTCIP chain
16	(10)	ADDRESS	4	CIPPCE	Related PCE address
20	(14)	ADDRESS	4	CIPCICB	CICB for owning address space (zero if JES2 subtask)
24	(18)	ADDRESS	4	CIPCCBNX	Next CIPARM on CICB CCBCIPRM chain
28	(1C)	ADDRESS	4	CIPCCBWR	Next CIPARM on CICB CCBCIPWR chain
32	(20)	ADDRESS	1	CIPWRFUN	Work request
32	(20)	X'1'	0	CIPWRSTR	"1" Subtask start processeing
32	(20)	X'2'	0	CIPWREND	"2" Subtask terminate request
33	(21)	BITSTRING	1		Reserved
34	(22)	BITSTRING	2	CIPASID	Owning CI address space
36	(24)	ADDRESS	4	CIPDTEA	Associated DTE address
40	(28)	BITSTRING	16	CIPTTKN	CI subtask TTKN
56	(38)	ADDRESS	4	CIPWECBA	Work ECB address (PCE->subtask)
60	(3C)	ADDRESS	4	CIPCECBA	Completion ECB addr (subtask->PCE)
64	(40)	BITSTRING	1	CIPFLG1	Serialized flag byte (Update using OIL/NIL only)
	1...			CIP1REO	"B'10000000'" Reopen PROCLIB data set
	.1..			CIP1CPRC	"B'01000000'" Close all PROCLIB DDs
	..1.			CIP1CRTM	"B'00100000'" CALLRTM requested
	...1			CIP1CRDP	"B'00010000'" CALLRTM w DUMP requested
	.... 1...			CIP1SHTD	"B'00001000'" Shutdown subtask request
	.... .1..			CIP1TERM	"B'00000100'" Subtask has terminated
	.... ..1.			CIP1COMP	"B'00000010'" Subtask completed request
65	(41)	BITSTRING	7		Reserved
Parameters passed into subtask					
72	(48)	SIGNED	4	CIPINPST(0)	Start of input area
72	(48)	SIGNED	4	CIPJQEOf	Offset to JQE to process
76	(4C)	ADDRESS	4	CIPJQEA	JQE address (in CKPT)
80	(50)	SIGNED	4	CIPJBKEY	Job key of job to process

Table 61. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	CHARACTER	8	CIPJCLAS	JOBCLASS of the job
92	(5C)	ADDRESS	4	CIPJPAD	PROCLIB PAD address in data space
96	(60)	BITSTRING	1	CIPOFLAG	Option flags
		1... ..		CIPPOINTR	"B'10000000'" Invoke the interpreter after conversion
		.1.. ..		CIPONWAT	"B'01000000'" This is a no wait CNVTR
		..1.		CIPOWEE	"B'00100000'" Wait for Exclusive ENQ
		...1		CIPNOCLS	"B'00010000'" PCE did not find JOBCLASS - subtask must cut proper messages
		.... 1...		CIPOPTRC	"B'00001000'" PCE tracing is active
		.... .1..		CIPDJC	"B'00000100'" Job is associated with a DJC network and is not a logging job. CIPJOBGR contains logging job name.
		.... ..1.		CIPREQUE	"B'00000010'" Job is associated with a JEC job group and is not a logging job. The associated logging was found to be on conversion queue or in process of conversion - Job with schedule card should be re-queued to converter.
		.... ...1		CIPJCNC	"B'00000001'" JES cancel restricted (set by CNVT and updated by CNVS)
97	(61)	BITSTRING	1		Reserved
98	(62)	SIGNED	2	CIPJASID	ASID copied from PCE
100	(64)	BITSTRING	4		Reserved
100	(64)	X'48'	0	CIPINPCL	"CIPINPST,*-CIPINPST" Input area to clear
Assigned PROCLIB addresses					
104	(68)	ADDRESS	4	CIPOPAD	PROCLIB PAD subtask has OPEN
108	(6C)	ADDRESS	4	CIPPAD0	PROC00 PAD address in data space
112	(70)	BITSTRING	4		Reserved
Input/Output fields section - subtask. If CIPOFLAG -> CIPDJC then CIPJOBGR contains Job Group Name. If CIPDJC not on - then CIPJOBGR is an OUTPUT field.					
116	(74)	CHARACTER	8	CIPJOBGR	Job group name
116	(74)	X'74'	0	CIPINOCL	"CIPJOBGR,*-CIPJOBGR" Input/output area to clear
Parameters returned from the subtask					
124	(7C)	SIGNED	4	CIPOUTST(0)	Start of output area
124	(7C)	SIGNED	4	CIPMNBCP	Minimum MVS level for job
128	(80)	CHARACTER	8	CIPPERF	Performance Group for job from //JOB JCL statement (left justified, blank fill)
136	(88)	CHARACTER	16	CIPSCHE	Scheduling environment for job (left justified, blank fill)
152	(98)	BITSTRING	1	CIPSTAT	Status flags
		1... ..		CIPSAOPN	"B'10000000'" ACBs successfully 'fake' opened

Table 61. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1...		CIPSJLSP	"B'01000000'" Set spin eligible in JQA
		..1.		CIPSINTR	"B'00100000'" Job was interpreted
Converter processing return codes in CIPJRETN are displayed in text format in message HASP305. New reason code should be added there.					
153	(99)	BITSTRING	1	CIPJRETN	JES processing return code
153	(99)	X'0'	0	CIPJROK	"0" Processing successful
153	(99)	X'4'	0	CIPJRAER	"4" \$DOGJQE/\$DOGCAT error
153	(99)	X'8'	0	CIPJRIOE	"8" I/O error reading CBs
153	(99)	X'C'	0	CIPJWIOE	"12" I/O error writing CBs
153	(99)	X'10'	0	CIPJROPE	"16" Data set open error
153	(99)	X'14'	0	CIPJEXIT	"20" Exit indicated error
153	(99)	X'18'	0	CIPJABND	"24" Subtask ABEND
153	(99)	X'1C'	0	CIPJBCAN	"28" Job canceled
153	(99)	X'20'	0	CIPJBEGR	"32" Job with same name already exists in job group.
153	(99)	X'24'	0	CIPJBMGR	"36" Valid job group not found (ZOD not found)
153	(99)	X'28'	0	CIPJBNJB	"40" Job not associated with the job group
153	(99)	X'2C'	0	CIPJBJGW	"44" WITH= points to a job in the same job group
153	(99)	X'30'	0	CIPJBCRW	"48" Circular WITH= dependency
153	(99)	X'34'	0	CIPJBCKL	"52" JOBGROUP requires z22
153	(99)	X'38'	0	CIPJJSMT	"56" Error writing JSMT
154	(9A)	BITSTRING	3	CIPFRSN	Fake open failure info
157	(9D)	BITSTRING	1	CIPJFLAG	Job flags for communication between PCE and subtask
		1...		CIPJFSY	"B'10000000'" Subtask captured system symbol table
		.1...		CIPJFIN	"B'01000000'" Job has datasets with symbol substitution
		..1.		CIPJFSTB	"B'00100000'" STARTBY specified (see CIPSTBY)
		...1		CIPJFUNT	"B'00010000'" HOLDUNTLL specified (see CIPUNTLL)
		.... 1...		CIPJFJGR	"B'00001000'" JOBGROUP specified (see CIPJOBGR)
		.... .1..		CIPJFUNU	"B'00000100'" HOLDUNTLL time is in UTC (OFF - local time)
		.... ..1.		CIPJFSTU	"B'00000010'" STARTBY time is in UTC (OFF - local time)
		.... ...1		CIPJFWTH	"B'00000001'" WITH= specified (see CIPWITH)
158	(9E)	BITSTRING	6	CIPUNTLL	HOLDUNTLL timestamp in ETOD format
164	(A4)	BITSTRING	6	CIPSTBY	STARTBY timestamp in ETOD format
172	(AC)	SIGNED	4	CIPJOBID	Logging job ID
176	(B0)	CHARACTER	8	CIPWITH	WITH= job name
184	(B8)	CHARACTER	8	CIPBEFOR	BEFORE= job name
192	(C0)	CHARACTER	8	CIPAFTER	AFTER= job name

Table 61. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
200	(C8)	BITSTRING	1	CIPJFLG2	Job flags for communication between PCE and subtask
		1...		CIPJ2BEF	"B'10000000'" BEFORE= specified (see CIPBEFOR)
		.1..		CIPJ2AFT	"B'01000000'" AFTER= specified (see CIPAFTER)
		..1.		CIPJ2DLY	"B'00100000'" DELAY=YES specified.
		...1		CIPJ2HGR	"B'00010000'" HOLDUNTIL time granularity (see CIPUNTIL) : ON = seconds OFF = minutes
		.... 1...		CIPJ2SCS	"B'00001000'" Subtask set SCHENV
201	(C9)	BITSTRING	3		Reserved
208	(D0)	DBL WORD	8	CIPPRFST(0)	Performance stats for SUBSPERF
208	(D0)	DBL WORD	8	CIPQTIME	C/I queue time (micro)
216	(D8)	DBL WORD	8	CIPRTIME	C/I run time (micro)
224	(E0)	DBL WORD	8	CIPCTIME	C/I CPU time (micro)
Converter processing - HASP305 message text substitution options.					
232	(E8)	BITSTRING	1	CIPSUBOP	HASP305 substitution opt
232	(E8)	X'0'	0	CIPSUBNO	"0" None
232	(E8)	X'4'	0	CIPGRPNM	"4" Display JOBGROUP name
233	(E9)	BITSTRING	3		Reserved
236	(EC)	SIGNED	4	CIPPGMLN	Length of program list
236	(EC)	X'7C'	0	CIPOUTCL	"CIPOUTST,*-CIPOUTST" Output area to clear
240	(F0)	DBL WORD	8	(0)	Alignment
240	(F0)	X'F0'	0	CIPLN	"*-CIPARM" Length of work area
Program list Format of each entry: - 1 byte length - 1 to 8 character PGM name from EXEC PGM=					
240	(F0)	DBL WORD	8	(0)	
240	(F0)	BITSTRING	2304	CIPPGMLS	Start of program list
2544	(9F0)	DBL WORD	8	CIPJCTST(0)	Start of JCT area

Table 62. Cross Reference for \$CIPARM

Name	Offset	Hex Tag
CIPAFTER	C0	
CIPARM	0	
CIPASID	22	
CIPASSEQ	A	
CIPBEFOR	B8	
CIPCCBNX	18	
CIPCCBWR	1C	
CIPCECBA	3C	
CIPCICB	14	

Table 62. Cross Reference for \$CIPARM (continued)

Name	Offset	Hex Tag
CIPCIPA	C	
CIPCTIME	E0	
CIPDJC	60	4
CIPDTEA	24	
CIPFLG1	40	
CIPFRSN	9A	
CIPGRPNM	E8	4
CIPID	0	C3C9D7C1
CIPINOCL	74	74
CIPINPCL	64	48
CIPINPST	48	
CIPJABND	99	18
CIPJASID	62	
CIPJBCAN	99	1C
CIPJBCKL	99	34
CIPJBCRW	99	30
CIPJBEGR	99	20
CIPJBJGW	99	2C
CIPJBKEY	50	
CIPJBMGR	99	24
CIPJBNJB	99	28
CIPJCLAS	54	
CIPJCNCL	60	1
CIPJCTST	9F0	
CIPJEXIT	99	14
CIPJFIN	9D	40
CIPJFJGR	9D	8
CIPJFLAG	9D	
CIPJFLG2	C8	
CIPJFSTB	9D	20
CIPJFSTU	9D	2
CIPJFSY	9D	80
CIPJFUNT	9D	10
CIPJFUNU	9D	4
CIPJFWTH	9D	1
CIPJJSMT	99	38
CIPJOBGR	74	
CIPJOBID	AC	
CIPJPAD	5C	

Table 62. Cross Reference for \$CIPARM (continued)

Name	Offset	Hex Tag
CIPJQEA	4C	
CIPJQE0F	48	
CIPJRAER	99	4
CIPJRETN	99	
CIPJRI0E	99	8
CIPJROK	99	0
CIPJROPE	99	10
CIPJWI0E	99	C
CIPJ2AFT	C8	40
CIPJ2BEF	C8	80
CIPJ2DLY	C8	20
CIPJ2HGR	C8	10
CIPJ2SCS	C8	8
CIPLN	F0	F0
CIPMNBCP	7C	
CIPNOCLS	60	10
CIPOFLAG	60	
CIPOINTR	60	80
CIPONWAT	60	40
CIPOPAD	68	
CIPOPTRC	60	8
CIPOUTCL	EC	7C
CIPOUTST	7C	
CIPOWEE	60	20
CIPPAD0	6C	
CIPPCE	10	
CIPPERF	80	
CIPPGMLN	EC	
CIPPGMLS	F0	
CIPPRFST	D0	
CIPQTIME	D0	
CIPREQUE	60	2
CIPRTIME	D8	
CIPSAOPN	98	80
CIPSCHE	88	
CIPSEQ	9	
CIPSINTR	98	20
CIPSJLSP	98	40
CIPSTAT	98	

Table 62. Cross Reference for \$CIPARM (continued)

Name	Offset	Hex Tag
CIPSTBY	A4	
CIPSTSEQ	B	
CIPSUBNO	E8	0
CIPSUBOP	E8	
CIPTTOKN	28	
CIPUNTL	9E	
CIPVER	8	
CIPVERN	8	1
CIPWECBA	38	
CIPWITH	B0	
CIPWREND	20	2
CIPWRFUN	20	
CIPWRSTR	20	1
CIP1COMP	40	2
CIP1CPRC	40	40
CIP1CRDP	40	10
CIP1CRTM	40	20
CIP1REO	40	80
CIP1SHTD	40	8
CIP1TERM	40	4

\$CIRWORK information

\$CIRWORK programming interface information

The following field is **NOT** programming interface information:

- CIRPRMWR

\$CIRWORK heading information

Common name: JES2 Common Initialization Routines PCE Work Area
Macro ID: \$CIRWORK
DSECT name: PCE (\$CIRWORK is part of the PCE DSECT)
Owning component: JES2 (SC1BH)
Eye-catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

Storage attributes:	Subpool: The subpool of the HASPIRA module Key: 1 Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See symbol CIRWLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	The initialization base PCE along with this work area is assembled into the HASPIRA module, which is contained in the HASPINIT or HASJES20 load module. The base PCE is defined statically using constants and this work area is generated by coding this macro with a DSECT=NO operand.
Pointed to by:	See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	None
Function:	The fields in this work area are used by the JES2 Initialization Processor and by its support routines and exits. \$CIRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$CIRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEINTID in the second byte of field PCEID. The CIR PCE Work Area is used by the Initialization Routines (IR's) for temporary work areas, routine addresses, and various constants and values. Values required by multiple Initialization Routines are kept there.

\$CIRWORK mapping

Table 63. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
GENERAL FLAG BYTES AND FIELDS COMMON TO ALL IRS					
336	(150)	BITSTRING	1	CIRFLAG1	GENERAL USAGE FLAG 1
		1...		CIRF1HPI	"B'10000000'" Current IRPL stmt from PARMLIB
		.1..		CIRF1INC	"B'01000000'" Current IRPL stmt INCLUDED
		..1.		CIRF1CI	"B'00100000'" CURRENT IRPL STMT FROM CONSOLE
		...1		CIRF1XI	"B'00010000'" CURRENT IRPL STMT FROM EXIT 19
		.... 1...		CIRF1PER	"B'00001000'" ERROR(S) IN SOME IRPL STMTS
		.... .1..		CIRF1CAN	"B'00000100'" CANCEL STATEMENT PROCESSED
		.... ..1.		CIRF1SSW	"B'00000010'" SINGLE SYSTEM WARM START

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		CIRF1SER	"B'00000001'" SCAN PROCESSING DIAG ERROR MSG
337	(151)	BITSTRING	1	CIRFLAG2	GENERAL USAGE FLAG 2
		1...		CIRF2JEX	"B'10000000'" JQE extensions rebuilt
		.1..		CIRF2RRD	"B'01000000'" REREAD NECESSARY FOR PARMLIB
		..1.		CIRF2HPO	"B'00100000'" HASPPARM (FIRST) OPEN DONE
		...1		CIRF2CM	"B'00010000'" IRPL IN CONSOLE MODE
		.... 1...		CIRF2ECM	"B'00001000'" IRPL IN 'ERROR' CONSOLE MODE
		.... .1..		CIRF2SSE	"B'00000100'" IRPL, SUPPRESS INITSTMT ERRORS
		.... ..1.		CIRF2CMA	"B'00000010'" ENDING COMMA ON INIT PARM
		.... ...1		CIRF2CMT	"B'00000001'" NON-COMPLETE COMMENT ON INIT PARM
338	(152)	ADDRESS	1	CIRFLAG3	GENERAL USAGE FLAG 3
		1...		CIRF3LST	"B'10000000'" IRPL 'LIST' IN EFFECT
		.1..		CIRF3LOG	"B'01000000'" IRPL 'LOG' IN EFFECT
		..1.		CIRF3MID	"B'00100000'" MSGID NOT SUPPL. IN DIAG TEXT
		...1		CIRF3BDV	"B'00010000'" Bad Verify during patching
		.... 1...		CIRF3I01	"B'00001000'" I/O error on CKPT1
		.... .1..		CIRF3I02	"B'00000100'" I/O error on CKPT2
		.... ..1.		CIRF3VE1	"B'00000010'" Validation error on CKPT1
		.... ...1		CIRF3VE2	"B'00000001'" Validation error on CKPT2
338	(152)	X'F'	0	CIRF3ERR	"CIRF3I01+CIRF3I02+CIRF3VE1+CIRF3VE2" Mask to test for any CKPT errors
338	(152)	X'C'	0	CIRF3I12	"CIRF3I01+CIRF3I02" I/O error on both datasets
338	(152)	X'3'	0	CIRF3V12	"CIRF3VE1+CIRF3VE2" Validation error on both
338	(152)	X'9'	0	CIRF3I1V	"CIRF3I01+CIRF3VE2" I/O error on CKPT1, val. error on CKPT2
338	(152)	X'6'	0	CIRF3V1I	"CIRF3VE1+CIRF3I02" Val. error on CKPT1, I/O error on CKPT2
339	(153)	BITSTRING	1	CIRFLAG4	GENERAL USAGE FLAG 4
		1...		CIRF4ILL	"B'10000000'" INIT LMOD LOADED, NOT HASJES20
		.1..		CIRF4XER	"B'01000000'" ERRORS IN EXIT ROUTINE ADDRS
		..1.		CIRF4SCN	"B'00100000'" \$STMTLOG CALLED FROM NPLDISP
		...1		CIRF4RES	"B'00010000'" EXIT RTN NOT IN CSA/LPA
		.... 1...		CIRF4RER	"B'00001000'" Error in reader route code
		.... .1..		CIRF4CHM	"B'00000100'" Chain current DCT via MDCTDCT
		.... ..1.		CIRF4CHD	"B'00000010'" Chain Current DCT via DCTDCB

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		CIRF4RTE	"B'00000001'" Invalid Route code found
340	(154)	ADDRESS	4	CIRCKPVR	CKPT VER-REP requests
344	(158)	DBL WORD	8	CIRREPLY	WTOR REPLY AREA
352	(160)	DBL WORD	8	CIRDWORK	DOUBLE WORD WORK AREA
360	(168)	ADDRESS	4	CIRHCT	ADDR OF THE HCT
364	(16C)	SIGNED	4	CIRECB	ECB FOR GENERAL INIT USAGE
IROPTS FIELDS REQUIRED THROUGHOUT INITIALIZATION					
368	(170)	ADDRESS	4	CIRWXIT0	"V(HASPXIT0)" HASPXIT0 ADDR IN HASPINIT LMOD
372	(174)	ADDRESS	4	CIREXIT0	HASPXIT0 LOAD MODULE ADDR OR 0
376	(178)	ADDRESS	4	CIROPTPF	ADDR OF THE OS PARM FIELD
380	(17C)	BITSTRING	100	CIROPTS	HASP OPTIONS STRING
INIT fields for Priority aging and jesplex resource thresholds					
480	(1E0)	ADDRESS	2	CIRJQRAT	Priority aging rate
482	(1E2)	ADDRESS	1	CIRJQHI	Job priority aging upper
483	(1E3)	ADDRESS	1	CIRJQLOW	and lower limits
484	(1E4)	ADDRESS	2	CIRJORAT	Output priority aging rate
486	(1E6)	ADDRESS	2	CIRJOHI	Output priority aging upper
488	(1E8)	ADDRESS	2	CIRJOLOW	and lower limits
490	(1EA)	ADDRESS	2	CIRJQPRC	JQE threshold percentage
492	(1EC)	ADDRESS	2	CIRJOPRC	JOE threshold percentage
494	(1EE)	ADDRESS	2	CIRJNPRC	Job num threshold percent
496	(1F0)	ADDRESS	2	CIRTGPRC	Track grp threshold percent
498	(1F2)	ADDRESS	2	CIRBTPRC	BERT threshold percentage
500	(1F4)	ADDRESS	2	CIRZJPRC	ZJC threshold percentage
IRPL GENERAL PROCESSING FIELDS					
504	(1F8)	ADDRESS	4	CIRSTMTW	ADDRESS OF IRPL STMT BUFFER
508	(1FC)	ADDRESS	4	CIRSTMTT	Address of IRPL translated statement buffer
512	(200)	SIGNED	4	CIRSYMBP(0)	Symbol service parm list
524	(20C)	ADDRESS	4		Addr of translated length
536	(218)	ADDRESS	4		Addr of return code
540	(21C)	SIGNED	4	CIRTRANL	Length of translated str.
544	(220)	SIGNED	4	CIRTRANR	RC from translation service
548	(224)	SIGNED	2	CIRSTMTC	CURRENT IRPL STATEMENT COUNT
550	(226)	SIGNED	2	CIRNLLCT	NPLLOG LINE COUNTER (50-1)
552	(228)	SIGNED	2	CIRNLPCT	NPLLOG CURRENT PAGE NUMBER
554	(22A)	BITSTRING	1	CIRIRPL1	Flag used in IRPL
		.1..		CIRP1RSM	"B'01000000'" Resuming previous data set
555	(22B)	BITSTRING	1		Reserved for future use
556	(22C)	SIGNED	4	CIRSDLCT	\$SCAN DISPLAY LINE COUNT

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
560	(230)	ADDRESS	4	CIRX0XRT	ADDR OF XRT FOR EXIT 0
564	(234)	SIGNED	1	CIRX0#RT	# of exit 0 routines
565	(235)	ADDRESS	3		RESERVED FOR FUTURE USE
568	(238)	ADDRESS	4	CIRPLWRK	IRPL 24 bit work area
572	(23C)	SIGNED	4	CIRS99PT(0)	SVC 99 Request Block pointer
576	(240)	BITSTRING	1	CIRS99RB	SVC 99 Request Block
SUBROUTINE ADDRESSES					
596	(254)	ADDRESS	4	CIRNPLLG	"V(NPLLOG)" ADDRESS OF IRPL LOGGING ROUTINE
600	(258)	ADDRESS	4		RESERVED FOR FUTURE USE
604	(25C)	ADDRESS	4		RESERVED For Future Use
608	(260)	ADDRESS	4	CIRNQMSG	"V(NQUERY)" ADDRESS FOR QUERY MESSAGE
612	(264)	ADDRESS	4	CIRNDLAY	"V(NDELAY)" Address for NDELAY routine
DCT PROCESSING FIELDS					
616	(268)	ADDRESS	4	CIRPDCT	PREVIOUS DCT POINTER FOR USE WHEN GENERATING \$DCTPOOL DCTS
620	(26C)	ADDRESS	4	CIRPDCT2	PREVIOUS DCT POINTER FOR USE WHEN GENERATING \$DCTPOL2 DCTS
NDELAY processing fields STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88					
624	(270)	BITSTRING	24	CIRSTIMS	REMOTE STIMERM SET PARM LIST
624	(270)	X'18'	0	CIRSTMSL	"*-CIRSTIMS" Length of parm list
STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88					
648	(288)	BITSTRING	16	CIRSTIMC	REMOTE STIMERM TEST/CANCEL PARM LIST
648	(288)	X'10'	0	CIRSTMCL	"*-CIRSTIMC" Length of parm list
664	(298)	SIGNED	4	CIRNDCHN	Chain of NDELAY elements
664	(298)	X'0'	0	CIRNDEYE	"0,4,C'C'" Eyecatcher
664	(298)	X'4'	0	CIRNDNXT	"4,4,C'A'" Addr of next element
664	(298)	X'8'	0	CIRNDSTI	"8,4,C'F'" STIMERM ID=id-area
664	(298)	X'C'	0	CIRNDMSG	"12,4,C'A'" Addr of message text
664	(298)	X'10'	0	CIRNDDOM	"16,4,C'F'" NDELAY DOM id
664	(298)	X'14'	0	CIRNDLEN	"20" NDELAY element length
672	(2A0)	DBL WORD	8		Reserved for future use
NPLLOG processing fields					
680	(2A8)	CHARACTER	121	CIRNLLNE(0)	NPLLOG output line
680	(2A8)	CHARACTER	1	CIRNLLCC	Carriage control
681	(2A9)	CHARACTER	10	CIRNLLSR	Statement/diagnostic source
694	(2B6)	CHARACTER	5	CIRNLLSH	Statement number text
699	(2BB)	CHARACTER	6	CIRNLLSN	Statement number
699	(2BB)	X'1E'	0	CIRNLLL1	"*-CIRNLLSR" Length of first part of line

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
711	(2C7)	CHARACTER	10		Blanks
721	(2D1)	CHARACTER	80	CIRNLLST	Statement (all or part)
804	(324)	ADDRESS	4	CIRMLTEP	Pointer to MLTE parm list
808	(328)	CHARACTER	48	CIRMLTE	MLTE parm list work area
808	(328)	X'328'	0	CIRCNVWK	"CIRMLTE,16" Edit work area
MISCELLANEOUS FIELDS					
856	(358)	DBL WORD	8	CIRCMTSV	HOLD THE ADDR AND LEN OF STMT CURRENTLY RUNNING IN COMMENT-SCAN
864	(360)	SIGNED	2		Reserved for future use
866	(362)	BITSTRING	1	CIRFLAG5	General usage flag 5
		1...		CIR5HPDD	"B'10000000" Have a PARMLIB DD
		..1.		CIR5DSEQ	"B'00100000" Parmlib Dataset is Seq.
		...1		CIR5HPRM	"B'00010000" HASPPARM specified
		.1..		CIR5QWIK	"B'01000000" Jobqueue or JOT rebuilt
		.... 1...		CIR5DMEM	"B'00001000" Default member specified
		.... .1..		CIR5LPRM	"B'00000100" Logical Parmlib at EOF
		.... ..1.		CIR5BRTE	"B'00000010" BERT errors detected
		.... ...1		CIR5RRTE	"B'00000001" Error building RRT
867	(363)	BITSTRING	1	CIRFLAG6	General usage flag 6
		1...		CIR6DERR	"B'10000000" Device build error
		.1..		CIR6CLSE	"B'01000000" Default job class error
		..1.		CIR6SKZL	"B'00100000" Do not issue z/OS level WTOR when mismatch
		...1		CIR6IRPL	"B'00010000" IRPL routine in control
		.... 1...		CIR6JTVF	"B'00001000" JOT verify/rebuild active
868	(364)	ADDRESS	4	CIRJBMIN	MINIMUM LOCAL JOB NUMBER
872	(368)	ADDRESS	4	CIRJBMAX	MAXIMUM LOCAL JOB NUMBER
872	(368)	X'3C'	0	CIRXEMN	"WPLTXT-WPL+47,2" EXIT NUMBER IN INIT MSG864
872	(368)	X'48'	0	CIRXEMNM	"WPLTXT-WPL+59,8" EXIT ROUTINE NAME IN MSG864
872	(368)	X'39'	0	CIRGEMR	"WPLTXT-WPL+44,10" GETMAIN ERROR MSG REASON
872	(368)	X'3D'	0	CIRINFMR	"WPLTXT-WPL+9+48,45" Reason text in MSG HASP448
876	(36C)	ADDRESS	4	CIRACCTJ	ADDR OF JES2-TO-NET NETACCT ELEMENTS
880	(370)	ADDRESS	4	CIRACCTN	ADDR OF NET-TO-JES2 NETACCT ELEMENTS
884	(374)	CHARACTER	8	CIRCURRC	\$CKVTAB current value for \$HASP496 message
892	(37C)	CHARACTER	8	CIRPREVC	\$CKVTAB previous value for \$HASP496 message
The TSUCLASS, STCCCLASS and JOBCCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions must be updated if the corresponding data definition in the converter parameter list is changed.					
900	(384)	CHARACTER	24	CIRROPSL	TSUCLASS DEFAULTS
924	(39C)	CHARACTER	24	CIRROPST	STCCCLASS DEFAULTS

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
948	(3B4)	CHARACTER	24	CIRROPSU	JOBCLASS DEFAULTS
972	(3CC)	SIGNED	2		RESERVED FOR FUTURE USE
976	(3D0)	ADDRESS	4	CIRVOLTb	ADDR OF VOLUME ALLOCATION TABLE
980	(3D4)	ADDRESS	4	CIRCMTb	ADDR OF 1ST TEMP COMMAND AREA
984	(3D8)	ADDRESS	4	CIRTSTOR	ADDR OF TEMPORARY STORAGE
988	(3DC)	ADDRESS	4	CIRTDCbS	ADDR OF PERMANENT DCT STORAGE
992	(3E0)	SIGNED	4	CIRBSCLC	COUNT OF UNIT=nnn LINES
996	(3E4)	SIGNED	4	CIRSNA LC	COUNT OF UNIT=SNA LINES
1000	(3E8)	SIGNED	4	CIRTCLC	COUNT OF UNIT=TCP LINES
1004	(3EC)	ADDRESS	4	CIRZIP	ZAPJOB ZIP chain
1008	(3F0)	ADDRESS	4	CIRBTGFA	ADDR OF FIRST BTG TABLE ENTRY
1012	(3F4)	ADDRESS	4	CIRBTGLA	ADDR OF LAST BTG TABLE ENTRY
1016	(3F8)	BITSTRING	0	CIRSPT(0)	SMF IDs for CPU 1-32
1144	(478)	SIGNED	4	CIRX0PS(0)	PARAMETER LIST FOR EXIT 0
1144	(478)	ADDRESS	4	CIROPTA	ADDR OF OPTIONS (OS OR WTOR)
1148	(47C)	ADDRESS	4	CIROPTL	LENGTH OF OPTIONS (OS OR WTOR)
1152	(480)	ADDRESS	4	CIRDOMID	\$\$\$WTO DOM ID
1156	(484)	ADDRESS	4	CIRCNECT	WTO CONNECT message number
1160	(488)	CHARACTER	8	CIRIQNAM	ENQ queue/resource name,
1168	(490)	CHARACTER	8	CIRIRNAM	used for most of init time
1176	(498)	ADDRESS	2		Reserved for future use
1178	(49A)	SIGNED	2	CIRLNENM	Number of lines with dedicated sub-devices
1180	(49C)	SIGNED	4	CIRNUMJT	Total number of NJTs
1184	(4A0)	SIGNED	4	CIRNUMJR	Total number of NJRs
1188	(4A4)	SIGNED	4	CIRNUMST	Total number of NSTs
1192	(4A8)	SIGNED	4	CIRNUMSR	Total number of NSRs
1196	(4AC)	SIGNED	4	CIRN3800	Number of 3800 printers
1200	(4B0)	SIGNED	4	CIRNFSSP	Number of printers in FSS mode
1204	(4B4)	SIGNED	4	CIRNTCLF	Number of FSS printer with TRKCELL=YES
1208	(4B8)	SIGNED	4	CIRNTCLP	Number of printer with TRKCELL=YES
1212	(4BC)	ADDRESS	4	CIRRGRLS	RGDC list from init deck
Fields used by the init deck checker					
1216	(4C0)	SIGNED	4	CIRIJBNF	Free job numbers (JNTFRcnt)
1220	(4C4)	SIGNED	4	CIRILCMN	Local min job # (JNTLCMIN)
1224	(4C8)	SIGNED	4	CIRILCMX	Local max job # (JNTLCMAX)
1228	(4CC)	SIGNED	4	CIRIJ0EF	Free JOE count (JOTFREC)
1232	(4D0)	SIGNED	4	CIRIBRTF	Free BERT count (BRTPFNUM)
1236	(4D4)	SIGNED	4	CIRITGF	Free TG count (\$TGFREEB) (on active volumes)
1240	(4D8)	SIGNED	4	CIRITGIU	In use TG count (on all non-mapped vols)
1244	(4DC)	ADDRESS	4	CIRJQECT	JQE usage count table
1248	(4E0)	ADDRESS	4	CIRJ0ECT	JOE usage count table
1252	(4E4)	ADDRESS	4	CIRZJCCT	ZJC usage count table

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1256	(4E8)	ADDRESS	4	CIRBRTCT	BERT usage count table
1260	(4EC)	ADDRESS	4	CIRTGCT	TG usage count table
1264	(4F0)	ADDRESS	4	CIRJBNTB	Job number setting table
1268	(4F4)	ADDRESS	4	CIRRSUTB	Recommended setting table
1272	(4F8)	ADDRESS	4	CIRCLGRP	Temp CLASS GROUP chain
1276	(4FC)	SIGNED	4	CIRBLDM(0)	Control block ID
1280	(500)	BITSTRING	4		Console ID
1284	(504)	ADDRESS	4		Address of the CART
1288	(508)	ADDRESS	4		Pointer for JOBID
1292	(50C)	ADDRESS	4		Control block address
1296	(510)	ADDRESS	4		Display routine address
1300	(514)	ADDRESS	4	(6)	6 word work area
1324	(52C)	ADDRESS	4		Caller's R11 value
1328	(530)	BITSTRING	2		ROUT code for Message
1330	(532)	BITSTRING	2		Not used
1332	(534)	CHARACTER	4		Message ID
1336	(538)	CHARACTER	1		Separator character
1337	(539)	ADDRESS	1		Flag byte 1
1338	(53A)	ADDRESS	1		'DISPER'
1339	(53B)	ADDRESS	1		Flag byte 2
1340	(53C)	ADDRESS	1		Flag byte 3
1341	(53D)	ADDRESS	1		Severity of message
1342	(53E)	CHARACTER	8		Symbolic name of dest.
1350	(546)	BITSTRING	14		Not used
1364	(554)	ADDRESS	4	(0)	Ensure multiple of 4
1364	(554)	ADDRESS	2	(0)	
1364	(554)	CHARACTER	300	CIRMMWORK	Message building work area
1664	(680)	DBL WORD	8	(0)	Ensure double alignment
General work area for short-term usage by IRs					
1664	(680)	BITSTRING	1	CIRGWORK	General work area
First mapping of CIRGWORK used by IROPTS					
1664	(680)	BITSTRING	2	CIRSCMLN	Scan message length
1666	(682)	CHARACTER	80	CIRSCMSG	Scan message text
1746	(6D2)	BITSTRING	2		Reserved
1748	(6D4)	SIGNED	4	CIRRUB(0)	HASP.\$EXIT0 parameters
1748	(6D4)	BITSTRING	2		Regs to set (0,1,11,13)
1750	(6D6)	BITSTRING	2		Unused, must be 0
1752	(6D8)	SIGNED	4	CIRRUBR0	R0 on entry to HASP.\$EXIT0
1756	(6DC)	SIGNED	4	CIRRUBR1	R1 on entry to HASP.\$EXIT0
1760	(6E0)	SIGNED	4	CIRRUBRB	R11 on entry to HASP.\$EXIT0
1764	(6E4)	SIGNED	4	CIRRUBRD	R13 on entry to HASP.\$EXIT0
1768	(6E8)	DBL WORD	8	CIRNXTOK	NEXTTOKEN value
1776	(6F0)	CHARACTER	8	CIRX0RNM	Name of last routine

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1784	(6F8)	BITSTRING	32	CIRCSRET	Return parameters, enough for one routine.
1816	(718)	ADDRESS	4	CIRANSA	Address of CSVDYNEX LIST answer area
1820	(71C)	SIGNED	4	CIRANSAL	Length of answer area MACDATE -03/02/17-<1>
0	(0)	X'720'	0	M00M1242	"CIREXDYN" ++ CSVDYNEX NAME
1824	(720)	DBL WORD	8	CIREXDYN(0)	++ CSVDYNEX PARM LIST
1824	(720)	BITSTRING	1	CIREXDYN_XVERSION	++ INPUT XVERSION
1825	(721)	BITSTRING	1	CIREXDYN_XREQUEST	++ XREQUEST
1825	(721)	X'0'	0	CIREXDYN_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1825	(721)	X'1'	0	CIREXDYN_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1825	(721)	X'2'	0	CIREXDYN_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1825	(721)	X'3'	0	CIREXDYN_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1825	(721)	X'4'	0	CIREXDYN_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1825	(721)	X'5'	0	CIREXDYN_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1825	(721)	X'6'	0	CIREXDYN_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1825	(721)	X'7'	0	CIREXDYN_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1825	(721)	X'8'	0	CIREXDYN_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1825	(721)	X'9'	0	CIREXDYN_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1825	(721)	X'A'	0	CIREXDYN_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1825	(721)	X'B'	0	CIREXDYN_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1825	(721)	X'C'	0	CIREXDYN_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1826	(722)	BITSTRING	1	CIREXDYN_XFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIREXDYN_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIREXDYN_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIREXDYN_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIREXDYN_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIREXDYN_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIREXDYN_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		.... ...1		CIREXDYN_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1827	(723)	BITSTRING	1	CIREXDYN_XAMODE	++ XAMODE
1827	(723)	X'0'	0	CIREXDYN_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1827	(723)	X'1'	0	CIREXDYN_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1827	(723)	X'2'	0	CIREXDYN_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1828	(724)	SIGNED	4	CIREXDYN_XKEY	++
1832	(728)	BITSTRING	1	CIREXDYN_XFLAGS2	++ FIELD_LABEL
		1...		CIREXDYN_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIREXDYN_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		CIREXDYN_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIREXDYN_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD
		.... 1...		CIREXDYN_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIREXDYN_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIREXDYN_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		.... ...1		CIREXDYN_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1833	(729)	BITSTRING	1	CIREXDYN_XFLAGS3	++ FIELD_LABEL
		1...		CIREXDYN_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIREXDYN_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIREXDYN_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIREXDYN_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIREXDYN_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIREXDYN_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIREXDYN_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		.... ...1		CIREXDYN_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1834	(72A)	BITSTRING	1	CIREXDYN_XPOS	++ XPOS
1834	(72A)	X'0'	0	CIREXDYN_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1834	(72A)	X'1'	0	CIREXDYN_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1834	(72A)	X'2'	0	CIREXDYN_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1834	(72A)	X'3'	0	CIREXDYN_XPOS_KEEPPFIRST	"3" ++ XPOS.KEEPPFIRST KEYWORD
1834	(72A)	X'4'	0	CIREXDYN_XPOS_KEEPLAST	"4" ++ XPOS.KEEPLAST KEYWORD
1834	(72A)	X'5'	0	CIREXDYN_XPOS_CONDFIRST	"5" ++ XPOS.CONDFIRST KEYWORD
1834	(72A)	X'6'	0	CIREXDYN_XPOS_CONDLAST	"6" ++ XPOS.CONDLAST KEYWORD
1835	(72B)	BITSTRING	1	CIREXDYN_XEXAAVER	++ XEXAAVER
1835	(72B)	X'0'	0	CIREXDYN_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1835	(72B)	X'1'	0	CIREXDYN_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1835	(72B)	X'2'	0	CIREXDYN_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1835	(72B)	X'3'	0	CIREXDYN_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1836	(72C)	CHARACTER	3	CIREXDYN_XRSV0002	++ RESERVED
1839	(72F)	BITSTRING	1	CIREXDYN_XFLAGS5	++ FIELD_LABEL
		1...		CIREXDYN_XPOSCOND_YES	"B'10000000'" ++ XPOSCOND.YES KEYWORD
1840	(730)	CHARACTER	16	CIREXDYN_XEXITNAME	++
1856	(740)	CHARACTER	8	CIREXDYN_XMODNAME	++
1864	(748)	ADDRESS	4	CIREXDYN_XCMDINFO_ADDR	++ ADDR
1868	(74C)	SIGNED	4	CIREXDYN_XABENDNUM	++
1872	(750)	SIGNED	4	CIREXDYN_XRCTO	++
1876	(754)	SIGNED	4	CIREXDYN_XRCFROM	++
1880	(758)	SIGNED	4	CIREXDYN_XKEEPRC	++

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1884	(75C)	BITSTRING	1	CIREXDYN_XKEEPRCCOMP	++ XKEEPRCCOMP
1884	(75C)	X'0'	0	CIREXDYN_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1884	(75C)	X'1'	0	CIREXDYN_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1884	(75C)	X'2'	0	CIREXDYN_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1884	(75C)	X'3'	0	CIREXDYN_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1884	(75C)	X'4'	0	CIREXDYN_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1884	(75C)	X'5'	0	CIREXDYN_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1885	(75D)	BITSTRING	1	CIREXDYN_XRCCOMPARE	++ XRCCOMPARE
1885	(75D)	X'0'	0	CIREXDYN_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1885	(75D)	X'1'	0	CIREXDYN_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1885	(75D)	X'2'	0	CIREXDYN_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1885	(75D)	X'3'	0	CIREXDYN_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1885	(75D)	X'4'	0	CIREXDYN_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1885	(75D)	X'5'	0	CIREXDYN_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1886	(75E)	BITSTRING	1	CIREXDYN_XFLAGS4	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIREXDYN_XEXITYPE_INSTALLATION	"B'01000000'" ++ XEXITYPE.INSTALLATION KEYWORD
		..1.		CIREXDYN_XEXITYPE_PROGRAM	"B'00100000'" ++ XEXITYPE.PROGRAM KEYWORD
		...1		CIREXDYN_XEXITYPE_NOTPROGRAM	"B'00010000'" ++ XEXITYPE.NOTPROGRAM KEYWORD
		.... 1...		CIREXDYN_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... .1..		CIREXDYN_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIREXDYN_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD
		.... ...1		CIREXDYN_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1887	(75F)	BITSTRING	1	CIREXDYN_XEXRETVER	++ XEXRETVER
1887	(75F)	X'0'	0	CIREXDYN_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1887	(75F)	X'1'	0	CIREXDYN_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1888	(760)	SIGNED	4	CIREXDYN_XCALLSTOPRC	++
1892	(764)	CHARACTER	44	CIREXDYN_XRSVNNNN	++ RESERVED
1892	(764)	X'790'	0	CIREXDYN_PL_END	"*" ++ END OF BASE PLIST
1832	(728)	BITSTRING	1	CIREXDYN_XFLAGS2DF	++ FIELD_LABEL
		.1..		CIREXDYN_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1868	(74C)	SIGNED	4	CIREXDYN_XADDABENDNUM	++
1884	(75C)	BITSTRING	1	CIREXDYN_XKEEPRCCVAL	++
1885	(75D)	BITSTRING	1	CIREXDYN_XRCCVAL	++
1892	(764)	ADDRESS	4	CIREXDYN_XWORKAREA_ADDR	++ ADDR
1896	(768)	ADDRESS	4	CIREXDYN_XRETAREA_ADDR	++ ADDR

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1900	(76C)	SIGNED	4	CIREXDYN_XRETAREA_ALET	++ ALET
1904	(770)	SIGNED	4	CIREXDYN_XRETLEN	++
1908	(774)	ADDRESS	4	CIREXDYN_XRUB_ADDR	++ ADDR
1912	(778)	SIGNED	4	CIREXDYN_XRUB_ALET	++ ALET
1916	(77C)	CHARACTER	8	CIREXDYN_XNEXTTOKEN	++
1924	(784)	ADDRESS	4	CIREXDYN_XSDWA_ADDR	++ ADDR
1928	(788)	ADDRESS	4	CIREXDYN_XPRECALLWA_ADDR	++ ADDR
1892	(764)	ADDRESS	4	CIREXDYN_XANSAREA_ADDR	++ ADDR
1896	(768)	SIGNED	4	CIREXDYN_XANSAREA_ALET	++ ALET
1900	(76C)	SIGNED	4	CIREXDYN_XANSLEN	++
1892	(764)	ADDRESS	4	CIREXDYN_XPRECALLADDR	++
1892	(764)	ADDRESS	4	CIREXDYN_XDSNAME_ADDR	++ ADDR
1896	(768)	SIGNED	4	CIREXDYN_XDSNAME_ALET	++ ALET
1900	(76C)	CHARACTER	8	CIREXDYN_XJOBNAME	++
1908	(774)	ADDRESS	4	CIREXDYN_XMODADDR	++
1912	(778)	CHARACTER	8	CIREXDYN_XPARAM	++
1920	(780)	CHARACTER	8	CIREXDYN_XSERVICEMASK	++
1928	(788)	BITSTRING	1	CIREXDYN_XAMRFLAGS	++ FIELD_LABEL
	1...			CIREXDYN_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
	.1...			CIREXDYN_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1929	(789)	CHARACTER	3	CIREXDYN_XRSV0003	++ RESERVED
1900	(76C)	CHARACTER	8	CIREXDYN_XSTOKEN	++
1920	(780)	CHARACTER	8	CIREXDYN_XSERVICEMASKM	++
1928	(788)	BITSTRING	1	CIREXDYN_XAMRFLAGSM	++ FIELD_LABEL
	1...			CIREXDYN_KEYUSED_SERVICEMASKM	"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1920	(780)	CHARACTER	8	CIREXDYN_XSERVICEMASKR	++
1928	(788)	BITSTRING	1	CIREXDYN_XAMRFLAGSR	++ FIELD_LABEL
	1...			CIREXDYN_KEYUSED_SERVICEMASKR	"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1936	(790)	X'70'	0	CIREXDYNL	"*-CIREXDYN" ++ LENGTH OF PLIST
CSVDYNEX-1					
1936	(790)	DBL WORD	8	CIRXAREA(0)	CSVDYNEX WORKAREA= area
2448	(990)	SIGNED	4	CIRX0SAV(18)	CSVDYNEX FASTPATH save area
2448	(990)	X'358'	0	CIRGW1LN	"*-CIRGWORK" Length of first mapping
Second mapping of CIRGWORK used by IRPL and IRSETUP					
1664	(680)	SIGNED	4	CIRX19PS(0)	PARAMETER LIST FOR EXIT 19
1664	(680)	ADDRESS	4	CIRSTMTA	IRPL PARM STATEMENT ADDR
1668	(684)	ADDRESS	4	CIRSTMTL	IRPL PARM STATEMENT LEN
1672	(688)	ADDRESS	4	CIRINSSA	EXIT 19 INSERT STATEMENT ADDR

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1676	(68C)	ADDRESS	4	CIRINSSL	EXIT 19 INSERT STATEMENT LEN
1680	(690)	ADDRESS	1	CIRSWARN	\$SCAN WARNING MASK
1681	(691)	ADDRESS	3		RESERVED FOR FUTURE USE
1684	(694)	ADDRESS	4	CIRPRDCB	Original PARMLIB DCB
1688	(698)	ADDRESS	4	CIRPRMWR	Alt PARMLIB work areas
1692	(69C)	ADDRESS	4	CIRLPARM	Logical parmlib Readbuf adr
1696	(6A0)	SIGNED	4	CIRLRCNT	Logical dataset rec counter
Fields used to save the current PARMLIB data set name.					
1700	(6A4)	BITSTRING	204	CIRIPRW	Init PRW data area
1904	(770)	ADDRESS	4	CIRIDSNE	Current INIDSNE address -1 ind no free slots
1908	(774)	ADDRESS	4	CIRCOND5	Console INIDSNE address
UCBLOOK MF=(L,CIRUCLK) MACDATE -03/18/08-<3>					
0	(0)	X'778'	0	M00M1244	"CIRUCLK" ++ UCBLOOK NAME
1912	(778)	DBL WORD	8	CIRUCLK(0)	++ UCBLOOK PARM LIST
1912	(778)	BITSTRING	1	CIRUCLK_XVERSION	++ INPUT XVERSION
1913	(779)	BITSTRING	1	CIRUCLK_XSCHSET	++
1914	(77A)	BITSTRING	2	CIRUCLK_XDEVN	++
1916	(77C)	CHARACTER	4	CIRUCLK_XDEVNCHAR	++
1920	(780)	CHARACTER	6	CIRUCLK_XVOLSER	++
1926	(786)	BITSTRING	1	CIRUCLK_XDEVCLASS	++ XDEVCLASS
1926	(786)	X'0'	0	CIRUCLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1926	(786)	X'1'	0	CIRUCLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1926	(786)	X'2'	0	CIRUCLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1927	(787)	BITSTRING	1	CIRUCLK_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1928	(788)	ADDRESS	4	CIRUCLK_XUCBPTR	++
1932	(78C)	CHARACTER	5	CIRUCLK_XCOMPID	++
1937	(791)	BITSTRING	1	CIRUCLK_XMASK	++ FIELD_LABEL
		1...		CIRUCLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		.... ...1		CIRUCLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1938	(792)	BITSTRING	1	CIRUCLK_XFLAGS	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... 1...		CIRUCLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		.... ...1		CIRUCLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1939	(793)	BITSTRING	1	CIRUCLK_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBXPTR KEYWORD
		..1.		CIRUCLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		CIRUCLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1940	(794)	ADDRESS	4	CIRUCLK_XTEXT_ADDR	++ ADDR
1944	(798)	SIGNED	4	CIRUCLK_XTEXT_ALET	++ ALET
1948	(79C)	CHARACTER	8	CIRUCLK_XPTOKEN	++
1956	(7A4)	CHARACTER	8	CIRUCLK_XHELP	++
1964	(7AC)	ADDRESS	4	CIRUCLK_XIOCTOKEN_ADDR	++ ADDR
1968	(7B0)	SIGNED	4	CIRUCLK_XIOCTOKEN_ALET	++ ALET
1972	(7B4)	ADDRESS	4	CIRUCLK_XUCBPAREA_ADDR	++ ADDR
1976	(7B8)	SIGNED	4	CIRUCLK_XUCBPAREA_ALET	++ ALET
1980	(7BC)	ADDRESS	4	CIRUCLK_XUCBCXPTR	++
1984	(7C0)	ADDRESS	4	CIRUCLK_XUCBPXPTR	++
1988	(7C4)	CHARACTER	5	CIRUCLK_XLDEVNCHAR	++
1993	(7C9)	CHARACTER	3	CIRUCLK_XRESERVED1	++ FIELD_LABEL
1993	(7C9)	X'54'	0	CIRUCLKL	"*-CIRUCLK" ++ LENGTH OF PLIST
UCBLOOK-3					
0	(0)	X'14C'	0	CIRGW2LN	"*-CIRGWORK" Length of second mapping
Third mapping of CIRGWORK used by IRPOSTPL					
1664	(680)	X'0'	0	CIRGW3LN	"*-CIRGWORK" Length of third mapping
Fourth mapping of CIRGWORK used by IRDA					
1664	(680)	SIGNED	4	CIRJQENC	\$CKVTAB cur number of JQEs
1668	(684)	SIGNED	4	CIRJQENP	\$CKVTAB prev number of JQEs
1672	(688)	ADDRESS	4	CIRSPLF	FIRST SPL IN WORK CHAIN
1676	(68C)	ADDRESS	4	CIRSPLL	LAST SPL IN WORK CHAIN
1680	(690)	ADDRESS	4	CIRMSTRS	ADDR OF MSTR REC SAVE AREA
1684	(694)	ADDRESS	4	CIRTOTA	ADDR OF TEMP TRACK-1 TABLE
1688	(698)	ADDRESS	4	CIRTVECT	Addr of DAS temp vector
1692	(69C)	ADDRESS	4	CIRCURDS	CKG ADDRESS OF CURRENT DS
1696	(6A0)	ADDRESS	4	CIRALTDS	CKG address of other DS
1700	(6A4)	ADDRESS	4		Reserved
1704	(6A8)	ADDRESS	4	CIRCTENT	CTENT table used by IRDA
1708	(6AC)	ADDRESS	4	CIRCTEND	End of CTENT table

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1712	(6B0)	SIGNED	4	CIRCOUNT	LOCK RETRY COUNT
1716	(6B4)	SIGNED	2	CIRCLREC	SIZE OF CHLOG FROM INIT
1718	(6B6)	BITSTRING	1	CIRIRDA2	IRDA flags 2
CIRIRDA2 bit definitions					
		1...		CIRCKVWR	"B'10000000'" Init deck error encountered
		.1..		CIRCKVER	"B'01000000'" Only a warning is needed
		..1.		CIRCKVTM	"B'00100000'" Terminating error detected
1719	(6B7)	BITSTRING	1		Reserved
1720	(6B8)	DBL WORD	8	(0)	Force work alignment
1720	(6B8)	BITSTRING	16	CIRCTUSR(0)	CTRACE userdata
1720	(6B8)	ADDRESS	8	CIRCTBUF	Addr of data area
1728	(6C0)	ADDRESS	4	CIRCTBLN	Length of data area
1732	(6C4)	SIGNED	2	CIRCTASI	Address space id of data
1734	(6C6)	BITSTRING	2		Reserved
1736	(6C8)	CHARACTER	8	CIRCTNAM	CTRACE component name
1744	(6D0)	BITSTRING	1		Reserved
1745	(6D1)	BITSTRING	1	CIRIRDAF	IRDA ERROR SWITCH
CIRIRDAF BIT DEFINITIONS					
		1...		CIRWMER	"B'10000000'" SPL VOL ERROR DURING WARM START
		.1..		CIREXPRF	"B'01000000'" EXTRA VOLUMES WITH SPOOL PREFIX
		..1.		CIRMAXQT	"B'00100000'" MAX VOLUMES, OPERATOR SAID QUIT
		...1		CIRSPLGE	"B'00010000'" EXTENT TOO LARGE FOR TRCK GRPS
		.... 1...		CIRCLGSZ	"B'00001000'" LOG SIZE MUST BE CALCULATED
1746	(6D2)	BITSTRING	1	CIRIRDA1	IRDA FLAG BYTE
CIRIRDA1 BIT DEFINITIONS					
		1...		CIRMSGIS	"B'10000000'" HASP488 MESSAGE ISSUED
		.1..		CIRFWDDS	"B'01000000'" A FORWARDED DATASET FOUND
		..1.		CIRDONFW	"B'00100000'" FORWARDED DS PROC DONE
		...1		CIRFFWD	"B'00010000'" A DS HAS BEEN FORWARDED
		.... 1...		CIRCHIUS	"B'00001000'" INUSE INDICATOR HAS CHANGED
		.... .1..		CIRI460	"B'00000100'" HASP460 was issued
		.... ..1.		CIRI416	"B'00000010'" Need to issue HASP416
		.... ...1		CIRNODAT	"B'00000001'" CKPT data not useable
1747	(6D3)	BITSTRING	1	CIRPARMF	PARAMETER FLAG BYTE
1748	(6D4)	SIGNED	4	CIRPARML(0)	GENERIC PARM LIST
1748	(6D4)	SIGNED	4	CIRPARM1	PARM 1

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1752	(6D8)	SIGNED	4	CIRPARM2	PARM 2
1756	(6DC)	SIGNED	4	CIRPARM3	PARM 3
1760	(6E0)	SIGNED	4	CIRPARM4	PARM 4
1764	(6E4)	SIGNED	4	CIRPARM5	PARM 5
1768	(6E8)	SIGNED	4	CIRPARM6	PARM 6
1768	(6E8)	X'6D3'	0	CIRPARMS	"CIRPARMF,*-CIRPARMF" FULL PARAMETER LIST
1772	(6EC)	SIGNED	4	CIRFWCNT	COUNT FORWARDED DATA SET
1776	(6F0)	CHARACTER	72	CIRCKPT1	CKPT1 SPEC SAVE AREA
1848	(738)	CHARACTER	72	CIRCKPT2	CKPT2 SPEC SAVE AREA
1920	(780)	CHARACTER	144	CIRCHFES	CURRENT STATE OF CKPT ALOC
2064	(810)	BITSTRING	4	CIRIDMEM	'In-Doubt' members mask
2068	(814)	ADDRESS	4	CIRM791W	CBADDR for HASP791 message
2072	(818)	SIGNED	4	CIRECBLS(0)	List of ECBs to wait on
2072	(818)	ADDRESS	4	CIRECBA1	Pointer to ECB 1
2076	(81C)	ADDRESS	4	CIRECBA2	Pointer to ECB 2
2080	(820)	SIGNED	4	CIRECB1	1st ECB
2084	(824)	SIGNED	4	CIRECB2	2nd ECB
2088	(828)	DBL WORD	8	CIRIRDMF(0)	MF=L work areas
CTRACE PLISTVER=1,MF=L CTRACE parameter list MACDATE -12/01/22-<3>					
0	(0)	X'828'	0	M00M1245	"CIRCTLST" ++ CTRACE NAME
2088	(828)	DBL WORD	8	CIRCTLST(0)	++ CTRACE PARM LIST
2088	(828)	BITSTRING	1	CIRCTLST_XVERSION	++ INPUT XVERSION
2089	(829)	CHARACTER	3	CIRCTLST_XRSV0000	++ RESERVED
2092	(82C)	SIGNED	4	CIRCTLST_XSERVICE	++ XSERVICE
2092	(82C)	X'1'	0	CIRCTLST_DEFINE	"1" ++ XSERVICE.DEFINE KEYWORD
2092	(82C)	X'2'	0	CIRCTLST_DELETE	"2" ++ XSERVICE.DELETE KEYWORD
2096	(830)	CHARACTER	8	CIRCTLST_XNAME	++
2104	(838)	CHARACTER	8	CIRCTLST_XSTARTNAM	++
2112	(840)	CHARACTER	8	CIRCTLST_XFMTTAB	++
2120	(848)	BITSTRING	1	CIRCTLST_XFLG1	++ FIELD_LABEL
	1...			CIRCTLST_XASIDS_YES	"B'10000000'" ++ XASIDS.YES KEYWORD
	.1..			CIRCTLST_XBUFFER_YES	"B'01000000'" ++ XBUFFER.YES KEYWORD
	..1.			CIRCTLST_XJOBS_YES	"B'00100000'" ++ XJOBS.YES KEYWORD
	...1			CIRCTLST_KEYUSED_MINOPS	"B'00010000'" ++ KEYUSED.MINOPS KEYWORD
	.... 1...			CIRCTLST_XMOD_YES	"B'00001000'" ++ XMOD.YES KEYWORD
	.... .1..			CIRCTLST_XBUFDEFIN_YES	"B'00000100'" ++ XBUFDEFIN.YES KEYWORD
	.... ..1.			CIRCTLST_XWTR_YES	"B'00000010'" ++ XWTR.YES KEYWORD
	.... ...1			CIRCTLST_XMNFMSG_NO	"B'00000001'" ++ XMNFMSG.NO KEYWORD
2121	(849)	BITSTRING	1	CIRCTLST_XFLG2	++ FIELD_LABEL
	1...			CIRCTLST_XLIKEHEAD_YES	"B'10000000'" ++ XLIKEHEAD.YES KEYWORD
	.1..			CIRCTLST_XHEAD_YES	"B'01000000'" ++ XHEAD.YES KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CIRCTLST_XHEADOPTS_YES	"B'00100000'" ++ XHEADOPTS.YES KEYWORD
		...1		CIRCTLST_XMANYSUBS_YES	"B'00010000'" ++ XMANYSUBS.YES KEYWORD
		.... 1...		CIRCTLST_XWTRMODE_PAGEABLE	"B'00001000'" ++ XWTRMODE.PAGEABLE KEYWORD
		.... .1..		CIRCTLST_XWTRMODE_DREF	"B'00000100'" ++ XWTRMODE.DREF KEYWORD
		.... ..1.		CIRCTLST_XWTRMODE_FIXED	"B'00000010'" ++ XWTRMODE.FIXED KEYWORD
		.... ...1		CIRCTLST_XON_NOTMIN	"B'00000001'" ++ XON.NOTMIN KEYWORD
2122	(84A)	BITSTRING	1	CIRCTLST_XFLG3	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_SUB	"B'10000000'" ++ KEYUSED.SUB KEYWORD
		.1..		CIRCTLST_KEYUSED_PARM	"B'01000000'" ++ KEYUSED.PARM KEYWORD
		..1.		CIRCTLST_KEYUSED_BUFMIN	"B'00100000'" ++ KEYUSED.BUFMIN KEYWORD
		...1		CIRCTLST_KEYUSED_BUFMAX	"B'00010000'" ++ KEYUSED.BUFMAX KEYWORD
		.... 1...		CIRCTLST_KEYUSED_BUFDFLT	"B'00001000'" ++ KEYUSED.BUFDFLT KEYWORD
		.... .1..		CIRCTLST_KEYUSED_SSRC	"B'00000100'" ++ KEYUSED.SSRC KEYWORD
		.... ..1.		CIRCTLST_KEYUSED_SSR SNC	"B'00000010'" ++ KEYUSED.SSR SNC KEYWORD
		.... ...1		CIRCTLST_KEYUSED_IFNOSUBS	"B'00000001'" ++ KEYUSED.IFNOSUBS KEYWORD
2123	(84B)	BITSTRING	1	CIRCTLST_XFLG4	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_USERDATA	"B'10000000'" ++ KEYUSED.USERDATA KEYWORD
2124	(84C)	ADDRESS	4	CIRCTLST_XLNKPARM	++ FIELD_LABEL
2128	(850)	ADDRESS	4	CIRCTLST_XMINOPS_ADDR	++ ADDR
2132	(854)	BITSTRING	2	CIRCTLST_XMINOPS_LEN	++ FIELD_LABEL
2134	(856)	CHARACTER	16	CIRCTLST_XUSERDATA	++
2150	(866)	CHARACTER	2	CIRCTLST_XRVS0002	++ FIELD_LABEL
2152	(868)	SIGNED	4	CIRCTLST_XBUFMIN	++
2156	(86C)	SIGNED	4	CIRCTLST_XBUFMAX	++
2160	(870)	SIGNED	4	CIRCTLST_XBUFDFLT	++
2164	(874)	ADDRESS	4	CIRCTLST_XSUB_ADDR	++ ADDR
2168	(878)	BITSTRING	2	CIRCTLST_XSUB_LEN	++ FIELD_LABEL
2170	(87A)	CHARACTER	2	CIRCTLST_XRVS0003	++ FIELD_LABEL
2172	(87C)	CHARACTER	8	CIRCTLST_XPARM	++
2180	(884)	SIGNED	4	CIRCTLST_XSSRC	++
2184	(888)	SIGNED	4	CIRCTLST_XSSR SNC	++
2184	(888)	X'88C'	0	CIRCTLST_PL_END	"*" ++ END OF BASE PLIST
2184	(888)	X'64'	0	CIRCTLSTL	"*-CIRCTLST" ++ LENGTH OF PLIST
CTRACE-3					
IARV64 PLISTVER=MAX,MF=L CTRACE parameter list MACDATE -02/08/21-<6>					
0	(0)	X'828'	0	M00M1246	"CIRIARV" ++ IARV64 NAME

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2088	(828)	DBL WORD	8	CIRIARV(0)	++ IARV64 PARM LIST
2088	(828)	BITSTRING	1	CIRIARV_XVERSION	++ INPUT XVERSION
2089	(829)	BITSTRING	1	CIRIARV_XREQUEST	++ XREQUEST
2089	(829)	X'1'	0	CIRIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2089	(829)	X'2'	0	CIRIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2089	(829)	X'3'	0	CIRIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2089	(829)	X'4'	0	CIRIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2089	(829)	X'5'	0	CIRIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2089	(829)	X'6'	0	CIRIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2089	(829)	X'7'	0	CIRIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
2089	(829)	X'8'	0	CIRIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2089	(829)	X'9'	0	CIRIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2089	(829)	X'A'	0	CIRIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2089	(829)	X'B'	0	CIRIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2089	(829)	X'C'	0	CIRIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2089	(829)	X'D'	0	CIRIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2089	(829)	X'E'	0	CIRIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2089	(829)	X'F'	0	CIRIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2089	(829)	X'10'	0	CIRIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2089	(829)	X'11'	0	CIRIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2089	(829)	X'12'	0	CIRIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2089	(829)	X'13'	0	CIRIARV_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
2090	(82A)	BITSTRING	1	CIRIARV_XFLAGS0	++ FIELD_LABEL
		1...		CIRIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CIRIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CIRIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2091	(82B)	BITSTRING	1	CIRIARV_XKEY	++
2092	(82C)	BITSTRING	1	CIRIARV_XFLAGS1	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CIRIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CIRIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CIRIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CIRIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CIRIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		CIRIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2093	(82D)	BITSTRING	1	CIRIARV_XFLAGS2	++ FIELD_LABEL
		1...		CIRIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CIRIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CIRIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CIRIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CIRIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CIRIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CIRIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		.... ...1		CIRIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2094	(82E)	BITSTRING	1	CIRIARV_XFLAGS3	++ FIELD_LABEL
		1...		CIRIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CIRIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CIRIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		CIRIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CIRIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CIRIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CIRIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		CIRIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2095	(82F)	BITSTRING	1	CIRIARV_XFLAGS4	++ FIELD_LABEL
		1...		CIRIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CIRIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CIRIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CIRIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CIRIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		CIRIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CIRIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		CIRIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2096	(830)	DBL WORD	8	CIRIARV_XSEGMENTS	++
2104	(838)	CHARACTER	16	CIRIARV_XTOKEN	++
2120	(848)	DBL WORD	8	CIRIARV_XUSERTKN	++
2128	(850)	ADDRESS	8	CIRIARV_XORIGIN	++
2136	(858)	ADDRESS	8	CIRIARV_XRANGLIST	++
2144	(860)	ADDRESS	8	CIRIARV_XMEMOBJSTART	++
2152	(868)	SIGNED	4	CIRIARV_XGUARDSIZE	++
2156	(86C)	SIGNED	4	CIRIARV_XCONVERTSIZE	++
2160	(870)	SIGNED	4	CIRIARV_XALETVALUE	++
2164	(874)	SIGNED	4	CIRIARV_XNUMRANGE	++
2168	(878)	ADDRESS	4	CIRIARV_XV64LISTPTR	++
2172	(87C)	SIGNED	4	CIRIARV_XV64LISTLENGTH	++
2176	(880)	DBL WORD	8	CIRIARV_XCONVERTSTART	++
2184	(888)	DBL WORD	8	CIRIARV_XCONVERTSIZE64	++
2192	(890)	DBL WORD	8	CIRIARV_XGUARDSIZE64	++
2200	(898)	CHARACTER	8	CIRIARV_XUSERTOKEN	++
2208	(8A0)	BITSTRING	1	CIRIARV_XDUMPPRIORITY	++
2209	(8A1)	BITSTRING	1	CIRIARV_XFLAGS5	++ FIELD_LABEL
		1...		CIRIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CIRIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CIRIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CIRIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CIRIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CIRIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CIRIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		CIRIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2210	(8A2)	BITSTRING	1	CIRIARV_XFLAGS6	++ FIELD_LABEL
		1...		CIRIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CIRIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CIRIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CIRIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CIRIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CIRIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CIRIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		CIRIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2211	(8A3)	BITSTRING	1	CIRIARV_XFLAGS7	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CIRIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CIRIARV_KEYUSED_SVCUMPRGN	"B'00100000'" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		CIRIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CIRIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CIRIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CIRIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		CIRIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2212	(8A4)	BITSTRING	1	CIRIARV_XDUMP	++ XDUMP
2212	(8A4)	X'0'	0	CIRIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
2212	(8A4)	X'1'	0	CIRIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2212	(8A4)	X'2'	0	CIRIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2212	(8A4)	X'3'	0	CIRIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2212	(8A4)	X'20'	0	CIRIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2212	(8A4)	X'21'	0	CIRIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2212	(8A4)	X'FF'	0	CIRIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2213	(8A5)	BITSTRING	1	CIRIARV_XFLAGS8	++ FIELD_LABEL
		1...		CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CIRIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		CIRIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		CIRIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		CIRIARV_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		CIRIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		CIRIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		CIRIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2214	(8A6)	BITSTRING	2	CIRIARV_XOWNERASID	++
2216	(8A8)	BITSTRING	1	CIRIARV_XOPTIONVALUE	++
2217	(8A9)	CHARACTER	8	CIRIARV_XRSV0001	++ RESERVED

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2225	(8B1)	CHARACTER	8	CIRIARV_XOWNERJOBNAME	++
2233	(8B9)	CHARACTER	7	CIRIARV_XRSV0004	++ RESERVED
2240	(8C0)	ADDRESS	8	CIRIARV_XMAPAGETABLE	++
2248	(8C8)	DBL WORD	8	CIRIARV_XUNITS	++
2256	(8D0)	BITSTRING	1	CIRIARV_XFLAGS9	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CIRIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CIRIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CIRIARV_XPAGEFRAME_SIZE_1M	"B'00010000'" ++ XPAGEFRAME_SIZE.1M KEYWORD
		.... 1..		CIRIARV_XPAGEFRAME_SIZE_2G	"B'00001000'" ++ XPAGEFRAME_SIZE.2G KEYWORD
		.... .1..		CIRIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2257	(8D1)	BITSTRING	1	CIRIARV_XFLAGS10	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		CIRIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		CIRIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		CIRIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
2258	(8D2)	BITSTRING	1	CIRIARV_XFLAGS11	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1..		CIRIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		CIRIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
2259	(8D3)	CHARACTER	5	CIRIARV_XRSV0005	++ RESERVED
2259	(8D3)	X'8D8'	0	CIRIARV_PL_END	"*" ++ END OF BASE PLIST
2120	(848)	DBL WORD	8	CIRIARV_XOUTMOTKN	++
2120	(848)	DBL WORD	8	CIRIARV_XMOTKN	++
2144	(860)	ADDRESS	8	CIRIARV_XINORIGIN	++
2144	(860)	ADDRESS	8	CIRIARV_XINADDR	++
2264	(8D8)	X'B0'	0	CIRIARV_L	"*-CIRIARV" ++ LENGTH OF PLIST
IARV64-6					
IARVSERV MF=(L,CIRDVSRV) List form of IARVSERV macro MACDATE -10/21/22-<0>					
0	(0)	X'828'	0	M00M1247	"CIRDVSRV" ++ IARVSERV NAME
2088	(828)	DBL WORD	8	CIRDVSRV(0)	++ IARVSERV PARM LIST
2088	(828)	BITSTRING	1	CIRDVSRV_XVERSION	++ INPUT XVERSION
2089	(829)	BITSTRING	1	CIRDVSRV_XSERVICE	++ XSERVICE
2089	(829)	X'1'	0	CIRDVSRV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
2089	(829)	X'2'	0	CIRDVSRV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
2089	(829)	X'3'	0	CIRDVSRV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2089	(829)	X'4'	0	CIRDVSRV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
2089	(829)	X'5'	0	CIRDVSRV_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
2089	(829)	X'6'	0	CIRDVSRV_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
2089	(829)	X'7'	0	CIRDVSRV_CHANGEACCESS64	"7" ++ XSERVICE.CHANGEACCESS64 KEYWORD
2090	(82A)	BITSTRING	1	CIRDVSRV_XFLAGS1	++ FIELD_LABEL
		1...		CIRDVSRV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		CIRDVSRV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CIRDVSRV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CIRDVSRV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CIRDVSRV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CIRDVSRV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CIRDVSRV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		.... ...1		CIRDVSRV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
2091	(82B)	BITSTRING	1	CIRDVSRV_XFLAGS2	++ FIELD_LABEL
		1...		CIRDVSRV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		CIRDVSRV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		CIRDVSRV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		CIRDVSRV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		CIRDVSRV_XSINGLESPACE_YES	"B'00001000'" ++ XSINGLESPACE.YES KEYWORD
		.... .1..		CIRDVSRV_XUNAUTHVIEW_YES	"B'00000100'" ++ XUNAUTHVIEW.YES KEYWORD
2092	(82C)	SIGNED	4	CIRDVSRV_XNUMRANGE	++
2096	(830)	ADDRESS	4	CIRDVSRV_XRANGLIST	++
2096	(830)	X'834'	0	CIRDVSRV_PL_END	"*" ++ END OF BASE PLIST
2096	(830)	ADDRESS	4	CIRDVSRV_XRANGLIST64	++
2100	(834)	X'C'	0	CIRDVSRVL	"*-CIRDVSRV" ++ LENGTH OF PLIST
IARVSRV-0					
UCBLOOK MF=(L,CIRUCBL) MACDATE -03/18/08-<3>					
0	(0)	X'828'	0	M00M1248	"CIRUCBL" ++ UCBLOOK NAME
2088	(828)	DBL WORD	8	CIRUCBL(0)	++ UCBLOOK PARM LIST
2088	(828)	BITSTRING	1	CIRUCBL_XVERSION	++ INPUT XVERSION
2089	(829)	BITSTRING	1	CIRUCBL_XSCHSET	++

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2090	(82A)	BITSTRING	2	CIRUCBL_XDEVN	++
2092	(82C)	CHARACTER	4	CIRUCBL_XDEVNCHAR	++
2096	(830)	CHARACTER	6	CIRUCBL_XVOLSER	++
2102	(836)	BITSTRING	1	CIRUCBL_XDEVCLASS	++ XDEVCLASS
2102	(836)	X'0'	0	CIRUCBL_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
2102	(836)	X'1'	0	CIRUCBL_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
2102	(836)	X'2'	0	CIRUCBL_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
2103	(837)	BITSTRING	1	CIRUCBL_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCBL_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
2104	(838)	ADDRESS	4	CIRUCBL_XUCBPTR	++
2108	(83C)	CHARACTER	5	CIRUCBL_XCOMPID	++
2113	(841)	BITSTRING	1	CIRUCBL_XMASK	++ FIELD_LABEL
		1...		CIRUCBL_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCBL_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCBL_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCBL_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCBL_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		.... ...1		CIRUCBL_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
2114	(842)	BITSTRING	1	CIRUCBL_XFLAGS	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCBL_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCBL_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCBL_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		CIRUCBL_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCBL_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCBL_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		.... ...1		CIRUCBL_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
2115	(843)	BITSTRING	1	CIRUCBL_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCBL_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBXPTR KEYWORD
		..1.		CIRUCBL_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		CIRUCBL_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
2116	(844)	ADDRESS	4	CIRUCBL_XTEXT_ADDR	++ ADDR
2120	(848)	SIGNED	4	CIRUCBL_XTEXT_ALET	++ ALET
2124	(84C)	CHARACTER	8	CIRUCBL_XPTOKEN	++
2132	(854)	CHARACTER	8	CIRUCBL_XHELP	++
2140	(85C)	ADDRESS	4	CIRUCBL_XIOCTOKEN_ADDR	++ ADDR
2144	(860)	SIGNED	4	CIRUCBL_XIOCTOKEN_ALET	++ ALET
2148	(864)	ADDRESS	4	CIRUCBL_XUCBPAREA_ADDR	++ ADDR

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2152	(868)	SIGNED	4	CIRUCBL_XUCBPAREA_ALET	++ ALET
2156	(86C)	ADDRESS	4	CIRUCBL_XUCBCXPTR	++
2160	(870)	ADDRESS	4	CIRUCBL_XUCBPXPTR	++
2164	(874)	CHARACTER	5	CIRUCBL_XLDEVNCHAR	++
2169	(879)	CHARACTER	3	CIRUCBL_XRESERVED1	++ FIELD_LABEL
2169	(879)	X'54'	0	CIRUCBL	"*-CIRUCBL" ++ LENGTH OF PLIST
UCBLOOK-3					
2264	(8D8)	ADDRESS	2	(0)	Ensure that
2264	(8D8)	ADDRESS	2	(0)	CIRIARVL is
2264	(8D8)	ADDRESS	2	(0)	longest MF=L area
2264	(8D8)	X'258'	0	CIRGW4LN	"*-CIRGWORK" Length of fourth mapping
Fifth mapping of CIRGWORK used by IRURDEV					
CIRCAPU IOSCAPU MF=(L,CIRCAPU) IOSCAPU parm list MACDATE -01/22/01-<1>					
0	(0)	X'680'	0	M00M1249	"CIRCAPU" ++ IOSCAPU NAME
1664	(680)	DBL WORD	8	CIRCAPU(0)	++ IOSCAPU PARM LIST
1664	(680)	BITSTRING	1	CIRCAPU_XVERSION	++ INPUT XVERSION
1665	(681)	BITSTRING	1	CIRCAPU_XFLAGS1	++ FIELD_LABEL
	1... ..			CIRCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
	.1.. ..			CIRCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
	..1.			CIRCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
	...1			CIRCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
	.... 1...			CIRCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
	.... .1..			CIRCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1666	(682)	CHARACTER	2	CIRCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1668	(684)	ADDRESS	4	CIRCAPU_XUCBPTR	++ XUCBPTR
1672	(688)	ADDRESS	4	CIRCAPU_XCAPTPTR	++ XCAPTPTR
1676	(68C)	CHARACTER	1	CIRCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1677	(68D)	BITSTRING	1	CIRCAPU_XMASK	++ FIELD_LABEL
	1... ..			CIRCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
	.1.. ..			CIRCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
	..1.			CIRCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
	...1			CIRCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1678	(68E)	BITSTRING	2	CIRCAPU_XASID	++ XASID
1680	(690)	CHARACTER	16	CIRCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1680	(690)	X'20'	0	CIRCAPUL	"*-CIRCAPU" ++ LENGTH OF PLIST
IOSCAPU-1					
0	(0)	X'20'	0	CIRGW5LN	"*-CIRGWORK" Length of fifth mapping

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Sixth mapping of CIRGWORK used by IRMVS					
1664	(680)	ADDRESS	4	CIRSJLSP	SJF LOCAL STORAGE POINTER
1668	(684)	ADDRESS	4	CIRSJPTR	SWB SJF POINTER
1672	(688)	BITSTRING	256	CIRSJEXP	SJF EXTRACT PARAMETER LIST
1928	(788)	CHARACTER	32	CIRFPTX	FOOTPRINT AREA FOR \$GKINIT
1960	(7A8)	SIGNED	1	CIRFPLN	FOOTPRINT LENGTH
1961	(7A9)	CHARACTER	5	CIRRSV1	Reserved for future use
1966	(7AE)	BITSTRING	2	CIRXASID	JES2AUX ASID
1968	(7B0)	SIGNED	8	CIRASSIZ	ASDS/ARTABL size (segments)
1976	(7B8)	SIGNED	8	CIRASGRD	ASDS/ARTABL guard size
1984	(7C0)	ADDRESS	8	CIRASPTR	ASDS/ARTABL object start
IARV64 PLISTVER=MAX,MF=L ASDS parameter list MACDATE -02/08/21-<6>					
0	(0)	X'7C8'	0	M00M1250	"CIRASI64" ++ IARV64 NAME
1992	(7C8)	DBL WORD	8	CIRASI64(0)	++ IARV64 PARM LIST
1992	(7C8)	BITSTRING	1	CIRASI64_XVERSION	++ INPUT XVERSION
1993	(7C9)	BITSTRING	1	CIRASI64_XREQUEST	++ XREQUEST
1993	(7C9)	X'1'	0	CIRASI64_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
1993	(7C9)	X'2'	0	CIRASI64_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
1993	(7C9)	X'3'	0	CIRASI64_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
1993	(7C9)	X'4'	0	CIRASI64_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
1993	(7C9)	X'5'	0	CIRASI64_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
1993	(7C9)	X'6'	0	CIRASI64_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
1993	(7C9)	X'7'	0	CIRASI64_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
1993	(7C9)	X'8'	0	CIRASI64_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
1993	(7C9)	X'9'	0	CIRASI64_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
1993	(7C9)	X'A'	0	CIRASI64_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
1993	(7C9)	X'B'	0	CIRASI64_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
1993	(7C9)	X'C'	0	CIRASI64_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
1993	(7C9)	X'D'	0	CIRASI64_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
1993	(7C9)	X'E'	0	CIRASI64_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
1993	(7C9)	X'F'	0	CIRASI64_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
1993	(7C9)	X'10'	0	CIRASI64_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
1993	(7C9)	X'11'	0	CIRASI64_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
1993	(7C9)	X'12'	0	CIRASI64_XREQUEST_PCIEUNFIX	

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"18" ++ XREQUEST.PCIEUNFIX KEYWORD
1993	(7C9)	X'13'	0	CIRASI64_XREQUEST_CHANGEATTRIBUTE	
					"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
1994	(7CA)	BITSTRING	1	CIRASI64_XFLAGS0	++ FIELD_LABEL
		1... ..		CIRASI64_XMOTKNSOURCE_SYSTEM	
					"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1.. ..		CIRASI64_XMOTKNCREATOR_SYSTEM	
					"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CIRASI64_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
1995	(7CB)	BITSTRING	1	CIRASI64_XKEY	++
1996	(7CC)	BITSTRING	1	CIRASI64_XFLAGS1	++ FIELD_LABEL
		1... ..		CIRASI64_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CIRASI64_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CIRASI64_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CIRASI64_KEYUSED_CONVERTSTART	
					"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CIRASI64_KEYUSED_GUARDSIZE64	
					"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CIRASI64_KEYUSED_CONVERTSIZE64	
					"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CIRASI64_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		CIRASI64_KEYUSED_OWNERJOBNAME	
					"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
1997	(7CD)	BITSTRING	1	CIRASI64_XFLAGS2	++ FIELD_LABEL
		1... ..		CIRASI64_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CIRASI64_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CIRASI64_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CIRASI64_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CIRASI64_XCHANGEACCESS_GLOBAL	
					"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CIRASI64_XPAGEFRAME_SIZE_1MEG	
					"B'00000100'" ++ XPAGEFRAME_SIZE.1MEG KEYWORD
		.... ..1.		CIRASI64_XPAGEFRAME_SIZE_MAX	
					"B'00000010'" ++ XPAGEFRAME_SIZE.MAX KEYWORD
		.... ...1		CIRASI64_XPAGEFRAME_SIZE_ALL	

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'00000001'" ++ XPAGEFRAME SIZE.ALL KEYWORD
1998	(7CE)	BITSTRING	1	CIRASI64_XFLAGS3	++ FIELD_LABEL
		1...		CIRASI64_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CIRASI64_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CIRASI64_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		CIRASI64_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CIRASI64_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CIRASI64_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CIRASI64_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		CIRASI64_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
1999	(7CF)	BITSTRING	1	CIRASI64_XFLAGS4	++ FIELD_LABEL
		1...		CIRASI64_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CIRASI64_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CIRASI64_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CIRASI64_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CIRASI64_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CIRASI64_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CIRASI64_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		CIRASI64_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2000	(7D0)	DBL WORD	8	CIRASI64_XSEGMENTS	++
2008	(7D8)	CHARACTER	16	CIRASI64_XTTOKEN	++
2024	(7E8)	DBL WORD	8	CIRASI64_XUSERTKN	++
2032	(7F0)	ADDRESS	8	CIRASI64_XORIGIN	++
2040	(7F8)	ADDRESS	8	CIRASI64_XRANGLIST	++
2048	(800)	ADDRESS	8	CIRASI64_XMEMOBJSTART	++
2056	(808)	SIGNED	4	CIRASI64_XGUARDSIZE	++
2060	(80C)	SIGNED	4	CIRASI64_XCONVERTSIZE	++
2064	(810)	SIGNED	4	CIRASI64_XALETVALUE	++
2068	(814)	SIGNED	4	CIRASI64_XNUMRANGE	++
2072	(818)	ADDRESS	4	CIRASI64_XV64LISTPTR	++
2076	(81C)	SIGNED	4	CIRASI64_XV64LISTLENGTH	++
2080	(820)	DBL WORD	8	CIRASI64_XCONVERTSTART	++
2088	(828)	DBL WORD	8	CIRASI64_XCONVERTSIZE64	++
2096	(830)	DBL WORD	8	CIRASI64_XGUARDSIZE64	++
2104	(838)	CHARACTER	8	CIRASI64_XUSERTOKEN	++
2112	(840)	BITSTRING	1	CIRASI64_XDUMPPRIORITY	++
2113	(841)	BITSTRING	1	CIRASI64_XFLAGS5	++ FIELD_LABEL

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		CIRASI64_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CIRASI64_XORDER_DUMPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CIRASI64_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CIRASI64_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CIRASI64_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CIRASI64_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CIRASI64_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		CIRASI64_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2114	(842)	BITSTRING	1	CIRASI64_XFLAGS6	++ FIELD_LABEL
		1...		CIRASI64_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CIRASI64_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CIRASI64_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CIRASI64_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CIRASI64_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CIRASI64_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CIRASI64_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		CIRASI64_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2115	(843)	BITSTRING	1	CIRASI64_XFLAGS7	++ FIELD_LABEL
		1...		CIRASI64_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CIRASI64_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CIRASI64_KEYUSED_SVCUMPRGN	"B'00100000'" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		CIRASI64_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CIRASI64_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CIRASI64_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CIRASI64_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		CIRASI64_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2116	(844)	BITSTRING	1	CIRASI64_XDUMP	++ XDUMP
2116	(844)	X'0'	0	CIRASI64_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2116	(844)	X'1'	0	CIRASI64_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2116	(844)	X'2'	0	CIRASI64_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2116	(844)	X'3'	0	CIRASI64_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2116	(844)	X'20'	0	CIRASI64_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2116	(844)	X'21'	0	CIRASI64_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2116	(844)	X'FF'	0	CIRASI64_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2117	(845)	BITSTRING	1	CIRASI64_XFLAGS8	++ FIELD_LABEL
		1...		CIRASI64_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWORD
		.1..		CIRASI64_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		CIRASI64_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		CIRASI64_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		CIRASI64_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		CIRASI64_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		CIRASI64_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		CIRASI64_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2118	(846)	BITSTRING	2	CIRASI64_XOWNERASID	++
2120	(848)	BITSTRING	1	CIRASI64_XOPTIONVALUE	++
2121	(849)	CHARACTER	8	CIRASI64_XRSV0001	++ RESERVED
2129	(851)	CHARACTER	8	CIRASI64_XOWNERJOBNAME	++
2137	(859)	CHARACTER	7	CIRASI64_XRSV0004	++ RESERVED
2144	(860)	ADDRESS	8	CIRASI64_XDMAPAGETABLE	++
2152	(868)	DBL WORD	8	CIRASI64_XUNITS	++
2160	(870)	BITSTRING	1	CIRASI64_XFLAGS9	++ FIELD_LABEL
		1...		CIRASI64_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CIRASI64_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CIRASI64_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CIRASI64_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		CIRASI64_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CIRASI64_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2161	(871)	BITSTRING	1	CIRASI64_XFLAGS10	++ FIELD_LABEL
		1...		CIRASI64_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		CIRASI64_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		CIRASI64_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		CIRASI64_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
2162	(872)	BITSTRING	1	CIRASI64_XFLAGS11	++ FIELD_LABEL
		1...		CIRASI64_KEYUSED_OBJECTTYPE	

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
	.1..			CIRASI64_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
	..1.			CIRASI64_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
2163	(873)	CHARACTER	5	CIRASI64_XRSV0005	++ RESERVED
2163	(873)	X'878'	0	CIRASI64_PL_END	"*" ++ END OF BASE PLIST
2024	(7E8)	DBL WORD	8	CIRASI64_XOUTMOTKN	++
2024	(7E8)	DBL WORD	8	CIRASI64_XMOTKN	++
2048	(800)	ADDRESS	8	CIRASI64_XINORIGIN	++
2048	(800)	ADDRESS	8	CIRASI64_XINADDR	++
2168	(878)	X'B0'	0	CIRASI64L	"*-CIRASI64" ++ LENGTH OF PLIST
IARV64-6					
0	(0)	X'1F8'	0	CIRGW6LN	"*-CIRGWORK" Length of sixth mapping
Seventh mapping of CIRGWORK used indirectly by IRNJE (IRNJE \$CALLS NCOMMREQ, which \$CALLS NPDDMSG to display a diagnostic message in error scenarios)					
1664	(680)	CHARACTER	120	CIRM500A	
1664	(680)	X'78'	0	CIRGW7LN	"*-CIRGWORK" Length of seventh mapping
Eighth mapping of CIRGWORK used by IRFINAL, IRNJE and IRRJE.					
1664	(680)	SIGNED	4	CIRCMSTR(0)	Full word alignment
1664	(680)	CHARACTER	4		CPLTAB ID
1668	(684)	ADDRESS	1		CPLTAB Version
1669	(685)	ADDRESS	1		Sub Pool ID (non-JES2 AS)
1670	(686)	ADDRESS	1		Sub Pool number (JES2 AS)
1671	(687)	ADDRESS	1		Storage Key
1672	(688)	ADDRESS	4		CPINDEX offset
1676	(68C)	CHARACTER	8		Cell Type
1684	(694)	CHARACTER	8		Data space name
1692	(69C)	ADDRESS	4		Cell size
1696	(6A0)	ADDRESS	1		General flags
1697	(6A1)	ADDRESS	1		Location flags
1698	(6A2)	ADDRESS	1		Data space flags
1699	(6A3)	ADDRESS	1		Attribute flags
1700	(6A4)	ADDRESS	4		Limit of num of cells
1704	(6A8)	ADDRESS	4		Primary cell count
1708	(6AC)	ADDRESS	4		Secondary cell count
1708	(6AC)	X'30'	0	CIRCMSTL	"*-CIRCMSTR" Length of \$CP00L parmlist
IARVSERV MF=(L,CIRVSERV) List form of IARVSERV macro MACDATE -10/21/22-<0>					

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'6B0'	0	M00M1254	"CIRVSERV" ++ IARVSERV NAME
1712	(6B0)	DBL WORD	8	CIRVSERV(0)	++ IARVSERV PARM LIST
1712	(6B0)	BITSTRING	1	CIRVSERV_XVERSION	++ INPUT XVERSION
1713	(6B1)	BITSTRING	1	CIRVSERV_XSERVICE	++ XSERVICE
1713	(6B1)	X'1'	0	CIRVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1713	(6B1)	X'2'	0	CIRVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1713	(6B1)	X'3'	0	CIRVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1713	(6B1)	X'4'	0	CIRVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1713	(6B1)	X'5'	0	CIRVSERV_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
1713	(6B1)	X'6'	0	CIRVSERV_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
1713	(6B1)	X'7'	0	CIRVSERV_CHANGEACCESS64	"7" ++ XSERVICE.CHANGEACCESS64 KEYWORD
1714	(6B2)	BITSTRING	1	CIRVSERV_XFLAGS1	++ FIELD_LABEL
		1...		CIRVSERV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		CIRVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CIRVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CIRVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CIRVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CIRVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CIRVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		.... ...1		CIRVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1715	(6B3)	BITSTRING	1	CIRVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CIRVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		CIRVSERV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		CIRVSERV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		CIRVSERV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		CIRVSERV_XSINGLESPEACE_YES	"B'00001000'" ++ XSINGLESPEACE.YES KEYWORD
		.... .1..		CIRVSERV_XUNAUTHVIEW_YES	"B'00000100'" ++ XUNAUTHVIEW.YES KEYWORD
1716	(6B4)	SIGNED	4	CIRVSERV_XNUMRANGE	++
1720	(6B8)	ADDRESS	4	CIRVSERV_XRANGLIST	++
1720	(6B8)	X'6BC'	0	CIRVSERV_PL_END	"*" ++ END OF BASE PLIST
1720	(6B8)	ADDRESS	4	CIRVSERV_XRANGLIST64	++
1724	(6BC)	X'C'	0	CIRVSERV_L	"*-CIRVSERV" ++ LENGTH OF PLIST
IARVSERV-0					

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1724	(6BC)	ADDRESS	4	CIRVRLP	Pointer to range list
1728	(6C0)	SIGNED	4	CIRVRL(7)	IARVSRV range list
1756	(6DC)	ADDRESS	4	CIRVRETC	Return code for \$HASP564
1760	(6E0)	ADDRESS	4	CIRVRSNC	Reason code for \$HASP564
1764	(6E4)	BITSTRING	1	CIRFLAGV	NIT Data space error flag
		1...		CIRFV\$DS	"B'10000000" \$DSPSERV service failed
		.1..		CIRFVIAR	"B'01000000" IARVSRV service failed
		..1.		CIRFVNBL	"B'00100000" 'NOT EXTEND' message
		...1		CIRFVNFD	"B'00010000" 'NOT FOUND' message
		.... 1...		CIRFVNSH	"B'00001000" 'NOT SHARED' message
		.... .1..		CIRFVRC	"B'00000100" Include return code
		.... ..1.		CIRFVRS	"B'00000010" Include reason code
1765	(6E5)	BITSTRING	3		Reserved
1768	(6E8)	DBL WORD	8	(0)	
1768	(6E8)	BITSTRING	64	CIRFXEWK(0)	FXE Work Area
1768	(6E8)	DBL WORD	8	CIRTMPU1	Work area 1
1776	(6F0)	DBL WORD	8	CIRTMPU2	Work area 2
1784	(6F8)	CHARACTER	16	CIRINSID	FXECNTRL Instance ID
1800	(708)	BITSTRING	32	CIRAEXIT(0)	JES2 Exits Active BITMAP
1800	(708)	BITSTRING	8	CIREXIT4	4th 64 bits enabled exits
1808	(710)	BITSTRING	8	CIREXIT3	3rd 64 bits enabled exits
1816	(718)	BITSTRING	8	CIREXIT2	2nd 64 bits enabled exits
1824	(720)	BITSTRING	8	CIREXIT1	1st 64 bits enabled exits
Parameter list for FXECNTRL FXECNTRL MF=(L,CIRFXEP) List form of FXECNTRL macro MACDATE -01/11/18-<0>					
0	(0)	X'728'	0	M00M1255	"CIRFXEP" ++ FXECNTRL NAME
1832	(728)	DBL WORD	8	CIRFXEP(0)	++ FXECNTRL PARM LIST
1832	(728)	BITSTRING	1	CIRFXEP_XVERSION	++ INPUT XVERSION
1833	(729)	BITSTRING	1	CIRFXEP_XREQUEST	++ XREQUEST
1833	(729)	X'1'	0	CIRFXEP_XREQUEST_SETFUNCENBL	"1" ++ XREQUEST.SETFUNCENBL KEYWORD
1833	(729)	X'2'	0	CIRFXEP_XREQUEST_UPDFUNCUSE	"2" ++ XREQUEST.UPDFUNCUSE KEYWORD
1833	(729)	X'3'	0	CIRFXEP_XREQUEST_APPLYIPLPARM	"3" ++ XREQUEST.APPLYIPLPARM KEYWORD
1834	(72A)	CHARACTER	2	CIRFXEP_XRSV0002	++ RESERVED
1836	(72C)	BITSTRING	2	CIRFXEP_XVENDORSLOT	++
1838	(72E)	BITSTRING	2	CIRFXEP_XPRODUCTSLOT	++
1840	(730)	BITSTRING	2	CIRFXEP_XFUNCTIONSLOT	++
1842	(732)	BITSTRING	1	CIRFXEP_XFUNCTIONUPDTYPE	++ XFUNCTIONUPDTYPE
1842	(732)	X'0'	0	CIRFXEP_XFUNCTIONUPDTYPE_ANYAUTH	"0" ++ XFUNCTIONUPDTYPE.ANYAUTH KEYWORD
1842	(732)	X'1'	0	CIRFXEP_XFUNCTIONUPDTYPE_AUTHONLY	

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"1" ++ XFUNCTIONUPDTYPE.AUTHONLY KEYWORD
1842	(732)	X'2'	0	CIRFXEP_XFUNCTIONUPDTYPE_VALUE	
					"2" ++ XFUNCTIONUPDTYPE.VALUE KEYWORD
1843	(733)	BITSTRING	1	CIRFXEP_XENABLED	++ XENABLED
1843	(733)	X'0'	0	CIRFXEP_XENABLED_NO	"0" ++ XENABLED.NO KEYWORD
1843	(733)	X'1'	0	CIRFXEP_XENABLED_YES	"1" ++ XENABLED.YES KEYWORD
1843	(733)	X'2'	0	CIRFXEP_XENABLED_VALUE	"2" ++ XENABLED.VALUE KEYWORD
1844	(734)	BITSTRING	1	CIRFXEP_XKEYUSED	++ FIELD_LABEL
		1...		CIRFXEP_KEYUSED_VENDORNAME	"B'10000000'" ++ KEYUSED.VENDORNAME KEYWORD
		.1...		CIRFXEP_KEYUSED_PRODUCTNAME	
					"B'01000000'" ++ KEYUSED.PRODUCTNAME KEYWORD
		..1.		CIRFXEP_KEYUSED_FUNCTIONNAME	
					"B'00100000'" ++ KEYUSED.FUNCTIONNAME KEYWORD
		...1		CIRFXEP_KEYUSED_PRODUCTID	"B'00010000'" ++ KEYUSED.PRODUCTID KEYWORD
		.... 1...		CIRFXEP_KEYUSED_INSTANCEID	"B'00001000'" ++ KEYUSED.INSTANCEID KEYWORD
		.... .1..		CIRFXEP_KEYUSED_APPLYCOUNT	"B'00000100'" ++ KEYUSED.APPLYCOUNT KEYWORD
1845	(735)	CHARACTER	1	CIRFXEP_XRSV0013	++ RESERVED
1846	(736)	BITSTRING	1	CIRFXEP_XFUNCUPDTYPEVALUE	++ FIELD_LABEL
1847	(737)	BITSTRING	1	CIRFXEP_XENABLEDVALUE	++
1848	(738)	SIGNED	4	CIRFXEP_XPRODUCTID_ALET	++ ALET
1852	(73C)	SIGNED	4	CIRFXEP_XINSTANCEID_ALET	++ ALET
1856	(740)	ADDRESS	8	CIRFXEP_XPRODUCTID_ADDR3164	
					++ ADDR3164
1864	(748)	ADDRESS	8	CIRFXEP_XINSTANCEID_ADDR3164	
1872	(750)	SIGNED	4	CIRFXEP_XVENDORNAME_ALET	++ ALET
1876	(754)	SIGNED	4	CIRFXEP_XPRODUCTNAME_ALET	++ ALET
1880	(758)	ADDRESS	8	CIRFXEP_XVENDORNAME_ADDR3164	
1888	(760)	ADDRESS	8	CIRFXEP_XPRODAREAADDR	++
1896	(768)	SIGNED	4	CIRFXEP_XFUNCTIONNAME_ALET	++ ALET
1900	(76C)	CHARACTER	4	CIRFXEP_XRSV0068	++ RESERVED
1904	(770)	ADDRESS	8	CIRFXEP_XFUNCTIONNAME_ADDR3164	
1912	(778)	DBL WORD	8	CIRFXEP_XAPPLYCOUNT	++
1920	(780)	CHARACTER	40	CIRFXEP_XRSV0088	++ RESERVED
1920	(780)	X'7A8'	0	CIRFXEP_PL_END	"*" ++ END OF BASE PLIST
1888	(760)	ADDRESS	8	CIRFXEP_XPRODUCTNAME_ADDR3164	
1888	(760)	ADDRESS	8	CIRFXEP_XPRODUCTAREA_ADDR3164	
1960	(7A8)	X'80'	0	CIRFXEPL	"*-CIRFXEP" ++ LENGTH OF PLIST
FXECNTRL-0					
0	(0)	X'128'	0	CIRGW8LN	"*-CIRGWORK" Length of eighth mapping

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Ninth mapping of CIRGWORK used by IRSSI					
1664	(680)	ADDRESS	4	CIRETDEF	Local ETDEF work area
This is mapping of CIRGWORK used by CSVDYNEX for Multi System Dump MACDATE -03/02/17-<1>					
0	(0)	X'688'	0	M00M1256	"CIRDYNEX" ++ CSVDYNEX NAME
1672	(688)	DBL WORD	8	CIRDYNEX(0)	++ CSVDYNEX PARM LIST
1672	(688)	BITSTRING	1	CIRDYNEX_XVERSION	++ INPUT XVERSION
1673	(689)	BITSTRING	1	CIRDYNEX_XREQUEST	++ XREQUEST
1673	(689)	X'0'	0	CIRDYNEX_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1673	(689)	X'1'	0	CIRDYNEX_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1673	(689)	X'2'	0	CIRDYNEX_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1673	(689)	X'3'	0	CIRDYNEX_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1673	(689)	X'4'	0	CIRDYNEX_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1673	(689)	X'5'	0	CIRDYNEX_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1673	(689)	X'6'	0	CIRDYNEX_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1673	(689)	X'7'	0	CIRDYNEX_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1673	(689)	X'8'	0	CIRDYNEX_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1673	(689)	X'9'	0	CIRDYNEX_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1673	(689)	X'A'	0	CIRDYNEX_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1673	(689)	X'B'	0	CIRDYNEX_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1673	(689)	X'C'	0	CIRDYNEX_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1674	(68A)	BITSTRING	1	CIRDYNEX_XFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIRDYNEX_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIRDYNEX_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIRDYNEX_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIRDYNEX_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIRDYNEX_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIRDYNEX_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		.... ...1		CIRDYNEX_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1675	(68B)	BITSTRING	1	CIRDYNEX_XAMODE	++ XAMODE
1675	(68B)	X'0'	0	CIRDYNEX_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1675	(68B)	X'1'	0	CIRDYNEX_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1675	(68B)	X'2'	0	CIRDYNEX_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1676	(68C)	SIGNED	4	CIRDYNEX_XKEY	++
1680	(690)	BITSTRING	1	CIRDYNEX_XFLAGS2	++ FIELD_LABEL

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		CIRDYNEX_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIRDYNEX_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD
		..1.		CIRDYNEX_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIRDYNEX_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD
		.... 1..		CIRDYNEX_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIRDYNEX_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIRDYNEX_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		.... ...1		CIRDYNEX_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1681	(691)	BITSTRING	1	CIRDYNEX_XFLAGS3	++ FIELD_LABEL
		1...		CIRDYNEX_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIRDYNEX_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIRDYNEX_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIRDYNEX_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1..		CIRDYNEX_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIRDYNEX_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIRDYNEX_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		.... ...1		CIRDYNEX_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1682	(692)	BITSTRING	1	CIRDYNEX_XPOS	++ XPOS
1682	(692)	X'0'	0	CIRDYNEX_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1682	(692)	X'1'	0	CIRDYNEX_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1682	(692)	X'2'	0	CIRDYNEX_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1682	(692)	X'3'	0	CIRDYNEX_XPOS_KEEPPFIRST	"3" ++ XPOS.KEEPPFIRST KEYWORD
1682	(692)	X'4'	0	CIRDYNEX_XPOS_KEEPLAST	"4" ++ XPOS.KEEPLAST KEYWORD
1682	(692)	X'5'	0	CIRDYNEX_XPOS_CONDFIRST	"5" ++ XPOS.CONDFIRST KEYWORD
1682	(692)	X'6'	0	CIRDYNEX_XPOS_CONDLAST	"6" ++ XPOS.CONDLAST KEYWORD
1683	(693)	BITSTRING	1	CIRDYNEX_XEXAAVER	++ XEXAAVER
1683	(693)	X'0'	0	CIRDYNEX_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1683	(693)	X'1'	0	CIRDYNEX_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1683	(693)	X'2'	0	CIRDYNEX_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1683	(693)	X'3'	0	CIRDYNEX_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1684	(694)	CHARACTER	3	CIRDYNEX_XRSV0002	++ RESERVED
1687	(697)	BITSTRING	1	CIRDYNEX_XFLAGS5	++ FIELD_LABEL
		1...		CIRDYNEX_XPOSCOND_YES	"B'10000000'" ++ XPOSCOND.YES KEYWORD
1688	(698)	CHARACTER	16	CIRDYNEX_XEXITNAME	++
1704	(6A8)	CHARACTER	8	CIRDYNEX_XMODNAME	++
1712	(6B0)	ADDRESS	4	CIRDYNEX_XCMDINFO_ADDR	++ ADDR
1716	(6B4)	SIGNED	4	CIRDYNEX_XABENDNUM	++

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1720	(6B8)	SIGNED	4	CIRDYNEX_XRCTO	++
1724	(6BC)	SIGNED	4	CIRDYNEX_XRCFROM	++
1728	(6C0)	SIGNED	4	CIRDYNEX_XKEEPRC	++
1732	(6C4)	BITSTRING	1	CIRDYNEX_XKEEPRCCOMP	++ XKEEPRCCOMP
1732	(6C4)	X'0'	0	CIRDYNEX_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1732	(6C4)	X'1'	0	CIRDYNEX_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1732	(6C4)	X'2'	0	CIRDYNEX_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1732	(6C4)	X'3'	0	CIRDYNEX_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1732	(6C4)	X'4'	0	CIRDYNEX_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1732	(6C4)	X'5'	0	CIRDYNEX_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1733	(6C5)	BITSTRING	1	CIRDYNEX_XRCCOMPARE	++ XRCCOMPARE
1733	(6C5)	X'0'	0	CIRDYNEX_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1733	(6C5)	X'1'	0	CIRDYNEX_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1733	(6C5)	X'2'	0	CIRDYNEX_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1733	(6C5)	X'3'	0	CIRDYNEX_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1733	(6C5)	X'4'	0	CIRDYNEX_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1733	(6C5)	X'5'	0	CIRDYNEX_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1734	(6C6)	BITSTRING	1	CIRDYNEX_XFLAGS4	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIRDYNEX_XEXITTYPE_INSTALLATION	"B'01000000'" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIRDYNEX_XEXITTYPE_PROGRAM	"B'00100000'" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIRDYNEX_XEXITTYPE_NOTPROGRAM	"B'00010000'" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIRDYNEX_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... .1..		CIRDYNEX_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIRDYNEX_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD
		.... ...1		CIRDYNEX_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1735	(6C7)	BITSTRING	1	CIRDYNEX_XEXRETVER	++ XEXRETVER
1735	(6C7)	X'0'	0	CIRDYNEX_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1735	(6C7)	X'1'	0	CIRDYNEX_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1736	(6C8)	SIGNED	4	CIRDYNEX_XCALLSTOPRC	++
1740	(6CC)	CHARACTER	44	CIRDYNEX_XRSVNNNN	++ RESERVED
1740	(6CC)	X'6F8'	0	CIRDYNEX_PL_END	"*" ++ END OF BASE PLIST
1680	(690)	BITSTRING	1	CIRDYNEX_XFLAGS2DF	++ FIELD_LABEL
		.1..		CIRDYNEX_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1716	(6B4)	SIGNED	4	CIRDYNEX_XADDABENDNUM	++
1732	(6C4)	BITSTRING	1	CIRDYNEX_XKEEPRCCVAL	++

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1733	(6C5)	BITSTRING	1	CIRDYNEX_XRCCVAL	++
1740	(6CC)	ADDRESS	4	CIRDYNEX_XWORKAREA_ADDR	++ ADDR
1744	(6D0)	ADDRESS	4	CIRDYNEX_XRETAREA_ADDR	++ ADDR
1748	(6D4)	SIGNED	4	CIRDYNEX_XRETAREA_ALET	++ ALET
1752	(6D8)	SIGNED	4	CIRDYNEX_XRETLEN	++
1756	(6DC)	ADDRESS	4	CIRDYNEX_XRUB_ADDR	++ ADDR
1760	(6E0)	SIGNED	4	CIRDYNEX_XRUB_ALET	++ ALET
1764	(6E4)	CHARACTER	8	CIRDYNEX_XNEXTTOKEN	++
1772	(6EC)	ADDRESS	4	CIRDYNEX_XSDWA_ADDR	++ ADDR
1776	(6F0)	ADDRESS	4	CIRDYNEX_XPRECALLWA_ADDR	++ ADDR
1740	(6CC)	ADDRESS	4	CIRDYNEX_XANSAREA_ADDR	++ ADDR
1744	(6D0)	SIGNED	4	CIRDYNEX_XANSAREA_ALET	++ ALET
1748	(6D4)	SIGNED	4	CIRDYNEX_XANSLEN	++
1740	(6CC)	ADDRESS	4	CIRDYNEX_XPRECALLADDR	++
1740	(6CC)	ADDRESS	4	CIRDYNEX_XDSNAME_ADDR	++ ADDR
1744	(6D0)	SIGNED	4	CIRDYNEX_XDSNAME_ALET	++ ALET
1748	(6D4)	CHARACTER	8	CIRDYNEX_XJOBNAME	++
1756	(6DC)	ADDRESS	4	CIRDYNEX_XMODADDR	++
1760	(6E0)	CHARACTER	8	CIRDYNEX_XPARAM	++
1768	(6E8)	CHARACTER	8	CIRDYNEX_XSERVICEMASK	++
1776	(6F0)	BITSTRING	1	CIRDYNEX_XAMRFLAGS	++ FIELD_LABEL
	1...			CIRDYNEX_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
	.1...			CIRDYNEX_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1777	(6F1)	CHARACTER	3	CIRDYNEX_XRSV0003	++ RESERVED
1748	(6D4)	CHARACTER	8	CIRDYNEX_XSTOKEN	++
1768	(6E8)	CHARACTER	8	CIRDYNEX_XSERVICEMASKM	++
1776	(6F0)	BITSTRING	1	CIRDYNEX_XAMRFLAGSM	++ FIELD_LABEL
	1...			CIRDYNEX_KEYUSED_SERVICEMASKM	"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1768	(6E8)	CHARACTER	8	CIRDYNEX_XSERVICEMASKR	++
1776	(6F0)	BITSTRING	1	CIRDYNEX_XAMRFLAGSR	++ FIELD_LABEL
	1...			CIRDYNEX_KEYUSED_SERVICEMASKR	"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1784	(6F8)	X'70'	0	CIRDYNEXL	"*-CIRDYNEX" ++ LENGTH OF PLIST
CSVDYNEX-1					
0	(0)	X'78'	0	CIRGW9LN	"*-CIRGWORK" Length of ninth mapping
End of CIRGWORK mappings.					
1784	(6F8)	ADDRESS	2	(0)	Ensure that
1784	(6F8)	ADDRESS	2	(0)	CIRGWORK is
1784	(6F8)	ADDRESS	2	(0)	larger than

Table 63. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1784	(6F8)	ADDRESS	2	(0)	each of the
1784	(6F8)	ADDRESS	2	(0)	individual
1784	(6F8)	ADDRESS	2	(0)	mappings of
1784	(6F8)	ADDRESS	2	(0)	the data
1784	(6F8)	ADDRESS	2	(0)	area
2564	(A04)	SIGNED	4	(0)	
2564	(A04)	X'8B4'	0	CIRWLEN	"*-PCEWORK" LENGTH OF CIR PCE WORK
2564	(A04)	X'A04'	0	CIRLEN	"*-PCE" LENGTH OF INIT PCE

Table 64. Structure NGDAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGDAS	
0	(0)	CHARACTER	3	NGDEYE	Eye catcher
3	(3)	BITSTRING	1	NGDFLAG1	Universal flag byte
		1...		NGD1RBLD	"B'10000000'" Rebuild has been performed
3	(3)	X'4'	0	NGDHDR	"*-NGDAS" Header length
4	(4)	SIGNED	2	NGDDATA(0)	
4	(4)	CHARACTER	6	NGDVOLID	EBCDIC VOLSER ID
10	(A)	BITSTRING	1	NGDFLAG2	Individual volume flag byte
		1...		NGD2TRKQ	"B'10000000'" Should be on TRAK q
		.1..		NGD2WRKQ	"B'01000000'" Should be on WORK q
		..1.		NGD2CORR	"B'00100000'" DAS is corrupted
11	(B)	BITSTRING	1	NGDRBLDR	DAS rebuild reason
12	(C)	SIGNED	4	NGDTKCYL	Number of tracks per cyl
16	(10)	SIGNED	2	NGDNORTK	Number of recs per track
20	(14)	SIGNED	4	NGDTRKRC	RECY based tracks in DS
24	(18)	SIGNED	4	NGDMAPSZ	Number of bytes in map
28	(1C)	SIGNED	2	NGDMTCSZ	Minimum trackcell size
30	(1E)	SIGNED	2	NGDTGSIZ	Trackgroup size
32	(20)	BITSTRING	4	NGDEDONE	Expected DONE mask
36	(24)	CHARACTER	44	NGDDSN	Data set name work area
36	(24)	X'4C'	0	NGDASLEN	"*-NGDDATA" Size of temp vector entry

Table 65. Structure NGRSU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGRSU	, Resource usage area
0	(0)	CHARACTER	4	NGRID	Eyecatcher
4	(4)	SIGNED	2	NGRTBLCT	Count of output areas
6	(6)	SIGNED	2	NGRTBLLN	Length of an entry
8	(8)	SIGNED	2	NGRTBLOF	Offset to 1st entry
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	4	NGRWJOE	Work JOE count
16	(10)	SIGNED	4	NGRCJQE	Completed JQE count

Table 65. Structure NGRSU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
20	(14)	SIGNED	4	NGRTSTRT(0)	Start of output areas
20	(14)	BITSTRING	36	NGRJQELN	JQE data line
56	(38)	BITSTRING	36	NGRJBNLN	Job number data line
92	(5C)	BITSTRING	36	NGRJOELN	JOE data line
128	(80)	BITSTRING	36	NGRTGRLN	TG data line
164	(A4)	BITSTRING	36	NGRBRTLN	BERT data line
200	(C8)	BITSTRING	1	NGRQBRLN	JQE BERT data line
200	(C8)	X'D8'	0	NGRJQBRT	"NGREUSE-NGRE+NGRQBRLN,4" JQE BERT count
236	(EC)	BITSTRING	1	NGROBRLN	JOE BERT data line
236	(EC)	X'FC'	0	NGRJQBRT	"NGREUSE-NGRE+NGROBRLN,4" JOE BERT count
236	(EC)	X'7'	0	NGRTCNT	"(*-NGRTSTRT)/NGREDATA" Entry count
236	(EC)	X'110'	0	NGRSULEN	"*-NGRSU" Length of resource struct

Table 66. Structure NGRE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NGRE	NGR output data entry
0	(0)	CHARACTER	12	NGRENAME	Name of entry
12	(C)	SIGNED	4	NGRELMT	Resource limit
16	(10)	SIGNED	4	NGREUSE	Current usage
20	(14)	SIGNED	4	NGREPCT	Percent in use (*100)
24	(18)	SIGNED	4	NGRERTO	Ratio per JQE/JOE (*100)
28	(1C)	SIGNED	4	NGREMAX	Max with max JQE/JOE
32	(20)	SIGNED	4	NGREMIN	Recommended minimum
32	(20)	X'24'	0	NGREDATA	"*-NGRE" Size of an entry

Table 67. Structure IBD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IBD	, IRPL below the line DSECT
0	(0)	CHARACTER	4	IBDID	Eyecatcher
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
8	(8)	SIGNED	4	IBDPRDCL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
8	(8)	ADDRESS	4		DCBE ADDRESS
12	(C)	BITSTRING	12		FDAD, DVTBL
24	(18)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
28	(1C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
29	(1D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
32	(20)	ADDRESS	2		BUFL, BUFFER LENGTH
34	(22)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
36	(24)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
40	(28)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS

Table 67. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
41	(29)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
44	(2C)	BITSTRING	1		RECFM (RECORD FORMAT)
45	(2D)	ADDRESS	3		
48	(30)	CHARACTER	8		DDNAME
56	(38)	BITSTRING	1		OFLGS (OPEN FLAGS)
57	(39)	BITSTRING	1		IFLGS (IOS FLAGS)
58	(3A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
60	(3C)	BITSTRING	1		OPTCD, OPTION CODES
61	(3D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
64	(40)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
68	(44)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
70	(46)	ADDRESS	2		BLKSIZE, BLOCK SIZE
72	(48)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
76	(4C)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
80	(50)	ADDRESS	4		EOBAD
84	(54)	ADDRESS	4		RECAD
88	(58)	SIGNED	2		QSW (FLAGS) AND EITHER DIRCT OR BUFOFF
90	(5A)	ADDRESS	2		LRECL
92	(5C)	BITSTRING	1		EROPT, ERROR OPTION
93	(5D)	ADDRESS	3		CNTRL
96	(60)	SIGNED	2	(2)	RESERVED AND PRECL
100	(64)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
104	(68)	SIGNED	4	(0)	0 Alignment and identifier
108	(6C)	SIGNED	2		4 DCBE V0 length, min is 56'
110	(6E)	BITSTRING	2		6 Reserved, should be zero
112	(70)	ADDRESS	4		8 0 if not open, OPEN points to DCB
116	(74)	BITSTRING	4		C Disk address of current member
120	(78)	BITSTRING	1		10 Flags set by system
121	(79)	BITSTRING	1		11 Flags set by user
122	(7A)	SIGNED	2		12 Number of stripes if extended format
124	(7C)	BITSTRING	1		14 Flags set by user
125	(7D)	BITSTRING	1		15 Flags
126	(7E)	BITSTRING	2		16 Reserved
128	(80)	BITSTRING	4		18 Reserved
132	(84)	SIGNED	4		1C Block size
136	(88)	BITSTRING	8		20 Reserved & number of blocks in ds
144	(90)	ADDRESS	4		28 End of data routine address or 0
148	(94)	ADDRESS	4		2C I/O error routine (synchronous) or 0
152	(98)	BITSTRING	4		30 Reserved, should be zero

Table 67. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
156	(9C)	SIGNED	2		34 tape files written before sync
158	(9E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
158	(9E)	X'8'	0	IBDPRDCB	"IBDPRDCL,*-IBDPRDCL" Unopened HASPPARM DCB
160	(A0)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
160	(A0)	SIGNED	4	HPARMDCB(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
160	(A0)	ADDRESS	4		DCBE ADDRESS
164	(A4)	BITSTRING	12		FDAD, DVTBL
176	(B0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
180	(B4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
181	(B5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
184	(B8)	ADDRESS	2		BUFL, BUFFER LENGTH
186	(BA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
188	(BC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
192	(C0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
193	(C1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
196	(C4)	BITSTRING	1		RECFM (RECORD FORMAT)
197	(C5)	ADDRESS	3		
200	(C8)	CHARACTER	8		DDNAME
208	(D0)	BITSTRING	1		OFLGS (OPEN FLAGS)
209	(D1)	BITSTRING	1		IFLGS (IOS FLAGS)
210	(D2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
212	(D4)	BITSTRING	1		OPTCD, OPTION CODES
213	(D5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
216	(D8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
220	(DC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
222	(DE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
224	(E0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
228	(E4)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
232	(E8)	ADDRESS	4		EOBAD
236	(EC)	ADDRESS	4		RECAD
240	(F0)	SIGNED	2		QSWs (FLAGS) AND EITHER DIRCT OR BUFOFF
242	(F2)	ADDRESS	2		LRECL
244	(F4)	BITSTRING	1		EROPT, ERROR OPTION
245	(F5)	ADDRESS	3		CNTRL
248	(F8)	SIGNED	2	(2)	RESERVED AND PRECL
252	(FC)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD

Table 67. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
DATA CONTROL BLOCK EXTENSION.					
256	(100)	SIGNED	4	(0)	0 Alignment and identifier
260	(104)	SIGNED	2		4 DCBE V0 length, min is 56'
262	(106)	BITSTRING	2		6 Reserved, should be zero
264	(108)	ADDRESS	4		8 0 if not open, OPEN points to DCB
268	(10C)	BITSTRING	4		C Disk address of current member
272	(110)	BITSTRING	1		10 Flags set by system
273	(111)	BITSTRING	1		11 Flags set by user
274	(112)	SIGNED	2		12 Number of stripes if extended format
276	(114)	BITSTRING	1		14 Flags set by user
277	(115)	BITSTRING	1		15 Flags
278	(116)	BITSTRING	2		16 Reserved
280	(118)	BITSTRING	4		18 Reserved
284	(11C)	SIGNED	4		1C Block size
288	(120)	BITSTRING	8		20 Reserved & number of blocks in ds
296	(128)	ADDRESS	4		28 End of data routine address or 0
300	(12C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
304	(130)	BITSTRING	4		30 Reserved, should be zero
308	(134)	SIGNED	2		34 tape files written before sync
310	(136)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
310	(136)	X'A0'	0	HPARMDCB	"HPARMDCL,*-HPARMDCL" HASPPARM DCB
312	(138)	BITSTRING	1	HPARMFLG	DCB EOF ind X'FF' -> EOF
320	(140)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
320	(140)	SIGNED	4	HLISTDCL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
320	(140)	ADDRESS	4		DCBE ADDRESS
324	(144)	BITSTRING	12		FDAD, DVTBL
336	(150)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
340	(154)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
341	(155)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
344	(158)	ADDRESS	2		BUFL, BUFFER LENGTH
346	(15A)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
348	(15C)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
352	(160)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
353	(161)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
356	(164)	BITSTRING	1		RECFM (RECORD FORMAT)
357	(165)	ADDRESS	3		
360	(168)	CHARACTER	8		DDNAME
368	(170)	BITSTRING	1		OFLGS (OPEN FLAGS)
369	(171)	BITSTRING	1		IFLGS (IOS FLAGS)

Table 67. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
370	(172)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
372	(174)	BITSTRING	1		OPTCD, OPTION CODES
373	(175)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
376	(178)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
380	(17C)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
382	(17E)	ADDRESS	2		BLKSIZE, BLOCK SIZE
384	(180)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
388	(184)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
392	(188)	ADDRESS	4		EOBAD
396	(18C)	ADDRESS	4		RECAD
400	(190)	SIGNED	2		QSWs (FLAGS) AND EITHER DIRCT OR BUFOFF
402	(192)	ADDRESS	2		LRECL
404	(194)	BITSTRING	1		EROPT, ERROR OPTION
405	(195)	ADDRESS	3		CNTRL
408	(198)	SIGNED	2	(2)	RESERVED AND PRECL
412	(19C)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
416	(1A0)	SIGNED	4	(0)	0 Alignment and identifier
420	(1A4)	SIGNED	2		4 DCBE V0 length, min is 56'
422	(1A6)	BITSTRING	2		6 Reserved, should be zero
424	(1A8)	ADDRESS	4		8 0 if not open, OPEN points to DCB
428	(1AC)	BITSTRING	4		C Disk address of current member
432	(1B0)	BITSTRING	1		10 Flags set by system
433	(1B1)	BITSTRING	1		11 Flags set by user
434	(1B2)	SIGNED	2		12 Number of stripes if extended format
436	(1B4)	BITSTRING	1		14 Flags set by user
437	(1B5)	BITSTRING	1		15 Flags
438	(1B6)	BITSTRING	2		16 Reserved
440	(1B8)	BITSTRING	4		18 Reserved
444	(1BC)	SIGNED	4		1C Block size
448	(1C0)	BITSTRING	8		20 Reserved & number of blocks in ds
456	(1C8)	ADDRESS	4		28 End of data routine address or 0
460	(1CC)	ADDRESS	4		2C I/O error routine (synchronous) or 0
464	(1D0)	BITSTRING	4		30 Reserved, should be zero
468	(1D4)	SIGNED	2		34 tape files written before sync
470	(1D6)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
470	(1D6)	X'140'	0	HLISTDCB	"HLISTDCL,*-HLISTDCL" HASPLIST DCB
472	(1D8)	SIGNED	4	NPLEXLST(0)	DCB exits

Table 67. Structure IBD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	ADDRESS	1	NPLEXOPN	DCB open
476	(1DC)	ADDRESS	1	NPLEXJFC	JFCB
480	(1E0)	ADDRESS	1	NPLEXABN	ABEND
The following code is copied into the data area because it must be below the line.					
484	(1E4)	BITSTRING	0	IBDCODE(0)	Start of code stub
492	(1EC)	ADDRESS	4	IBDOPAD	stub
504	(1F8)	ADDRESS	4	IBDAPAD	stub
504	(1F8)	X'18'	0	IBDCODEL	"*-IBDCODE" Length of code segment
508	(1FC)	ADDRESS	2	(0)	Ensure code segments
508	(1FC)	ADDRESS	2	(0)	are the same size
508	(1FC)	SIGNED	4	IBDOP(0)	ALIGN LIST TO WORD
508	(1FC)	ADDRESS	1		Option byte
509	(1FD)	ADDRESS	3		Reserved
512	(200)	ADDRESS	4		DCB or ACB address
512	(200)	X'1FC'	0	IBDOPEN	"IBDOP, *-IBDOP"
516	(204)	SIGNED	4	IBDCL(0)	ALIGN LIST TO FULLWORD
516	(204)	ADDRESS	1		OPTION BYTE
517	(205)	ADDRESS	3		RESERVED BYTES
520	(208)	ADDRESS	4		DCB OR ACB ADDRESS
520	(208)	X'204'	0	IBDCLOSE	"IBDCL, *-IBDCL"
524	(20C)	SIGNED	4	(0)	
524	(20C)	BITSTRING	1	IBDJFCB(176)	JFCB work area
524	(20C)	X'2BC'	0	IBDLEN	"*-IBD" Length of work area

Table 68. Cross Reference for \$CIRWORK

Name	Offset	Hex Tag
CIRACCTJ	36C	
CIRACCTN	370	
CIRAEXIT	708	
CIRALTDS	6A0	
CIRANSA	718	
CIRANSAL	71C	
CIRASGRD	7B8	
CIRASI64	7C8	
CIRASI64_KEYUSED_CONVERTSIZE64	7CC	4
CIRASI64_KEYUSED_CONVERTSTART	7CC	10
CIRASI64_KEYUSED_DUMP	843	80
CIRASI64_KEYUSED_GUARDSIZE64	7CC	8
CIRASI64_KEYUSED_INORIGIN	871	80
CIRASI64_KEYUSED_KEY	7CC	80

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRASI64_KEYUSED_MOTKN	7CC	2
CIRASI64_KEYUSED_OBJECTTYPE	872	80
CIRASI64_KEYUSED_OPTIONVALUE	843	40
CIRASI64_KEYUSED_OWNERJOBNAME	7CC	1
CIRASI64_KEYUSED_SENSITIVE	871	10
CIRASI64_KEYUSED_SVCUMPRGN	843	20
CIRASI64_KEYUSED_TTOKEN	7CC	20
CIRASI64_KEYUSED_UNITS	870	80
CIRASI64_KEYUSED_USERTKN	7CC	40
CIRASI64_PL_END	873	878
CIRASI64_XAFFINITY_SYSTEM	7CE	40
CIRASI64_XALETVALUE	810	
CIRASI64_XAMOUNTSIZE_1MEG	842	2
CIRASI64_XAMOUNTSIZE_4K	842	4
CIRASI64_XATTRIBUTE_DEFS	843	10
CIRASI64_XATTRIBUTE_NOTOWNERGONE	843	4
CIRASI64_XATTRIBUTE_OWNERGONE	843	8
CIRASI64_XCHANGEACCESS_GLOBAL	7CD	8
CIRASI64_XCLEAR_NO	7CF	40
CIRASI64_XCOND_YES	7CD	80
CIRASI64_XCONTROL_AUTH	7CD	20
CIRASI64_XCONVERT_FROMGUARD	7CF	2
CIRASI64_XCONVERT_TOGUARD	7CF	4
CIRASI64_XCONVERTSIZE	80C	
CIRASI64_XCONVERTSIZE64	828	
CIRASI64_XCONVERTSTART	820	
CIRASI64_XDETACHFIXED_YES	842	20
CIRASI64_XDISCARDPAGES_YES	0	4
CIRASI64_XMAPAGETABLE	860	
CIRASI64_XDOAUTHCHECKS_YES	842	10
CIRASI64_XDUMP	844	
CIRASI64_XDUMP_ALL	844	FF
CIRASI64_XDUMP_LIKECSA	844	3
CIRASI64_XDUMP_LIKELSQA	844	21
CIRASI64_XDUMP_LIKERGN	844	20
CIRASI64_XDUMP_LIKESQA	844	2
CIRASI64_XDUMP_NO	844	1
CIRASI64_XDUMP_NONE	844	0
CIRASI64_XDUMPPRIORITY	840	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRASI64_XDUMPPROTOCOL_YES	841	80
CIRASI64_XEXECUTABLE_NO	0	1
CIRASI64_XEXECUTABLE_YES	0	2
CIRASI64_XFLAGS0	7CA	
CIRASI64_XFLAGS1	7CC	
CIRASI64_XFLAGS10	871	
CIRASI64_XFLAGS11	872	
CIRASI64_XFLAGS2	7CD	
CIRASI64_XFLAGS3	7CE	
CIRASI64_XFLAGS4	7CF	
CIRASI64_XFLAGS5	841	
CIRASI64_XFLAGS6	842	
CIRASI64_XFLAGS7	843	
CIRASI64_XFLAGS8	845	
CIRASI64_XFLAGS9	870	
CIRASI64_XFPROT_NO	7CD	40
CIRASI64_XGUARDLOC_HIGH	7CD	10
CIRASI64_XGUARDSIZE	808	
CIRASI64_XGUARDSIZE64	830	
CIRASI64_XINADDR	800	
CIRASI64_XINORIGIN	800	
CIRASI64_XKEEPREAL_NO	7CF	1
CIRASI64_XKEY	7CB	
CIRASI64_XLOCALSYSAREA_YES	842	8
CIRASI64_XLONG_NO	7CF	80
CIRASI64_XMATCH_MOTOKEN	7CA	20
CIRASI64_XMATCH_USERTOKEN	7CE	80
CIRASI64_XMEMLIMIT_COND	842	1
CIRASI64_XMEMLIMIT_NO	842	40
CIRASI64_XMEMOBJSTART	800	
CIRASI64_XMOTKN	7E8	
CIRASI64_XMOTKNCREATOR_SYSTEM	7CA	40
CIRASI64_XMOTKNSOURCE_SYSTEM	7CA	80
CIRASI64_XNUMRANGE	814	
CIRASI64_XOBJECTTYPE_POOL	872	40
CIRASI64_XOBJECTTYPE_RSMINTERNAL	872	20
CIRASI64_XOPTIONVALUE	848	
CIRASI64_XORDER_DUMPPRIORITY	841	40
CIRASI64_XORIGIN	7F0	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRASI64_XOUTMOTKN	7E8	
CIRASI64_XOWNER_NO	7CE	10
CIRASI64_XOWNERASID	846	
CIRASI64_XOWNERCOM_BYASID	841	1
CIRASI64_XOWNERCOM_HOME	841	8
CIRASI64_XOWNERCOM_PRIMARY	841	4
CIRASI64_XOWNERCOM_SYSTEM	841	2
CIRASI64_XOWNERJOBNAME	851	
CIRASI64_XPAGEFRAMESIZE_ALL	7CD	1
CIRASI64_XPAGEFRAMESIZE_DREF1MEG	0	40
CIRASI64_XPAGEFRAMESIZE_MAX	7CD	2
CIRASI64_XPAGEFRAMESIZE_PAGEABLE1MEG	845	80
CIRASI64_XPAGEFRAMESIZE_1M	870	10
CIRASI64_XPAGEFRAMESIZE_1MEG	7CD	4
CIRASI64_XPAGEFRAMESIZE_2G	870	8
CIRASI64_XRANGLIST	7F8	
CIRASI64_XREQUEST	7C9	
CIRASI64_XREQUEST_CHANGEACCESS	7C9	B
CIRASI64_XREQUEST_CHANGEATTRIBUTE	7C9	13
CIRASI64_XREQUEST_CHANGEGUARD	7C9	D
CIRASI64_XREQUEST_COUNTPAGES	7C9	10
CIRASI64_XREQUEST_DETACH	7C9	3
CIRASI64_XREQUEST_DISCARDATA	7C9	7
CIRASI64_XREQUEST_GETCOMMON	7C9	F
CIRASI64_XREQUEST_GETSHARED	7C9	2
CIRASI64_XREQUEST_GETSTOR	7C9	1
CIRASI64_XREQUEST_LIST	7C9	E
CIRASI64_XREQUEST_PAGEFIX	7C9	4
CIRASI64_XREQUEST_PAGEIN	7C9	8
CIRASI64_XREQUEST_PAGEOUT	7C9	6
CIRASI64_XREQUEST_PAGEUNFIX	7C9	5
CIRASI64_XREQUEST_PCIEFIX	7C9	11
CIRASI64_XREQUEST_PCIEUNFIX	7C9	12
CIRASI64_XREQUEST_PROTECT	7C9	9
CIRASI64_XREQUEST_SHAREMEMOBJ	7C9	A
CIRASI64_XREQUEST_UNPROTECT	7C9	C
CIRASI64_XRSV0001	849	
CIRASI64_XRSV0004	859	
CIRASI64_XRSV0005	873	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRASI64_XSADMP_NO	0	10
CIRASI64_XSADMP_YES	0	20
CIRASI64_XSEGMENTS	7D0	
CIRASI64_XSENSITIVE_NO	871	20
CIRASI64_XSENSITIVE_YES	871	40
CIRASI64_XSVCDUMPRGN_ALL	7CE	1
CIRASI64_XSVCDUMPRGN_NO	7CE	4
CIRASI64_XTRACKINFO_YES	843	2
CIRASI64_XTTOKEN	7D8	
CIRASI64_XTYPE_DREF	841	10
CIRASI64_XTYPE_FIXED	870	4
CIRASI64_XTYPE_PAGEABLE	841	20
CIRASI64_XUNITS	868	
CIRASI64_XUNITSIZE_1M	870	40
CIRASI64_XUNITSIZE_2G	870	20
CIRASI64_XUNLOCKED_YES	843	1
CIRASI64_XUSERTKN	7E8	
CIRASI64_XUSERTOKEN	838	
CIRASI64_XUSE2GT032G_YES	7CE	20
CIRASI64_XUSE2GT064G_YES	0	8
CIRASI64_XVERSION	7C8	
CIRASI64_XVIEW_HIDDEN	7CF	8
CIRASI64_XVIEW_READONLY	7CF	20
CIRASI64_XVIEW_SHAREDWRITE	7CF	10
CIRASI64_XV64COMMON_NO	842	80
CIRASI64_XV64LISTLENGTH	81C	
CIRASI64_XV64LISTPTR	818	
CIRASI64_XV64SELECT_NO	7CE	8
CIRASI64_XV64SHARED_NO	7CE	2
CIRASI64L	878	B0
CIRASPTR	7C0	
CIRASSIZ	7B0	
CIRBLDM	4FC	C2D3C440
CIRBRTCT	4E8	
CIRBSCLC	3E0	0
CIRBTGFA	3F0	
CIRBTGLA	3F4	
CIRBTPRC	1F2	
CIRCAPU	680	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRCAPU_KEYUSED_ASID	681	10
CIRCAPU_KEYUSED_CAPTOACT	681	20
CIRCAPU_KEYUSED_CAPTPTR	681	4
CIRCAPU_KEYUSED_CAPTUCB	681	80
CIRCAPU_KEYUSED_UCAPTUCB	681	40
CIRCAPU_KEYUSED_UCBPTR	681	8
CIRCAPU_XASID	68E	
CIRCAPU_XCAPTCOM_NEVER	68D	10
CIRCAPU_XCAPTCOM_YES	68D	20
CIRCAPU_XCAPTPTR	688	
CIRCAPU_XFLAGS1	681	
CIRCAPU_XLASTING_YES	68D	40
CIRCAPU_XMASK	68D	
CIRCAPU_XMSIFREE_YES	68D	80
CIRCAPU_XRESERVED1	682	
CIRCAPU_XRESERVED2	68C	
CIRCAPU_XRESERVED3	690	
CIRCAPU_XUCBPTR	684	
CIRCAPU_XVERSION	680	
CIRCAPUL	690	20
CIRCHFES	780	
CIRCHUIS	6D2	8
CIRCKPT1	6F0	
CIRCKPT2	738	
CIRCKPVR	154	
CIRCKVER	6B6	40
CIRCKVTM	6B6	20
CIRCKVWR	6B6	80
CIRCLGRP	4F8	
CIRCLGSZ	6D1	8
CIRCLREC	6B4	
CIRCMTB	3D4	
CIRCMSTL	6AC	30
CIRCMSTR	680	
CIRCMTSV	358	0
CIRCNECT	484	
CIRCNVWK	328	328
CIRCONDS	774	
CIRCOUNT	6B0	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRCSRET	6F8	
CIRCTASI	6C4	
CIRCTBLN	6C0	
CIRCTBUF	6B8	
CIRCTEND	6AC	
CIRCTENT	6A8	
CIRCTLST	828	
CIRCTLST_DEFINE	82C	1
CIRCTLST_DELETE	82C	2
CIRCTLST_KEYUSED_BUFDFLT	84A	8
CIRCTLST_KEYUSED_BUFMAX	84A	10
CIRCTLST_KEYUSED_BUFMIN	84A	20
CIRCTLST_KEYUSED_IFNOSUBS	84A	1
CIRCTLST_KEYUSED_MINOPS	848	10
CIRCTLST_KEYUSED_PARM	84A	40
CIRCTLST_KEYUSED_SSRC	84A	4
CIRCTLST_KEYUSED_SSR SNC	84A	2
CIRCTLST_KEYUSED_SUB	84A	80
CIRCTLST_KEYUSED_USERDATA	84B	80
CIRCTLST_PL_END	888	88C
CIRCTLST_XASIDS_YES	848	80
CIRCTLST_XBUFDEFIN_YES	848	4
CIRCTLST_XBUFDFLT	870	
CIRCTLST_XBUFFER_YES	848	40
CIRCTLST_XBUFMAX	86C	
CIRCTLST_XBUFMIN	868	
CIRCTLST_XFLG1	848	
CIRCTLST_XFLG2	849	
CIRCTLST_XFLG3	84A	
CIRCTLST_XFLG4	84B	
CIRCTLST_XFMTTAB	840	
CIRCTLST_XHEAD_YES	849	40
CIRCTLST_XHEADOPTS_YES	849	20
CIRCTLST_XJOBS_YES	848	20
CIRCTLST_XLIKEHEAD_YES	849	80
CIRCTLST_XLNKPARM	84C	
CIRCTLST_XMANYSUBS_YES	849	10
CIRCTLST_XMINOPS_ADDR	850	
CIRCTLST_XMINOPS_LEN	854	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRCTLST_XMNFMSG_NO	848	1
CIRCTLST_XMOD_YES	848	8
CIRCTLST_XNAME	830	
CIRCTLST_XON_NOTMIN	849	1
CIRCTLST_XPARM	87C	
CIRCTLST_XRSV0000	829	
CIRCTLST_XRVS0002	866	
CIRCTLST_XRVS0003	87A	
CIRCTLST_XSERVICE	82C	
CIRCTLST_XSSRC	884	
CIRCTLST_XSSRSNC	888	
CIRCTLST_XSTARTNAM	838	
CIRCTLST_XSUB_ADDR	874	
CIRCTLST_XSUB_LEN	878	
CIRCTLST_XUSERDATA	856	
CIRCTLST_XVERSION	828	
CIRCTLST_XWTR_YES	848	2
CIRCTLST_XWTRMODE_DREF	849	4
CIRCTLST_XWTRMODE_FIXED	849	2
CIRCTLST_XWTRMODE_PAGEABLE	849	8
CIRCTLSTL	888	64
CIRCTNAM	6C8	
CIRCTUSR	6B8	
CIRCURDS	69C	
CIRCURRC	374	
CIRDOMID	480	
CIRDONFW	6D2	20
CIRDVSRV	828	
CIRDVSRV_CHANGEACCESS	829	3
CIRDVSRV_CHANGEACCESS64	829	7
CIRDVSRV_COPYNOW	82A	2
CIRDVSRV_KEYUSED_RANGLIST64	82B	10
CIRDVSRV_PL_END	830	834
CIRDVSRV_RETAIN_YES	82A	1
CIRDVSRV_SHARE	829	1
CIRDVSRV_SHARESEG	829	4
CIRDVSRV_SHARE64	829	5
CIRDVSRV_TARGET_VIEW_LS	82A	8
CIRDVSRV_TARGET_VIEW_NA	82A	4

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRDVSRV_TARGET_VIEW_RO	82A	80
CIRDVSRV_TARGET_VIEW_SW	82A	40
CIRDVSRV_TARGET_VIEW_TW	82A	10
CIRDVSRV_TARGET_VIEW_UW	82A	20
CIRDVSRV_UNSHARE	829	2
CIRDVSRV_UNSHARE64	829	6
CIRDVSRV_XFLAGS1	82A	
CIRDVSRV_XFLAGS2	82B	
CIRDVSRV_XMAKETARGETWRITE_YES	82B	20
CIRDVSRV_XNUMRANGE	82C	
CIRDVSRV_XPARTIALPAGE_YES	82B	80
CIRDVSRV_XRANGLIST	830	
CIRDVSRV_XRANGLIST64	830	
CIRDVSRV_XSERVICE	829	
CIRDVSRV_XSINGLESPEACE_YES	82B	8
CIRDVSRV_XTARGETMAYBEREAD_YES	82B	40
CIRDVSRV_XUNAUTHVIEW_YES	82B	4
CIRDVSRV_XVERSION	828	
CIRDVSRVL	834	C
CIRDWORK	160	0
CIRDYNEX	688	
CIRDYNEX_KEYUSED_CALLSTOPRC	68A	80
CIRDYNEX_KEYUSED_KEEPRC	68A	20
CIRDYNEX_KEYUSED_PRECALLADDR	6C6	80
CIRDYNEX_KEYUSED_RCFROM	68A	40
CIRDYNEX_KEYUSED_SERVICEID	6C6	2
CIRDYNEX_KEYUSED_SERVICEMASK	6F0	80
CIRDYNEX_KEYUSED_SERVICEMASKM	6F0	80
CIRDYNEX_KEYUSED_SERVICEMASKR	6F0	80
CIRDYNEX_KEYUSED_STOKEN	690	1
CIRDYNEX_PL_END	6CC	6F8
CIRDYNEX_XABENDCONSEC_YES	690	4
CIRDYNEX_XABENDNUM	6B4	
CIRDYNEX_XADDABENDNUM	6B4	
CIRDYNEX_XADDRSPACE_ANY	6C6	4
CIRDYNEX_XAMODE	68B	
CIRDYNEX_XAMODE_DEFINED	68B	2
CIRDYNEX_XAMODE_24	68B	1
CIRDYNEX_XAMODE_31	68B	0

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XAMRFLAGS	6F0	
CIRDYNEX_XAMRFLAGSM	6F0	
CIRDYNEX_XAMRFLAGSR	6F0	
CIRDYNEX_XANSAREA_ADDR	6CC	
CIRDYNEX_XANSAREA_ALET	6D0	
CIRDYNEX_XANSLEN	6D4	
CIRDYNEX_XANYKEY_YES	690	8
CIRDYNEX_XCALLSTOPRC	6C8	
CIRDYNEX_XCMDINFO_ADDR	6B0	
CIRDYNEX_XDELETEFORCE_YES	690	40
CIRDYNEX_XDISABLEDCALL_OK	6F0	40
CIRDYNEX_XDSNAME_ADDR	6CC	
CIRDYNEX_XDSNAME_ALET	6D0	
CIRDYNEX_XEXAAVER	693	
CIRDYNEX_XEXAAVER_0	693	0
CIRDYNEX_XEXAAVER_1	693	1
CIRDYNEX_XEXAAVER_2	693	2
CIRDYNEX_XEXAAVER_3	693	3
CIRDYNEX_XEXITNAME	698	
CIRDYNEX_XEXITTYPE_INSTALLATION	6C6	40
CIRDYNEX_XEXITTYPE_NOTPROGRAM	6C6	10
CIRDYNEX_XEXITTYPE_PROGRAM	6C6	20
CIRDYNEX_XEXRETVER	6C7	
CIRDYNEX_XEXRETVER_0	6C7	0
CIRDYNEX_XEXRETVER_1	6C7	1
CIRDYNEX_XFASTPATH_YES	68A	10
CIRDYNEX_XFLAGS	68A	
CIRDYNEX_XFLAGS2	690	
CIRDYNEX_XFLAGS2DF	690	
CIRDYNEX_XFLAGS3	691	
CIRDYNEX_XFLAGS4	6C6	
CIRDYNEX_XFLAGS5	697	
CIRDYNEX_XFORCE_YES	690	40
CIRDYNEX_XJOBNAME	6D4	
CIRDYNEX_XKEEPRC	6C0	
CIRDYNEX_XKEEPRCCOMP	6C4	
CIRDYNEX_XKEEPRCCOMP_EQ	6C4	0
CIRDYNEX_XKEEPRCCOMP_GE	6C4	4
CIRDYNEX_XKEEPRCCOMP_GT	6C4	2

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XKEEPRCCOMP_LE	6C4	5
CIRDYNEX_XKEEPRCCOMP_LT	6C4	3
CIRDYNEX_XKEEPRCCOMP_NE	6C4	1
CIRDYNEX_XKEEPRCCVAL	6C4	
CIRDYNEX_XKEY	68C	
CIRDYNEX_XLINKSTACKOK_NO	690	2
CIRDYNEX_XLOADAPF_YES	6C6	1
CIRDYNEX_XLOCAL_YES	691	4
CIRDYNEX_XMESSAGE_ERROR	68A	4
CIRDYNEX_XMESSAGE_FOUNDBUTERROR	6C6	8
CIRDYNEX_XMODADDR	6DC	
CIRDYNEX_XMODNAME	6A8	
CIRDYNEX_XNEXTTOKEN	6E4	
CIRDYNEX_XONEMODULE_YES	690	80
CIRDYNEX_XPARAM	6E0	
CIRDYNEX_XPERSIST_ADDRESSSPACE	690	20
CIRDYNEX_XPERSIST_IPL	690	10
CIRDYNEX_XPERSIST_JOBSTEPTASK	691	2
CIRDYNEX_XPOS	692	
CIRDYNEX_XPOS_CONDFIRST	692	5
CIRDYNEX_XPOS_CONDLAST	692	6
CIRDYNEX_XPOS_FIRST	692	2
CIRDYNEX_XPOS_KEEPPFIRST	692	3
CIRDYNEX_XPOS_KEEPLAST	692	4
CIRDYNEX_XPOS_LAST	692	1
CIRDYNEX_XPOS_SYSTEM	692	0
CIRDYNEX_XPOSCOND_YES	697	80
CIRDYNEX_XPRECALLADDR	6CC	
CIRDYNEX_XPRECALLWA_ADDR	6F0	
CIRDYNEX_XQTYPE_ADD	691	8
CIRDYNEX_XRCCOMPARE	6C5	
CIRDYNEX_XRCCOMPARE_EQ	6C5	0
CIRDYNEX_XRCCOMPARE_GE	6C5	4
CIRDYNEX_XRCCOMPARE_GT	6C5	2
CIRDYNEX_XRCCOMPARE_LE	6C5	5
CIRDYNEX_XRCCOMPARE_LT	6C5	3
CIRDYNEX_XRCCOMPARE_NE	6C5	1
CIRDYNEX_XRCCVAL	6C5	
CIRDYNEX_XRCFROM	6BC	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XRCTO	6B8	
CIRDYNEX_XREENTRANT_REQ	68A	8
CIRDYNEX_XREQUEST	689	
CIRDYNEX_XREQUEST_ACTIVATE	689	A
CIRDYNEX_XREQUEST_ADD	689	1
CIRDYNEX_XREQUEST_ATTRIB	689	5
CIRDYNEX_XREQUEST_CALL	689	7
CIRDYNEX_XREQUEST_DEFINE	689	0
CIRDYNEX_XREQUEST_DELETE	689	3
CIRDYNEX_XREQUEST_LIST	689	6
CIRDYNEX_XREQUEST_MODIFY	689	2
CIRDYNEX_XREQUEST_PROCESDP	689	9
CIRDYNEX_XREQUEST_QUERY	689	B
CIRDYNEX_XREQUEST_RECOVER	689	8
CIRDYNEX_XREQUEST_REPLACE	689	C
CIRDYNEX_XREQUEST_UNDEFINE	689	4
CIRDYNEX_XRETAREA_ADDR	6D0	
CIRDYNEX_XRETAREA_ALET	6D4	
CIRDYNEX_XRETINFO_ALL	691	20
CIRDYNEX_XRETINFO_HIGHEST	691	80
CIRDYNEX_XRETINFO_LAST	691	10
CIRDYNEX_XRETINFO_LOWEST	691	40
CIRDYNEX_XRETLEN	6D8	
CIRDYNEX_XRSVNNNN	6CC	
CIRDYNEX_XRSV0002	694	
CIRDYNEX_XRSV0003	6F1	
CIRDYNEX_XRUB_ADDR	6DC	
CIRDYNEX_XRUB_ALET	6E0	
CIRDYNEX_XSDWA_ADDR	6EC	
CIRDYNEX_XSERVICEMASK	6E8	
CIRDYNEX_XSERVICEMASKM	6E8	
CIRDYNEX_XSERVICEMASKR	6E8	
CIRDYNEX_XSTATE_ACTIVE	68A	2
CIRDYNEX_XSTATE_INACTIVE	68A	1
CIRDYNEX_XSTOKEN	6D4	
CIRDYNEX_XVERSION	688	
CIRDYNEX_XWILDCARDSTAR_NO	691	1
CIRDYNEX_XWORKAREA_ADDR	6CC	
CIRDYNEXL	6F8	70

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRECB	16C	0
CIRECBA1	818	
CIRECBA2	81C	
CIRECBLS	818	
CIRECB1	820	
CIRECB2	824	
CIRETDEF	680	
CIREXDYN	720	
CIREXDYN_KEYUSED_CALLSTOPRC	722	80
CIREXDYN_KEYUSED_KEEPRC	722	20
CIREXDYN_KEYUSED_PRECALLADDR	75E	80
CIREXDYN_KEYUSED_RCFROM	722	40
CIREXDYN_KEYUSED_SERVICEID	75E	2
CIREXDYN_KEYUSED_SERVICEMASK	788	80
CIREXDYN_KEYUSED_SERVICEMASKM	788	80
CIREXDYN_KEYUSED_SERVICEMASKR	788	80
CIREXDYN_KEYUSED_STOKEN	728	1
CIREXDYN_PL_END	764	790
CIREXDYN_XABENDCONSEC_YES	728	4
CIREXDYN_XABENDNUM	74C	
CIREXDYN_XADDABENDNUM	74C	
CIREXDYN_XADDRSPACE_ANY	75E	4
CIREXDYN_XAMODE	723	
CIREXDYN_XAMODE_DEFINED	723	2
CIREXDYN_XAMODE_24	723	1
CIREXDYN_XAMODE_31	723	0
CIREXDYN_XAMRFLAGS	788	
CIREXDYN_XAMRFLAGSM	788	
CIREXDYN_XAMRFLAGSR	788	
CIREXDYN_XANSAREA_ADDR	764	
CIREXDYN_XANSAREA_ALET	768	
CIREXDYN_XANSLEN	76C	
CIREXDYN_XANYKEY_YES	728	8
CIREXDYN_XCALLSTOPRC	760	
CIREXDYN_XCMDINFO_ADDR	748	
CIREXDYN_XDELETEFORCE_YES	728	40
CIREXDYN_XDISABLEDCALL_OK	788	40
CIREXDYN_XDSNAME_ADDR	764	
CIREXDYN_XDSNAME_ALET	768	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XEXAAVER	72B	
CIREXDYN_XEXAAVER_0	72B	0
CIREXDYN_XEXAAVER_1	72B	1
CIREXDYN_XEXAAVER_2	72B	2
CIREXDYN_XEXAAVER_3	72B	3
CIREXDYN_XEXITNAME	730	
CIREXDYN_XEXITTYPE_INSTALLATION	75E	40
CIREXDYN_XEXITTYPE_NOTPROGRAM	75E	10
CIREXDYN_XEXITTYPE_PROGRAM	75E	20
CIREXDYN_XEXRETVER	75F	
CIREXDYN_XEXRETVER_0	75F	0
CIREXDYN_XEXRETVER_1	75F	1
CIREXDYN_XFASTPATH_YES	722	10
CIREXDYN_XFLAGS	722	
CIREXDYN_XFLAGS2	728	
CIREXDYN_XFLAGS2DF	728	
CIREXDYN_XFLAGS3	729	
CIREXDYN_XFLAGS4	75E	
CIREXDYN_XFLAGS5	72F	
CIREXDYN_XFORCE_YES	728	40
CIREXDYN_XJOBNAME	76C	
CIREXDYN_XKEEPRC	758	
CIREXDYN_XKEEPRCCOMP	75C	
CIREXDYN_XKEEPRCCOMP_EQ	75C	0
CIREXDYN_XKEEPRCCOMP_GE	75C	4
CIREXDYN_XKEEPRCCOMP_GT	75C	2
CIREXDYN_XKEEPRCCOMP_LE	75C	5
CIREXDYN_XKEEPRCCOMP_LT	75C	3
CIREXDYN_XKEEPRCCOMP_NE	75C	1
CIREXDYN_XKEEPRCCVAL	75C	
CIREXDYN_XKEY	724	
CIREXDYN_XLINKSTACKOK_NO	728	2
CIREXDYN_XLOADAPF_YES	75E	1
CIREXDYN_XLOCAL_YES	729	4
CIREXDYN_XMESSAGE_ERROR	722	4
CIREXDYN_XMESSAGE_FOUNDBUTERROR	75E	8
CIREXDYN_XMODADDR	774	
CIREXDYN_XMODNAME	740	
CIREXDYN_XNEXTTOKEN	77C	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XONEMODULE_YES	728	80
CIREXDYN_XPARAM	778	
CIREXDYN_XPERSIST_ADDRESSSPACE	728	20
CIREXDYN_XPERSIST_IPL	728	10
CIREXDYN_XPERSIST_JOBSTEPTASK	729	2
CIREXDYN_XPOS	72A	
CIREXDYN_XPOS_CONDFIRST	72A	5
CIREXDYN_XPOS_CONDLAST	72A	6
CIREXDYN_XPOS_FIRST	72A	2
CIREXDYN_XPOS_KEEPPFIRST	72A	3
CIREXDYN_XPOS_KEEPLAST	72A	4
CIREXDYN_XPOS_LAST	72A	1
CIREXDYN_XPOS_SYSTEM	72A	0
CIREXDYN_XPOSCOND_YES	72F	80
CIREXDYN_XPRECALLADDR	764	
CIREXDYN_XPRECALLWA_ADDR	788	
CIREXDYN_XQTYPE_ADD	729	8
CIREXDYN_XRCCOMPARE	75D	
CIREXDYN_XRCCOMPARE_EQ	75D	0
CIREXDYN_XRCCOMPARE_GE	75D	4
CIREXDYN_XRCCOMPARE_GT	75D	2
CIREXDYN_XRCCOMPARE_LE	75D	5
CIREXDYN_XRCCOMPARE_LT	75D	3
CIREXDYN_XRCCOMPARE_NE	75D	1
CIREXDYN_XRCCVAL	75D	
CIREXDYN_XRCFROM	754	
CIREXDYN_XRCTO	750	
CIREXDYN_XREENTRANT_REQ	722	8
CIREXDYN_XREQUEST	721	
CIREXDYN_XREQUEST_ACTIVATE	721	A
CIREXDYN_XREQUEST_ADD	721	1
CIREXDYN_XREQUEST_ATTRIB	721	5
CIREXDYN_XREQUEST_CALL	721	7
CIREXDYN_XREQUEST_DEFINE	721	0
CIREXDYN_XREQUEST_DELETE	721	3
CIREXDYN_XREQUEST_LIST	721	6
CIREXDYN_XREQUEST_MODIFY	721	2
CIREXDYN_XREQUEST_PROCESSDP	721	9
CIREXDYN_XREQUEST_QUERY	721	B

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XREQUEST_RECOVER	721	8
CIREXDYN_XREQUEST_REPLACE	721	C
CIREXDYN_XREQUEST_UNDEFINE	721	4
CIREXDYN_XRETAREA_ADDR	768	
CIREXDYN_XRETAREA_ALET	76C	
CIREXDYN_XRETINFO_ALL	729	20
CIREXDYN_XRETINFO_HIGHEST	729	80
CIREXDYN_XRETINFO_LAST	729	10
CIREXDYN_XRETINFO_LOWEST	729	40
CIREXDYN_XRETLEN	770	
CIREXDYN_XRSVNNNN	764	
CIREXDYN_XRSV0002	72C	
CIREXDYN_XRSV0003	789	
CIREXDYN_XRUB_ADDR	774	
CIREXDYN_XRUB_ALET	778	
CIREXDYN_XSDWA_ADDR	784	
CIREXDYN_XSERVICEMASK	780	
CIREXDYN_XSERVICEMASKM	780	
CIREXDYN_XSERVICEMASKR	780	
CIREXDYN_XSTATE_ACTIVE	722	2
CIREXDYN_XSTATE_INACTIVE	722	1
CIREXDYN_XSTOKEN	76C	
CIREXDYN_XVERSION	720	
CIREXDYN_XWILDCARDSTAR_NO	729	1
CIREXDYN_XWORKAREA_ADDR	764	
CIREXDYNL	790	70
CIREXIT0	174	
CIREXIT1	720	
CIREXIT2	718	
CIREXIT3	710	
CIREXIT4	708	
CIREXPRF	6D1	40
CIRFFWD	6D2	10
CIRFLAGV	6E4	
CIRFLAG1	150	0
CIRFLAG2	151	0
CIRFLAG3	152	
CIRFLAG4	153	0
CIRFLAG5	362	0

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRFLAG6	363	0
CIRFPLN	7A8	
CIRFPTX	788	
CIRFV\$DS	6E4	80
CIRFVIAR	6E4	40
CIRFVNBL	6E4	20
CIRFVNFD	6E4	10
CIRFVNSH	6E4	8
CIRFVRC	6E4	4
CIRFVRS	6E4	2
CIRFWCNT	6EC	
CIRFWDDS	6D2	40
CIRFXEP	728	
CIRFXEP_KEYUSED_APPLYCOUNT	734	4
CIRFXEP_KEYUSED_FUNCTIONNAME	734	20
CIRFXEP_KEYUSED_INSTANCEID	734	8
CIRFXEP_KEYUSED_PRODUCTID	734	10
CIRFXEP_KEYUSED_PRODUCTNAME	734	40
CIRFXEP_KEYUSED_VENDORNAME	734	80
CIRFXEP_PL_END	780	7A8
CIRFXEP_XAPPLYCOUNT	778	
CIRFXEP_XENABLED	733	
CIRFXEP_XENABLED_NO	733	0
CIRFXEP_XENABLED_VALUE	733	2
CIRFXEP_XENABLED_YES	733	1
CIRFXEP_XENABLEDVALUE	737	
CIRFXEP_XFUNCTIONNAME_ADDR3164	770	
CIRFXEP_XFUNCTIONNAME_ALET	768	
CIRFXEP_XFUNCTIONSLOT	730	
CIRFXEP_XFUNCTIONUPDTYPE	732	
CIRFXEP_XFUNCTIONUPDTYPE_ANYAUTH	732	0
CIRFXEP_XFUNCTIONUPDTYPE_AUTHONLY	732	1
CIRFXEP_XFUNCTIONUPDTYPE_VALUE	732	2
CIRFXEP_XFUNCUPDTYPEVALUE	736	
CIRFXEP_XINSTANCEID_ADDR3164	748	
CIRFXEP_XINSTANCEID_ALET	73C	
CIRFXEP_XKEYSUSED	734	
CIRFXEP_XPRODAREAADDR	760	
CIRFXEP_XPRODUCTAREA_ADDR3164	760	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRFXEP_XPRODUCTID_ADDR3164	740	
CIRFXEP_XPRODUCTID_ALET	738	
CIRFXEP_XPRODUCTNAME_ADDR3164	760	
CIRFXEP_XPRODUCTNAME_ALET	754	
CIRFXEP_XPRODUCTSLOT	72E	
CIRFXEP_XREQUEST	729	
CIRFXEP_XREQUEST_APPLYIPLPARM	729	3
CIRFXEP_XREQUEST_SETFUNCENBL	729	1
CIRFXEP_XREQUEST_UPDFUNCUSE	729	2
CIRFXEP_XRSV0002	72A	
CIRFXEP_XRSV0013	735	
CIRFXEP_XRSV0068	76C	
CIRFXEP_XRSV0088	780	
CIRFXEP_XVENDORNAME_ADDR3164	758	
CIRFXEP_XVENDORNAME_ALET	750	
CIRFXEP_XVENDORSLOT	72C	
CIRFXEP_XVERSION	728	
CIRFXEPL	7A8	80
CIRFXEWK	6E8	
CIRF1CAN	150	4
CIRF1CI	150	20
CIRF1HPI	150	80
CIRF1INC	150	40
CIRF1PER	150	8
CIRF1SER	150	1
CIRF1SSW	150	2
CIRF1XI	150	10
CIRF2CM	151	10
CIRF2CMA	151	2
CIRF2CMT	151	1
CIRF2ECM	151	8
CIRF2HPO	151	20
CIRF2JEX	151	80
CIRF2RRD	151	40
CIRF2SSE	151	4
CIRF3BDV	152	10
CIRF3ERR	152	F
CIRF3I01	152	8
CIRF3I02	152	4

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRF3I1V	152	9
CIRF3I12	152	C
CIRF3LOG	152	40
CIRF3LST	152	80
CIRF3MID	152	20
CIRF3VE1	152	2
CIRF3VE2	152	1
CIRF3V1I	152	6
CIRF3V12	152	3
CIRF4CHD	153	2
CIRF4CHM	153	4
CIRF4ILL	153	80
CIRF4RER	153	8
CIRF4RES	153	10
CIRF4RTE	153	1
CIRF4SCN	153	20
CIRF4XER	153	40
CIRGEMR	368	39
CIRGWORK	680	
CIRGW1LN	990	358
CIRGW2LN	0	14C
CIRGW3LN	680	0
CIRGW4LN	8D8	258
CIRGW5LN	0	20
CIRGW6LN	0	1F8
CIRGW7LN	680	78
CIRGW8LN	0	128
CIRGW9LN	0	78
CIRHCT	168	
CIRIARV	828	
CIRIARV_KEYUSED_CONVERTSIZE64	82C	4
CIRIARV_KEYUSED_CONVERTSTART	82C	10
CIRIARV_KEYUSED_DUMP	8A3	80
CIRIARV_KEYUSED_GUARDSIZE64	82C	8
CIRIARV_KEYUSED_INORIGIN	8D1	80
CIRIARV_KEYUSED_KEY	82C	80
CIRIARV_KEYUSED_MOTKN	82C	2
CIRIARV_KEYUSED_OBJECTTYPE	8D2	80
CIRIARV_KEYUSED_OPTIONVALUE	8A3	40

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_KEYUSED_OWNERJOBNAME	82C	1
CIRIARV_KEYUSED_SENSITIVE	8D1	10
CIRIARV_KEYUSED_SVCDUMPRGN	8A3	20
CIRIARV_KEYUSED_TTOKEN	82C	20
CIRIARV_KEYUSED_UNITS	8D0	80
CIRIARV_KEYUSED_USERTKN	82C	40
CIRIARV_PL_END	8D3	8D8
CIRIARV_XAFFINITY_SYSTEM	82E	40
CIRIARV_XALETVALUE	870	
CIRIARV_XAMOUNTSIZE_1MEG	8A2	2
CIRIARV_XAMOUNTSIZE_4K	8A2	4
CIRIARV_XATTRIBUTE_DEFS	8A3	10
CIRIARV_XATTRIBUTE_NOTOWNERGONE	8A3	4
CIRIARV_XATTRIBUTE_OWNERGONE	8A3	8
CIRIARV_XCHANGEACCESS_GLOBAL	82D	8
CIRIARV_XCLEAR_NO	82F	40
CIRIARV_XCOND_YES	82D	80
CIRIARV_XCONTROL_AUTH	82D	20
CIRIARV_XCONVERT_FROMGUARD	82F	2
CIRIARV_XCONVERT_TOGUARD	82F	4
CIRIARV_XCONVERTSIZE	86C	
CIRIARV_XCONVERTSIZE64	888	
CIRIARV_XCONVERTSTART	880	
CIRIARV_XDETACHFIXED_YES	8A2	20
CIRIARV_XDISCARDPAGES_YES	0	4
CIRIARV_XDMAPAGETABLE	8C0	
CIRIARV_XDOAUTHCHECKS_YES	8A2	10
CIRIARV_XDUMP	8A4	
CIRIARV_XDUMP_ALL	8A4	FF
CIRIARV_XDUMP_LIKECSA	8A4	3
CIRIARV_XDUMP_LIKELSQA	8A4	21
CIRIARV_XDUMP_LIKERGN	8A4	20
CIRIARV_XDUMP_LIKESQA	8A4	2
CIRIARV_XDUMP_NO	8A4	1
CIRIARV_XDUMP_NONE	8A4	0
CIRIARV_XDUMPPRIORITY	8A0	
CIRIARV_XDUMPPROTOCOL_YES	8A1	80
CIRIARV_XEXECUTABLE_NO	0	1
CIRIARV_XEXECUTABLE_YES	0	2

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XFLAGS0	82A	
CIRIARV_XFLAGS1	82C	
CIRIARV_XFLAGS10	8D1	
CIRIARV_XFLAGS11	8D2	
CIRIARV_XFLAGS2	82D	
CIRIARV_XFLAGS3	82E	
CIRIARV_XFLAGS4	82F	
CIRIARV_XFLAGS5	8A1	
CIRIARV_XFLAGS6	8A2	
CIRIARV_XFLAGS7	8A3	
CIRIARV_XFLAGS8	8A5	
CIRIARV_XFLAGS9	8D0	
CIRIARV_XFPROT_NO	82D	40
CIRIARV_XGUARDLOC_HIGH	82D	10
CIRIARV_XGUARDSIZE	868	
CIRIARV_XGUARDSIZE64	890	
CIRIARV_XINADDR	860	
CIRIARV_XINORIGIN	860	
CIRIARV_XKEEPREAL_NO	82F	1
CIRIARV_XKEY	82B	
CIRIARV_XLOCALSYSAREA_YES	8A2	8
CIRIARV_XLONG_NO	82F	80
CIRIARV_XMATCH_MOTOKEN	82A	20
CIRIARV_XMATCH_USERTOKEN	82E	80
CIRIARV_XMEMLIMIT_COND	8A2	1
CIRIARV_XMEMLIMIT_NO	8A2	40
CIRIARV_XMEMOBJSTART	860	
CIRIARV_XMOTKN	848	
CIRIARV_XMOTKNCREATOR_SYSTEM	82A	40
CIRIARV_XMOTKNSOURCE_SYSTEM	82A	80
CIRIARV_XNUMRANGE	874	
CIRIARV_XOBJECTTYPE_POOL	8D2	40
CIRIARV_XOBJECTTYPE_RSMINTERNAL	8D2	20
CIRIARV_XOPTIONVALUE	8A8	
CIRIARV_XORDER_DUMPRIORITY	8A1	40
CIRIARV_XORIGIN	850	
CIRIARV_XOUTMOTKN	848	
CIRIARV_XOWNER_NO	82E	10
CIRIARV_XOWNERASID	8A6	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XOWNERCOM_BYASID	8A1	1
CIRIARV_XOWNERCOM_HOME	8A1	8
CIRIARV_XOWNERCOM_PRIMARY	8A1	4
CIRIARV_XOWNERCOM_SYSTEM	8A1	2
CIRIARV_XOWNERJOBNAME	8B1	
CIRIARV_XPAGEFRAMESIZE_ALL	82D	1
CIRIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CIRIARV_XPAGEFRAMESIZE_MAX	82D	2
CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	8A5	80
CIRIARV_XPAGEFRAMESIZE_1M	8D0	10
CIRIARV_XPAGEFRAMESIZE_1MEG	82D	4
CIRIARV_XPAGEFRAMESIZE_2G	8D0	8
CIRIARV_XRANGLIST	858	
CIRIARV_XREQUEST	829	
CIRIARV_XREQUEST_CHANGEACCESS	829	B
CIRIARV_XREQUEST_CHANGEATTRIBUTE	829	13
CIRIARV_XREQUEST_CHANGEGUARD	829	D
CIRIARV_XREQUEST_COUNTPAGES	829	10
CIRIARV_XREQUEST_DETACH	829	3
CIRIARV_XREQUEST_DISCARDATA	829	7
CIRIARV_XREQUEST_GETCOMMON	829	F
CIRIARV_XREQUEST_GETSHARED	829	2
CIRIARV_XREQUEST_GETSTOR	829	1
CIRIARV_XREQUEST_LIST	829	E
CIRIARV_XREQUEST_PAGEFIX	829	4
CIRIARV_XREQUEST_PAGEIN	829	8
CIRIARV_XREQUEST_PAGEOUT	829	6
CIRIARV_XREQUEST_PAGEUNFIX	829	5
CIRIARV_XREQUEST_PCIEFIX	829	11
CIRIARV_XREQUEST_PCIEUNFIX	829	12
CIRIARV_XREQUEST_PROTECT	829	9
CIRIARV_XREQUEST_SHAREMEMOBJ	829	A
CIRIARV_XREQUEST_UNPROTECT	829	C
CIRIARV_XRSV0001	8A9	
CIRIARV_XRSV0004	8B9	
CIRIARV_XRSV0005	8D3	
CIRIARV_XSADMP_NO	0	10
CIRIARV_XSADMP_YES	0	20
CIRIARV_XSEGMENTS	830	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XSENSITIVE_NO	8D1	20
CIRIARV_XSENSITIVE_YES	8D1	40
CIRIARV_XSVCDUMPRGN_ALL	82E	1
CIRIARV_XSVCDUMPRGN_NO	82E	4
CIRIARV_XTRACKINFO_YES	8A3	2
CIRIARV_XTTOKEN	838	
CIRIARV_XTYPE_DREF	8A1	10
CIRIARV_XTYPE_FIXED	8D0	4
CIRIARV_XTYPE_PAGEABLE	8A1	20
CIRIARV_XUNITS	8C8	
CIRIARV_XUNITSIZE_1M	8D0	40
CIRIARV_XUNITSIZE_2G	8D0	20
CIRIARV_XUNLOCKED_YES	8A3	1
CIRIARV_XUSERTKN	848	
CIRIARV_XUSERTOKEN	898	
CIRIARV_XUSE2GT032G_YES	82E	20
CIRIARV_XUSE2GT064G_YES	0	8
CIRIARV_XVERSION	828	
CIRIARV_XVIEW_HIDDEN	82F	8
CIRIARV_XVIEW_READONLY	82F	20
CIRIARV_XVIEW_SHAREDWRITE	82F	10
CIRIARV_XV64COMMON_NO	8A2	80
CIRIARV_XV64LISTLENGTH	87C	
CIRIARV_XV64LISTPTR	878	
CIRIARV_XV64SELECT_NO	82E	8
CIRIARV_XV64SHARED_NO	82E	2
CIRIARVL	8D8	B0
CIRIBRTF	4D0	0
CIRIDMEM	810	
CIRIDSNE	770	
CIRIJBNF	4C0	0
CIRIJOEF	4CC	0
CIRILCMN	4C4	0
CIRILCMX	4C8	0
CIRINFMR	368	3D
CIRINSID	6F8	
CIRINSSA	688	
CIRINSSL	68C	
CIRIPRW	6A4	0

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRIQNAM	488	E2E8E2E9
CIRIRDAF	6D1	0
CIRIRDA1	6D2	0
CIRIRDA2	6B6	0
CIRIRDMF	828	
CIRIRNAM	490	C9D5C9E3
CIRIRPL1	22A	0
CIRITGF	4D4	0
CIRITGIU	4D8	0
CIRI416	6D2	2
CIRI460	6D2	4
CIRJBMAX	368	
CIRJBMIN	364	
CIRJBNTB	4F0	
CIRJNPRC	1EE	
CIRJOECT	4E0	
CIRJOHI	1E6	FF0
CIRJOLOW	1E8	0
CIRJOPRC	1EC	
CIRJORAT	1E4	0
CIRJQECT	4DC	
CIRJQENC	680	
CIRJQENP	684	
CIRJQHI	1E2	
CIRJQLOW	1E3	
CIRJQPRC	1EA	
CIRJQRAT	1E0	0
CIRLEN	A04	A04
CIRLNENM	49A	0
CIRLPARM	69C	
CIRLRCNT	6A0	
CIRMAXQT	6D1	20
CIRMLTE	328	
CIRMLTEP	324	
CIRMSGIS	6D2	80
CIRMSTRS	690	
CIRMWORK	554	
CIRM500A	680	
CIRM791W	814	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRNDCHN	298	0
CIRNDDOM	298	10
CIRNDEYE	298	0
CIRNDLAY	264	
CIRNDLEN	298	14
CIRNDMSG	298	C
CIRNDNXT	298	4
CIRNDSTI	298	8
CIRNFSSP	4B0	0
CIRNLLCC	2A8	
CIRNLLCT	226	1
CIRNLLL1	2BB	1E
CIRNLLNE	2A8	
CIRNLLSH	2B6	
CIRNLLSN	2BB	
CIRNLLSR	2A9	
CIRNLLST	2D1	
CIRNLPCT	228	0
CIRNODAT	6D2	1
CIRNPLLG	254	
CIRNQMSG	260	
CIRNTCLF	4B4	0
CIRNTCLP	4B8	0
CIRNUMJR	4A0	0
CIRNUMJT	49C	0
CIRNUMSR	4A8	0
CIRNUMST	4A4	0
CIRNXTOK	6E8	
CIRN3800	4AC	0
CIROPTA	478	
CIROPTL	47C	
CIROPTPF	178	
CIROPTS	17C	0
CIRPARMF	6D3	
CIRPARML	6D4	
CIRPARMS	6E8	6D3
CIRPARM1	6D4	
CIRPARM2	6D8	
CIRPARM3	6DC	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRPARM4	6E0	
CIRPARM5	6E4	
CIRPARM6	6E8	
CIRPDCT	268	
CIRPDCT2	26C	
CIRPLWRK	238	
CIRPRDCB	694	
CIRPREVC	37C	
CIRPRMWR	698	
CIRP1RSM	22A	40
CIRREPLY	158	0
CIRRGRLS	4BC	
CIRROPSL	384	F0F0F0F0
CIRROPST	39C	F0F0F0F0
CIRROPSU	3B4	F0F0F0F0
CIRRSUTB	4F4	
CIRRSV1	7A9	
CIRRUB	6D4	
CIRRUBRB	6E0	
CIRRUBRD	6E4	
CIRRUBR0	6D8	
CIRRUBR1	6DC	
CIRSCMLN	680	
CIRSCMSG	682	
CIRSDLCT	22C	0
CIRSJEXP	688	
CIRSJLSP	680	
CIRSJPTR	684	
CIRSNALC	3E4	0
CIRSPLF	688	
CIRSPLGE	6D1	10
CIRSPLL	68C	
CIRSPT	3F8	0
CIRSTIMC	288	0
CIRSTIMS	270	0
CIRSTMCL	288	10
CIRSTMSL	270	18
CIRSTMTA	680	
CIRSTMTC	224	0

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRSTMTL	684	
CIRSTMTT	1FC	
CIRSTMTW	1F8	
CIRSWARN	690	
CIRSYMBP	200	0
CIRS99PT	23C	
CIRS99RB	240	
CIRTCPLC	3E8	0
CIRTDCTS	3DC	
CIRTGCT	4EC	
CIRTGPRC	1F0	
CIRTMPU1	6E8	
CIRTMPU2	6F0	
CIRTOTA	694	
CIRTRANL	21C	0
CIRTRANR	220	0
CIRTSTOR	3D8	
CIRTECT	698	
CIRUCBL	828	
CIRUCBL_KEYUSED_COMPID	842	8
CIRUCBL_KEYUSED_DEVN	842	80
CIRUCBL_KEYUSED_DEVNCHAR	842	40
CIRUCBL_KEYUSED_HELP	842	4
CIRUCBL_KEYUSED_LASTING	842	10
CIRUCBL_KEYUSED_LDEVNCHAR	843	20
CIRUCBL_KEYUSED_PIN	842	2
CIRUCBL_KEYUSED_PINPATHS	842	1
CIRUCBL_KEYUSED_SCHSET	843	10
CIRUCBL_KEYUSED_UCBCXPTR	843	80
CIRUCBL_KEYUSED_UCBPXPTR	843	40
CIRUCBL_KEYUSED_VOLSER	842	20
CIRUCBL_XCOMPID	83C	
CIRUCBL_XDEVCLASS	836	
CIRUCBL_XDEVCLASS_DASD	836	2
CIRUCBL_XDEVCLASS_DASDTAPE	836	0
CIRUCBL_XDEVCLASS_TAPE	836	1
CIRUCBL_XDEVN	82A	
CIRUCBL_XDEVNCHAR	82C	
CIRUCBL_XDYNAMIC_NO	841	40

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCBL_XFLAGS	842	
CIRUCBL_XFLAGS2	843	
CIRUCBL_XHELP	854	
CIRUCBL_XIOCTOKEN_ADDR	85C	
CIRUCBL_XIOCTOKEN_ALET	860	
CIRUCBL_XLDEVNCHAR	874	
CIRUCBL_XLOC_ANY	841	10
CIRUCBL_XMASK	841	
CIRUCBL_XNONBASE_YES	841	80
CIRUCBL_XNOTFIND_YES	837	80
CIRUCBL_XPTOKEN	84C	
CIRUCBL_XRANGE_3DIGIT	841	20
CIRUCBL_XRESERVED1	879	
CIRUCBL_XRESERVED2	837	
CIRUCBL_XSCHSET	829	
CIRUCBL_XSPECIAL_YES	841	8
CIRUCBL_XTEXT_ADDR	844	
CIRUCBL_XTEXT_ALET	848	
CIRUCBL_XUCBCXPTR	86C	
CIRUCBL_XUCBPAREA_ADDR	864	
CIRUCBL_XUCBPAREA_ALET	868	
CIRUCBL_XUCBPTR	838	
CIRUCBL_XUCBPXPTR	870	
CIRUCBL_XUNBOUND_ALIAS_YES	841	1
CIRUCBL_XVERSION	828	
CIRUCBL_XVOLSER	830	
CIRUCBLL	879	54
CIRUCLK	778	
CIRUCLK_KEYUSED_COMPID	792	8
CIRUCLK_KEYUSED_DEVN	792	80
CIRUCLK_KEYUSED_DEVNCHAR	792	40
CIRUCLK_KEYUSED_HELP	792	4
CIRUCLK_KEYUSED_LASTING	792	10
CIRUCLK_KEYUSED_LDEVNCHAR	793	20
CIRUCLK_KEYUSED_PIN	792	2
CIRUCLK_KEYUSED_PINPATHS	792	1
CIRUCLK_KEYUSED_SCHSET	793	10
CIRUCLK_KEYUSED_UCBCXPTR	793	80
CIRUCLK_KEYUSED_UCBPXPTR	793	40

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCLK_KEYUSED_VOLSER	792	20
CIRUCLK_XCOMPID	78C	
CIRUCLK_XDEVCLASS	786	
CIRUCLK_XDEVCLASS_DASD	786	2
CIRUCLK_XDEVCLASS_DASDTAPE	786	0
CIRUCLK_XDEVCLASS_TAPE	786	1
CIRUCLK_XDEVN	77A	
CIRUCLK_XDEVNCHAR	77C	
CIRUCLK_XDYNAMIC_NO	791	40
CIRUCLK_XFLAGS	792	
CIRUCLK_XFLAGS2	793	
CIRUCLK_XHELP	7A4	
CIRUCLK_XIOCTOKEN_ADDR	7AC	
CIRUCLK_XIOCTOKEN_ALET	7B0	
CIRUCLK_XLDEVNCHAR	7C4	
CIRUCLK_XLOC_ANY	791	10
CIRUCLK_XMASK	791	
CIRUCLK_XNONBASE_YES	791	80
CIRUCLK_XNOTFIND_YES	787	80
CIRUCLK_XPTOKEN	79C	
CIRUCLK_XRANGE_3DIGIT	791	20
CIRUCLK_XRESERVED1	7C9	
CIRUCLK_XRESERVED2	787	
CIRUCLK_XSCHSET	779	
CIRUCLK_XSPECIAL_YES	791	8
CIRUCLK_XTEXT_ADDR	794	
CIRUCLK_XTEXT_ALET	798	
CIRUCLK_XUCBCXPTR	7BC	
CIRUCLK_XUCBPAREA_ADDR	7B4	
CIRUCLK_XUCBPAREA_ALET	7B8	
CIRUCLK_XUCBPTR	788	
CIRUCLK_XUCBPXPTR	7C0	
CIRUCLK_XUNBOUND_ALIAS_YES	791	1
CIRUCLK_XVERSION	778	
CIRUCLK_XVOLSER	780	
CIRUCLKL	7C9	54
CIRVOLT	3D0	
CIRVRET	6DC	
CIRVRL	6C0	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRVRLP	6BC	
CIRVRSNC	6E0	
CIRVSERV	6B0	
CIRVSERV_CHANGEACCESS	6B1	3
CIRVSERV_CHANGEACCESS64	6B1	7
CIRVSERV_COPYNOW	6B2	2
CIRVSERV_KEYUSED_RANGLIST64	6B3	10
CIRVSERV_PL_END	6B8	6BC
CIRVSERV_RETAIN_YES	6B2	1
CIRVSERV_SHARE	6B1	1
CIRVSERV_SHARESEG	6B1	4
CIRVSERV_SHARE64	6B1	5
CIRVSERV_TARGET_VIEW_LS	6B2	8
CIRVSERV_TARGET_VIEW_NA	6B2	4
CIRVSERV_TARGET_VIEW_RO	6B2	80
CIRVSERV_TARGET_VIEW_SW	6B2	40
CIRVSERV_TARGET_VIEW_TW	6B2	10
CIRVSERV_TARGET_VIEW_UW	6B2	20
CIRVSERV_UNSHARE	6B1	2
CIRVSERV_UNSHARE64	6B1	6
CIRVSERV_XFLAGS1	6B2	
CIRVSERV_XFLAGS2	6B3	
CIRVSERV_XMAKETARGETWRITE_YES	6B3	20
CIRVSERV_XNUMRANGE	6B4	
CIRVSERV_XPARTIALPAGE_YES	6B3	80
CIRVSERV_XRANGLIST	6B8	
CIRVSERV_XRANGLIST64	6B8	
CIRVSERV_XSERVICE	6B1	
CIRVSERV_XSINGLESPEACE_YES	6B3	8
CIRVSERV_XTARGETMAYBEREAD_YES	6B3	40
CIRVSERV_XUNAUTHVIEW_YES	6B3	4
CIRVSERV_XVERSION	6B0	
CIRVSERVL	6BC	C
CIRWLEN	A04	8B4
CIRWMER	6D1	80
CIRWXIT0	170	
CIRXAREA	790	
CIRXASID	7AE	
CIRXEMN	368	3C

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
CIRXEMNM	368	48
CIRX0#RT	234	
CIRX0PS	478	
CIRX0RNM	6F0	
CIRX0SAV	990	
CIRX0XRT	230	
CIRX19PS	680	
CIRZIP	3EC	
CIRZJCCT	4E4	
CIRZJPRC	1F4	
CIR5BRTE	362	2
CIR5DMEM	362	8
CIR5DSEQ	362	20
CIR5HPDD	362	80
CIR5HPRM	362	10
CIR5LPRM	362	4
CIR5QWIK	362	40
CIR5RRTE	362	1
CIR6CLSE	363	40
CIR6DERR	363	80
CIR6IRPL	363	10
CIR6JTVF	363	8
CIR6SKZL	363	20
HLISTDCB	1D6	140
HLISTDCL	140	
HPARMDCB	136	A0
HPARMDCCL	A0	
HPARMFLG	138	
IBD	0	
IBDAPAD	1F8	
IBDCL	204	
IBDCLOSE	208	204
IBDCODE	1E4	
IBDCODEL	1F8	18
IBDID	0	C9C2C440
IBDJFCB	20C	
IBDLEN	20C	2BC
IBDOP	1FC	
IBDOPAD	1EC	

Table 68. Cross Reference for \$CIRWORK (continued)

Name	Offset	Hex Tag
IBDOPEN	200	1FC
IBDPRDCB	9E	8
IBDPRDCL	8	
M00M1242	0	720
M00M1244	0	778
M00M1245	0	828
M00M1246	0	828
M00M1247	0	828
M00M1248	0	828
M00M1249	0	680
M00M1250	0	7C8
M00M1254	0	6B0
M00M1255	0	728
M00M1256	0	688
NGDAS	0	
NGDASLEN	24	4C
NGDDATA	4	
NGDDSN	24	40404040
NGDEDONE	20	0
NGDEYE	0	
NGDFLAG1	3	
NGDFLAG2	A	
NGDHDR	3	4
NGDMAPSZ	18	
NGDMTCSZ	1C	
NGDNORTK	10	
NGDRBLDR	B	
NGDTGSIZ	1E	
NGDTKCYL	C	
NGDTRKRC	14	
NGDVOLID	4	
NGD1RBLD	3	80
NGD2CORR	A	20
NGD2TRKQ	A	80
NGD2WRKQ	A	40
NGRBRTLN	A4	
NGRCJQE	10	
NGRE	0	
NGREDATA	20	24

Table 68. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
NGRELMT	C	
NGREMAX	1C	
NGREMIN	20	
NGRENAME	0	
NGREPCT	14	
NGRERTO	18	
NGREUSE	10	
NGRID	0	
NGRJBNLN	38	
NGRJOBRT	EC	FC
NGRJOELN	5C	
NGRJQBRT	C8	D8
NGRJQELN	14	
NGROBRLN	EC	
NGRQBRLN	C8	
NGRSU	0	
NGRSULEN	EC	110
NGRTBLCT	4	
NGRTBLLN	6	
NGRTBLOF	8	
NGRTCNT	EC	7
NGRTGRLN	80	
NGRTSTRT	14	
NGRWJOE	C	
NPLEXABN	1E0	
NPLEXJFC	1DC	
NPLEXLST	1D8	
NPLEXOPN	1D8	
PCE	0	

\$CIWORK information

\$CIWORK heading information

Common name:	C/I subtask work areas
Macro ID:	\$CIWORK
DSECT name:	CIWORK and CIWORKB
Owning component:	JES2 (SC1BH)

Eye-catcher ID: CIWORK CIWORKB
Offset: CIWID-CIWORK CIWBID-CIWORKB
Length: L'CIWID L'CIWBID

Storage attributes: Subpool: 10
Key: 1
Residency: Private storage is in either the JES2 address space or the JES2 CI address space. The CIW is located in 31 bit virtual and 64 bit real storage. The CIWB is located in 24 bit virtual and 64 bit real (due to requirements of DFSMS and the interpreter).

Size: See CIWLEN (31 bit) and CIWBLEN (24 bit)

Created by: HASPCNV C/I subtask

Pointed to by: DCNVCIW field of the \$DTECNV data area
DCNVCIBW field of the \$DTECNV data area

Serialization: None required

Function: This part maps two private data areas used by the JES2 converter interpreter subtasks. The CIWB is the 24 bit storage work area that contains parameters to services that must be in 24 bit storage. The CIW contains all the other work areas (in 31 bit storage).

\$CIWORK mapping

Table 69. Structure CIWORK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CIWORK	, JES2 C/I 31 bit work area
0	(0)	CHARACTER	8	CIWID	Eyecatcher
8	(8)	ADDRESS	1	CIWVER	CB version
8	(8)	X'1'	0	CIWVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWDTE	Related DTE address
16	(10)	ADDRESS	4	CIWCIWB	Related CIWB address
20	(14)	ADDRESS	4		
MACDATE 12/25/13					
24	(18)	ADDRESS	4	CIWPOSTE	. 1ST WORD - ECB ADDRESS
28	(1C)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
32	(20)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
36	(24)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
36	(24)	X'18'	0	CIWPECB	"CIWPOSTE" Address of ECB
36	(24)	X'1C'	0	CIWPASCB	"CIWPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
36	(24)	X'24'	0	CIWPECBK	"CIWPOSTE+12,1" Storage key of HASP ECB
36	(24)	X'10'	0	CIWPSTLN	"*-CIWPOSTE" Length of POST MF=L
40	(28)	BITSTRING	1	CIWSTAT	Processor status byte
		1...		CIWSJCTV	"B'10000000'" Valid JCT read
		.1...		CIWSDST	"B'01000000'" Data set type - bit on -> SYSIN bit off -> SYSOUT

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CIWSCAS	"B'00100000'" Alternate system symbols must be captured
		...1		CIWSHOLD	"B'00010000'" Job is/to be held
		.... 1...		CIWSXSCH	"B'00001000'" Exit 6 altered SCHENV
		.... .1..		CIWSTSCH	"B'00000100'" Subtask altered SCHENV
		.... ..1.		CIWSPPTH	"B'00000010'" PROCLIB includes a path
		.... ...1		CIWSINTR	"B'00000001'" Call the interpreter
41	(29)	BITSTRING	3	CIWFRSN(0)	Fake open failure info
See HASCDSOC for values					
41	(29)	BITSTRING	1	CIWDSKY	Data set failure occurred on
42	(2A)	BITSTRING	1	CIWROUT	Routine that found error
43	(2B)	BITSTRING	1	CIWFAIL	Return code from routine
44	(2C)	ADDRESS	4	CIWADDR	Address of JCL converter
48	(30)	ADDRESS	4	CIWINTA	Address of JCL interpreter
52	(34)	ADDRESS	4	CIWSPLR	Address of SWA SPOOOLer
56	(38)	ADDRESS	4	CIWSJBP	Address of conversion task SJB
60	(3C)	ADDRESS	4	CIWACEE	Save area for ACEE pointer
64	(40)	ADDRESS	4	CIWJSCBO	Save area for old JSCB
68	(44)	ADDRESS	4	CIWJSCBN	Save area for new JSCB
72	(48)	ADDRESS	4	CIWCPTR	Pointer to converter's message buffer
76	(4C)	ADDRESS	4	CIWWAVE	Addr of the WAVE control block for \$SEAS calls
80	(50)	ADDRESS	4	CIWDSRVA	Address of DSERV area
84	(54)	ADDRESS	4	CIWMSGP	Address of CNMB chain built in statement prescans
88	(58)	ADDRESS	8	CIWPIW	Ptr to policy interpreter work area
96	(60)	DBL WORD	8	CIWSTIME	CALLCI start time
104	(68)	DBL WORD	8	CIWSCPU	CALLCI start CPU
112	(70)	ADDRESS	4	CIWTODWK	Address of date/time manipulation work area (mapped by \$TODWORK)
XPL and parameter list for exits 6, 59, and 60. Field CIWPARM thru CIWCIWA make up the exit 6/60 parameter list for compatibility and should be kept together.					
116	(74)	SIGNED	4	(0)	Ensure alignment
116	(74)	BITSTRING	64	CIWXPL	Exit 6/59 work area
132	(84)	SIGNED	4	CIWPARM(0)	Exit 6 parameter list
132	(84)	ADDRESS	4	CIWUWAA	Addr of exit 6 user work area
136	(88)	ADDRESS	4	CIWP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
140	(8C)	ADDRESS	4	CIWDTEA	Address of DTE
144	(90)	ADDRESS	4	CIWJCTA	Address of JCT buffer
148	(94)	ADDRESS	4	CIWCNMB	Address of converter message buffer
152	(98)	ADDRESS	4	CIWCIWA	Address of C/I work area
156	(9C)	CHARACTER	8	CIWJCLS	Job class of job
164	(A4)	CHARACTER	16	CIWSCHE	Scheduling environment

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
180	(B4)	BITSTRING	20		Reserved
Start of general work areas, cleared en mass at startup.					
200	(C8)	SIGNED	4	CIWCLR(0)	Start of work area cleared in converter sub-task initialization
200	(C8)	ADDRESS	4	CIWCATA	Address of CAT for job
204	(CC)	CHARACTER	8	CIWJCLAS	JOBCLASS of job
212	(D4)	CHARACTER	1	CIW1CLAS	1 character JOBCLASS of job
213	(D5)	BITSTRING	1	CIWCKEY	Caller key save area
214	(D6)	BITSTRING	1	CIWFLAG1	Processing flags
		1...		CIW1KEYS	"B'10000000'" Caller key field CIWCKEY set by exit code
		.1..		CIW1SYSI	"B'01000000'" SYSINOPN exit processing
		..1.		CIW1WARN	"B'00100000'" Issue warning message
215	(D7)	BITSTRING	1		Reserved
216	(D8)	CHARACTER	16	CIWJSCH	Scheduling environment
232	(E8)	CHARACTER	16	CIWISCHE	Internal text SCHENV before exit 6/60 called
248	(F8)	CHARACTER	16	CIWISCRT	Work area for SCHENV
264	(108)	ADDRESS	4	CIWJQAA	Address of JQA for job
268	(10C)	BITSTRING	6	CIWJCTRK	MQTR of JCT
274	(112)	SIGNED	1	CIWJPRI0	JOBCLASS of job
275	(113)	ADDRESS	1		Reserved
276	(114)	SIGNED	4	CIWJKEY	Job key save area
280	(118)	ADDRESS	4	CIWPAD	Addr of current(open) PAD
284	(11C)	SIGNED	4	CIWPADL	and PAD data space ALET
288	(120)	BITSTRING	8	CIWPCRT	Open PAD create time
296	(128)	ADDRESS	4		Reserved
300	(12C)	ADDRESS	4	CIWJPAD	Address of PAD for job
304	(130)	CHARACTER	144	CIWCNPR	Converter entry list
448	(1C0)	BITSTRING	32	CIWITSP	SWA SPOOLer parm list
480	(1E0)	SIGNED	4	CIWSYMA(0)	System symbolics data area
480	(1E0)	CHARACTER	7	CIWSYM1	&SYSUID keyword
487	(1E7)	CHARACTER	8	CIWSYMU	&SYSUID parameter value
495	(1EF)	CHARACTER	9	CIWSYM2	&SYSJOBNM keyword
504	(1F8)	CHARACTER	8	CIWSYMJN	&SYSJOBNM value
512	(200)	CHARACTER	9	CIWSYM3	&SYSJOBID keyword
521	(209)	CHARACTER	9	CIWSYMJI	&SYSJOBID value
530	(212)	SIGNED	2	CIWCOM	Console id for conversion
532	(214)	BITSTRING	1	CIWINTF1	Int text processing flag
		1...		CIWI1DSN	"B'10000000'" Valid DSN= on JES DD stmt
533	(215)	BITSTRING	1		Reserved
536	(218)	ADDRESS	4	CIWIOT	Address of allocation IOT
540	(21C)	ADDRESS	4	CIWIOT1	Addr of IOT containing last PDDB before 1st input stream PDDB
544	(220)	SIGNED	4	CIWPDB1	Offset of above CIWIOT1 PDDB

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
548	(224)	SIGNED	4	CIWLIND	Index value of last input stream data set processed
552	(228)	SIGNED	4	CIWISNR	Index value of current input stream data set
556	(22C)	ADDRESS	4	CIWIOTA	Input IOT for text exit
560	(230)	SIGNED	4	CIWPDBO	Offset of last input Pddb
564	(234)	SIGNED	4	CIWCHKSM	CKSM of EXEC and DD cards
568	(238)	ADDRESS	1	CIWUIDL	USERID length + value
568	(238)	X'239'	0	CIWUID	"CIWUIDL+1,8,C'C'" USERID for this job
577	(241)	ADDRESS	1	CIWGRPL	GROUP length + value
577	(241)	X'242'	0	CIWGRP	"CIWGRPL+1,8,C'C'" GROUP for this job
586	(24A)	ADDRESS	1	CIWPASL	PASSWORD length + value
586	(24A)	X'24B'	0	CIWPAS	"CIWPASL+1,8,C'C'" PASSWORD for this job
595	(253)	ADDRESS	1	CIWNPASL	New PASSWORD len + value
595	(253)	X'254'	0	CIWNPAS	"CIWNPASL+1,8,C'C'" New PASSWORD for this job
604	(25C)	CHARACTER	1	CIWRD	Job card RD= parameter
605	(25D)	BITSTRING	1	CIWFLG1	Serialized flag byte (Update using OIL/NIL only)
		.1..		CIW1CLR	"B'01000000" CLOSE has been issued once for job in XCNVRTY
606	(25E)	SIGNED	2	CIWITDL	Length of internal text
608	(260)	ADDRESS	4	CIWAR0	XRT @ for trace ID 13
612	(264)	SIGNED	4	CIWERC1	User exit return code 1
616	(268)	SIGNED	4	CIWERC2	User exit return code 2
620	(26C)	SIGNED	4	CIWERC3	User exit return code 3
624	(270)	BITSTRING	176	CIWESV1	CNVT exit save area 1
800	(320)	DBL WORD	8	(0)	
800	(320)	CHARACTER	200	CIWORK	Message work area
800	(320)	X'320'	0	CIWETXT	"CIWORK" End of text address
800	(320)	X'328'	0	CIWUDSN	"CIWORK+8,4,C'A'" User DSN address
800	(320)	X'32C'	0	CIWITXT	"CIWORK+12,4,C'A'" Internal text address
800	(320)	X'330'	0	CIWIDSN	"CIWORK+16,4,C'A'" Internal text DSN address
800	(320)	X'334'	0	CIWPddb	"CIWORK+20,4,C'A'" SYSIN Pddb address
800	(320)	X'338'	0	CIWSTCKE	"CIWORK+24,16,C'X'" Program entry start time for JSAB (Time off JCL conversion processor STCKE)
1000	(3E8)	BITSTRING	16	CIWUWA	Exit user work area
1016	(3F8)	BITSTRING	6	CIWJLOG	JES log control
CONVERSION EXIT LIST					
1024	(400)	SIGNED	4	CIWXLST(0)	Conversion exit list
1024	(400)	BITSTRING	1	CIWXLHD	Exit list header
Converter exit entries					

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1032	(408)	BITSTRING	8	CIWXLTE	Internal text exit entry
1040	(410)	BITSTRING	8	CIWXOPN	SYSIN open exit
1048	(418)	BITSTRING	8	CIWXPOT	SYSIN put exit
1056	(420)	BITSTRING	1	CIWXCLS	SYSIN close exit.
1056	(420)	X'20'	0	CIWXLEN	"*-CIWXLTE" Len of exit list entries
1064	(428)	DBL WORD	8	(0)	Alignment
1064	(428)	BITSTRING	1	CIWSAVE2	Save area for SYSIN exits
Work Area for SYSIN open exit					
1240	(4D8)	ADDRESS	4	CIWSPDDB	SYSIN PDDB address
1244	(4DC)	BITSTRING	1	CIWDEVTP	1st Byte of device type
1245	(4DD)	BITSTRING	3		Reserved
1248	(4E0)	ADDRESS	4	CIWIOTL	Address of last IOT
1252	(4E4)	SIGNED	2	CIWIOTCT	Instream IOT count
1254	(4E6)	SIGNED	2	CIWCDLRL	Card lrecl (always 80 for SYSIN exit)
1256	(4E8)	SIGNED	2	CIWDEFLR	Default LRECL (80)
1258	(4EA)	BITSTRING	1	CIWDEFRLF	Default record format
1259	(4EB)	BITSTRING	1	CIWINFLG	Input flag value
1260	(4EC)	SIGNED	4	CIWDSKEY	Dataset key
1264	(4F0)	BITSTRING	1	CIWDELRS	Failure reason code
1265	(4F1)	BITSTRING	1	CIWPRLBE	PROCLIB failure reason
1265	(4F1)	X'1'	0	CIWEROPN	"1" Open failure
1265	(4F1)	X'2'	0	CIWERDEF	"2" Not defined
1265	(4F1)	X'3'	0	CIWERLRL	"3" LRECL not valid
1265	(4F1)	X'4'	0	CIWERBLK	"4" BLKSIZE not valid
1265	(4F1)	X'5'	0	CIWERBLC	"5" BLKSIZE/LRECL combo
1266	(4F2)	BITSTRING	6		Reserved
1272	(4F8)	CHARACTER	8	CIWPROCL	PROCLIB DD name for message
1280	(500)	DBL WORD	8	(0)	Force Dword alignment
1280	(500)	BITSTRING	48	CIWCRTSY	Parm block for HASPRDDS.
1328	(530)	BITSTRING	32	CIWOPNSP	Open SPOOL parm list
1360	(550)	BITSTRING	200	CIWPUTPL	JRWPUTPL for sysin dataset
1560	(618)	ADDRESS	4	CIWSTYBL	Ptr to symbol table for converter use (see macro IEFSJSYD)
1564	(61C)	SIGNED	4	CIWBIDM(0)	Control block ID
1568	(620)	BITSTRING	4		Console ID
1572	(624)	ADDRESS	4		Address of the CART
1576	(628)	ADDRESS	4		Pointer for JOBID
1580	(62C)	ADDRESS	4		Control block address
1584	(630)	ADDRESS	4		Display routine address
1588	(634)	ADDRESS	4	(6)	6 word work area
1612	(64C)	ADDRESS	4		Caller's R11 value
1616	(650)	BITSTRING	2		ROUT code for Message
1618	(652)	BITSTRING	2		Not used
1620	(654)	CHARACTER	4		Message ID
1624	(658)	CHARACTER	1		Separator character

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1625	(659)	ADDRESS	1		Flag byte 1
1626	(65A)	ADDRESS	1		'DISPER'
1627	(65B)	ADDRESS	1		Flag byte 2
1628	(65C)	ADDRESS	1		Flag byte 3
1629	(65D)	ADDRESS	1		Severity of message
1630	(65E)	CHARACTER	8		Symbolic name of dest.
1638	(666)	BITSTRING	14		Not used
1652	(674)	ADDRESS	4	(0)	Ensure multiple of 4
1652	(674)	ADDRESS	2	(0)	
Work Area for Job Group keyword on SCHEDULE stmt					
1652	(674)	CHARACTER	8	CIWGRPNM	Job group name
1660	(67C)	BITSTRING	4		Reserved
1664	(680)	DBL WORD	8	CIWGRNUM	Associated logging job - number
Work Area for HAMEGET special processing					
1672	(688)	BITSTRING	2		Reserved
1674	(68A)	BITSTRING	1	CIWNBRLP	Nbr left parens processed
1675	(68B)	BITSTRING	1	CIWSPEC	Special processing flags
	1...			CIWDELAY	"B'10000000'" Delay I/O to JECJCL until next JESJCLIN record seen. Record to write is in CIWSBUFF.
	.1..			CIWACINP	"B'01000000'" AcctInfo must be processed
	..1.			CIWPRNMP	"B'00100000'" PgmName must be processed
	...1			CIWWIQST	"B'00010000'" Processing w/i quoted stg
1675	(68B)	X'70'	0	CIWZERJG	"CIWACINP+CIWPRNMP+CIWWIQST" Zero JOBGROUP related flags
1676	(68C)	CHARACTER	96	CIWSBUFF	Record to write to JESJCL
1772	(6EC)	SIGNED	4	CIWJACB(0)	
1772	(6EC)	BITSTRING	1		. ACB IDENTIFICATION
1773	(6ED)	ADDRESS	1		ACB SUBTYPE X04SVHS
1774	(6EE)	ADDRESS	2		. ACB LENGTH X03004HS
1776	(6F0)	ADDRESS	4		. AMB LIST POINTER
1780	(6F4)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1784	(6F8)	BITSTRING	1		MACRF(1) X04SVHS
1785	(6F9)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1786	(6FA)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1787	(6FB)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1788	(6FC)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1790	(6FE)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1792	(700)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1793	(701)	ADDRESS	1		SHARED RESOURCE POOL ID
1794	(702)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1796	(704)	BITSTRING	1		. RECFM=A
1797	(705)	BITSTRING	1		READ INTEGRITY OPTIONS
1798	(706)	BITSTRING	2		. DSORG=ACB
1800	(708)	ADDRESS	4		X04SVHS
1804	(70C)	ADDRESS	4		. PASSWORD POINTER
1808	(710)	ADDRESS	4		. EXIT LIST POINTER
1812	(714)	CHARACTER	8		
1820	(71C)	BITSTRING	1		OFLAGS
1821	(71D)	ADDRESS	1		. ERFLAGS
1822	(71E)	BITSTRING	1		INFLGS(1) X04SVHS
1823	(71F)	BITSTRING	1		INFLGS(2) X04SVHS
1824	(720)	ADDRESS	4		. OPENJ JFCB POINTER
1828	(724)	ADDRESS	4		BUFFER SPACE
1832	(728)	ADDRESS	2		. BLOCK SIZE
1834	(72A)	ADDRESS	2		. RECORD SIZE
1836	(72C)	ADDRESS	4		. USER WORKAREA POINTER
1840	(730)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1844	(734)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1848	(738)	SIGNED	4	CIWJRPL(0)	
1848	(738)	ADDRESS	1		RPL IDENTIFICATION
1849	(739)	ADDRESS	1		RPL SUBTYPE X04SVHS
1850	(73A)	ADDRESS	1		RPL REQUEST TYPE
1851	(73B)	ADDRESS	1		RPL LENGTH X03004
1852	(73C)	ADDRESS	4		. POINTER TO PLACEHOLDER
1856	(740)	ADDRESS	4		. ECB
1860	(744)	BITSTRING	1		. STATUS BYTE
1861	(745)	BITSTRING	3		FEEDBACK CODES
1864	(748)	ADDRESS	2		. KEY LENGTH
1866	(74A)	ADDRESS	2		. TRANSID
1868	(74C)	ADDRESS	4		POINTER TO CONTROL CHARACTER
1872	(750)	ADDRESS	4		
1876	(754)	ADDRESS	4		. POINTER TO TCB
1880	(758)	ADDRESS	4		. POINTER TO RECORD AREA
1884	(75C)	ADDRESS	4		. POINTER TO ARGUMENT
1888	(760)	BITSTRING	1		. OPTCD BYTE 1
1889	(761)	BITSTRING	1		
1890	(762)	BITSTRING	1		OPTCD BYTE 3
1891	(763)	BITSTRING	1		OPTCD BYTE 4
1892	(764)	ADDRESS	4		. POINTER TO NEXT RPL
1896	(768)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
1900	(76C)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004

Table 69. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1904	(770)	BITSTRING	1		
1905	(771)	BITSTRING	1		
1906	(772)	BITSTRING	1		
1907	(773)	BITSTRING	1		
1908	(774)	BITSTRING	8		. RBA
1916	(77C)	BITSTRING	1		
1917	(77D)	ADDRESS	1		ACTIVE INDICATOR
1918	(77E)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
1920	(780)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
Work Area for Job Correlator					
1924	(784)	CHARACTER	1	CIWJCOR	PCEJQE Job Correlator
General ENQ work area MACRO-DATE = 03/16/15					
1988	(7C4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1988	(7C4)	X'7C4'	0	CIWENQ	"*" X02113
1988	(7C4)	ADDRESS	1		PELLAST flag byte. X02113
1989	(7C5)	ADDRESS	1		PELMILEN - RNAME length.
1990	(7C6)	BITSTRING	1		
PELFLAG - flag byte 2.					
1991	(7C7)	ADDRESS	1		PELRET - return code byte.
1992	(7C8)	ADDRESS	4		QNAME ADDRESS
1996	(7CC)	ADDRESS	4		RNAME ADDRESS
1996	(7CC)	X'7C4'	0	CIWENQLS	"CIWENQ,*-CIWENQ" Symbol for ENQ list form
2000	(7D0)	CHARACTER	44	CIWENQMN	ENQ minor name work area
Work Area for BPX calls					
2044	(7FC)	SIGNED	4	CIWBPXRV	BPX return value
2048	(800)	SIGNED	4	CIWBPXRC	BPX return code
2052	(804)	SIGNED	4	CIWBPXRS	BPX reason code
2056	(808)	ADDRESS	4	CIWBPXPL(12)	BPX Parameter list
2056	(808)	X'770'	0	CIWCLRL	"*-CIWCLR" END OF WORK AREA CLEARED IN CONVERTER SUBTASK INITIALIZATION
2056	(808)	X'838'	0	CIWLEN	"*-CIWORK" Length of work area

Table 70. Structure CIWORKB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIWORKB	, JES2 C/I 24 bit work area
0	(0)	CHARACTER	8	CIWBID	Eyecatcher
8	(8)	ADDRESS	1	CIWBVER	CB version
8	(8)	X'1'	0	CIWBVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWBDTE	Related DTE address

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Interpreter processing work areas					
16	(10)	BITSTRING	96	CIWBNEL	Interpreter parm list
112	(70)	BITSTRING	256	CIWBJICA	JES/Interpreter comm area
368	(170)	BITSTRING	176	CIWBSAV	24 bit save area
544	(220)	BITSTRING	36	CIWBQMPA	Queue mgr parm area
580	(244)	BITSTRING	8	CIWBJDVT	JDVT name
588	(24C)	SIGNED	4	CIWBDEBS(0)	Address of DEB's for ACB's
588	(24C)	BITSTRING	32	CIWBDEBJ	DEB for JCL data set
620	(26C)	BITSTRING	32	CIWBDEBI	DEB for JCL image data set
652	(28C)	BITSTRING	32	CIWBDEBM	DEB for system msg data set
684	(2AC)	BITSTRING	32	CIWBDEBT	DEB for internal text data set
716	(2CC)	BITSTRING	32	CIWBDEBA	DEB for SWA blocks DS
748	(2EC)	BITSTRING	32	CIWBDEBE	DEB for EVENTLOG DS
780	(30C)	BITSTRING	176	CIWBJMR	JMR work area
956	(3BC)	SIGNED	4	CIWBCL(0)	ALIGN LIST TO FULLWORD
956	(3BC)	ADDRESS	1		OPTION BYTE
957	(3BD)	ADDRESS	3		DCB OR ACB ADDRESS
957	(3BD)	X'3BC'	0	CIWBCLOS	"CIWBCL,*-CIWBCL"
960	(3C0)	SIGNED	4	CIWBOP(0)	ALIGN LIST TO WORD
960	(3C0)	ADDRESS	1		Option byte
961	(3C1)	ADDRESS	3		DCB or ACB address
961	(3C1)	X'3C0'	0	CIWBOPEN	"CIWBOP,*-CIWBOP"
DCB for PROCLIB, and ACBs for the JES datasets. CIWBPROC DCB for PROCLIB data set IWBPROC DCB DSORG=PO,MACRF=R,RECFM=FB,LRECL=80, DDNAME= ,EXLST= -					
964	(3C4)	SIGNED	4	(0)	CIWBPROC Origin DATA CONTROL BLOCK
964	(3C4)	SIGNED	4	CIWBPROC(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
964	(3C4)	BITSTRING	16		FDAD, DVTBL
980	(3D4)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
984	(3D8)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
985	(3D9)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
988	(3DC)	ADDRESS	2		BUFL, BUFFER LENGTH
990	(3DE)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
992	(3E0)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
996	(3E4)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
997	(3E5)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1000	(3E8)	BITSTRING	1		RECFM (RECORD FORMAT)
1001	(3E9)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1004	(3EC)	CHARACTER	8		DDNAME
1012	(3F4)	BITSTRING	1		OFLGS (OPEN FLAGS)
1013	(3F5)	BITSTRING	1		IFLGS (IOS FLAGS)

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1014	(3F6)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1016	(3F8)	BITSTRING	1		OPTCD, OPTION CODES
1017	(3F9)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1020	(3FC)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1024	(400)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1026	(402)	ADDRESS	2		BLKSIZE, BLOCK SIZE
1028	(404)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1032	(408)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1036	(40C)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1037	(40D)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1040	(410)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1044	(414)	ADDRESS	1	(2)	FLAGS AND EITHER DIRECT OR BUFOFF
1046	(416)	ADDRESS	2		LRECL
1048	(418)	ADDRESS	4		CNTRL, NOTE, POINT
CIWBJCL ACB for JCL data set					
1052	(41C)	SIGNED	4	(0)	CIWBJCL Origin
1052	(41C)	SIGNED	4	CIWBJCL(0)	
1052	(41C)	BITSTRING	1		. ACB IDENTIFICATION
1053	(41D)	ADDRESS	1		ACB SUBTYPE X04SVHS
1054	(41E)	ADDRESS	2		. ACB LENGTH X03004HS
1056	(420)	ADDRESS	4		. AMB LIST POINTER
1060	(424)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1064	(428)	BITSTRING	1		MACRF(1) X04SVHS
1065	(429)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1066	(42A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1067	(42B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1068	(42C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1070	(42E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1072	(430)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1073	(431)	ADDRESS	1		SHARED RESOURCE POOL ID
1074	(432)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1076	(434)	BITSTRING	1		. RECFM=A
1077	(435)	BITSTRING	1		READ INTEGRITY OPTIONS
1078	(436)	BITSTRING	2		. DSORG=ACB
1080	(438)	ADDRESS	4		X04SVHS
1084	(43C)	ADDRESS	4		. PASSWORD POINTER
1088	(440)	ADDRESS	4		. EXIT LIST POINTER

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1092	(444)	CHARACTER	8		
1100	(44C)	BITSTRING	1		OFLAGS
1101	(44D)	ADDRESS	1		. ERFLAGS
1102	(44E)	BITSTRING	1		INFLGS(1) X04SVHS
1103	(44F)	BITSTRING	1		INFLGS(2) X04SVHS
1104	(450)	ADDRESS	4		. OPENJ JFCB POINTER
1108	(454)	ADDRESS	4		BUFFER SPACE
1112	(458)	ADDRESS	2		. BLOCK SIZE
1114	(45A)	ADDRESS	2		. RECORD SIZE
1116	(45C)	ADDRESS	4		. USER WORKAREA POINTER
1120	(460)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1124	(464)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBJCLI ACB for JCL images data set					
1128	(468)	SIGNED	4	(0)	CIWBJCLI origin
1128	(468)	SIGNED	4	CIWBJCLI(0)	
1128	(468)	BITSTRING	1		. ACB IDENTIFICATION
1129	(469)	ADDRESS	1		ACB SUBTYPE X04SVHS
1130	(46A)	ADDRESS	2		. ACB LENGTH X03004HS
1132	(46C)	ADDRESS	4		. AMB LIST POINTER
1136	(470)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1140	(474)	BITSTRING	1		MACRF(1) X04SVHS
1141	(475)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1142	(476)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1143	(477)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1144	(478)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1146	(47A)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1148	(47C)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1149	(47D)	ADDRESS	1		SHARED RESOURCE POOL ID
1150	(47E)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1152	(480)	BITSTRING	1		. RECFM=A
1153	(481)	BITSTRING	1		READ INTEGRITY OPTIONS
1154	(482)	BITSTRING	2		. DSORG=ACB
1156	(484)	ADDRESS	4		X04SVHS
1160	(488)	ADDRESS	4		. PASSWORD POINTER
1164	(48C)	ADDRESS	4		. EXIT LIST POINTER
1168	(490)	CHARACTER	8		
1176	(498)	BITSTRING	1		OFLAGS
1177	(499)	ADDRESS	1		. ERFLAGS
1178	(49A)	BITSTRING	1		INFLGS(1) X04SVHS

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1179	(49B)	BITSTRING	1		INFLGS(2) X04SVHS
1180	(49C)	ADDRESS	4		. OPENJ JFCB POINTER
1184	(4A0)	ADDRESS	4		BUFFER SPACE
1188	(4A4)	ADDRESS	2		. BLOCK SIZE
1190	(4A6)	ADDRESS	2		. RECORD SIZE
1192	(4A8)	ADDRESS	4		. USER WORKAREA POINTER
1196	(4AC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1200	(4B0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBMSG ACB for system msgs data set					
1204	(4B4)	SIGNED	4	(0)	CIWBMSG Origin
1204	(4B4)	SIGNED	4	CIWBMSG(0)	
1204	(4B4)	BITSTRING	1		. ACB IDENTIFICATION
1205	(4B5)	ADDRESS	1		ACB SUBTYPE X04SVHS
1206	(4B6)	ADDRESS	2		. ACB LENGTH X03004HS
1208	(4B8)	ADDRESS	4		. AMB LIST POINTER
1212	(4BC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1216	(4C0)	BITSTRING	1		MACRF(1) X04SVHS
1217	(4C1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1218	(4C2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1219	(4C3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1220	(4C4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1222	(4C6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1224	(4C8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1225	(4C9)	ADDRESS	1		SHARED RESOURCE POOL ID
1226	(4CA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1228	(4CC)	BITSTRING	1		. RECFM=A
1229	(4CD)	BITSTRING	1		READ INTEGRITY OPTIONS
1230	(4CE)	BITSTRING	2		. DSORG=ACB
1232	(4D0)	ADDRESS	4		X04SVHS
1236	(4D4)	ADDRESS	4		. PASSWORD POINTER
1240	(4D8)	ADDRESS	4		. EXIT LIST POINTER
1244	(4DC)	CHARACTER	8		
1252	(4E4)	BITSTRING	1		OFLAGS
1253	(4E5)	ADDRESS	1		. ERFLAGS
1254	(4E6)	BITSTRING	1		INFLGS(1) X04SVHS
1255	(4E7)	BITSTRING	1		INFLGS(2) X04SVHS
1256	(4E8)	ADDRESS	4		. OPENJ JFCB POINTER
1260	(4EC)	ADDRESS	4		BUFFER SPACE
1264	(4F0)	ADDRESS	2		. BLOCK SIZE

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1266	(4F2)	ADDRESS	2		. RECORD SIZE
1268	(4F4)	ADDRESS	4		. USER WORKAREA POINTER
1272	(4F8)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1276	(4FC)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBTEXT ACB for internal text data set					
1280	(500)	SIGNED	4	(0)	CIWBTEXT Origin
1280	(500)	SIGNED	4	CIWBTEXT(0)	
1280	(500)	BITSTRING	1		. ACB IDENTIFICATION
1281	(501)	ADDRESS	1		ACB SUBTYPE X04SVHS
1282	(502)	ADDRESS	2		. ACB LENGTH X03004HS
1284	(504)	ADDRESS	4		. AMB LIST POINTER
1288	(508)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1292	(50C)	BITSTRING	1		MACRF(1) X04SVHS
1293	(50D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1294	(50E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1295	(50F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1296	(510)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1298	(512)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1300	(514)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1301	(515)	ADDRESS	1		SHARED RESOURCE POOL ID
1302	(516)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1304	(518)	BITSTRING	1		. RECFM=A
1305	(519)	BITSTRING	1		READ INTEGRITY OPTIONS
1306	(51A)	BITSTRING	2		. DSORG=ACB
1308	(51C)	ADDRESS	4		X04SVHS
1312	(520)	ADDRESS	4		. PASSWORD POINTER
1316	(524)	ADDRESS	4		. EXIT LIST POINTER
1320	(528)	CHARACTER	8		
1328	(530)	BITSTRING	1		OFLAGS
1329	(531)	ADDRESS	1		. ERFLAGS
1330	(532)	BITSTRING	1		INFLGS(1) X04SVHS
1331	(533)	BITSTRING	1		INFLGS(2) X04SVHS
1332	(534)	ADDRESS	4		. OPENJ JFCB POINTER
1336	(538)	ADDRESS	4		BUFFER SPACE
1340	(53C)	ADDRESS	2		. BLOCK SIZE
1342	(53E)	ADDRESS	2		. RECORD SIZE
1344	(540)	ADDRESS	4		. USER WORKAREA POINTER
1348	(544)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1352	(548)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
CIWBSWA ACB for SWA blocks data set					
1356	(54C)	SIGNED	4	(0)	CIWBSWA origin
1356	(54C)	SIGNED	4	CIWBSWA(0)	
1356	(54C)	BITSTRING	1		. ACB IDENTIFICATION
1357	(54D)	ADDRESS	1		ACB SUBTYPE X04SVHS
1358	(54E)	ADDRESS	2		. ACB LENGTH X03004HS
1360	(550)	ADDRESS	4		. AMB LIST POINTER
1364	(554)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1368	(558)	BITSTRING	1		MACRF(1) X04SVHS
1369	(559)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1370	(55A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1371	(55B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1372	(55C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1374	(55E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1376	(560)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1377	(561)	ADDRESS	1		SHARED RESOURCE POOL ID
1378	(562)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1380	(564)	BITSTRING	1		. RECFM=A
1381	(565)	BITSTRING	1		READ INTEGRITY OPTIONS
1382	(566)	BITSTRING	2		. DSORG=ACB
1384	(568)	ADDRESS	4		X04SVHS
1388	(56C)	ADDRESS	4		. PASSWORD POINTER
1392	(570)	ADDRESS	4		. EXIT LIST POINTER
1396	(574)	CHARACTER	8		
1404	(57C)	BITSTRING	1		OFLAGS
1405	(57D)	ADDRESS	1		. ERFLAGS
1406	(57E)	BITSTRING	1		INFLGS(1) X04SVHS
1407	(57F)	BITSTRING	1		INFLGS(2) X04SVHS
1408	(580)	ADDRESS	4		. OPENJ JFCB POINTER
1412	(584)	ADDRESS	4		BUFFER SPACE
1416	(588)	ADDRESS	2		. BLOCK SIZE
1418	(58A)	ADDRESS	2		. RECORD SIZE
1420	(58C)	ADDRESS	4		. USER WORKAREA POINTER
1424	(590)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1428	(594)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBEVT ACB for EVENTLOG data set					
1432	(598)	SIGNED	4	(0)	CIWBEVT origin
1432	(598)	SIGNED	4	CIWBEVT(0)	

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1432	(598)	BITSTRING	1		. ACB IDENTIFICATION
1433	(599)	ADDRESS	1		ACB SUBTYPE X04SVHS
1434	(59A)	ADDRESS	2		. ACB LENGTH X03004HS
1436	(59C)	ADDRESS	4		. AMB LIST POINTER
1440	(5A0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1444	(5A4)	BITSTRING	1		MACRF(1) X04SVHS
1445	(5A5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1446	(5A6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1447	(5A7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1448	(5A8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1450	(5AA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1452	(5AC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1453	(5AD)	ADDRESS	1		SHARED RESOURCE POOL ID
1454	(5AE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1456	(5B0)	BITSTRING	1		. RECFM=A
1457	(5B1)	BITSTRING	1		READ INTEGRITY OPTIONS
1458	(5B2)	BITSTRING	2		. DSORG=ACB
1460	(5B4)	ADDRESS	4		X04SVHS
1464	(5B8)	ADDRESS	4		. PASSWORD POINTER
1468	(5BC)	ADDRESS	4		. EXIT LIST POINTER
1472	(5C0)	CHARACTER	8		
1480	(5C8)	BITSTRING	1		OFLAGS
1481	(5C9)	ADDRESS	1		. ERFLAGS
1482	(5CA)	BITSTRING	1		INFLGS(1) X04SVHS
1483	(5CB)	BITSTRING	1		INFLGS(2) X04SVHS
1484	(5CC)	ADDRESS	4		. OPENJ JFCB POINTER
1488	(5D0)	ADDRESS	4		BUFFER SPACE
1492	(5D4)	ADDRESS	2		. BLOCK SIZE
1494	(5D6)	ADDRESS	2		. RECORD SIZE
1496	(5D8)	ADDRESS	4		. USER WORKAREA POINTER
1500	(5DC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1504	(5E0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1508	(5E4)	SIGNED	4	(0)	
1508	(5E4)	SIGNED	4	CSOLACBS(0)	
1508	(5E4)	BITSTRING	1		. ACB IDENTIFICATION
1509	(5E5)	ADDRESS	1		ACB SUBTYPE X04SVHS
1510	(5E6)	ADDRESS	2		. ACB LENGTH X03004HS
1512	(5E8)	ADDRESS	4		. AMB LIST POINTER
1516	(5EC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1520	(5F0)	BITSTRING	1		MACRF(1) X04SVHS

Table 70. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1521	(5F1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1522	(5F2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1523	(5F3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1524	(5F4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1526	(5F6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1528	(5F8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1529	(5F9)	ADDRESS	1		SHARED RESOURCE POOL ID
1530	(5FA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1532	(5FC)	BITSTRING	1		. RECFM=A
1533	(5FD)	BITSTRING	1		READ INTEGRITY OPTIONS
1534	(5FE)	BITSTRING	2		. DSORG=ACB
1536	(600)	ADDRESS	4		X04SVHS
1540	(604)	ADDRESS	4		. PASSWORD POINTER
1544	(608)	ADDRESS	4		. EXIT LIST POINTER
1548	(60C)	CHARACTER	8		
1556	(614)	BITSTRING	1		OFLAGS
1557	(615)	ADDRESS	1		. ERFLAGS
1558	(616)	BITSTRING	1		INFLGS(1) X04SVHS
1559	(617)	BITSTRING	1		INFLGS(2) X04SVHS
1560	(618)	ADDRESS	4		. OPENJ JFCB POINTER
1564	(61C)	ADDRESS	4		BUFFER SPACE
1568	(620)	ADDRESS	2		. BLOCK SIZE
1570	(622)	ADDRESS	2		. RECORD SIZE
1572	(624)	ADDRESS	4		. USER WORKAREA POINTER
1576	(628)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1580	(62C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1580	(62C)	X'5E4'	0	CSOLACB	"CSOLACBS,*-CSOLACBS" ACB prototype equate
1580	(62C)	X'630'	0	CIWBLN	"*-CIWORKB" Length of work area

Table 71. Cross Reference for \$CIWORK

Name	Offset	Hex Tag
CIWACEE	3C	
CIWACINP	68B	40
CIWADDR	2C	
CIWAR0	260	
CIWBCL	3BC	
CIWBCLOS	3BD	3BC
CIWBDEBA	2CC	

Table 71. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
CIWBDEBE	2EC	
CIWBDEBI	26C	
CIWBDEBJ	24C	
CIWBDEBM	28C	
CIWBDEBS	24C	
CIWBDEBT	2AC	
CIWBDTE	C	
CIWBEVT	598	
CIWBID	0	C3C9E6D6
CIWBJCL	41C	
CIWBJCLI	468	
CIWBJDVT	244	
CIWBJICA	70	
CIWBJMR	30C	
CIWBLDM	61C	C2D3C440
CIWBLEN	62C	630
CIWBMSG	4B4	
CIWBNEL	10	
CIWBOP	3C0	
CIWBOPEN	3C1	3C0
CIWBPROC	3C4	
CIWBPXPL	808	
CIWBPXRC	800	
CIWBPXRS	804	
CIWBPXRV	7FC	
CIWBQMPA	220	
CIWBSAV	170	
CIWBSWA	54C	
CIWBTXT	500	
CIWBVER	8	
CIWBVERN	8	1
CIWCATA	C8	
CIWCDLRL	4E6	
CIWCHKSM	234	
CIWCIWA	98	
CIWCIWB	10	
CIWCKEY	D5	
CIWCLR	C8	
CIWCLRL	808	770

Table 71. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
CIWCNMB	94	
CIWCNPR	130	
CIWCOM	212	0
CIWCPTR	48	
CIWCRTSY	500	0
CIWDEFLR	4E8	
CIWDEFRF	4EA	
CIWDELAY	68B	80
CIWDELRS	4F0	
CIWDEVTP	4DC	
CIWDSKEY	4EC	
CIWDSKY	29	
CIWDSRVA	50	
CIWDTE	C	
CIWDTEA	8C	
CIWENQ	7C4	7C4
CIWENQLS	7CC	7C4
CIWENQMN	7D0	
CIWERBLC	4F1	5
CIWERBLK	4F1	4
CIWERC1	264	
CIWERC2	268	
CIWERC3	26C	
CIWERDEF	4F1	2
CIWERLRL	4F1	3
CIWEROPN	4F1	1
CIWESV1	270	
CIWETXT	320	320
CIWFAIL	2B	
CIWFLAG1	D6	
CIWFLG1	25D	
CIWFRSN	29	
CIWGRNUM	680	
CIWGRP	241	242
CIWGRPL	241	
CIWGRPNM	674	
CIWID	0	C3C9E6D6
CIWIDSN	320	330
CIWINFLG	4EB	

Table 71. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
CIWINTA	30	
CIWINTF1	214	
CIWIOT	218	
CIWIOTA	22C	
CIWIOTCT	4E4	
CIWIOTL	4E0	
CIWIOT1	21C	
CIWISCHE	E8	
CIWISCRT	F8	
CIWISNR	228	
CIWITDL	25E	
CIWITSPP	1C0	
CIWITXT	320	32C
CIWI1DSN	214	80
CIWJACB	6EC	
CIWJCLAS	CC	
CIWJCLS	9C	
CIWJCOR	784	
CIWJCTA	90	
CIWJCTRK	10C	
CIWJKEY	114	
CIWJLOG	3F8	
CIWJPAD	12C	
CIWJPRI0	112	
CIWJQAA	108	
CIWJRPL	738	
CIWJSCBN	44	
CIWJSCB0	40	
CIWJSCHE	D8	
CIWLEN	808	838
CIWLIND	224	
CIWMSGP	54	
CIWNBRLP	68A	
CIWNPAS	253	254
CIWNPASL	253	
CIWOPNSP	530	
CIWORK	0	
CIWORKB	0	
CIWPAD	118	

Table 71. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
CIWPADL	11C	
CIWPARM	84	
CIWPAS	24A	24B
CIWPASCB	24	1C
CIWPASL	24A	
CIWPCRT	120	
CIWPDB0	230	
CIWPDB1	220	
CIWPDDB	320	334
CIWPECB	24	18
CIWPECBK	24	24
CIWPIW	58	
CIWPOSTE	18	
CIWPLBE	4F1	
CIWPRNMP	68B	20
CIWPROCL	4F8	
CIWPSTLN	24	10
CIWPUTPL	550	
CIWP2A	88	
CIWRD	25C	
CIWROUT	2A	
CIWSAVE2	428	
CIWSBUFF	68C	
CIWSCAS	28	20
CIWSCHE	A4	
CIWSCPU	68	
CIWSDST	28	40
CIWSHOLD	28	10
CIWSINTR	28	1
CIWSJBP	38	
CIWSJCTV	28	80
CIWSPDDB	4D8	
CIWSPEC	68B	
CIWSPLR	34	
CIWSPPTH	28	2
CIWSTAT	28	
CIWSTCKE	320	338
CIWSTIME	60	
CIWSTSCH	28	4

Table 71. Cross Reference for \$CIWORK (continued)

Name	Offset	Hex Tag
CIWSXSCH	28	8
CIWSYMA	1E0	
CIWSYMJI	209	
CIWSYMJN	1F8	
CIWSYMU	1E7	
CIWSYM1	1E0	
CIWSYM2	1EF	
CIWSYM3	200	
CIWSYTB	618	
CIWTODWK	70	
CIWUDSN	320	328
CIWUID	238	239
CIWUIDL	238	
CIWUWA	3E8	
CIWUWAA	84	
CIWVER	8	
CIWVERN	8	1
CIWWAVE	4C	
CIWWIQST	68B	10
CIWORK	320	
CIWXCLS	420	
CIWXLEN	420	20
CIWXLHD	400	
CIWXLST	400	
CIWXLTE	408	
CIWXOPN	410	
CIWXPL	74	
CIWXP	418	
CIWZERJG	68B	70
CIW1CLAS	D4	
CIW1CLR	25D	40
CIW1KEYS	D6	80
CIW1SYSI	D6	40
CIW1WARN	D6	20
CSOLACB	62C	5E4
CSOLACBS	5E4	

\$CK information

\$CK programming interface information

\$CK is a programming interface.

\$CK heading information

Common name: HASP Checkpoint block and CCW DSECTS

Macro ID: \$CK

DSECT name: CKA CKAE CKB CKDDSECT

Owning component: JES2 (SC1BH)

Eye-catcher ID: CKB
Offset: CKBID-CKB
Length: L'CKBID

Storage attributes: Subpool: CKBPOOL (See \$HASPEQU)
Key: 1
Residency: For CKBs that represent checkpoint data sets on DASD:
Virtual storage of the CKB, CKA, and CKAE is 31 bit private storage of the JES2 address space. The CKB is page fixed for the life of JES2 and must lie on a 2K boundary to ensure that the check and lock buffers do not cross a 2K boundary. The data areas can be backed with 64 bit real storage.
The CKI contains the data areas (DCB, IOB, etc) used for checkpoint I/O that must be located in 24 bit virtual storage. The CKI can be backed with 64 bit real storage.
For CKBs that represent checkpoint data sets on a coupling facility:
Virtual storage of the CKB is 31 bit private storage of the JES2 address space. The CKB can be backed with 64 bit real storage.

Size: CKB for data set on DASD
CKBDASZE
CKB for data set on Coupling Facility
CKBCFSZE
CKA+CKAE for data set on DASD only
CKAPLEN + number_of_4K_records in CKPT data set * CKAELEN
CKBSIZE in the CK contains the total length.

Created by: CKPTALOC called during initialization or from the checkpoint dialog.

Pointed to by: CKB
- The \$CKBCRNT field in the \$HCT data area
- The CKGCKB field in the \$CKGPAR data area
CKA
- The CKBCKA field in the CKB data area

Serialization:

These control blocks are used to direct I/O to the checkpoint data set. Checkpoint I/O should only be issued by the initialization and checkpoint PCEs. They are not used by other subtasks or PCEs.

Function:

Control block for I/O operations directed to a checkpoint data set.
A CKB exists for each checkpoint data set allocated.
The CKB contains:
:xmp.
- Checkpoint IOB
- Checkpoint status and flags
- CCW packets for track 1 data
- Data packets for track 1 data
- IDAWS for master record
:exmp.

\$CK mapping

Table 72. Structure CKB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKB	
0	(0)	CHARACTER	4	CKBID	CKB eyecatcher
4	(4)	BITSTRING	1	CKBFLAG1	CKB I/O Flags
		.1..		CKB1SHFL	"B'01000000'" CCW PACKETS SHUFFLED
		..1.		CKB1SPCI	"B'00100000'" PCI flag to be turned on
5	(5)	BITSTRING	1	CKBFLAG2	CKB Processing flags
CKBFLAG2 DEFINITIONS ARE PASSED AS INPUT TO KTRK1IO ROUTINE. THEY INDICATE THE OPERATIONS TO BE PERFORMED BY KTRK1IO. CKB2TLCK IMPLIES READ OF LOCK RECORD IF TEST-LOCK FAILS.					
		1...		CKB2RCHK	"B'10000000'" READ OF CHECK RECD REQ'D
		.1..		CKB2WCHK	"B'01000000'" WRITE OF CHECK RECD REQ'D
		..1.		CKB2TLCK	"B'00100000'" TEST OF LOCK RECD REQ'D
		...1		CKB2RLCK	"B'00010000'" READ OF LOCK RECD REQ'D
		.... 1...		CKB2RMST	"B'00001000'" READ OF MASTER RECD REQ'D
		.... .1..		CKB2RLOG	"B'00000100'" READ OF CHANGE LOG REQ'D
		.... ..1.		CKB2WLCK	"B'00000010'" WRITE OF LOCK RECD REQ'D
		.... ...1		CKB2MSLI	"B'00000001'" SUPPRESS LENGTH ERROR ON MASTER RECORD READ
6	(6)	BITSTRING	1	CKBFLAG3	Reserved for future IBM Use
7	(7)	BITSTRING	1	CKBNREC	RECORD COUNT FROM CKDNREC
8	(8)	SIGNED	4	CKBSIZE(0)	SIZE OF ENTIRE CKB
8	(8)	SIGNED	1	CKBSUBP	Subpool CKB is in
9	(9)	SIGNED	3	CKBSIZEL	Length of CKB
12	(C)	ADDRESS	4	CKBTRK1T	ADDR OF TRACK ONE TABLE
Key data area used in the search key operations					

Table 72. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	8	CKBKEY	SEARCH KEY CCW ARGUMENT
Lock record read buffer					
24	(18)	DBL WORD	8	(0)	
24	(18)	BITSTRING	8	CKBLRKEY	Key portion of lock record
32	(20)	BITSTRING	372	CKBLRDAT	LOCK DATA INPUT AREA
32	(20)	SIGNED	4	CKBLRSYS	Member ID (\$SIDBUSY) Fld
36	(24)	SIGNED	4	CKBLRLVI	Level indicator field
40	(28)	CHARACTER	4	CKBLRSID	\$SID field
44	(2C)	CHARACTER	360	CKBLROTH(0)	Area to copy to check record if CKPT on CF
Any changes to the equates CKBLRPLN to CKBLRMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCFC module. The data is required to be mapped together.					
44	(2C)	CHARACTER	8	CKBLRPLN	MVS sysplex name
52	(34)	BITSTRING	4	CKBLRSYT	MVS system id/token
56	(38)	BITSTRING	8	CKBLRPLI	MVS sysplex id
64	(40)	BITSTRING	8	CKBLRMTK	XCF member token
72	(48)	CHARACTER	8	CKBLRMVS	MVS System Name
End of data to be mapped together for XCFQSTAT.					
404	(194)	X'168'	0	CKBLROTL	"*-CKBLROTH" Size of lock data to be moved to "check record" when CKPT is on CF
404	(194)	ADDRESS	2	(0)	Ensure hard coded
404	(194)	ADDRESS	2	(0)	length is correct
404	(194)	X'174'	0	CKBLKRLN	"*-CKBLRDAT" SIZE OF DATA AREA OF LOCK
Lock record write buffer					
408	(198)	DBL WORD	8	CKBLWKEY	STORAGE AREA FOR WRITING
408	(198)	X'198'	0	CKBLWKYP	"CKBLWKEY,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
416	(1A0)	BITSTRING	372	CKBLWDAT	LOCK RECORD KEY AND DATA
416	(1A0)	SIGNED	4	CKBLWSYS	Member ID (\$SIDBUSY) Fld
420	(1A4)	SIGNED	4	CKBLWLVI	Level indicator field
424	(1A8)	CHARACTER	4	CKBLWSID	\$SID field
428	(1AC)	CHARACTER	360	CKBLWOTH(0)	Area to copy to check record if CKPT on CF
Any changes to the equates CKBLWPLN to CKBLWMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCFC module. The data is required to be mapped together.					
428	(1AC)	CHARACTER	8	CKBLWPLN	MVS sysplex name
436	(1B4)	BITSTRING	4	CKBLWSYT	MVS system id/token

Table 72. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
440	(1B8)	BITSTRING	8	CKBLWPLI	MVS sysplex id
448	(1C0)	BITSTRING	8	CKBLWMTK	XCF member token
456	(1C8)	CHARACTER	8	CKBLWMVS	MVS System Name
End of data to be mapped together for XCFQSTAT.					
788	(314)	X'168'	0	CKBLWOTL	"*-CKBLWOTH" Size of lock data to be moved to "check record" when CKPT is on CF
788	(314)	ADDRESS	2	(0)	Ensure hard coded
788	(314)	ADDRESS	2	(0)	length is correct
Check record buffer					
792	(318)	DBL WORD	8	CKBCKDAT(0)	START OF CHECK RECORD DATA
792	(318)	CHARACTER	372	CKBCKREC(0)	Size of Check record (Offset table needs hard coded values)
792	(318)	BITSTRING	1	CKBCKHFM	CKPT DS FILE NAMES, FLAGS
792	(318)	X'318'	0	CKBCKHFP	"CKBCKHFM,308,C'C'" Get character version for offset table
1100	(44C)	ADDRESS	2	(0)	Ensure lengths are
1100	(44C)	ADDRESS	2	(0)	correct
1100	(44C)	SIGNED	1	CKBFORWD	Dataset forwarded indicator
1101	(44D)	BITSTRING	1	CKBCKFLG	Flag byte
		1...		CKBCKGMT	"B'10000000'" CKBWRTIM is in GMT
		.1..		CKBCKCKM	"B'01000000'" GMT offsets on all members are not within 1 minute (skip checks in HASPIRDA)
1102	(44E)	BITSTRING	6	CKBLVOTH	Level of other checkpoint (CKBCKLEV of other CKB)
1108	(454)	BITSTRING	32	CKBSVDEF	WLM Service Definition ID
1140	(474)	SIGNED	4	CKBWRTIM	Time data set last written
1144	(478)	DBL WORD	8	(0)	
1144	(478)	DBL WORD	8	CKBCKLEV	Level of all data in ckpt
1144	(478)	X'478'	0	CKBCKLVP	"CKBCKLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1144	(478)	X'47C'	0	CKBCKLVH	"CKBCKLEV+4,4,C'F'" Full word version of level number of 4K pages
1152	(480)	DBL WORD	8	CKB4KLEV	Level of 4K pages in ckpt
1152	(480)	X'480'	0	CKB4KLVP	"CKB4KLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1152	(480)	X'484'	0	CKB4KLVH	"CKB4KLEV+4,4,C'F'" Full word version of level number of 4K pages
1160	(488)	SIGNED	1	CKBCKVAL(0)	CHECK VALUE
1160	(488)	X'174'	0	CKBCKRLN	"*-CKBCKDAT" LENGTH OF CHECK RECORD
1164	(48C)	ADDRESS	2	(0)	Make sure hardcoded
1164	(48C)	ADDRESS	2	(0)	length is accurate
Other data buffers					

Table 72. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1164	(48C)	BITSTRING	8		Reserved for future IBM use
1176	(498)	DBL WORD	8	CKBDCONT(0)	Resume point for DASD CKB
1216	(4C0)	SIGNED	4	CKBCFSZE(0)	Size of CKB when CKPT is on a CF
Work areas used by PGSER BRANCH=SPECIAL requests					
1176	(498)	DBL WORD	8	(0)	Align save area
1176	(498)	BITSTRING	72	CKBPGSAV	Page fixed save area
1248	(4E0)	DBL WORD	8	CKBPGSSL(16)	16 entry SSL
31 bit I/O packets. There is one packet for every IOB defined in the CKI. The packets include IOB extensions, IOS diagnostic areas, and pointers to areas such as the IOB, CCW areas, etc. The packets are mapped by the CKP data area.					
1376	(560)	DBL WORD	8	(0)	Align data areas
1376	(560)	BITSTRING	0	CKBCKAS(0)	I/O work area packets
2672	(A70)	SIGNED	4		Reserved
2672	(A70)	X'1000'	0	CKBDASZE	"((*-CKB+2047)/2048)*2048" CKB length

Table 73. Structure CKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKA	, CKPT I/O work area packets
0	(0)	BITSTRING	48	CKAIOBE	IOB extension area (IOBE)
48	(30)	BITSTRING	96	CKAIEDB	I/O error data block (IEDB)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	ADDRESS	4	CKAIOB	Corresponding IOB pointer (pointer to CKIP)
148	(94)	ADDRESS	4	CKACCWS	CCW work area (4K)
152	(98)	ADDRESS	4	CKACCWD	CCW data area (4K)
Note that the range list (CKARNGL and CKARNGND) is in 31 bit storage of the JESxAUX address space. This is for use by the IARV64 when acting on 64 bit storage (in JESxAUX). The list is used for both 31 and 64 bit addresses, but 31 bit addresses are copied to CKBPGSSL before calling \$PGSRVC).					
156	(9C)	ADDRESS	4	CKARNGL	I/O range list (8K)
160	(A0)	ADDRESS	4	CKARNGND	Used part of RANGLIST end
164	(A4)	ADDRESS	4	CKAERCCW	Failing CCW address
168	(A8)	ADDRESS	4	CKAERCC2	2ndary failing CCW address
172	(AC)	BITSTRING	16	CKADXPXM	Define extend data area
188	(BC)	BITSTRING	5	CKACHR1	CCHHR for failing CCW
193	(C1)	BITSTRING	5	CKACHR2	CCHHR for failing CCW 2
198	(C6)	SIGNED	2	CKAERRCT	Appendage error retry cntr
200	(C8)	SIGNED	2	CKARETRY	General I/O error retry cnt
202	(CA)	SIGNED	2	CKALIRCT	Interrupted I/O retry cntr
204	(CC)	BITSTRING	1	CKAFLAG1	Processing flags
		1...		CKA1IOAC	"B'10000000" I/O active to this CKP
		.1..		CKA1LAST	"B'01000000" Last CKP

Table 73. Structure CKA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKA1MSTF	"B'00100000'" Master record fixed
205	(CD)	BITSTRING	1	CKASVFLG	Save area for last \$KIOFLAG
206	(CE)	SIGNED	2		Reserved
208	(D0)	SIGNED	4	(2)	Reserved
216	(D8)	DBL WORD	8	(0)	Align length
216	(D8)	X'D8'	0	CKALEN	"*-CKA" Length of a packet

Table 74. Structure CKI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKI	, CKPT I/O areas DSECT
0	(0)	CHARACTER	4	CKIID	Eyecatcher
DCB used for CKPT I/O DATA CONTROL BLOCK					
4	(4)	SIGNED	4	CKIDCBL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
4	(4)	ADDRESS	4		DCBE ADDRESS
8	(8)	BITSTRING	12		FDAD, DVTBL
20	(14)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
24	(18)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
25	(19)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
28	(1C)	ADDRESS	2		BUFL, BUFFER LENGTH
30	(1E)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
32	(20)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
36	(24)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
37	(25)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
40	(28)	BITSTRING	1		RECFM (RECORD FORMAT)
41	(29)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
44	(2C)	CHARACTER	8		DDNAME
52	(34)	BITSTRING	1		OFLGS (OPEN FLAGS)
53	(35)	BITSTRING	1		IFLGS (IOS FLAGS)
54	(36)	BITSTRING	2		MACR (MACRO FORMAT)
54	(36)	X'4'	0	CKIDCB	"CKIDCBL,*-CKIDCBL" DCB address and length
DCBE associated with DCB DATA CONTROL BLOCK EXTENSION.					
56	(38)	SIGNED	4	CKIDCBEL(0)	0 Alignment and identifier
60	(3C)	SIGNED	2		4 DCBE V0 length, min is 56'
62	(3E)	BITSTRING	2		6 Reserved, should be zero
64	(40)	ADDRESS	4		8 0 if not open, OPEN points to DCB
68	(44)	BITSTRING	4		C Disk address of current member
72	(48)	BITSTRING	1		10 Flags set by system
73	(49)	BITSTRING	1		11 Flags set by user

Table 74. Structure CKI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
74	(4A)	SIGNED	2		12 Number of stripes if extended format
76	(4C)	BITSTRING	1		14 Flags set by user
77	(4D)	BITSTRING	1		15 Flags
78	(4E)	BITSTRING	2		16 Reserved
80	(50)	BITSTRING	4		18 Reserved
84	(54)	SIGNED	4		1C Block size
88	(58)	BITSTRING	8		20 Reserved & number of blocks in ds
96	(60)	ADDRESS	4		28 End of data routine address or 0
100	(64)	ADDRESS	4		2C I/O error routine (synchronous) or 0
104	(68)	BITSTRING	4		30 Reserved, should be zero
108	(6C)	SIGNED	2		34 tape files written before sync
110	(6E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
110	(6E)	X'38'	0	CKIDCBE	"CKIDCBEL,*-CKIDCBEL" DCBE address and length
DCB exit vector list					
112	(70)	SIGNED	4	CKIVELL(0)	DCB exit list for ABEND
112	(70)	ADDRESS	1		DCB ABEND exit, Last entry
113	(71)	ADDRESS	3	CKIAEBGN	DCB exit code addr.
113	(71)	X'70'	0	CKIVEL	"CKIVELL,*-CKIVELL" DCB exit list addr/length
DCB CLOSE ABEND exit list (copied from HASPCKDA). See code at KALVDOAE for routine/interface info					
136	(88)	SIGNED	4	(0)	Alignment
136	(88)	X'74'	0	CKIVELST	"CKIVDOAE,*-CKIVDOAE" Exit routine area and len
Six IOBs used for I/O to the checkpoint.					
136	(88)	X'6'	0	CKIOBCNT	"6" Number of IOBs to create
136	(88)	DBL WORD	8	(0)	Align IOBs
136	(88)	BITSTRING	0	CKIIOBS(0)	6 sets of IOBs
Required 24 bit (and other) work areas					
472	(1D8)	DBL WORD	8	CKIDWORK	24 bit work area
480	(1E0)	ADDRESS	4	CKITRKLL	DVCT OR UCB ADDR, OR DEVTYPE
484	(1E4)	BITSTRING	1		FLAG BYTE
485	(1E5)	BITSTRING	1		RESERVED
486	(1E6)	ADDRESS	2		TRACK BALANCE
488	(1E8)	ADDRESS	1		RECORD NUMBER
489	(1E9)	ADDRESS	1		KEY LENGTH
490	(1EA)	ADDRESS	2		DATA LENGTH
490	(1EA)	X'1E0'	0	CKITRKCL	"CKITRKLL,*-CKITRKLL" Work area equate

Table 74. Structure CKI (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
496	(1F0)	DBL WORD	8	(0)	Align length
496	(1F0)	X'1F0'	0	CKILEN	"*-CKI" Length of data area

Table 75. Structure CKIP

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKIP	, CKPT I/O work area packets
0	(0)	BITSTRING	40	CKIPIOB	Checkpoint IOB
40	(28)	SIGNED	4	CKIPECB	and I/O ECBs
44	(2C)	ADDRESS	4	CKIPCKA	I/O packet work area (CKA)
48	(30)	ADDRESS	4	CKIPCKB	CKB pointer
52	(34)	SIGNED	4		Reserved
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	CKIPLN	"*-CKIP" Length of IOB area

Table 76. Cross Reference for \$CK

Name	Offset	Hex Tag
CKA	0	
CKACCWD	98	
CKACCWS	94	
CKACHR1	BC	
CKACHR2	C1	
CKADXPRM	AC	
CKAERCCW	A4	
CKAERCC2	A8	
CKAERRCT	C6	
CKAFLAG1	CC	
CKAIEDB	30	
CKAIOB	90	
CKAIOBE	0	
CKALEN	D8	D8
CKALIRCT	CA	
CKARETRY	C8	
CKARGL	9C	
CKARNGND	A0	
CKASVFLG	CD	
CKA1IOAC	CC	80
CKA1LAST	CC	40
CKA1MSTF	CC	20
CKB	0	
CKBCFSZE	4C0	

Table 76. Cross Reference for \$CK (continued)

Name	Offset	Hex Tag
CKBCKAS	560	
CKBCKCKM	44D	40
CKBCKDAT	318	
CKBCKFLG	44D	
CKBCKGMT	44D	80
CKBCKHFM	318	
CKBCKHFP	318	318
CKBCKLEV	478	
CKBCKLVH	478	47C
CKBCKLVP	478	478
CKBCKREC	318	
CKBCKRLN	488	174
CKBCKVAL	488	
CKBDASZE	A70	1000
CKBDCONT	498	
CKBFLAG1	4	
CKBFLAG2	5	
CKBFLAG3	6	
CKBFORWD	44C	
CKBID	0	
CKBKEY	10	
CKBLKRLN	194	174
CKBLRDAT	20	
CKBLRKEY	18	
CKBLRLVI	24	
CKBLRMTK	40	
CKBLRMVS	48	
CKBLROTH	2C	
CKBLROTL	194	168
CKBLRPLI	38	
CKBLRPLN	2C	
CKBLRSID	28	
CKBLRSYS	20	
CKBLRSYT	34	
CKBLVOTH	44E	
CKBLWDAT	1A0	
CKBLWKEY	198	
CKBLWKYP	198	198
CKBLWLVI	1A4	

Table 76. Cross Reference for \$CK (continued)

Name	Offset	Hex Tag
CKBLWMTK	1C0	
CKBLWMVS	1C8	
CKBLWOTH	1AC	
CKBLWOTL	314	168
CKBLWPLI	1B8	
CKBLWPLN	1AC	
CKBLWSID	1A8	
CKBLWSYS	1A0	
CKBLWSYT	1B4	
CKBNREC	7	
CKBPGSAV	498	
CKBPGSSL	4E0	
CKBSIZE	8	
CKBSIZEL	9	
CKBSUBP	8	
CKBSVDEF	454	
CKBTRK1T	C	
CKBWRTIM	474	
CKB1SHFL	4	40
CKB1SPCI	4	20
CKB2MSLI	5	1
CKB2RCHK	5	80
CKB2RLCK	5	10
CKB2RLOG	5	4
CKB2RMST	5	8
CKB2TLCK	5	20
CKB2WCHK	5	40
CKB2WLCK	5	2
CKB4KLEV	480	
CKB4KLVH	480	484
CKB4KLVP	480	480
CKI	0	
CKIAEBGN	71	
CKIDCB	36	4
CKIDCBE	6E	38
CKIDCBEL	38	C4C3C2C5
CKIDCBL	4	
CKIDWORK	1D8	
CKIID	0	C3D2C940

Table 76. Cross Reference for \$CK (continued)

Name	Offset	Hex Tag
CKIIOBS	88	
CKILEN	1F0	1F0
CKIOBCNT	88	6
CKIP	0	
CKIPCKA	2C	
CKIPCKB	30	
CKIPECB	28	
CKIPIOB	0	
CKIPLN	38	38
CKITRKCL	1EA	1E0
CKITRKLL	1E0	
CKIVEL	71	70
CKIVELL	70	
CKIVELST	88	74

\$CKGPAR information

\$CKGPAR heading information

Common name:	Checkpoint Generalized Parameter List
Macro ID:	\$CKGPAR
DSECT name:	CKG
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CKG Offset: CKGID Length: L'CKGID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual is in 31 bit storage private storage in the JES2 address space. Real can be in 64 bit storage.
Size:	See CKGSIZE
Created by:	HASPIRDA for the checkpoint data sets that are defined in the JES2 initialization stream KDIALOG for data sets that are being allocated during the checkpoint reconfiguration dialog.
Pointed to by:	\$CKG1 field of the HCT data area \$CKG2 field of the HCT data area
Serialization:	None required.
Function:	This DSECT describes the parameter list required by all checkpoint management routines.

\$CKGPAR mapping

Table 77. Structure CKG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKG	
0	(0)	CHARACTER	4	CKGID	CONTROL BLOCK EYE CATCHER
4	(4)	SIGNED	1	CKGVER	VERSION IDENTIFIER
4	(4)	X'2'	0	CKGVNR	"2" Version number
5	(5)	BITSTRING	1	CKGFLAG1	FLAGS
		1...		CKG1ESUP	"B'10000000'" SUPRESS I/O ERROR MESSAGES FOR THIS DATA SET
		.1...		CKG1LOKD	"B'01000000'" THIS FILE HAS BEEN LOCKED
		..1.		CKG1ITRP	"B'00100000'" THIS FILE HAS HAD INTERRUPTED I/O
		...1		CKG1IOER	"B'00010000'" THIS FILE HAS HAD AN I/O ERROR
		.... 1...		CKG1EXTN	"B'00001000'" File successfully extended
		.... .1..		CKG1DELE	"B'00000100'" Delete structure at unalloc
		.... ..1.		CKG1RESV	"B'00000010'" Hardware RESERVE requested or held
6	(6)	BITSTRING	1	CKGFLAG2	Second flag byte
		1...		CKG2DASD	"B'10000000'" Checkpoint resides on DASD
		.1...		CKG2CF	"B'01000000'" Checkpoint resides on CF
		..1.		CKG2FCON	"B'00100000'" This was the first connect to the structure, and as such, caused the actual allocation of the struct. in the Coupling Facility. Used by KFORMAT
		...1		CKG2ALOC	"B'00010000'" Data set allocated
		.... 1...		CKG2RBLD	"B'00001000'" A CF rebuild is in progress
		.... .1..		CKG2EMPTY	"B'00000100'" Structure has no records
		.... ..1.		CKG2CYL	"B'00000010'" Data set allocated on EAV cylinder managed-EAS storage.
		.... ...1		CKG2IORQ	"B'00000001'" I/O required (CF or EXCP)
7	(7)	BITSTRING	1	CKGALPRM	Hold CKPTALOC parm list for use by CFFORMAT
7	(7)	X'80'	0	CKGAOLD	"\$CKAOLD" OLD=YES was specified
7	(7)	X'40'	0	CKGANEW	"\$CKANEW" NEW=YES was specified
7	(7)	X'20'	0	CKGADEF	"\$CKADEF" NEW=DEFER was specified
8	(8)	CHARACTER	8	CKGFILE	FILE NAME
16	(10)	ADDRESS	4	CKGHFAME	ADDRESS OF THE HFAME
20	(14)	ADDRESS	4	CKGCKB	ADDRESS OF THE CKB
24	(18)	ADDRESS	4	CKGTOKEN	ADDRESS OF A TOKEN FIELD
28	(1C)	ADDRESS	4	CKGDTE	Address of related DTE
32	(20)	ADDRESS	4	CKGCKI	Address of the CKI
36	(24)	ADDRESS	4	CKGTOT	ADDR OF THE TRACK 1 TABLE (TOT)
40	(28)	SIGNED	4	CKGCF4KL	Size, in 4K elements, the structure is lacking

Table 77. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	CKGCFSIZ	Size, in 1K units, of the CF structure
48	(30)	CHARACTER	16	CKGCONTK	Connection Token (only used if data set in CF)
64	(40)	SIGNED	1	CKGCONID	Connection Id (only used if data set in CF)
65	(41)	BITSTRING	1	CKGFLAG3	CKB CF Request footprints
		1...		CKG3MOVE	"B'10000000" IXLLSTx MOVE Request
		.1..		CKG3RITE	"B'01000000" IXLLSTx WRITE Request
		..1.		CKG3READ	"B'00100000" IXLLSTx READ Request
		...1		CKG3LOCK	"B'00010000" IXLLSTx LOCK Request
		.... 1...		CKG3RLST	"B'00001000" IXLLSTx READLIST Request
		.... .1..		CKG3DELM	"B'00000100" IXLLSTx DELETE MULT rqst
		.... ..1.		CKG3ALTR	"B'00000010" IXLALTER request
66	(42)	BITSTRING	1	CKGFLAG4	Fourth flag byte
		1...		CKG4LE0B	"B'10000000" List 0 LEIDs are built
		.1..		CKG4LE1B	"B'01000000" List 1 LEIDs are built
		..1.		CKG4COND	"B'00100000" Get LOCK conditionally
		...1		CKG4STEL	"B'00010000" Steal the CF lock from CKGSCNID holder
		.... 1...		CKG4NOCK	"B'00001000" No check record found for data set on CF
		.... .1..		CKG4WCFL	"B'00000100" Waiting for CF lock
		.... ..1.		CKG4DUPC	"B'00000010" Duplicate connection - when this data set was allocated on CF, NEWCKPTn pointed to the same str as CKPTn; however, we can only have one connection active to a given str at time.
		.... ...1		CKG4VALR	"B'00000001" Validation error
67	(43)	BITSTRING	1	CKGFLAG5	CCW 1 I/O Error flags
		1...		CKG5NDTR	"B'10000000" No data written on error
		.1..		CKG5DTRS	"B'01000000" Data written on error
		..1.		CKG5CHKR	"B'00100000" Error on CHECK record
		...1		CKG5LCKR	"B'00010000" Error on LOCK record
		.... 1...		CKG5MSTR	"B'00001000" Error on MASTER record
		.... .1..		CKG5LOGR	"B'00000100" Error on Change log recd
		.... ..1.		CKG5PAGR	"B'00000010" Error on 4K page record
		.... ...1		CKG5VERP	"B'00000001" Error on verify CCWs
68	(44)	BITSTRING	1	CKGFLAG6	CCW 2 I/O Error flags Bit definitions are the same as CKGFLAG5
69	(45)	BITSTRING	1	CKGFLAG7	Subtask set error flags
		1...		CKG7NODS	"B'10000000" Data set obtain error
70	(46)	BITSTRING	2		Reserved for future use
72	(48)	BITSTRING	4	CKGERROR(0)	Error flag word (set by CFALOC, used by PRE536 to display variable text of HASP536 message)
72	(48)	BITSTRING	3	CKGCFERR	\$OFFSTBL only supports

Table 77. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
75	(4B)	BITSTRING	1		bit string of length 24.
76	(4C)	SIGNED	4	CKGSUBRC	CKPT subtask request RC
80	(50)	SIGNED	4	CKGCKRC	RC from MVS services
84	(54)	SIGNED	4	CKGCKRSN(0)	Reason code from service
84	(54)	SIGNED	2	CKGCFRIN	First two bytes are internally defined
86	(56)	SIGNED	2	CKGCFREX	Last two bytes have external meaning
88	(58)	CHARACTER	4	CKGMSGID	Error message to issue
92	(5C)	ADDRESS	4	CKGANSA	Pointer to hold a single IXLLIST answer area.
96	(60)	SIGNED	4	CKGECEB	XECB for asynch IXL reqs
96	(60)	BITSTRING	24	CKGXECB	XECB for asynch IXL reqs
120	(78)	SIGNED	4	CKGRECEB	ECB portion of XECB for CF locking and DASD reserve
120	(78)	BITSTRING	24	CKGRXECB	XECB for CF locking request
144	(90)	ADDRESS	8	CKGLIST0	Addr of LIST0 data buffer
152	(98)	SIGNED	4	CKGT1NUM	Number of elements in a Track1 CF access
156	(9C)	SIGNED	1	CKGL0BLT	ID of List0 Leid builder
157	(9D)	SIGNED	1	CKGL1BLT	ID of List1 Leid builder
158	(9E)	BITSTRING	1	CKGECEBTP	I/O completion code for \$HASP291 message
159	(9F)	SIGNED	1	CKGSCNID	Steal lock from CONID
160	(A0)	ADDRESS	4	CKGCFQUD	CFQU data area pointer
164	(A4)	SIGNED	2	CKGRETRY	Error retry counter
166	(A6)	SIGNED	2		Reserved for future IBM use
168	(A8)	SIGNED	4		Reserved for future IBM use
176	(B0)	DBL WORD	8	(0)	Round size to doubleword
176	(B0)	X'B0'	0	CKGSIZE	"*-CKG" SIZE OF THE CKG
Use the DS 0S to ensure that fields in the CKG that are dependent on fields in MVS control blocks are the correct size. Since the S-con can not have a length associated with it (and it therefore forces half-word alignment), the S-cons are grouped down here.					

176	(B0)	ADDRESS	2	(0)	Verify CKGCONTK
176	(B0)	ADDRESS	2	(0)	and CONCONTOKEN are same length
176	(B0)	ADDRESS	2	(0)	Verify CKGCONID
176	(B0)	ADDRESS	2	(0)	and CONACONID are the same length

Table 78. Cross Reference for \$CKGPAR

Name	Offset	Hex Tag
CKG	0	
CKGADEF	7	20
CKGALPRM	7	
CKGANEW	7	40
CKGANSA	5C	

Table 78. Cross Reference for \$CKGPARG (continued)

Name	Offset	Hex Tag
CKGAOLD	7	80
CKGCFERR	48	
CKGCFQUD	A0	
CKGCFREX	56	
CKGCFRIN	54	
CKGCFSIZ	2C	
CKGCF4KL	28	
CKGCKB	14	
CKGCKI	20	
CKGCKRC	50	
CKGCKRSN	54	
CKGCONID	40	
CKGCONTK	30	
CKGDTE	1C	
CKGECB	60	
CKGECBTP	9E	
CKGERROR	48	
CKGFILE	8	
CKGFLAG1	5	
CKGFLAG2	6	
CKGFLAG3	41	
CKGFLAG4	42	
CKGFLAG5	43	
CKGFLAG6	44	
CKGFLAG7	45	
CKGHFAME	10	
CKGID	0	C3D2C740
CKGLIST0	90	
CKGL0BLT	9C	
CKGL1BLT	9D	
CKGMSGID	58	
CKGRECB	78	
CKGRETRY	A4	
CKGRXECB	78	
CKGSCNID	9F	
CKGSIZE	B0	B0
CKGSUBRC	4C	
CKGTOKEN	18	
CKGTOT	24	

Table 78. Cross Reference for \$CKGPAR (continued)

Name	Offset	Hex Tag
CKGT1NUM	98	
CKGVER	4	
CKGVNR	4	2
CKGXECB	60	
CKG1DELE	5	4
CKG1ESUP	5	80
CKG1EXTN	5	8
CKG1IOER	5	10
CKG1ITRP	5	20
CKG1LOKD	5	40
CKG1RESV	5	2
CKG2ALOC	6	10
CKG2CF	6	40
CKG2CYL	6	2
CKG2DASD	6	80
CKG2EMPT	6	4
CKG2FCON	6	20
CKG2IORQ	6	1
CKG2RBLD	6	8
CKG3ALTR	41	2
CKG3DELM	41	4
CKG3LOCK	41	10
CKG3MOVE	41	80
CKG3READ	41	20
CKG3RITE	41	40
CKG3RLST	41	8
CKG4COND	42	20
CKG4DUPC	42	2
CKG4LE0B	42	80
CKG4LE1B	42	40
CKG4NOCK	42	8
CKG4STEL	42	10
CKG4VALR	42	1
CKG4WCFL	42	4
CKG5CHKR	43	20
CKG5DTRS	43	40
CKG5LCKR	43	10
CKG5LOGR	43	4
CKG5MSTR	43	8

Table 78. Cross Reference for \$CKGPAR (continued)

Name	Offset	Hex Tag
CKG5NDTR	43	80
CKG5PAGR	43	2
CKG5VERP	43	1
CKG7NODS	45	80

\$CKM information

\$CKM heading information

Common name:	JES2 Checkpoint Inter-member Communications Area
Macro ID:	\$CKM
DSECT name:	CKM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CKM ' Offset: CKMID-CKM Length: L'CKM
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See CKMLEN
Created by:	Routine CKRRINIT during JES2 initialization
Pointed to by:	CKWCKMA field of the \$CKW data area
Serialization:	None required
Function:	The \$CKM data area is used by JES2 checkpoint reconfiguration routines to coordinate processing with other members in a MAS. The \$CKM contains fields to communicate with callers of the CKRRxxxx routines and fields used internally to communicate with other members using JESXCF services.

\$CKM mapping

Table 79. Structure CKM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKM	, Checkpoint inter-member communications area
0	(0)	CHARACTER	4	CKMID	Control block eyecatcher
4	(4)	ADDRESS	1	CKMVERSN	Control block version
4	(4)	X'1'	0	CKMVERN	"1" Current version number
5	(5)	BITSTRING	3		Reserved for future use

Table 79. Structure CKM (continued)

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	X'4'	0	CKMSRCCN	"4" Reconfig cancelled by JES2
Input/Output for routine CKRRSYNC callers. Fields in section are named CKMCxxxx. | "C" for sync Output fields are available to caller until the next CKRRSYNC or CKRRDONE call.					
472	(1D8)	DBL WORD	8	(0)	Alignment
472	(1D8)	BITSTRING	0	CKMCPARM(0)	CKRRSYNC parameter list
472	(1D8)	DBL WORD	8	CKMCBEGN(0)	Beginning of CKRRSYNC parms
472	(1D8)	BITSTRING	1	CKMCFLG1	(I0) Flag byte 1 for CKRRSYNC
		1...		CKMC1DMF	"B'10000000'" (.0) - Driving member failed
		.1...		CKMC1NDM	"B'01000000'" (.0) - This member is new driver (This bit only set for transitions, and NOT on subsequent syncs)
		..1.		CKMC1OKW	"B'00100000'" (I0) - OK for this non-driving member to wait for driver without issuing a delay message. Always zero on return
473	(1D9)	BITSTRING	3		
476	(1DC)	CHARACTER	4	CKMCCDMN	(.0) Name of current/new driving member
480	(1E0)	CHARACTER	8	CKMCTYPE	(I.) Type of sync call
CKMCACT contains an "action" code set by the driving member that tells non-driving members what to do.					
488	(1E8)	SIGNED	4	CKMCACT	(I0) Action code (in on driver)
488	(1E8)	X'0'	0	CKMCACNL	"0" - Null (Action implied by CKMCTYPE)
488	(1E8)	X'4'	0	CKMCACCT	"4" - Continue (All members successful, wrap up and call DONE)
488	(1E8)	X'8'	0	CKMCACRT	"8" - Retry (Member(s) unsuccessful, retry from the top)
488	(1E8)	X'C'	0	CKMCACOC	"12" - Operator requested CANCEL or TERM
488	(1E8)	X'10'	0	CKMCACF1	"16" - Start using forwarded CKPT1
488	(1E8)	X'14'	0	CKMCACF2	"20" - Start using forwarded CKPT2
488	(1E8)	X'18'	0	CKMCACS1	"24" - Suspend CKPT1
488	(1E8)	X'1C'	0	CKMCACS2	"28" - Suspend CKPT2
488	(1E8)	X'20'	0	CKMCACU1	"32" - Start using CKPT1
488	(1E8)	X'24'	0	CKMCACU2	"36" - Start using CKPT2
488	(1E8)	X'28'	0	CKMCACRF	"40" - Reformat CKPTs on driver
The "condition" fields communicate conditions from all members to the driving member. Conditions are collected into a vector on the driving member.					
492	(1EC)	SIGNED	4	CKMCICON	(I.) Condition on entering CKRRSYNC call
492	(1EC)	X'0'	0	CKMCCCNL	"0" (.0) - Null condition (member not participating or failed)

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
492	(1EC)	X'4'	0	CKMCCCOK	"4" (I0) - OK condition (previous action successful or no condition to report)
492	(1EC)	X'8'	0	CKMCCCUS	"8" (I0) - Unsuccessful result from previous action
496	(1F0)	BITSTRING	128	CKMCCONV	(.0) (On driver only) A vector containing the condition from each member
624	(270)	SIGNED	4	CKMCCONM	(.0) (On driving member only) Maximum condition value from CKMCCONV vector
<p>"Reason codes" are communicated from all members to the driving member. The "reason codes" are collected into a vector on the driving member. Reason codes are set to zero by CKRRSYNC for non-participating or failed members.</p>					
628	(274)	SIGNED	4	CKMCIRSN	(I.) Reason code on entry to CKRRSYNC call
632	(278)	BITSTRING	1	CKMCRSNV	(.0) (On driver only) A vector containing reason codes for each member
Latest \$HFAM from driving member					
760	(2F8)	BITSTRING	308	CKMCHFAM	(I0) Copy of HFAM from driver when CKRRSYNC called
1068	(42C)	BITSTRING	4		Reserved for future use
1072	(430)	DBL WORD	8	CKMCEND(0)	End of CKRRSYNC parm list
CKRRSYNC return codes					
1072	(430)	X'0'	0	CKMCRCOK	"0" SYNC processing completed
1072	(430)	X'4'	0	CKMCRCDF	"4" Driving member failed
<p>Input/Output for routine CKRRDONE callers. Fields in section are named CKMDxxxx. | "D" for done Output fields are available to caller until the next CKRRSTRT call. CKRRDONE return codes</p>					
1072	(430)	X'0'	0	CKMDRCOK	"0" DONE processing completed
1072	(430)	X'4'	0	CKMDRCRC	"4" Re-enter CKPT reconfig (Start-up request for new reconfig was received)
<p>Data internal to CKRRxxxx routines. Fields in section are named CKMIxxxx. | "I" for internal Fields between CKMIDATA and CKMICLR1 are persistent for the life of this JES2. Fields beginning at CKMICLR1 are cleared when CKRRSTRT is called. Fields beginning at CKMICLR2 are cleared when CKRRSYNC or CKRRDONE are called.</p>					
1072	(430)	DBL WORD	8	CKMIDATA(0)	Beginning of internal data
1072	(430)	CHARACTER	8	CKMIIEYE	Internal data eyecatcher (set by CKRRINIT)
1080	(438)	ADDRESS	4	CKMICKXA	Addr of CKX used to build messages and acks (obtained by CKRRINIT)
1084	(43C)	ADDRESS	4	CKMICKXS	Addr of CKX used to save last received msg or ack (obtained by CKRRINIT)

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1088	(440)	DBL WORD	8	CKMICRST	Reconfig start TOD (STCK)
1096	(448)	DBL WORD	8	CKMICRET	Reconfig end TOD (STCK)
1104	(450)	SIGNED	4	CKMICRSE	Count of system events received during reconfig
1108	(454)	SIGNED	4	CKMICRIF	Count of IXZXIXIF requests issued in reconfiguration
1112	(458)	SIGNED	4	CKMIXECB(0)	XECB to wait on
General status flag byte					
1136	(470)	BITSTRING	1	CKMI1LG1	General status flag byte 1
		1...		CKMI1CAP	"B'10000000" - Reconfiguration capable
		.1..		CKMI1RST	"B'01000000" - Reconfiguration started
		..1.		CKMI1CAN	"B'00100000" - Reconfiguration cancelled by JES2
1137	(471)	BITSTRING	3		Reserved
Mailbox names (set by CKRRINIT)					
1140	(474)	CHARACTER	1	CKMIMBNS	
1156	(484)	CHARACTER	1	CKMIMBNR	
Delay time constants (set by CKRRINIT)					
0	(0)	X'F'	0	CKMISECS	"15" Wait time for other members in seconds
1172	(494)	SIGNED	4	CKMISTBI	STIMERM wait time for other members in 100th's of seconds
1172	(494)	X'3'	0	CKMISECI	"3" Wait time for IXZXIXIF to complete in seconds
1176	(498)	SIGNED	4	CKMISTIF	STIMERM wait time for IXZXIXIF in 100th's of seconds
1176	(498)	X'64'	0	CKMIIFFC	"100" Interval between IXZXIXIF requests in 100th's of seconds
1180	(49C)	SIGNED	4	CKMIIFFI	STIMERM wait time between IXZXIXIF requests in 100th's of seconds
JESXCF post exit information (set by CKRRINIT). Field CKMICKMA is also used for STIMERM.					
1184	(4A0)	ADDRESS	4	CKMICKMA	Pointer to \$CKM used by IXZXIXMB for POSTDATA= and STIMERM for PARM=
1188	(4A4)	ADDRESS	4	CKMIHCTA	Addr of \$HCT for post exit
1188	(4A4)	X'4'	0	CKMIPXRP	"4" Post exit reason code for incorrect exit parm list
1188	(4A4)	X'8'	0	CKMIPXRD	"8" Post exit reason code for incorrect post data
1188	(4A4)	X'C'	0	CKMIPXRM	"12" Post exit reason code for incorrect mailbox name
1192	(4A8)	SIGNED	4		Reserved

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Beginning of area cleared by CKRRSTRT. Warning: The remainder of the \$CKM data area is cleared when CKRRSTRT is called. The area from CKMICLR1 for a length of CKMICL1L is cleared. Note: See CKMICLR2 below for beginning of area to clear on CKRRSYNC and CKRRDONE calls.					
1200	(4B0)	DBL WORD	8	CKMICLR1(0)	Begin area to clear on STRT
Reconfiguration status flags					
1200	(4B0)	BITSTRING	1	CKMI2FLG2	General status flag byte 2
		1...		CKMI2NIH	"B'10000000" - Reconfig initiated from elsewhere assumed
		.1..		CKMI2ONE	"B'01000000" - Single member reconfig (Set by IFGETVER rtn)
		..1.		CKMI2RCO	"B'00100000" - Reconfig is committed (First driving member was committed)
		...1		CKMI2DCO	"B'00010000" - Driving member is (re)committed
		.... 1...		CKMI2DRV	"B'00001000" - We are driving member
		.... .1..		CKMI2DMF	"B'00000100" - Driving member failed during this SYNC/DONE (or was previously pending)
		.... ..1.		CKMI2DFP	"B'00000010" - Driving member failed is pending for next call to CKRRSYNC
		.... ...1		CKMI2WSG	"B'00000001" - This non-driving member waiting for a sync go-ahead message
1201	(4B1)	BITSTRING	1	CKMI2FLG3	General status flag byte 3
		1...		CKMI3RDD	"B'10000000" - Ready for driver decommit
		.1..		CKMI3IFT	"B'01000000" - STIMERM used to control frequency of IXZXIXIF requests is set
1202	(4B2)	BITSTRING	1		Reserved
The following byte is permanently dedicated for IBM internal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or \$K25 ABENDs.					
1203	(4B3)	CHARACTER	1	CKMIFCT	FCT test byte
Reconfiguration operation sequence number Starts at zero on exit from CKRRSTRT and increments by one for each CKRRSYNC and by one more for CKRRDONE.					
1204	(4B4)	SIGNED	4	CKMIOSEQ	Operation sequence number
Information about members participating in the current reconfiguration This information is looked at, but NOT set by, the IFGETVER (get member information) routine. IFGETVER does, however, subtract failed members from the participating member mask.					
1208	(4B8)	SIGNED	4	CKMIDMNO	Current/last committed
1212	(4BC)	CHARACTER	4	CKMIDMNA	driver number and name

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1216	(4C0)	SIGNED	4	CKMIDCNO	Current/last candidate
1220	(4C4)	CHARACTER	4	CKMIDCNA	driver number and name (zeros unless driver is being selected)
1224	(4C8)	BITSTRING	4	CKMIMMPM	Participating member mask
1228	(4CC)	BITSTRING	4		Reserved
Timing data					
1232	(4D0)	DBL WORD	8	(0)	Alignment
--ISTMS STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88					
1232	(4D0)	BITSTRING	24	CKMISTMS	REMOTE STIMERM SET PARM LIST
1232	(4D0)	X'18'	0	CKMISTSL	"*-CKMISTMS" Length of parm list
--ISTMC STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88					
1256	(4E8)	BITSTRING	16	CKMISTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
1256	(4E8)	X'10'	0	CKMISTCL	"*-CKMISTMC" Length of parm list
1272	(4F8)	DBL WORD	8	(0)	Alignment
1272	(4F8)	SIGNED	4	CKMISTMI	STIMERM ID=id-area while waiting for response from IXZXIXIF service
1276	(4FC)	SIGNED	4	CKMISTMM	STIMERM ID=id-area while waiting for msg, ack or system event
1280	(500)	SIGNED	4	CKMISTME	STIMERM ID=id-area used for postponed IXZXIXIF request
1284	(504)	SIGNED	4	CKMISTEI	STIMERM interval set for postponed IXZXIXIF request
1288	(508)	BITSTRING	1	CKMISTF	Interval timer flag byte (This byte is serialized with OIL and NIL)
		1...		CKMISTFI	"B'10000000'" STIMERM interval expired IXZXIXIF service
		.1..		CKMISTFM	"B'01000000'" STIMERM interval expired for msg, ack or sys event
		..1.		CKMISTFE	"B'00100000'" STIMERM interval expired for postponed IXZXIXIF request
1289	(509)	BITSTRING	7		Reserved
Beginning of area cleared by CKRRSYNC and CKRRDONE calls. Warning: The remainder of the \$CKM data area is cleared when CKRRSYNC or CKRRDONE is called. The area from CKMICLR2 for a length of CKMICL2L is cleared. Note: See CKMICLR1 above for beginning of area to clear on CKRRSTRT calls.					
1296	(510)	DBL WORD	8	CKMICLR2(0)	Begin area to clear on SYNC or DONE calls
Information returned from IFGETVER routine					
1296	(510)	BITSTRING	1	CKMIIFG	IFGETVER flags
		1...		CKMIIFGD	"B'10000000'" - Failed driver candidate's state indicates driver
		.1..		CKMIIFGC	"B'01000000'" - Failed driver XCF user state shows committed

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1297	(511)	BITSTRING	3		Reserved
1300	(514)	BITSTRING	4	CKMIMMRC	Reconfig capable mask
1304	(518)	BITSTRING	4	CKMIMMST	Reconfig started mask
1308	(51C)	BITSTRING	4	CKMIMMMD	Member MUST drive mask
1312	(520)	BITSTRING	4	CKMIMMCO	Reconfig committed mask
1316	(524)	BITSTRING	4	CKMIMMDR	Driving member mask
1320	(528)	SIGNED	4	CKMIICNO	Candidate for driving member (based on CKPT level and MUST drive)
1324	(52C)	CHARACTER	4	CKMIICNA	Candidate's name
1328	(530)	SIGNED	4	CKMIIDNO	Driving member number (Based on XMAUC1DR bit of lowest participating mem)
1332	(534)	CHARACTER	4	CKMIIDNA	Driving member name
1336	(538)	CHARACTER	128	CKMIMEMV	Vector of member names
1464	(5B8)	BITSTRING	160	CKMIMCLV	Vector member CKPT levels from XMAUCRLV in member's XCF user state
1624	(658)	SIGNED	4	CKMIIFTS	BIN time stamp of last IXZXIXIF completion
Bit mapped work mask for member states, etc.					
1628	(65C)	BITSTRING	4	CKMIMMWK	Member affinity work mask
1632	(660)	BITSTRING	1	CKMERRAF	Mask of systems to dump
Data used by the WUSTATE routine - R1 parameter equates for expected XCF user state data - Mask of members that have not made the expected state change and have a HASP257 message outstanding					
1632	(660)	X'1'	0	CKMIWUST	"1" Expecting "started"
1632	(660)	X'2'	0	CKMIWUDR	"2" Expecting "driving member" (issued by non-drivers)
1632	(660)	X'3'	0	CKMIWUCO	"3" Expecting "reconfiguration committed" (issued by driver only)
1632	(660)	X'4'	0	CKMIWUDD	"4" Expecting "driver done" (issued by non-drivers waiting for driver to revert to capable only)
1632	(660)	X'5'	0	CKMIWUAD	"5" Expecting "all done" (every participating member to revert to capable only)
1636	(664)	BITSTRING	1	CKMIWUDM	Mask of delayed members w/ pending user state change
Driver selection information					
1640	(668)	SIGNED	4	(0)	Alignment
1640	(668)	BITSTRING	0	CKMIDS(0)	Driver selection info
1640	(668)	SIGNED	4	CKMIDSBG(0)	Begin driver selection info
1640	(668)	BITSTRING	1	CKMIDFLG	Reconfig reason flags
		1...		CKMIDFOV	"B'10000000" - Use OPVERIFY=YES
		.1..		CKMIDFI1	"B'01000000" - I/O error on CKPT1
		..1.		CKMIDFI2	"B'00100000" - I/O error on CKPT2
1640	(668)	X'60'	0	CKMIDFIO	"CKMIDFI1+CKMIDFI2" - I/O error on CKPTn

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CKMIDFCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKMIDFOR	"B'00001000'" - Operator requested dialog
		.... .1..		CKMIDFCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKMIDFHU	"B'00000010'" - Pending HFAM update
		.... ...1		CKMIDFST	"B'00000001'" - Set CKPTDEF command (also sets CKMIDFOR)
1641	(669)	BITSTRING	1	CKMIDFL2	Reconfig reason flags
		1...		CKMIDFRF	"B'10000000'" - Reformat CKPT request
1642	(66A)	BITSTRING	2		Reserved
1644	(66C)	SIGNED	4	CKMIDSOS	Operation sequence number
1648	(670)	BITSTRING	4	CKMIDCON	Console ID or zero
1652	(674)	SIGNED	4	CKMIDSI1	Number of CKPT1 I/O errors
1656	(678)	SIGNED	4	CKMIDSI2	Number of CKPT2 I/O errors
1660	(67C)	CHARACTER	4	CKMIDNAM	Name of driving member
1664	(680)	CHARACTER	128	CKMIDPMV	Participating memb names
1792	(700)	BITSTRING	308	CKMIDSHF	HFAM to initially use for this reconfig instance
2100	(834)	SIGNED	4	CKMIDSEN(0)	End driver selection info
Reason codes for \$K28 errors					
2100	(834)	X'1'	0	CKMIECKM	"1" CKM eyecatcher error
2100	(834)	X'2'	0	CKMIESND	"2" STRT called again w/o DONE
2100	(834)	X'3'	0	CKMIECNS	"3" SYNC called before STRT
2100	(834)	X'4'	0	CKMIECAN	"4" SYNC called after reconfig cancelled by JES2
2100	(834)	X'5'	0	CKMIEDNS	"5" DONE called before STRT
2100	(834)	X'6'	0	CKMIESTE	"6" More than one reconfig reason in parm list
2100	(834)	X'7'	0	CKMIECTE	"7" Sync type (CKMCTYPE) mismatch detected by this non-driving member
2100	(834)	X'8'	0	CKMIESWD	"8" Non-driving member called CKRRSYNC when driving member called CKRRDONE
2100	(834)	X'9'	0	CKMIEDWS	"9" Non-driving member called CKRRDONE when driving member called CKRRSYNC
2100	(834)	X'A'	0	CKMIEIEC	"10" Internal eyecatcher error (Possible storage overlay from STRT/ SYNC parm list)
Register save area, \$ERROR reason code, and \$Kxx error code index. Fields are set by the \$CKRRRC, \$CKRRV and \$CKRRK30 macros and CRERROR routine.					
2100	(834)	SIGNED	4	CKMIKRG(3)	R14, R15, R0 at time of error
2112	(840)	SIGNED	4	CKMIKRSN(0)	\$Kxx reason code set from
2112	(840)	BITSTRING	1	CKMIKRST	- (CKMIFUNC) Function code
2113	(841)	BITSTRING	1	CKMIKRSS	- (CKMIFLG2) Status flags
2114	(842)	ADDRESS	1	CKMIKRST	- (CKMIXERT) Error type
2115	(843)	ADDRESS	1	CKMIKRSTX	- (CKMILSTX) Last IXZXIXxx
2116	(844)	ADDRESS	1	CKMIKXX	\$Kxx error code index

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2116	(844)	X'1'	0	CKMIK29	"1" - Fail with \$K29 error - JESXCF data
2116	(844)	X'2'	0	CKMIK30	"2" - Fail with \$K30 error - HASPCKRR internal logic
2116	(844)	X'3'	0	CKMIK34	"3" - Fail with \$K34 error - JESXCF return code
Footprint information Caution: Footprints are used for diagnosis ONLY and are NOT tested to control the flow or logic in reconfiguration routines. Using footprints to control main-line logic diminishes their value as an independent diagnosis tool, and could cause the diagnostic data to become part of a problem instead of an aid for problem determination. Function footprint codes					
2117	(845)	BITSTRING	1	CKMIFUNC	Function being performed
		111.		CKMIFURM	"B'11100000'" - CKRRxxxx routine mask
		..1.		CKMIFURI	"B'00100000'" - CKRRINIT routine called
		.1..		CKMIFURS	"B'01000000'" - CKRRSTRT routine called
		.11.		CKMIFURC	"B'01100000'" - CKRRSYNC routine called
		1...		CKMIFURD	"B'10000000'" - CKRRDONE routine called
		...1		CKMIFUDR	"B'00010000'" - Driver path if bit on (set/reset by mult rtns)
		.... 1...		CKMIFUIF	"B'00001000'" - In routine IFGETVER
		.... .1..		CKMIFUWU	"B'00000100'" - In routine WUSTATE
		.... ..1.		CKMIFUDS	"B'00000010'" - In routine DSELECT
		.... ...1		CKMIFUIM	"B'00000001'" - In routine IMPROC
Last IXZXIXxx function footprint					
2118	(846)	ADDRESS	1	CKMILSTX	Last JESXCF function
2118	(846)	X'1'	0	CKMILXAC	"1" - Acknowledge message
2118	(846)	X'2'	0	CKMILXIF	"2" - Obtain member information
2118	(846)	X'3'	0	CKMILXMB	"3" - Create mailbox
2118	(846)	X'4'	0	CKMILXMC	"4" - Clear mailbox
2118	(846)	X'5'	0	CKMILXMD	"5" - Delete mailbox
2118	(846)	X'6'	0	CKMILXRM	"6" - Receive message
2118	(846)	X'7'	0	CKMILXSM	"7" - Send message
2118	(846)	X'8'	0	CKMILXUS	"8" - Call to XCFUSTAT to update XCF user state
Specific error type Error type equates have the form: CKMIXExx for JESXCF related \$K29 and \$K34 errors CKMIIExx for HASPCKRR internal logic \$K30 errors					
2119	(847)	ADDRESS	1	CKMIXERT	Error type
Error types for JESXCF related \$K29 or \$K34 errors					
2119	(847)	X'1'	0	CKMIXERC	"1" - Unexpected return code (Used for \$K34 only)

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2119	(847)	X'2'	0	CKMIXEDA	"2" - IXZXIXRM DATA= addr is 0
2119	(847)	X'3'	0	CKMIXEZL	"3" - IXZXIXRM DATALEN is 0
2119	(847)	X'4'	0	CKMIXEZT	"4" - IXZXIXSM/IF REQTOKEN is 0
2119	(847)	X'5'	0	CKMIXEEE	"5" - YIXEN eyecatcher error
2119	(847)	X'6'	0	CKMIXEER	"6" - YIXEN system RC is not 0
2119	(847)	X'7'	0	CKMIXEES	"7" - YIXEN rsn code is not 0
2119	(847)	X'8'	0	CKMIXEEV	"8" - YIXEN not for sys event
2119	(847)	X'9'	0	CKMIXEE0	"9" - YIXEN msg offset is 0
2119	(847)	X'A'	0	CKMIXEEL	"10" - YIXEN msg length is 0
2119	(847)	X'B'	0	CKMIXEEC	"11" - YIXEN inconsistent length
2119	(847)	X'C'	0	CKMIXESE	"12" - YIXSE eyecatcher error
2119	(847)	X'D'	0	CKMIXES0	"13" - YIXSE msg offset is 0
2119	(847)	X'E'	0	CKMIXESM	"14" - YIXSE offset points past end of msg
2119	(847)	X'F'	0	CKMIXESI	"15" - YIXSE not for member info
2119	(847)	X'10'	0	CKMIXEIE	"16" - YIXIF eyecatcher error
2119	(847)	X'11'	0	CKMIXEIL	"17" - YIXIF length greater than remaining msg len
2119	(847)	X'12'	0	CKMIXEIG	"18" - YIXIF group name error
2119	(847)	X'13'	0	CKMIXEIP	"19" - YIXIF member name not blank padded
2119	(847)	X'14'	0	CKMIXEID	"20" - YIXIF duplicate member #
2119	(847)	X'15'	0	CKMIXEIO	"21" - YIXIF offset inconsistent with YIXIF length
2119	(847)	X'16'	0	CKMIXEIB	"22" - YIXIF offset past msg end
2119	(847)	X'17'	0	CKMIXEIU	"23" - YIXIF own memb # missing
2119	(847)	X'18'	0	CKMIXEIN	"24" - YIXIF own name mismatch
2119	(847)	X'19'	0	CKMIXEAE	"25" - YIXAC eyecatcher error
2119	(847)	X'1A'	0	CKMIXEAC	"26" - YIXAC inconsistent length
2119	(847)	X'1B'	0	CKMIXEAO	"27" - YIXAC msg offset is 0
Error types for HASPCKRR internal logic \$K30 errors					
2119	(847)	X'0'	0	CKMIIEUN	"0" Unknown error type
2119	(847)	X'1'	0	CKMIIEIL	"1" Internal logic error
2119	(847)	X'2'	0	CKMIIESU	"2" Non-start-up msg received in start-up mailbox
2119	(847)	X'3'	0	CKMIIEMT	"3" Unexpected msg type received
2119	(847)	X'4'	0	CKMIIEMS	"4" Cannot find a REQTOKEN in CKMISMRT token vector
2119	(847)	X'5'	0	CKMIIEIN	"5" Message type does not match envelope
2119	(847)	X'6'	0	CKMIIEOS	"6" Sync operation sequence number mismatch
2119	(847)	X'7'	0	CKMIIEDF	"7" Inconsistent view of driver failed status
2119	(847)	X'8'	0	CKMIIEIR	"8" Unexpected return code from IMPROC
2119	(847)	X'9'	0	CKMIIEIM	"9" Invalid member number passed to subroutine

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2119	(847)	X'A'	0	CKMIEEDE	"10" Non-zero DOM ID found on a DOMDELAY verify call
2119	(847)	X'B'	0	CKMIEEHD	"11" We are driving when there is another driver with a lower member number
2119	(847)	X'C'	0	CKMIEEMD	"12" Multiple members with MUST in XCF user state and we aren't the lowest MUST drive member #
2119	(847)	X'D'	0	CKMIEEAD	"13" IMPROC is processing an appl msg, but we do not have a driver or driver candidate
2119	(847)	X'E'	0	CKMIEEY	"14" Invalid CKX eyecatcher
2119	(847)	X'F'	0	CKMIEEMH	"15" Invalid msg type passed to MHEADER routine
IXZXIXxx macro return and reason codes					
2120	(848)	SIGNED	4	CKMIRTNC	Last IXZXIXxx return code (except for IXZXIXUS)
2124	(84C)	SIGNED	4	CKMIRSNC	Last IXZXIXxx reason code (except for IXZXIXUS)
Other footprints					
2128	(850)	SIGNED	4	CKMIIFRC	Last IFGETVER return code
2132	(854)	SIGNED	4	CKMIIMRC	Last IMPROC return code
2136	(858)	SIGNED	4		Reserved
Data associated with IXZXIXxx services General use data					
2136	(858)	X'8'	0	CKMITOKL	"8" Length of JESXCF msg token
2140	(85C)	SIGNED	4	CKMICRML	Current residual msg length
2144	(860)	SIGNED	4	CKMIMSGL	Length of msg/ack to send
2148	(864)	CHARACTER	1	CKMISMNA	XCF member name to send to
Data returned from IXZXIXIF for member information					
2164	(874)	BITSTRING	1	CKMIIFRT	Request token (REQTOKEN=)
Data returned from IXZXIXRM for a system event					
2172	(87C)	ADDRESS	4	CKMIRMED	Addr of message (DATA=)
2176	(880)	SIGNED	4	CKMIRMEL	Length of msg (DATALEN=)
2180	(884)	BITSTRING	1	CKMIRMET	Message token (MSGTOKEN=)
Data returned from IXZXIXRM for a message or ack					
2188	(88C)	ADDRESS	4	CKMIRMMD	Addr of message (DATA=)
2192	(890)	SIGNED	4	CKMIRMML	Length of msg (DATALEN=)
2196	(894)	BITSTRING	8	CKMIRMMT	Message token (MSGTOKEN=)
2204	(89C)	SIGNED	4		Reserved
2208	(8A0)	SIGNED	4	CKMIRMSN	Sending member number (set by IMPROC routine)
2212	(8A4)	BITSTRING	1	CKMIRMAC	Req token from ack's YIXAC (set by IMPROC routine)

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Data returned from IXZXISM					
2220	(8AC)	BITSTRING	1	CKMISMRT	Request tokens (REQTOKEN=). One for each member number
Data associated with \$BLDMSG usage --IBMSG \$BLDMSG MF=L List form of \$BLDMSG					
2476	(9AC)	SIGNED	4	CKMIBMSG(0)	Control block ID
2480	(9B0)	BITSTRING	4		Console ID
2484	(9B4)	ADDRESS	4		Address of the CART
2488	(9B8)	ADDRESS	4		Pointer for JOBID
2492	(9BC)	ADDRESS	4		Control block address
2496	(9C0)	ADDRESS	4		Display routine address
2500	(9C4)	ADDRESS	4	(6)	6 word work area
2524	(9DC)	ADDRESS	4		Caller's R11 value
2528	(9E0)	BITSTRING	2		ROUT code for Message
2530	(9E2)	BITSTRING	2		Not used
2532	(9E4)	CHARACTER	4		Message ID
2536	(9E8)	CHARACTER	1		Separator character
2537	(9E9)	ADDRESS	1		Flag byte 1
2538	(9EA)	ADDRESS	1		'DISPER'
2539	(9EB)	ADDRESS	1		Flag byte 2
2540	(9EC)	ADDRESS	1		Flag byte 3
2541	(9ED)	ADDRESS	1		Severity of message
2542	(9EE)	CHARACTER	8		Symbolic name of dest.
2550	(9F6)	BITSTRING	14		Not used
2564	(A04)	ADDRESS	4	(0)	Ensure multiple of 4
2564	(A04)	ADDRESS	2	(0)	
0	(0)	X'58'	0	CKMIBMLN	"*-CKMIBMSG" Length of \$BLDMSG MF=L
2564	(A04)	SIGNED	4	CKMID254	DOM ID for HASP254/709 msg
2568	(A08)	BITSTRING	128	CKMID257	DOM ID vector for HASP257
2696	(A88)	CHARACTER	4	CKMIDMCM	HASP257 causing member name
2700	(A8C)	ADDRESS	1	CKMIDMAC	HASP257 waiting for action
2700	(A8C)	X'1'	0	CKMIDMA1	"1" - Reconfig starting
2700	(A8C)	X'2'	0	CKMIDMA2	"2" - Driver commit
2700	(A8C)	X'3'	0	CKMIDMA3	"3" - Reconfig commit
2700	(A8C)	X'4'	0	CKMIDMA4	"4" - JESXCF msg from driver
2700	(A8C)	X'5'	0	CKMIDMA5	"5" - JESXCF ack from non-drv
2700	(A8C)	X'6'	0	CKMIDMA6	"6" - Driver decommit
2700	(A8C)	X'7'	0	CKMIDMA7	"7" - Reconfig decommit
2701	(A8D)	CHARACTER	2	CKMIDMMT	First two chars of CKXMEYE for HASP257 message
2703	(A8F)	BITSTRING	5		Reserved
List form macros for JESXCF services					
2712	(A98)	DBL WORD	8	CKMIXLST(0)	JESXCF list form macros

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
----- IXZXIXAC MF=(L,CKMIIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'A98'	0	M00M1236	"CKMIIXAC" ++ IXZXIXAC NAME
2712	(A98)	DBL WORD	8	CKMIIXAC(0)	++ IXZXIXAC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXAC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXAC_XSTB	++ INPUT
		1...		CKMIIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	BITSTRING	8	CKMIIXAC_XMSGTOKEN	++ XMSGTOKEN
2728	(AA8)	ADDRESS	4	CKMIIXAC_XDATA	++ XDATA
2732	(AAC)	SIGNED	4	CKMIIXAC_XDATALEN	++ XDATALEN
2736	(AB0)	SIGNED	4	CKMIIXAC_XUSERRC	++ XUSERRC
2740	(AB4)	SIGNED	4	CKMIIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2744	(AB8)	SIGNED	4	CKMIIXAC_XSYSRC	++ XSYSRC
2748	(ABC)	SIGNED	4	CKMIIXAC_XSYSRSN	++ XSYSRSN
2752	(AC0)	BITSTRING	1	CKMIIXAC_XKEYS	++ FIELD_LABEL
		1...		CKMIIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		CKMIIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CKMIIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CKMIIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CKMIIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2753	(AC1)	BITSTRING	1	CKMIIXAC_XMSGATTR	++ INPUT
		1...		CKMIIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2753	(AC1)	X'2A'	0	CKMIIXACL	"*-CKMIIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
----- IXZXIXIF MF=(L,CKMIIXIF) Obtain member information MACDATE -11/12/03-<2>					
0	(0)	X'A98'	0	M00M1238	"CKMIIXIF" ++ IXZXIXIF NAME
2712	(A98)	DBL WORD	8	CKMIIXIF(0)	++ IXZXIXIF PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXIF_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXIF_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXIF_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	SIGNED	4	CKMIIXIF_XGROUPTOKEN	++ XGROUPTOKEN
2724	(AA4)	CHARACTER	16	CKMIIXIF_XREQMBOX	++ XREQMBOX
2740	(AB4)	CHARACTER	8	CKMIIXIF_XREQTOKEN	++ XREQTOKEN
2748	(ABC)	ADDRESS	4	CKMIIXIF_XANSAREA	++ XANSAREA
2752	(AC0)	SIGNED	4	CKMIIXIF_XANSLEN	++ XANSLEN

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2756	(AC4)	BITSTRING	1	CKMIIXIF_XINFOLVL	++ INPUT
		1... ..		CKMIIXIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD
		.1.. ..		CKMIIXIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXIF_XKEYS	++ FIELD_LABEL
		1... ..		CKMIIXIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1.. ..		CKMIIXIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1.		CKMIIXIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		CKMIIXIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
2758	(AC6)	BITSTRING	1	CKMIIXIF_XSTATE	++ INPUT
		1... ..		CKMIIXIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1.. ..		CKMIIXIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
2759	(AC7)	BITSTRING	1	CKMIIXIF_XSYSTEM	++ INPUT
		1... ..		CKMIIXIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1.. ..		CKMIIXIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
2760	(AC8)	BITSTRING	1	CKMIIXIF_XPOLYJES	++ INPUT
		1... ..		CKMIIXIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1.. ..		CKMIIXIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
2761	(AC9)	BITSTRING	2	CKMIIXIF_XFUNCTION	++ INPUT
2761	(AC9)	BITSTRING	0	CKMIIXIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
2763	(ACB)	CHARACTER	8	CKMIIXIF_XGROUPNAME	++ XGROUPNAME
2763	(ACB)	X'3B'	0	CKMIIXIFL	"*-CKMIIXIF" ++ LENGTH OF PLIST
IXZXIXIF-2					
----- IXZXIXMB MF=(L,CKMIIXMB) Create mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1239(0)	IXZXIXMB-1
2712	(A98)	DBL WORD	8	CKMIIXMB(0)	++ IXZXIXMB PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMB_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXMB_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXMB_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXMB_XPOSTXIT	++ XPOSTXIT
2740	(AB4)	ADDRESS	4	CKMIIXMB_XPOSTDATA	++ XPOSTDATA
2744	(AB8)	SIGNED	4	CKMIIXMB_XPOSTALET	++ XPOSTALET
2748	(ABC)	SIGNED	4	CKMIIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2752	(AC0)	BITSTRING	1	CKMIIXMB_XSYSEVENTS	++ FIELD_LABEL
		1... ..		CKMIIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1.. ..		CKMIIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2752	(AC0)	X'29'	0	CKMIIXMBL	"*-CKMIIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
----- IXZXIXMC MF=(L,CKMIIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1240(0)	IXZXIXMC-1
2712	(A98)	DBL WORD	8	CKMIIXMC(0)	++ IXZXIXMC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMC_XSTB	++ INPUT
		1...		CKMIIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		CKMIIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMC_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMCL	"*-CKMIIXMC" ++ LENGTH OF PLIST
IXZXIXMC-1					
----- IXZXIXMD MF=(L,CKMIIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1241(0)	IXZXIXMD-1
2712	(A98)	DBL WORD	8	CKMIIXMD(0)	++ IXZXIXMD PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMD_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMD_XSTB	++ INPUT
		1...		CKMIIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		CKMIIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMD_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMDL	"*-CKMIIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
----- IXZXIXRM MF=(L,CKMIIXRM) Receive message MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1242(0)	IXZXIXRM-1
2712	(A98)	DBL WORD	8	CKMIIXRM(0)	++ IXZXIXRM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXRM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXRM_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXRM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXRM_XDATA	++ XDATA
2740	(AB4)	SIGNED	4	CKMIIXRM_XDATALEN	++ XDATALEN
2744	(AB8)	BITSTRING	8	CKMIIXRM_XMSGTOKEN	++ XMSGTOKEN
2752	(AC0)	SIGNED	4	CKMIIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2756	(AC4)	BITSTRING	1	CKMIIXRM_XMSGFETCH	++ INPUT

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		CKMIIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CKMIIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CKMIIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CKMIIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXRM_XKEYS	++ FIELD_LABEL
		1...		CKMIIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2757	(AC5)	X'2E'	0	CKMIIXRML	"*-CKMIIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
----- IXZXIXSM MF=(L,CKMIIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'A98'	0	M00M1243	"CKMIIXSM" ++ IXZXIXSM NAME
2712	(A98)	DBL WORD	8	CKMIIXSM(0)	++ IXZXIXSM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXSM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXSM_XKEYECATCH	++ CONSTANT XKEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXSM_XMSGATTR	++ INPUT
		1...		CKMIIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXSM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	CHARACTER	16	CKMIIXSM_XMEMBER	++ XMEMBER
2752	(AC0)	ADDRESS	4	CKMIIXSM_XDATA	++ XDATA
2756	(AC4)	SIGNED	4	CKMIIXSM_XDATALEN	++ XDATALEN
2760	(AC8)	BITSTRING	8	CKMIIXSM_XREQTOKEN	++ XREQTOKEN
2768	(AD0)	CHARACTER	16	CKMIIXSM_XREQMBOX	++ XREQMBOX
2784	(AE0)	SIGNED	4	CKMIIXSM_XDATAALET	++ XDATAALET
2788	(AE4)	SIGNED	4	CKMIIXSM_XRESPDALT	++ XRESPDALT
2792	(AE8)	SIGNED	4	CKMIIXSM_XECB	++ XECB
2796	(AEC)	SIGNED	4	CKMIIXSM_XEXIT	++ XEXIT
2800	(AF0)	BITSTRING	8	CKMIIXSM_XCONNECT	++ XCONNECT
2808	(AF8)	SIGNED	4	CKMIIXSM_XGROUPTOKEN	++ XGROUPTOKEN
2812	(AFC)	SIGNED	4	CKMIIXSM_XUSERRC	++ XUSERRC
2816	(B00)	SIGNED	4	CKMIIXSM_XRESPDATA	++ XRESPDATA
2820	(B04)	SIGNED	4	CKMIIXSM_XRESPDLEN	++ XRESPDLEN
2824	(B08)	CHARACTER	4	CKMIIXSM_XRSV00001	++ RESERVED XRSV00001
2828	(B0C)	BITSTRING	8	CKMIIXSM_XMSGTOKEN	++ XMSGTOKEN
2836	(B14)	SIGNED	4	CKMIIXSM_XRIPSIZE	++ XRIPSIZE
2840	(B18)	BITSTRING	1	CKMIIXSM_XREQTYPE	++ INPUT

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		CKMIIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1.. ..		CKMIIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		CKMIIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		CKMIIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
2841	(B19)	BITSTRING	1	CKMIIXSM_XSEGTYPE	++ INPUT
		1... ..		CKMIIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1.. ..		CKMIIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		CKMIIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		CKMIIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1..		CKMIIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
2842	(B1A)	BITSTRING	1	CKMIIXSM_XKEYS	++ FIELD_LABEL
		1... ..		CKMIIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1.. ..		CKMIIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		CKMIIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		CKMIIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1..		CKMIIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		CKMIIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		CKMIIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		.... ...1		CKMIIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
2843	(B1B)	BITSTRING	1	CKMIIXSM_XKEYS1	++ FIELD_LABEL
		1... ..		CKMIIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1.. ..		CKMIIXSM_KEYUSED_DATAALLET	"B'01000000'" ++ KEYUSED.DATAALLET KEYWORD
		..1.		CKMIIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		CKMIIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
2843	(B1B)	X'84'	0	CKMIIXSML	"*-CKMIIXSM" ++ LENGTH OF PLIST
IXZXIXSM-2					
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'88'	0	CKMIXLLN	"*-CKMIXLST" Length of longest list form
End of data internal to CKRRxxxx routines					
2848	(B20)	DBL WORD	8	(0)	Alignment

Table 79. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2848	(B20)	X'610'	0	CKMICL2L	"*-CKMICLR2" Length of area to clear in CKRRSTRT
2848	(B20)	X'670'	0	CKMICL1L	"*-CKMICLR1" Length of area to clear in CKRRSYNC or CKRRDONE
2848	(B20)	X'6F0'	0	CKMIEND	"*-CKMIDATA" Length of internal data
End of \$CKM data area					
2848	(B20)	X'B20'	0	CKMLEN	"*-CKM" Length of \$CKM data area PRINT ON

Table 80. Cross Reference for \$CKM

Name	Offset	Hex Tag
CKM	0	
CKMCACCT	1E8	4
CKMCACF1	1E8	10
CKMCACF2	1E8	14
CKMCACNL	1E8	0
CKMCACOC	1E8	C
CKMCACRF	1E8	28
CKMCACRT	1E8	8
CKMCACS1	1E8	18
CKMCACS2	1E8	1C
CKMCACT	1E8	
CKMCACU1	1E8	20
CKMCACU2	1E8	24
CKMCBEGN	1D8	
CKMCCCNL	1EC	0
CKMCCCOK	1EC	4
CKMCCCUS	1EC	8
CKMCCDMN	1DC	
CKMCCONM	270	
CKMCCONV	1F0	
CKMCEND	430	
CKMCFLG1	1D8	
CKMCHFAM	2F8	
CKMCICON	1EC	
CKMCIRSN	274	
CKMCPARM	1D8	
CKMCRCDF	430	4
CKMCRCOK	430	0
CKMCRSNV	278	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMCTYPE	1E0	
CKMC1DMF	1D8	80
CKMC1NDM	1D8	40
CKMC1OKW	1D8	20
CKMDRCOK	430	0
CKMDRCRC	430	4
CKMERRAF	660	
CKMIBMLN	0	58
CKMIBMSG	9AC	C2D3C440
CKMICKMA	4A0	
CKMICKXA	438	
CKMICKXS	43C	
CKMICLR1	4B0	
CKMICLR2	510	
CKMICL1L	B20	670
CKMICL2L	B20	610
CKMICRET	448	
CKMICRIF	454	
CKMICRML	85C	
CKMICRSE	450	
CKMICRST	440	
CKMID	0	
CKMIDATA	430	
CKMIDCNA	4C4	
CKMIDCNO	4C0	
CKMIDCON	670	
CKMIDFCN	668	4
CKMIDFCV	668	10
CKMIDFHU	668	2
CKMIDFIO	668	60
CKMIDFI1	668	40
CKMIDFI2	668	20
CKMIDFLG	668	
CKMIDFL2	669	
CKMIDFOR	668	8
CKMIDFOV	668	80
CKMIDFRF	669	80
CKMIDFST	668	1
CKMIDMAC	A8C	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIDMA1	A8C	1
CKMIDMA2	A8C	2
CKMIDMA3	A8C	3
CKMIDMA4	A8C	4
CKMIDMA5	A8C	5
CKMIDMA6	A8C	6
CKMIDMA7	A8C	7
CKMIDMCM	A88	
CKMIDMMT	A8D	
CKMIDMNA	4BC	
CKMIDMNO	4B8	
CKMIDNAM	67C	
CKMIDPMV	680	
CKMIDS	668	
CKMIDSBG	668	
CKMIDSEN	834	
CKMIDSHF	700	
CKMIDSI1	674	
CKMIDSI2	678	
CKMIDSOS	66C	
CKMID254	A04	
CKMID257	A08	
CKMIECAN	834	4
CKMIECKM	834	1
CKMIECNS	834	3
CKMIECTE	834	7
CKMIEDNS	834	5
CKMIEDWS	834	9
CKMIEIEC	834	A
CKMIEND	B20	6F0
CKMIESND	834	2
CKMIESTE	834	6
CKMIESWD	834	8
CKMIFCT	4B3	
CKMIFLG1	470	
CKMIFLG2	4B0	
CKMIFLG3	4B1	
CKMIFUDR	845	10
CKMIFUDS	845	2

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIFUIF	845	8
CKMIFUIM	845	1
CKMIFUNC	845	
CKMIFURC	845	60
CKMIFURD	845	80
CKMIFURI	845	20
CKMIFURM	845	E0
CKMIFURS	845	40
CKMIFUWU	845	4
CKMIHCTA	4A4	
CKMIICNA	52C	
CKMIICNO	528	
CKMIIDNA	534	
CKMIIDNO	530	
CKMIEAD	847	D
CKMIEDE	847	A
CKMIEDF	847	7
CKMIEEY	847	E
CKMIEHD	847	B
CKMIEIL	847	1
CKMIEIM	847	9
CKMIEIN	847	5
CKMIEIR	847	8
CKMIEMD	847	C
CKMIEMH	847	F
CKMIEMS	847	4
CKMIEMT	847	3
CKMIEOS	847	6
CKMIESU	847	2
CKMIEUN	847	0
CKMIEYE	430	
CKMIFFC	498	64
CKMIFFI	49C	
CKMIIFG	510	
CKMIIFGC	510	40
CKMIIFGD	510	80
CKMIIFRC	850	
CKMIIFRT	874	
CKMIIFTS	658	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIIMRC	854	
CKMIIXAC	A98	
CKMIIXAC_KEYUSED_DATA	AC0	80
CKMIIXAC_KEYUSED_DATALEN	AC0	40
CKMIIXAC_KEYUSED_SYSRC	AC0	10
CKMIIXAC_KEYUSED_SYSRSN	AC0	8
CKMIIXAC_KEYUSED_USERRC	AC0	20
CKMIIXAC_XDATA	AA8	
CKMIIXAC_XDATALEN	AAC	
CKMIIXAC_XEYECATCH	A99	
CKMIIXAC_XGROUPTOKEN	AB4	
CKMIIXAC_XKEYS	AC0	
CKMIIXAC_XMSGATTR	AC1	
CKMIIXAC_XMSGATTR_EXPRESS	AC1	40
CKMIIXAC_XMSGATTR_J3CONNECT	AC1	80
CKMIIXAC_XMSGTOKEN	AA0	
CKMIIXAC_XSTB	A9F	
CKMIIXAC_XSTB_NO	A9F	80
CKMIIXAC_XSTB_YES	A9F	40
CKMIIXAC_XSYSRC	AB8	
CKMIIXAC_XSYSRSN	ABC	
CKMIIXAC_XUSERRC	AB0	
CKMIIXAC_XVERSION	A98	
CKMIIXACL	AC1	2A
CKMIIXIF	A98	
CKMIIXIF_KEYUSED_ANSAREA	AC5	40
CKMIIXIF_KEYUSED_GROUPNAME	AC5	10
CKMIIXIF_KEYUSED_GROUPTOKEN	AC5	20
CKMIIXIF_KEYUSED_REQMBOX	AC5	80
CKMIIXIF_XANSAREA	ABC	
CKMIIXIF_XANSLEN	AC0	
CKMIIXIF_XEYECATCH	A99	
CKMIIXIF_XFUNCTION	AC9	
CKMIIXIF_XFUNCTION_ARM	AC9	8000
CKMIIXIF_XGROUPNAME	ACB	
CKMIIXIF_XGROUPTOKEN	AA0	
CKMIIXIF_XINFOLVL	AC4	
CKMIIXIF_XINFOLVL_GROUP	AC4	80
CKMIIXIF_XINFOLVL_MEMBER	AC4	40

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIIXIF_XKEYS	AC5	
CKMIIXIF_XPOLYJES	AC8	
CKMIIXIF_XPOLYJES_NO	AC8	40
CKMIIXIF_XPOLYJES_YES	AC8	80
CKMIIXIF_XREQMBOX	AA4	
CKMIIXIF_XREQTOKEN	AB4	
CKMIIXIF_XRSV0001	A9F	
CKMIIXIF_XSTATE	AC6	
CKMIIXIF_XSTATE_ACTIVE	AC6	40
CKMIIXIF_XSTATE_ANY	AC6	80
CKMIIXIF_XSYSTEM	AC7	
CKMIIXIF_XSYSTEM_ANY	AC7	80
CKMIIXIF_XSYSTEM_CURRENT	AC7	40
CKMIIXIF_XVERSION	A98	
CKMIIXIFL	ACB	3B
CKMIIXMB	A98	
CKMIIXMB_XEYECATCH	A99	
CKMIIXMB_XGROUPTOKEN	ABC	
CKMIIXMB_XMBOXNAME	AA0	
CKMIIXMB_XPOSTALET	AB8	
CKMIIXMB_XPOSTDATA	AB4	
CKMIIXMB_XPOSTXIT	AB0	
CKMIIXMB_XRSV0001	A9F	
CKMIIXMB_XSYSEVENT_NO	AC0	40
CKMIIXMB_XSYSEVENT_YES	AC0	80
CKMIIXMB_XSYSEVENTS	AC0	
CKMIIXMB_XVERSION	A98	
CKMIIXMBL	AC0	29
CKMIIXMC	A98	
CKMIIXMC_XEYECATCH	A99	
CKMIIXMC_XGROUPTOKEN	AB0	
CKMIIXMC_XMBOXNAME	AA0	
CKMIIXMC_XSTB	A9F	
CKMIIXMC_XSTB_NO	A9F	80
CKMIIXMC_XSTB_YES	A9F	40
CKMIIXMC_XVERSION	A98	
CKMIIXMCL	AB0	1C
CKMIIXMD	A98	
CKMIIXMD_XEYECATCH	A99	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIIXMD_XGROUPTOKEN	AB0	
CKMIIXMD_XMBOXNAME	AA0	
CKMIIXMD_XSTB	A9F	
CKMIIXMD_XSTB_NO	A9F	80
CKMIIXMD_XSTB_YES	A9F	40
CKMIIXMD_XVERSION	A98	
CKMIIXMDL	AB0	1C
CKMIIXRM	A98	
CKMIIXRM_KEYUSED_MSGFETCH	AC5	80
CKMIIXRM_XDATA	AB0	
CKMIIXRM_XDATALEN	AB4	
CKMIIXRM_XEYECATCH	A99	
CKMIIXRM_XGROUPTOKEN	AC0	
CKMIIXRM_XKEYS	AC5	
CKMIIXRM_XMBOXNAME	AA0	
CKMIIXRM_XMSGFETCH	AC4	
CKMIIXRM_XMSGFETCH_ACKS	AC4	10
CKMIIXRM_XMSGFETCH_ALL	AC4	80
CKMIIXRM_XMSGFETCH_MESSAGES	AC4	40
CKMIIXRM_XMSGFETCH_SYSEVENT	AC4	20
CKMIIXRM_XMSGTOKEN	AB8	
CKMIIXRM_XRSV0001	A9F	
CKMIIXRM_XVERSION	A98	
CKMIIXRML	AC5	2E
CKMIIXSM	A98	
CKMIIXSM_KEYUSED_CONNECT	B1A	4
CKMIIXSM_KEYUSED_DATAALLET	B1B	40
CKMIIXSM_KEYUSED_ECB	B1B	80
CKMIIXSM_KEYUSED_EXIT	B1A	10
CKMIIXSM_KEYUSED_MSGATTR	B1A	1
CKMIIXSM_KEYUSED_MSGTOKEN	B1A	2
CKMIIXSM_KEYUSED_RELEASE_CADS	B1B	20
CKMIIXSM_KEYUSED_REQMBOX	B1A	20
CKMIIXSM_KEYUSED_REQTOKEN	B1A	40
CKMIIXSM_KEYUSED_REQTYPE	B1A	80
CKMIIXSM_KEYUSED_RIPSIZE	B1B	10
CKMIIXSM_KEYUSED_SEGTYPE	B1A	8
CKMIIXSM_XCONNECT	AF0	
CKMIIXSM_XDATA	AC0	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIIXSM_XDATAALET	AE0	
CKMIIXSM_XDATALEN	AC4	
CKMIIXSM_XECB	AE8	
CKMIIXSM_XEXIT	AEC	
CKMIIXSM_XEYECATCH	A99	
CKMIIXSM_XGROUPTOKEN	AF8	
CKMIIXSM_XKEYS	B1A	
CKMIIXSM_XKEYS1	B1B	
CKMIIXSM_XMBOXNAME	AA0	
CKMIIXSM_XMEMBER	AB0	
CKMIIXSM_XMSGATTR	A9F	
CKMIIXSM_XMSGATTR_EXPRESS	A9F	40
CKMIIXSM_XMSGATTR_J3CONNECT	A9F	80
CKMIIXSM_XMSGTOKEN	B0C	
CKMIIXSM_XREQMBOX	AD0	
CKMIIXSM_XREQTOKEN	AC8	
CKMIIXSM_XREQTYPE	B18	
CKMIIXSM_XREQTYPE_ASYNC	B18	80
CKMIIXSM_XREQTYPE_ASYNCACK	B18	20
CKMIIXSM_XREQTYPE_COMM	B18	10
CKMIIXSM_XREQTYPE_SYNC	B18	40
CKMIIXSM_XRESPDALT	AE4	
CKMIIXSM_XRESPDATA	B00	
CKMIIXSM_XRESPDLEN	B04	
CKMIIXSM_XRIPSIZE	B14	
CKMIIXSM_XRSV00001	B08	
CKMIIXSM_XSEGTYPE	B19	
CKMIIXSM_XSEGTYPE_ABORT	B19	8
CKMIIXSM_XSEGTYPE_FIRST	B19	40
CKMIIXSM_XSEGTYPE_LAST	B19	10
CKMIIXSM_XSEGTYPE_MIDDLE	B19	20
CKMIIXSM_XSEGTYPE_SINGLE	B19	80
CKMIIXSM_XUSERRC	AFC	
CKMIIXSM_XVERSION	A98	
CKMIIXSML	B1B	84
CKMIKRGs	834	
CKMIKRsf	840	
CKMIKRsn	840	
CKMIKRss	841	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIKRST	842	
CKMIKRSX	843	
CKMIKXX	844	
CKMIK29	844	1
CKMIK30	844	2
CKMIK34	844	3
CKMILSTX	846	
CKMILXAC	846	1
CKMILXIF	846	2
CKMILXMB	846	3
CKMILXMC	846	4
CKMILXMD	846	5
CKMILXRM	846	6
CKMILXSM	846	7
CKMILXUS	846	8
CKMIMBNR	484	
CKMIMBNS	474	
CKMIMCLV	5B8	
CKMIMEMV	538	
CKMIMMCO	520	
CKMIMMDR	524	
CKMIMMMD	51C	
CKMIMMPM	4C8	
CKMIMMRC	514	
CKMIMMST	518	
CKMIMMWK	65C	
CKMIMSGL	860	
CKMIOSEQ	4B4	
CKMIPXRD	4A4	8
CKMIPXRM	4A4	C
CKMIPXRP	4A4	4
CKMIRMAC	8A4	
CKMIRMED	87C	
CKMIRMEL	880	
CKMIRMET	884	
CKMIRMMD	88C	
CKMIRMML	890	
CKMIRMMT	894	
CKMIRMSN	8A0	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIRSNC	84C	
CKMIRTNC	848	
CKMISECI	494	3
CKMISECS	0	F
CKMISMNA	864	
CKMISMRT	8AC	
CKMISTBI	494	
CKMISTCL	4E8	10
CKMISTEI	504	
CKMISTF	508	
CKMISTFE	508	20
CKMISTFI	508	80
CKMISTFM	508	40
CKMISTIF	498	
CKMISTMC	4E8	0
CKMISTME	500	
CKMISTMI	4F8	
CKMISTMM	4FC	
CKMISTMS	4D0	0
CKMISTSL	4D0	18
CKMITOKL	858	8
CKMIWUAD	660	5
CKMIWUCO	660	3
CKMIWUDD	660	4
CKMIWUDM	664	
CKMIWUDR	660	2
CKMIWUST	660	1
CKMIXEAC	847	1A
CKMIXEAE	847	19
CKMIXEAO	847	1B
CKMIXECB	458	
CKMIXEDA	847	2
CKMIXEEC	847	B
CKMIXEEE	847	5
CKMIXEEL	847	A
CKMIXEE0	847	9
CKMIXEER	847	6
CKMIXEES	847	7
CKMIXEEV	847	8

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMIXEIB	847	16
CKMIXEID	847	14
CKMIXEIE	847	10
CKMIXEIG	847	12
CKMIXEIL	847	11
CKMIXEIN	847	18
CKMIXEIO	847	15
CKMIXEIP	847	13
CKMIXEIU	847	17
CKMIXERC	847	1
CKMIXERT	847	
CKMIXESE	847	C
CKMIXESI	847	F
CKMIXESM	847	E
CKMIXESO	847	D
CKMIXEZL	847	3
CKMIXEZT	847	4
CKMIXLLN	B20	88
CKMIXLST	A98	
CKMI1CAN	470	20
CKMI1CAP	470	80
CKMI1RST	470	40
CKMI2DC0	4B0	10
CKMI2DFP	4B0	2
CKMI2DMF	4B0	4
CKMI2DRV	4B0	8
CKMI2NIH	4B0	80
CKMI2ONE	4B0	40
CKMI2RC0	4B0	20
CKMI2WSG	4B0	1
CKMI3IFT	4B1	40
CKMI3RDD	4B1	80
CKMLEN	B20	B20
CKMSBEGN	8	
CKMSDCON	C	
CKMSDNAM	14	
CKMSEND	1D8	
CKMSFLG1	8	
CKMSFLG2	9	

Table 80. Cross Reference for \$CKM (continued)

Name	Offset	Hex Tag
CKMSHFAM	A0	
CKMSLEVN	18	
CKMSMEMV	20	
CKMSNIOE	10	
CKMSPARM	8	
CKMSRCCN	1D8	4
CKMSRCOK	1D8	0
CKMS1DRV	8	40
CKMS1HUP	8	10
CKMS1MBD	8	80
CKMS10PV	8	20
CKMS2CAN	9	8
CKMS2CKV	9	20
CKMS2IOE	9	C0
CKMS2IO1	9	80
CKMS2IO2	9	40
CKMS20PR	9	10
CKMS2RFM	9	2
CKMS2SET	9	4
CKMVERN	4	1
CKMVERSN	4	
M00M1236	0	A98
M00M1238	0	A98
M00M1239	A98	
M00M1240	A98	
M00M1241	A98	
M00M1242	A98	
M00M1243	0	A98

\$CKPINFO information

\$CKPINFO heading information

Common name: Checkpoint information DSECT
Macro ID: \$CKPINFO
DSECT name: CKPINFO
Owning component: JES2 (SC1BH)

Eye-catcher ID: CKPINFO
Offset: KPIID-CKPINFO
Length: L'KPIID

Storage attributes: Subpool: N/A
Key: 1
Residency: Virtual and real storage are in 64 bit common

Size: See KPILEN

Created by: JES2 Initialization

Pointed to by: CCTKPIC field of the \$HCCT data area

Serialization: Compare and swap new entries onto the HCCT chain.

Function: This DSECT is used to track the checkpoint specifications from CKPTDEF. Entries are created for the CKPTDEF valued from the initialization deck and the current values when JES2 initialization read the checkpoint. After initialization, new instances are obtained as reconfigurations are processed.

\$CKPINFO mapping

Table 81. Structure CKPINFO

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKPINFO	Checkpoint information DSECT
0	(0)	CHARACTER	8	KPIID	Eyecatcher
8	(8)	ADDRESS	8	KPINEXT	Pointer to next entry
16	(10)	ADDRESS	1	KPIVER	Control block version number
16	(10)	X'1'	0	KPIVERN	"01" Current version number
17	(11)	BITSTRING	1	KPITYPE	Record type
17	(11)	X'1'	0	KPITCUR	"1" Current checkpoint information
17	(11)	X'2'	0	KPITINIT	"2" Initialization CKPT info
17	(11)	X'3'	0	KPITFRST	"3" Initial read CKPT info
17	(11)	X'4'	0	KPITHIST	"4" Historical CKPT information
18	(12)	BITSTRING	1	KPIFLAG1	Flag byte
		1...		KPIF1MOD	"B'10000000'" 0 => MODE=DUAL 1 => MODE=DUPLEX
		.1..		KPIF1DPX	"B'01000000'" 0 => DUPLEX=OFF 1 => DUPLEX=ON
		..1.		KPIF10PV	"B'00100000'" 0 => OPVERIFY=NO 1 => OPVERIFY=YES
		...1		KPIF1NML	"B'00010000'" All members have all CKPTs alloc
		.... 1...		KPIF1C2E	"B'00001000'" DUPLEX mode, both data sets inuse and all member specified DUPLEX=OFF
19	(13)	BITSTRING	3		Reserved
22	(16)	SIGNED	2	KPICLREC	Change log size
24	(18)	SIGNED	4	KPINRECS	CKPT size (4K pages)
28	(1C)	SIGNED	4	KPIMAXRC	Maximum CKPT size (4K pages)
32	(20)	BITSTRING	16	KPITIME	Time entry was created (STCKE)
48	(30)	DBL WORD	8	(0)	Align areas
48	(30)	BITSTRING	104	KPICKPT1	Information on CKPT1

Table 81. Structure CKPINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
152	(98)	BITSTRING	104	KPICKPT2	Information on CKPT2
256	(100)	BITSTRING	104	KPINEWC1	Information on NEWCKPT1
360	(168)	BITSTRING	104	KPINEWC2	Information on NEWCKPT2
464	(1D0)	SIGNED	4	(10)	Reserved
504	(1F8)	DBL WORD	8	(0)	Round up length
504	(1F8)	X'1F8'	0	KPILEN	"*-CKPINFO" Length of data area

Table 82. Structure KPIDSINF

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	KPIDSINF	Checkpoint data set info DSECT
0	(0)	CHARACTER	8	KPIDNAME	File name (CKPTn or NEWCKPTn)
8	(8)	BITSTRING	1	KPIDFLG1	Flag byte
		1...		KPID1CKN	"B'10000000'" CKPTn data set (not NEWCKPTn)
		.1..		KPID1INU	"B'01000000'" CKPT is in use (CKPTn only)
		..1.		KPID1VOL	"B'00100000'" CKPT is volatile (only if in use)
		...1		KPID1CF	"B'00010000'" CKPT is on CF
9	(9)	BITSTRING	3		Reserved
12	(C)	CHARACTER	6	KPIDVOL	Volume (if DASD)
18	(12)	CHARACTER	44	KPIDDSN	Data set name (if DASD)
62	(3E)	CHARACTER	16	KPIDSTR	Structure name (if CF)
78	(4E)	CHARACTER	2		Reserved

The following fields are only available for CKPTn data sets that are currently in use and allocated on this member (not MODE=DUPLEX,DUPLEX=OFF)

80	(50)	SIGNED	4	KPIDCAP	Capacity of file (4K pages)
84	(54)	SIGNED	4	KPIDUSED	Current amount in use (4K pages)

The size fields are defined as follows:
For DASD
KPIDCURS - Data set size in tracks
KPIDMAXS - Always same as JCKFCURS
For CF
KPIDCURS - Current number of 1K blocks
KPIDMAXS - Maximum number of 1K blocks

88	(58)	SIGNED	4	KPIDCURS	Current size of file
92	(5C)	SIGNED	4	KPIDMAXS	Maximum size of file
96	(60)	SIGNED	4	KPIDTRKB	Track capacity (bytes) for CKPT on DASD assuming 4K records
104	(68)	DBL WORD	8	(0)	Round up length
104	(68)	X'68'	0	KPIDSLEN	"*-KPIDSINF" Length of data area

Table 83. Cross Reference for \$CKPINFO

Name	Offset	Hex Tag
CKPINFO	0	
KPICKPT1	30	
KPICKPT2	98	

Table 83. Cross Reference for \$CKPINFO (continued)

Name	Offset	Hex Tag
KPICLREC	16	
KPIDCAP	50	
KPIDCURS	58	
KPIDDSN	12	
KPIDFLG1	8	
KPIDMAXS	5C	
KPIDNAME	0	
KPIDSINF	0	
KPIDSLEN	68	68
KPIDSTR	3E	
KPIDTRKB	60	
KPIDUSED	54	
KPIDVOL	C	
KPID1CF	8	10
KPID1CKN	8	80
KPID1INU	8	40
KPID1VOL	8	20
KPIFLAG1	12	
KPIF1C2E	12	8
KPIF1DPX	12	40
KPIF1MOD	12	80
KPIF1NML	12	10
KPIF10PV	12	20
KPIID	0	C3D2D7C9
KPILEN	1F8	1F8
KPIMAXRC	1C	
KPINWC1	100	
KPINWC2	168	
KPINEXT	8	
KPINRECS	18	
KPITCUR	11	1
KPITFRST	11	3
KPITHIST	11	4
KPITIME	20	
KPITINIT	11	2
KPITYPE	11	
KPIVER	10	
KPIVERN	10	1

\$CKPRECV information

\$CKPRECV heading information

Common name:	Checkpoint recovery parameter list
Macro ID:	\$CKPRECV
DSECT name:	CKR
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	"CKR " Offset: CKRID Length: L'CKRID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the storage of the JES2 address space
Size:	See CKRSIZE
Created by:	\$CKPTDIA macro
Pointed to by:	Register 1 upon entry to KDIALOG
Serialization:	None required
Function:	The CKPRECV is used to describe the requirements of the caller of the checkpoint reconfiguration. It is \$GETWORK'ed by the caller (via the \$CKPTDIA macro) and \$REWORK'ed by the dialog routine.

\$CKPRECV mapping

Table 84. Structure CKR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKR	
0	(0)	CHARACTER	4	CKRID	ID PLACED HERE BY GETWORK
4	(4)	ADDRESS	4	CKRCKG	ADDRESS OF THE CKGPAR
8	(8)	ADDRESS	4	CKRCKG2	ADDR CKG FOR COMPANION DATA SET
12	(C)	BITSTRING	1	CKRFLAG1	Flag byte
		1... ..		CKR1IOER	"B'10000000" Reason for call is IOERROR
		.1.. ..		CKR1RECO	"B'01000000" Reason for call is RECONFIG
		..1.		CKR1INIT	"B'00100000" Reason for call is INIT
		...1		CKR1CFV	"B'00010000" REASON=VOLATILE when dialog is entered
		.... 1...		CKR1SETC	"B'00001000" Reason for call is SET cmdnd
		.... .1..		CKR1RFMT	"B'00000100" Reason for call is REFORMAT
13	(D)	BITSTRING	1	CKRFLAG2	Flag byte
		1... ..		CKR2RECR	"B'10000000" RECURSIVE ERROR PENDING
		.1.. ..		CKR2MIOE	"B'01000000" The checkpoint reconfig was resulted from the I/O error on my system

Table 84. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKR2OPT7	"B'00100000'" OPTION 7/8 PROCESSING
		...1		CKR2DEL	"B'00010000'" DELETE IS VALID RESPONSE TO HASP237, HASP273, HASP278
		.... 1...		CKR2QUSE	"B'00001000'" Reset \$QSONDA when finished
		.... .1..		CKR2CREA	"B'00000100'" CREATE IS VALID RESPONSE TO HASP278 MESSAGE
		.... ..1.		CKR2NCRE	"B'00000010'" CREATE IS INVALID RESPONSE TO FIRST HASP278 MESSAGE
		.... ...1		CKR2KRSV	"B'00000001'" RESERVE WAS IN EFFECT WHEN DIALOG WAS ENTERED
13	(D)	X'16'	0	CKR2KNUL	"CKR2DEL+CKR2CREA+CKR2NCRE" KNULLCHK & KDSL0C FLAGS
ALL BIT CONFIGURATIONS FOR CKRFLAG3 ARE DEFINED IN \$HASPEQU					
14	(E)	BITSTRING	1	CKRFLAG3	Flag byte (Shadowed in CKWRECF3)
15	(F)	BITSTRING	1	CKRFLAG4	Flag byte
		1...		CKR4ILEV	"B'10000000'" Increment \$CKPTLEV
		.1..		CKR4LIM	"B'01000000'" Main task limited caller
		..1.		CKR40PV	"B'00100000'" Verify reconfiguration with operator possibly due to OPVERIFY=YES specified
		...1		CKR4FWC1	"B'00010000'" Forward CKPT1
		.... 1...		CKR4FWC2	"B'00001000'" Forward CKPT2
		.... .1..		CKR40AR	"B'00000100'" Operator assistance requested (this is used for the issuance of HASP235 message)
		.... ..1.		CKR4RSM1	"B'00000010'" Resume CKPT1
		.... ...1		CKR4RSM2	"B'00000001'" Resume CKPT2
16	(10)	BITSTRING	1	CKRFLAG5	DISPER flag for HASPMSG
		1...		CKR5CRC	"B'10000000'" Reconfig Complete -255
		.1..		CKR5CRC0	"B'01000000'" Reconfig Cancelled by Operator -255
		..1.		CKR5CRCJ	"B'00100000'" Reconfig Cancelled by JES2 -255
		...1		CKR5CRFA	"B'00010000'" Reconfig failed -255
17	(11)	BITSTRING	1	CKRFLAG6	More invocation flags
		1...		CKR6SOFT	"B'10000000'" Soft error (detected by JES2)
		.1..		CKR62NDR	"B'01000000'" Secondary reason code exists
		..1.		CKR6THIS	"B'00100000'" Most up to date queues are in this system's memory
		...1		CKR60TH	"B'00010000'" Some other system has the most up date queues
		.... 1...		CKR6STAT	"B'00001000'" Use the \$STATUS byte to determine if we have most up-to-date copy of the queues
18	(12)	CHARACTER	2	CKR2NDR	Secondary reason code
20	(14)	BITSTRING	1	CKRDSETR	Local copy of CKWDSETR
21	(15)	BITSTRING	3		Reserved

Table 84. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	4	CKRCOUNT	The number of members unable to reconfigure
28	(1C)	CHARACTER	8	CKRMODN	Module that issued \$CKPTDIA
36	(24)	CHARACTER	8	CKRSEQN	Sequence number of issuer
CKRCACT contains an "action" code set by the driving member that tells non-driving members what to do. This is copied from CKMCACT and its values are mapped in the \$CKM.					
44	(2C)	SIGNED	4	CKRCACT	Reconfig "action" saved for undoing reconfig
48	(30)	CHARACTER	4	CKRAERRC	\$ERROR CODE FOR HASP275 MESSAGE
52	(34)	ADDRESS	4	CKRACODE	ADDR OF \$ERROR MACRO TO BE USED IF ALL ELSE FAILS
56	(38)	SIGNED	4	CKRRTCD1	Return code from KDLRECON or KDLINITC routine
ALL WTO DOM IDS ARE KEPT HERE					
60	(3C)	ADDRESS	4	CKRDMFST(0)	FIRST DOM ID
60	(3C)	SIGNED	4	CKRDM233	DOM ID for message HASP233
64	(40)	SIGNED	4	CKRDM235	DOM ID for message HASP235
68	(44)	SIGNED	4	CKRDM237	DOM ID for message HASP237
72	(48)	SIGNED	4	CKRDM270	DOM ID FOR MESSAGE HASP270
76	(4C)	SIGNED	4	CKRDM271	DOM ID FOR MESSAGE HASP271
80	(50)	SIGNED	4	CKRDM272	DOM ID FOR MESSAGE HASP272
84	(54)	SIGNED	4	CKRDM273	DOM ID FOR MESSAGE HASP273
88	(58)	SIGNED	4	CKRDM275	DOM ID FOR MESSAGE HASP275
92	(5C)	SIGNED	4	CKRDM276	DOM ID FOR MESSAGE HASP276
96	(60)	SIGNED	4	CKRDM277	DOM ID FOR MESSAGE HASP277
100	(64)	SIGNED	4	CKRDM278	DOM ID FOR MESSAGE HASP278
104	(68)	SIGNED	4	CKRDM281	DOM ID FOR MESSAGE HASP281
108	(6C)	SIGNED	4	CKRDM282	DOM ID FOR MESSAGE HASP282
112	(70)	SIGNED	4	CKRDM284	DOM ID FOR MESSAGE HASP284
116	(74)	SIGNED	4	CKRDM285	DOM ID FOR MESSAGE HASP285
120	(78)	SIGNED	4	CKRDM294	DOM ID FOR MESSAGE HASP294
124	(7C)	SIGNED	4	CKRDM299	DOM ID FOR MESSAGE HASP299
128	(80)	SIGNED	4	CKRDMINT	DOM ID for init statement
128	(80)	X'80'	0	CKRDMLST	"*-4" LAST DOM ID
THE WTOR ECB					
132	(84)	ADDRESS	4	CKRECB(0)	ECB USED FOR ALL WTOR'S
156	(9C)	ADDRESS	4	CKRSAVHF	ANCHOR FOR SAVED HFAM'S
160	(A0)	CHARACTER	8	CKRCKPTD	'CKPTDEF' when needed
168	(A8)	CHARACTER	144	CKRESPON	ALL REPLIES TO WTOR'S COME HERE
----- \$BLDMSG MF=L List form of \$BLDMSG					
312	(138)	SIGNED	4	CKRMSG(0)	Control block ID
316	(13C)	BITSTRING	4		Console ID

Table 84. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
320	(140)	ADDRESS	4		Address of the CART
324	(144)	ADDRESS	4		Pointer for JOBID
328	(148)	ADDRESS	4		Control block address
332	(14C)	ADDRESS	4		Display routine address
336	(150)	ADDRESS	4	(6)	6 word work area
360	(168)	ADDRESS	4		Caller's R11 value
364	(16C)	BITSTRING	2		ROUT code for Message
366	(16E)	BITSTRING	2		Not used
368	(170)	CHARACTER	4		Message ID
372	(174)	CHARACTER	1		Separator character
373	(175)	ADDRESS	1		Flag byte 1
374	(176)	ADDRESS	1		'DISPER'
375	(177)	ADDRESS	1		Flag byte 2
376	(178)	ADDRESS	1		Flag byte 3
377	(179)	ADDRESS	1		Severity of message
378	(17A)	CHARACTER	8		Symbolic name of dest.
386	(182)	BITSTRING	14		Not used
400	(190)	ADDRESS	4	(0)	Ensure multiple of 4
400	(190)	ADDRESS	2	(0)	
400	(190)	ADDRESS	4	CKRCKGW	Spare CKG pointer
404	(194)	ADDRESS	4	CKRECLST(2)	ECB LIST
BLD parameter list used as \$SCAN token by the \$MSGDISR display routine ----- \$BLDMSG MF=L For HASP272 init stmt reply					
412	(19C)	SIGNED	4	CKRSDBLD(0)	Control block ID
416	(1A0)	BITSTRING	4		Console ID
420	(1A4)	ADDRESS	4		Address of the CART
424	(1A8)	ADDRESS	4		Pointer for JOBID
428	(1AC)	ADDRESS	4		Control block address
432	(1B0)	ADDRESS	4		Display routine address
436	(1B4)	ADDRESS	4	(6)	6 word work area
460	(1CC)	ADDRESS	4		Caller's R11 value
464	(1D0)	BITSTRING	2		ROUT code for Message
466	(1D2)	BITSTRING	2		Not used
468	(1D4)	CHARACTER	4		Message ID
472	(1D8)	CHARACTER	1		Separator character
473	(1D9)	ADDRESS	1		Flag byte 1
474	(1DA)	ADDRESS	1		'DISPER'
475	(1DB)	ADDRESS	1		Flag byte 2
476	(1DC)	ADDRESS	1		Flag byte 3
477	(1DD)	ADDRESS	1		Severity of message
478	(1DE)	CHARACTER	8		Symbolic name of dest.
486	(1E6)	BITSTRING	14		Not used
500	(1F4)	ADDRESS	4	(0)	Ensure multiple of 4
500	(1F4)	ADDRESS	2	(0)	

Table 84. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GENERATE ENOUGH SPACE TO HANDLE ALL POSSIBLE RESPONSES TO THE HASP272 MESSAGE. THE LENGTH INCLUDES 1 BYTE FOR THE LENGTH; 1 BYTE FOR THE RESPONSE; AND 4 BYTES FOR THE ADDRESS OF THE PROCESSING ROUTINES. THERE ARE TWO ENTRIES AT THE END FOR CKPTDEF AND CANCEL.					
500	(1F4)	BITSTRING	72	CKRVECTR	RESPONSE VECTOR
572	(23C)	BITSTRING	72	CKRHFAME	TEMPORARY HFAME
644	(284)	BITSTRING	1	CKRMFLAG	FLAG BYTE USED FOR MESSAGE CREATION
PARAMETER LIST FOR KTRK1IO ROUTINE					
648	(288)	ADDRESS	4	CKRPARMX(0)	PARAMETER LIST FOR \$CALLS
648	(288)	ADDRESS	4	CKRTCKG1	ADDRESS OF CKG1
652	(28C)	ADDRESS	4	CKRTCKG2	ADDRESS OF CKG2
656	(290)	ADDRESS	4	CKRTKYR1	ADDRESS OF KEY COMP FOR DS1
660	(294)	ADDRESS	4	CKRTKYR2	ADDRESS OF KEY COMP FOR DS2
664	(298)	ADDRESS	4	CKRTKYW1	ADDRESS KEY WRITE FOR DS1
668	(29C)	ADDRESS	4	CKRTKYW2	ADDRESS KEY WRITE FOR DS2
668	(29C)	X'288'	0	CKRPARM	"CKRPARMX,*-CKRPARMX" PARAMETER LIST
648	(288)	BITSTRING	12	CKRTQE	TQE AREA
672	(2A0)	ADDRESS	4	CKRCVCKG	ADDRESS OF CKG WHICH HAS HAD AN I/O ERROR AS A COMPANION
676	(2A4)	ADDRESS	4		RESERVED FOR FUTURE USE
680	(2A8)	ADDRESS	4	(0)	ENSURE WORK AREA ENDS ON WORD BOUNDARY
Equates for HASPCKDS as a function indicator for type of work to do in subroutines - KDLRFORW, KDLRSUSP, KDLRRESM, KDLROPT1, KDLROPT5, and KDLROPT7					
680	(2A8)	X'0'	0	CKRPROC	"0" Process the function
680	(2A8)	X'4'	0	CKRFNSH	"4" Finish up remaining work
680	(2A8)	X'8'	0	CKRCLEN	"8" Clean up the work
680	(2A8)	X'C'	0	CKRDRVF	"12" Handle driver failure
680	(2A8)	X'2A8'	0	CKRSIZE	"*-CKR" SIZE OF WORK AREA

Table 85. Cross Reference for \$CKPRECV

Name	Offset	Hex Tag
CKR	0	
CKRACODE	34	
CKRAERRC	30	
CKRCACT	2C	
CKRCKG	4	
CKRCKGW	190	
CKRCKG2	8	
CKRCKPTD	A0	
CKRCLEN	2A8	8
CKRCOUNT	18	

Table 85. Cross Reference for \$CKPRECV (continued)

Name	Offset	Hex Tag
CKRCVCKG	2A0	
CKRDMFST	3C	
CKRDMINT	80	
CKRDMLST	80	80
CKRDM233	3C	
CKRDM235	40	
CKRDM237	44	
CKRDM270	48	
CKRDM271	4C	
CKRDM272	50	
CKRDM273	54	
CKRDM275	58	
CKRDM276	5C	
CKRDM277	60	
CKRDM278	64	
CKRDM281	68	
CKRDM282	6C	
CKRDM284	70	
CKRDM285	74	
CKRDM294	78	
CKRDM299	7C	
CKRDRVF	2A8	C
CKRDSETR	14	
CKRECB	84	
CKRECLST	194	
CKRESPON	A8	
CKRFLAG1	C	
CKRFLAG2	D	
CKRFLAG3	E	
CKRFLAG4	F	
CKRFLAG5	10	
CKRFLAG6	11	
CKRFNSH	2A8	4
CKRHFAME	23C	
CKRID	0	
CKRMFLAG	284	
CKRMODN	1C	
CKRMSG	138	C2D3C440
CKRPARM	29C	288

Table 85. Cross Reference for \$CKPRECV (continued)

Name	Offset	Hex Tag
CKRPARMX	288	
CKRPROC	2A8	0
CKRRTCD1	38	
CKRSAVHF	9C	
CKRSDBLD	19C	C2D3C440
CKRSEQN	24	
CKRSIZE	2A8	2A8
CKRTCKG1	288	
CKRTCKG2	28C	
CKRTKYR1	290	
CKRTKYR2	294	
CKRTKYW1	298	
CKRTKYW2	29C	
CKRTQE	288	
CKRVECTR	1F4	
CKR1CFV	C	10
CKR1INIT	C	20
CKR1IOER	C	80
CKR1RECO	C	40
CKR1RFMT	C	4
CKR1SETC	C	8
CKR2CREA	D	4
CKR2DEL	D	10
CKR2KNUL	D	16
CKR2KRSV	D	1
CKR2MIOE	D	40
CKR2NCRE	D	2
CKR2NDR	12	
CKR2OPT7	D	20
CKR2QUSE	D	8
CKR2RECR	D	80
CKR4FWC1	F	10
CKR4FWC2	F	8
CKR4ILEV	F	80
CKR4LIM	F	40
CKR4OAR	F	4
CKR4OPV	F	20
CKR4RSM1	F	2
CKR4RSM2	F	1

Table 85. Cross Reference for \$CKPRECV (continued)

Name	Offset	Hex Tag
CKR5CRC	10	80
CKR5CRCJ	10	20
CKR5CRC0	10	40
CKR5CRFA	10	10
CKR60TH	11	10
CKR6SOFT	11	80
CKR6STAT	11	8
CKR6THIS	11	20
CKR62NDR	11	40

\$CKPTQCB information

\$CKPTQCB heading information

Common name:	Checkpoint request queue element
Macro ID:	\$CKPTQCB
DSECT name:	CKPTQCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CKQ Offset: CKQID Length: L'CKQID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CKQLEN
Created by:	\$CKPTQUE service
Pointed to by:	\$CKQHEAD field of the HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	The \$CKPWQCB represents a unit of work for the CKPT PCE to perform, once the CKPT queues are obtained. Queue elements are created via the \$CKPTQUE macro and service routines.

\$CKPTQCB mapping

Table 86. Structure CKPTQCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKPTQCB	CKPT request queue element
0	(0)	CHARACTER	4	CKQID	Control block id
4	(4)	ADDRESS	1	CKQVERSN	Control block version
4	(4)	X'1'	0	CKQVERN	"1" Version number

Table 86. Structure CKPTQCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	CKQNEXT	Next CB on work queue
16	(10)	DBL WORD	8	CKQREGS(2)	R0 and R1 on entry to service.
32	(20)	ADDRESS	4	CKQRTNA	Address of routine
36	(24)	ADDRESS	4	CKQPCE	Address of associated PCE
36	(24)	X'28'	0	CKQLEN	"*-CKPTQCB" Length of CKPTQCB

Table 87. Cross Reference for \$CKPTQCB

Name	Offset	Hex	Tag
CKPTQCB	0		
CKQID	0	C3D2D840	
CKQLEN	24		28
CKQNEXT	8		
CKQPCE	24		
CKQREGS	10		
CKQRTNA	20		
CKQVERN	4		1
CKQVERSN	4		

\$CKPWORK information

\$CKPWORK programming interface information

\$CKPWORK is a programming interface.

\$CKPWORK heading information

Common name:	HASP Checkpoint PCE Work Area DSECT
Macro ID:	\$CKPWORK
DSECT name:	PCE (\$CKPWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol CKPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	\$CKPTPCE field of the \$HCT data area

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 checkpoint processor. \$CKPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$CKPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECKPID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$CKPWORK mapping

Table 88. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP CHECKPOINT PROCESSOR
336	(150)	SIGNED	4	CKPHLTIM	Checkpoint held time
340	(154)	SIGNED	4	CKPDRMTM	Checkpoint dormancy time
344	(158)	SIGNED	2	CKPUWORK	General work area
346	(15A)	BITSTRING	4	CKPUMASK	General work mask
350	(15E)	BITSTRING	1	CKPFLAG1	FLAG BYTE --
		1...		CKP1FILL	"B'10000000'" TGB HAS BEEN FILLED
		..1.		CKP10FLW	"B'00100000'" CH LOG IS OVERFLOWING
		...1		CKP1SFMI	"B'00010000'" SPOOL FULL MSG ISSUED
		.... 1...		CKP1PCAP	"B'00001000'" CKVR subtask posted
		.... .1..		CKP1VLEN	"B'00000100'" CURRENT CB IS IN VARIABLE LENGTH SECTION OF CKPT
		.... ..1.		CKP1LHBS	"B'00000010'" CKPQSOLD is zero because the lock was held by the system
		.... ...1		CKP1STOP	"B'00000001'" When reach end of DAS chain, do not start over (used in KBL0B)
351	(15F)	BITSTRING	1	CKPFLAG2	Flag byte
		1...		CKP2RBLB	"B'10000000'" KBL0B executed once
352	(160)	SIGNED	4	CKPSRCHO	Search offset within extent
356	(164)	BITSTRING	4		Reserved for alignment
CKPT PCE uses special form of TQE					
360	(168)	DBL WORD	8	(0)	Alignment
360	(168)	BITSTRING	24	CKPSTQE	\$STIMER queue element for HOLD interval
384	(180)	BITSTRING	24	CKPMITQE	\$STIMER queue element for max interval to wait before a ckpt write
408	(198)	BITSTRING	24	CKPMDTQE	\$STIMER queue element for max final write delay
432	(1B0)	BITSTRING	24	CKPAPECB	HASPCKVR ECB
456	(1C8)	SIGNED	4	CKPAPTIM	TIME OF LAST HASPCKAP POST
460	(1CC)	SIGNED	4	CKPBTIME	SPOOL WARNING TIME STAMP
464	(1D0)	ADDRESS	4	CKPPALA	ADDRESS OF PAGE ADDR LIST
468	(1D4)	ADDRESS	4	CKPTRPTR	ADDRESS OF THE CHECKPOINT TRACE WORK AREA
472	(1D8)	ADDRESS	4	CKPCLENT	ADDRESS OF THE NEXT AVAILABLE ENTRY IN THE CHANGE LOG

Table 88. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
476	(1DC)	ADDRESS	4	CKPCLEND	Byte past end of CHLOG area
480	(1E0)	SIGNED	4	CKPUSER1	RESERVED FOR USER
484	(1E4)	SIGNED	4	CKPUSER2	RESERVED FOR USER
488	(1E8)	SIGNED	4	CKPSTCK	TIMER SAVE AREA
492	(1EC)	SIGNED	4	CKPDASN	ADDRESS OF NEXT DAS FOR BLOB
496	(1F0)	BITSTRING	32	CKPBLMPR	Previous mask of volumes in the BLOB (from last time through KBLOB)
528	(210)	BITSTRING	32	CKPBLMSK	Mask of volumes in BLOB with affinity for this member
560	(230)	BITSTRING	32	CKPBLMFN	Mask of vols in BLOB at end of KBLOB (may include vols without affinity for the member)
592	(250)	BITSTRING	32	CKPBLMWK	Work mask for KBLOB
624	(270)	BITSTRING	1		Reserved for future use
625	(271)	BITSTRING	1	CKPDASP2	'M' of next DAS to use when filling BLOB round- robin from the DASes
626	(272)	SIGNED	2	CKPRETRY	I/O ERROR RETRY COUNTER +1
628	(274)	CHARACTER	4	CKPRLSID	SYSTEM NAME AND AFFINITY
632	(278)	ADDRESS	1	CKPRLAFF	FROM \$ESYS,RESET=
633	(279)	BITSTRING	1	CKPBLCNT	COUNT OF SPOOLS IN BLOB
634	(27A)	SIGNED	2	CKPTGESZ	Max num of entries in BLOB
636	(27C)	SIGNED	4	CKPQLOCK(0)	Query Lock work area
636	(27C)	SIGNED	4	CKPQSSID	System ID of lock holder
640	(280)	CHARACTER	16	CKPQSSNM	System name of lock holder
656	(290)	ADDRESS	4	CKPQCKGA	CKG address
656	(290)	X'18'	0	CKPQLEN	"*-CKPQLOCK" Length of Query Lock
656	(290)	X'27F'	0	CKPSTLID	"CKPQSSID+3" 1 byte lock id to be cleared via \$SYS,RESET=
660	(294)	ADDRESS	4	CKPSQDA	Query lock SQD pointer
664	(298)	SIGNED	4	CKPQSOLD	System ID of previous CF lock holder
672	(2A0)	DBL WORD	8	CKPCSTRT	STCK WHEN CKPT STARTED CYCLE (KRESERVE ISSUED)
680	(2A8)	ADDRESS	4	CKPECMBF	Addr of first CMB for reset of checkpoint lock FIFO q
684	(2AC)	ADDRESS	4	CKPECNID	Console id for reset lock messages
688	(2B0)	CHARACTER	8	CKPECART	CART for reset lock msgs
696	(2B8)	SIGNED	4	CKPTMR14	KSTIMER/KTTIMER R14 save @
700	(2BC)	SIGNED	4	CKPAPTSQ	Time last Side Queue update ((high half STCKF)
704	(2C0)	DBL WORD	8	(0)	
704	(2C0)	X'170'	0	CKPPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 89. Cross Reference for \$CKPWORK

Name	Offset	Hex Tag
CKPAPECB	1B0	
CKPAPTIM	1C8	
CKPAPTSQ	2BC	
CKPBLCNT	279	

Table 89. Cross Reference for \$CKPWORK (continued)

Name	Offset	Hex Tag
CKPBLMFN	230	
CKPBLMPR	1F0	
CKPBLMSK	210	
CKPBLMWK	250	
CKPBTIME	1CC	
CKPCLEND	1DC	
CKPCLENT	1D8	
CKPCSTRT	2A0	
CKPDASN	1EC	
CKPDASP2	271	
CKPDRMTM	154	
CKPECART	2B0	
CKPECMBF	2A8	
CKPECNID	2AC	
CKPFLAG1	15E	
CKPFLAG2	15F	
CKPHLTIM	150	
CKPMDTQE	198	
CKPMITQE	180	
CKPPALA	1D0	
CKPPCEWS	2C0	170
CKPQCKGA	290	
CKPQLLEN	290	18
CKPQLOCK	27C	
CKPQSOLD	298	
CKPQSSID	27C	
CKPQSSNM	280	
CKPRETRY	272	
CKPRLAFF	278	
CKPRLSID	274	
CKPSQDA	294	
CKPSRCHO	160	
CKPSTCK	1E8	
CKPSTLID	290	27F
CKPSTQE	168	
CKPTGESZ	27A	
CKPTMR14	2B8	
CKPTRPTR	1D4	
CKPUMASK	15A	

Table 89. Cross Reference for \$CKPWORK (continued)

Name	Offset	Hex Tag
CKPUSER1	1E0	
CKPUSER2	1E4	
CKPUWORK	158	
CKP1FILL	15E	80
CKP1LHBS	15E	2
CKP10FLW	15E	20
CKP1PCAP	15E	8
CKP1SFMI	15E	10
CKP1STOP	15E	1
CKP1VLEN	15E	4
CKP2RBLB	15F	80
PCE	0	

\$CKW information

\$CKW heading information

Common name:	Checkpoint Routine Work Area
Macro ID:	\$CKW
DSECT name:	CKW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CKW Offset: CKWID Length: L'CKWID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CKWLNGTH
Created by:	HASPIRMA during JES2 initialization
Pointed to by:	\$CKW field of the HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	The \$CKW maps a work area used by the externally \$CALLable routines in the checkpoint modules (HASPCCKPT and HASPCCKDS). Since these routines are \$CALLable under different PCEs (namely, init and checkpoint), this work area holds common fields which must be PCE work area independent.

\$CKW mapping

Table 90. Structure CKW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKW	CKPT WORK AREA MAPPING
0	(0)	CHARACTER	4	CKWID	CONTROL BLOCK ID
4	(4)	ADDRESS	1	CKWVERSN	CONTROL BLOCK VERSION
4	(4)	X'4'	0	CKWVERN	"4" Version number
5	(5)	BITSTRING	1	CKWFLAG1	Ckpt work area flags
		1...		CKW1FNLW	"B'10000000'" FINAL CHECKPOINT DS WRITE
		.1..		CKW10FLW	"B'01000000'" CHANGE LOG OVERFLOWING
		..1.		CKW1ESUP	"B'00100000'" SUPPRESS I/O ERROR MESSAGES
		...1		CKW1S266	"B'00010000'" SUPPRESS 266/267 MESSAGES DURING KFORMAT ROUTINE
		.... 1...		CKWLDIAG	"B'00001000'" THE CHECKPOINT WAS RECONFIGURED (SET BY DIALOG, RESET AFTER OBTAINING THE LOCK)
		.... .1..		CKW1SPI0	"B'00000100'" SPLIT THE IO ACROSS 2 CALLS TO KPRIMW (ONE TO START THE I/O ONE TO WAIT FOR IT)
		.... ..1.		CKW1SPSC	"B'00000010'" THIS IS THE SECOND CALL TO KPRIMW (TO WAIT FOR THE I/O IF IT WAS STARTED)
6	(6)	BITSTRING	1	CKWFLAG2	CKPT work area flags
		1...		CKW2R1LS	"B'10000000'" LAST CKPT PHASE WAS RD 1
		.1..		CKW2R2LS	"B'01000000'" LAST CKPT PHASE WAS RD 2
		..1.		CKW2PWLS	"B'00100000'" LAST CKPT PHASE WAS PRM W
		...1		CKW2IWLS	"B'00010000'" LAST CKPT PHASE WAS INT W
		.... 1...		CKW2FWLS	"B'00001000'" LAST CKPT PHASE WAS FIN W
		.... .1..		CKW2FMLS	"B'00000100'" LAST CKPT PHASE WAS FMT W
		.... ...1		CKW2INTR	"B'00000001'" INIT owner reset in lock
7	(7)	BITSTRING	1	CKWFLAG3	CKPT Work flag 3
		.1..		CKW3FMCP	"B'01000000'" KFORMAT needs to copy pages to I/O area
		...1		CKW3R2WP	"B'00010000'" Wrapping active for READ2
		.... 1...		CKW3PWWP	"B'00001000'" Wrapping active for primary write
		.... .1..		CKW3NOPT	"B'00000100'" Do not optimize writes
		.... ..1.		CKW3STA	"B'00000010'" Status from previous CKPT holder pending
		.... ...1		CKW3RFMT	"B'00000001'" Reformat attempted
8	(8)	BITSTRING	1	CKWFLAG4	CKPT Work Flag 4
		1...		CKW4WT01	"B'10000000'" VOLATILE=ONECKPT=WTOR
		.1..		CKW4IGN1	"B'01000000'" VOLATILE=ONECKPT=IGNORE
		..1.		CKW4DIA1	"B'00100000'" VOLATILE=ONECKPT=DIALOG
		...1		CKW4WTOR	"B'00010000'" VOLATILE=ALLCKPT=WTOR

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CKW4IGN0	"B'00001000'" VOLATILE=ALLCKPT=IGNORE
		.... .1..		CKW4DIAG	"B'00000100'" VOLATILE=ALLCKPT=DIALOG
		.... ..1.		CKW4P1V	"B'00000010'" CKPT1 previously volatile
		.... ...1		CKW4P2V	"B'00000001'" CKPT2 previously volatile
9	(9)	BITSTRING	1	CKWFLAG5	CKPT Work Flag 5
		1...		CKW51VOL	"B'10000000'" CKPT1 is volatile
		.1..		CKW51NVL	"B'01000000'" CKPT1 is non-volatile
		..1.		CKW52VOL	"B'00100000'" CKPT2 is volatile
		...1		CKW52NVL	"B'00010000'" CKPT2 is non-volatile
		.... 1...		CKW5STRL	"B'00001000'" Need STRLIST on SDUMPX
		.... .1..		CKW5PROT	"B'00000100'" CKPT memory read-only
		.... ..1.		CKW5PMST	"B'00000010'" Master record is read- only
10	(A)	BITSTRING	1	CKWFLAG6	CKPT Work Flag 6
		1...		CKW6LOCK	"B'10000000'" Locking operation
		.1..		CKW6READ	"B'01000000'" Read operation
		..1.		CKW6WRT	"B'00100000'" Write operation
		...1		CKW6FMT	"B'00010000'" Format operation
		.... 1...		CKW6EXT	"B'00001000'" Extend operation
		.... .1..		CKW6PRIM	"B'00000100'" Primary CKPT operation
		.... ..1.		CKW6LOKD	"B'00000010'" CKPT lock is held
11	(B)	BITSTRING	1	CKWFLAG7	CKPT Work Flag 7
		1...		CKW7WTCP	"B'10000000'" CKPT2 is write checkpoint
		.1..		CKW7RDCP	"B'01000000'" CKPT2 is read checkpoint
16	(10)	DBL WORD	8	CKWGTCLK	Time mbr got CKPT lock
24	(18)	DBL WORD	8	CKWRLSET	Time mbr gave up CKPT lock
32	(20)	DBL WORD	8	CKWPREVT	Time of last access to CKPT by mbr in CKWSTASY
40	(28)	DBL WORD	8	CKWSTHLD	Time of HOLD interval start
48	(30)	BITSTRING	1	CKWSCAN	\$SCAN Work byte
		1...		CKWSCF	"B'10000000'" STRNAME= was specified
		.1..		CKWSDSN	"B'01000000'" DSN= was just specified
		..1.		CKWSVOL	"B'00100000'" VOL= was just specified
48	(30)	X'E0'	0	CKWSCNL	"CKWSCF+CKWSDSN+CKWSVOL" (NEW)CKPTn level bits
		.... ..1.		CKWCFER	"B'00000010'" CF str does not exist
		.... ...1		CKWSNCN	"B'00000001'" NEWCKPTn was changed
48	(30)	X'1'	0	CKWSCDL	"CKWSNCN" CKPTDEF level bits
49	(31)	BITSTRING	1	CKWRECF3	Shadow copy of CKRFLAG3
50	(32)	BITSTRING	2	CKWRESV1	Reserved for future IBM use
52	(34)	BITSTRING	4	CKWRCID	Connection id of member holding the lock if the reserve data set is on a structure
56	(38)	ADDRESS	4	CKWLKIT	Local KIT information
60	(3C)	ADDRESS	4	CKWLKITE	Last byte of local KIT

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
64	(40)	ADDRESS	4	CKWKTJQE	Address of JQE local KIT
68	(44)	ADDRESS	4	CKWKTJQX	Address of JQX local KIT
72	(48)	ADDRESS	4	CKWKTJOE	Address of JOE local KIT
76	(4C)	ADDRESS	4	CKWKTPST	Address of PST local KIT
80	(50)	ADDRESS	4	CKWKTESQ	Address of ESQ local KIT
84	(54)	ADDRESS	4	CKWKTCDI	Address of CDI local KIT
88	(58)	ADDRESS	4	CKWKTD RX	Address of DRX local KIT
92	(5C)	ADDRESS	4	CKWKTD RT	Address of DRTM local KIT
96	(60)	BITSTRING	4		Reserved
100	(64)	SIGNED	2	CKWLKNUM	Number of local KITs
102	(66)	BITSTRING	1	CKWSTASY	CKPT status member
103	(67)	BITSTRING	1	CKWLSTSY	Prior memb that wrote CKPT
104	(68)	SIGNED	4	CKWMAXRC	Maximum # of 4K CKPT pages
CKWVERSZ is the size (in bytes) of all CTENTs that are available in a CKPT version (size of a normal version). CKWVSZ31 and CKWVSZ64 are the sizes of the 31 bit and 64 bit areas in a live version.					
108	(6C)	SIGNED	4	CKWVERSZ	Bytes in normal CKPT vers
112	(70)	SIGNED	4	CKWVSZ31	Bytes in live version 31
116	(74)	SIGNED	4	CKWVSZ64	and 64 bit areas
120	(78)	SIGNED	4	CKWVERMR	Max size of base MSTR rec
124	(7C)	SIGNED	4	CKWMSTBI	Base (31bit) mstr I/O len
128	(80)	SIGNED	4	CKWMSTBL	Base (31bit) mstr rec len
132	(84)	ADDRESS	4	CKWCKMA	Address of CKM control blk
136	(88)	ADDRESS	4	CKWPPLA	ADDRESS OF PAGE POINTER LIST
140	(8C)	ADDRESS	4	CKWCTWA	ADDRESS OF CKPT TRACE WORK AREA
144	(90)	ADDRESS	8	CKW4K64	4K pages 64 bit area
152	(98)	SIGNED	8	CKW4K64L	Segments for 4K page area
160	(A0)	ADDRESS	8	CKWIO64	I/O pages 64 bit area
168	(A8)	SIGNED	8	CKWIO64L	Segments for I/O page area
176	(B0)	SIGNED	4	CKWIOALT	ALET for I/O pages
180	(B4)	ADDRESS	4	CKWMTTCB	JES2AUX main task TCB addr
184	(B8)	ADDRESS	8	CKWCAL1	1st CKPT change list elem
192	(C0)	ADDRESS	8	CKWCALC	Current CKPT change list
200	(C8)	ADDRESS	8	CKWCALCE	1 byte past end of CALC
208	(D0)	ADDRESS	8	CKWCTLB	Addr of CKPT control bytes
216	(D8)	ADDRESS	8	CKWCTLBI	Addr of CKPT I/O ctrl bytes
224	(E0)	ADDRESS	8	CKWCTLBE	End of I/O CTLB work area
232	(E8)	ADDRESS	8	CKWERREG(16)	Save area for regs if error
Accumulators used to gather performance data for the JES2 checkpoint trace records. The data is accumulated across, at most, one checkpoint cycle (not all data is collected for an entire checkpoint cycle).					
360	(168)	SIGNED	4	CKWCKPTN	Number of \$CKPTs issued
364	(16C)	SIGNED	4		Reserved

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
368	(170)	DBL WORD	8	CKWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
376	(178)	DBL WORD	8	CKWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues (\$QSUSE)
384	(180)	DBL WORD	8	CKWQSLST	Time of most recent \$WAIT by PCE with \$QSUSE
392	(188)	SIGNED	4	CKWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
396	(18C)	SIGNED	4	CKWPAINR	Member pain rate
400	(190)	SIGNED	4	CKWPAINV	Member pain value
404	(194)	SIGNED	4	CKWOHV	CKPT access overhead (in microsecs)
408	(198)	SIGNED	4	CKWQSMX	Longest QSUSE (microsecs)
412	(19C)	SIGNED	4	CKWPNRC	Captured pain rate
416	(1A0)	SIGNED	4	CKWSAPCI	Avg SAPI call interval (in 1/100s of second)
420	(1A4)	SIGNED	4	CKWSAPTM	Last update time (STCK)
420	(1A4)	X'1E'	0	CKWSAPTH	"30" Stale detect interval (seconds)
424	(1A8)	SIGNED	4	CKWPSTCT	Devices \$#POSTed on this member this ckpt cycle
428	(1AC)	SIGNED	4	CKWOPTCK	Number of \$CKPTs (CALEs) skipped due to CKPT optimization
432	(1B0)	SIGNED	4	CKWOPT4K	Number of 4K pages skipped due to CKPT optimization
436	(1B4)	SIGNED	4	CKWPAGCT	4K pages in current I/O
440	(1B8)	SIGNED	4	CKWBCBNT	CBs in change log for I/O
444	(1BC)	SIGNED	4	CKWCKPSZ	Size of checkpoint data
<p>The fields CKWIOIOLST and CKWSHLST point to areas with one byte per possible CKPT page. These bytes correspond to the 4K records as they are laid out in the CKPT (similar to the CTLBs). Available bytes are at the end of each area (not between CTENTS).</p> <p>CKWSHLST entries are FF if page is shared. Other values indicate not shared. 0 is initialization set value (never shared). Other values indicate what code did the unshare.</p>					
448	(1C0)	ADDRESS	4	CKWSHLST	Address of share list
452	(1C4)	ADDRESS	4	CKWIOIOLST	Address of I/O needed list
General parameter list					
456	(1C8)	DBL WORD	8	(0)	Align parmlist
456	(1C8)	BITSTRING	0	CKWPARMS(0)	GENERAL PARAMETER LIST
456	(1C8)	ADDRESS	4	CKWPARM1	PARAMETER WORD 1
460	(1CC)	ADDRESS	4	CKWPARM2	PARAMETER WORD 2
464	(1D0)	ADDRESS	4	CKWPARM3	PARAMETER WORD 3
468	(1D4)	ADDRESS	4	CKWPARM4	PARAMETER WORD 4
472	(1D8)	ADDRESS	4	CKWPARM5	PARAMETER WORD 5
476	(1DC)	ADDRESS	4	CKWPARM6	PARAMETER WORD 6
476	(1DC)	X'18'	0	CKWPARML	"*-CKWPARMS" LENGTH OF GENERAL PARM LIST

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
480	(1E0)	DBL WORD	8	(0)	Align next
480	(1E0)	BITSTRING	8	CKWLKEY1	CKPT1 LOCK KEY COMPARAND VAL
488	(1E8)	BITSTRING	8	CKWLKEY2	CKPT2 LOCK KEY COMPARAND VAL
496	(1F0)	BITSTRING	8	CKWLKVL1	CKPT1 LOCK KEY WRITE VALUE
504	(1F8)	BITSTRING	8	CKWLKVL2	CKPT2 LOCK KEY WRITE VALUE
512	(200)	SIGNED	4	CKWKT1RC	KTRK1IO - RETURN CODE SAVE
516	(204)	SIGNED	4	CKWCT1RC	CFTRK1IO - return code save
520	(208)	SIGNED	4	CKWCFAIL	CFTRK1IO - failing CKG
524	(20C)	SIGNED	4	CKWDFAIL	KTRK1IO - failing CKG
528	(210)	ADDRESS	4	CKWCFTD	CF Trace data table
532	(214)	ADDRESS	4	CKWXREQ	Pointer to XREQ area
536	(218)	DBL WORD	8	CKWKT1PK	KTRK1IO - 1ST CCW PACKET (PSEUDO TIC CCW)
544	(220)	DBL WORD	8	CKWINITM	Time IRDA got the CKPT data set lock
552	(228)	DBL WORD	8	CKWCKWTM	Time CKPT started waiting for CKPT request (CKWAIT)
560	(230)	SIGNED	4	CKWCKWRE	R14 at time CKWAIT called
564	(234)	SIGNED	4	CKWFMCKG	CKG work area - KFORMAT
568	(238)	SIGNED	2	CKWXCFA	XCF ASID
570	(23A)	BITSTRING	6		Reserved for future use
576	(240)	DBL WORD	8	(0)	Align next field
576	(240)	CHARACTER	8	CKWCFLVL	\$CKPTLEV when CF subtask is posted
576	(240)	X'244'	0	CKWCFLVN	"CKWCFLVL+4,4,C'F'" 4 byte level for PLX code
584	(248)	DBL WORD	8	CKWR2LEV	CKPT level at last Read 2
592	(250)	DBL WORD	8	CKWWRLEV	CKPT level at last IW/FW
CKPT PCE uses special form of TQE					
600	(258)	DBL WORD	8	(0)	Alignment
600	(258)	BITSTRING	24	CKWKSTQE	TQE for CKPT services
624	(270)	SIGNED	4	CKWQECB(0)	KWRITE HASP272 msg ecb
648	(288)	CHARACTER	8	CKWQREPL	KWRITE HASP272 reply area
\$T CKPTDEF command parameter area This area is used by \$T CKPTDEF CKPT1/2 commands to pass requested changes to the checkpoint reconfig process.					
656	(290)	BITSTRING	1	CKWDSETR	Requested function number
0 No function required					
656	(290)	X'1'	0	CKWDSCK1	"1" Update CKPT1 spec
656	(290)	X'2'	0	CKWDSCK2	"2" Update CKPT2 spec
656	(290)	X'3'	0	CKWDCK1	"3" Make CKPT1 INUSE=NO
656	(290)	X'4'	0	CKWDCK2	"4" Make CKPT2 INUSE=NO
656	(290)	X'5'	0	CKWDRCK1	"5" Make CKPT1 INUSE=YES
656	(290)	X'6'	0	CKWDRCK2	"6" Make CKPT2 INUSE=YES
657	(291)	BITSTRING	1	CKWDSWRK	SXIT work area for CKWDSETR
658	(292)	BITSTRING	2		Reserved

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
660	(294)	BITSTRING	72	CKWDHFE	Requested HFAME setting
732	(2DC)	BITSTRING	72	CKWDSVHF	Saved NEWCKPTn HFAME
804	(324)	BITSTRING	4	CKWCONID	Dialog console id
DOM IDs for HASP256 message					
808	(328)	SIGNED	4	CKWDRNC1	DOMID FOR \$HASP256 NEWCKPT1
812	(32C)	SIGNED	4	CKWDRNC2	DOMID FOR \$HASP256 NEWCKPT2
816	(330)	CHARACTER	80	CKWMSG	MESSAGE WORK AREA
816	(330)	CHARACTER	70	CKWDIAGR	CKPTALOC error reason text
----- \$BLDMSG MF=L List form of \$BLDMSG					
896	(380)	SIGNED	4	CKWBLSMG(0)	Control block ID
900	(384)	BITSTRING	4		Console ID
904	(388)	ADDRESS	4		Address of the CART
908	(38C)	ADDRESS	4		Pointer for JOBID
912	(390)	ADDRESS	4		Control block address
916	(394)	ADDRESS	4		Display routine address
920	(398)	ADDRESS	4	(6)	6 word work area
944	(3B0)	ADDRESS	4		Caller's R11 value
948	(3B4)	BITSTRING	2		ROUT code for Message
950	(3B6)	BITSTRING	2		Not used
952	(3B8)	CHARACTER	4		Message ID
956	(3BC)	CHARACTER	1		Separator character
957	(3BD)	ADDRESS	1		Flag byte 1
958	(3BE)	ADDRESS	1		'DISPER'
959	(3BF)	ADDRESS	1		Flag byte 2
960	(3C0)	ADDRESS	1		Flag byte 3
961	(3C1)	ADDRESS	1		Severity of message
962	(3C2)	CHARACTER	8		Symbolic name of dest.
970	(3CA)	BITSTRING	14		Not used
984	(3D8)	ADDRESS	4	(0)	Ensure multiple of 4
984	(3D8)	ADDRESS	2	(0)	
984	(3D8)	SIGNED	4	CKWPPL(0)	PURGE PARAMETER LIST
1000	(3E8)	ADDRESS	4	CKWSTAR	DVCT OR UCB ADDR, OR DEVTYPE
1004	(3EC)	BITSTRING	1		FLAG BYTE
1005	(3ED)	BITSTRING	1		RESERVED
1006	(3EE)	ADDRESS	2		TRACK BALANCE
1008	(3F0)	ADDRESS	1		RECORD NUMBER
1009	(3F1)	ADDRESS	1		KEY LENGTH
1010	(3F2)	ADDRESS	2		DATA LENGTH
1012	(3F4)	SIGNED	4	(2)	Reserved
1024	(400)	DBL WORD	8	CKWRESVS(0)	ISGENQ MF=L begins here MACDATE -01/23/13-<2>
		.... ...1		CKWRESV_XCOND_NO	"X'01' "
		.... ...1.		CKWRESV_XCOND_YES	"X'02' "
		.... ...1		CKWRESV_XREQUEST_OBTAIN	"X'01' "

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		CKWRESV_XREQUEST_CHANGE	"X'02' "
		.... ..11		CKWRESV_XREQUEST_RELEASE	"X'03' "
0	(0)	X'400'	0	M00M1238	"CKWRESV" ++ ISGENQ NAME
1024	(400)	DBL WORD	8	CKWRESV(0)	++ ISGENQ PARM LIST
1024	(400)	BITSTRING	1	CKWRESV_XVERSION	++ INPUT XVERSION
1025	(401)	CHARACTER	1	CKWRESV_XRSV0000	++ RESERVED
1026	(402)	BITSTRING	1	CKWRESV_XSCOPE	++ XSCOPE
1026	(402)	X'1'	0	CKWRESV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
1026	(402)	X'2'	0	CKWRESV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
1026	(402)	X'3'	0	CKWRESV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
1026	(402)	X'3'	0	CKWRESV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
1027	(403)	BITSTRING	1	CKWRESV_XCONTROL	++ XCONTROL
1027	(403)	X'1'	0	CKWRESV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
1027	(403)	X'2'	0	CKWRESV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
1028	(404)	BITSTRING	1	CKWRESV_XFLAGS1	++ FIELD_LABEL
		.1..		CKWRESV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		CKWRESV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		CKWRESV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		CKWRESV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		CKWRESV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		CKWRESV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ...1		CKWRESV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
1029	(405)	BITSTRING	1	CKWRESV_XFLAGS2	++ FIELD_LABEL
		1...		CKWRESV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		CKWRESV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		CKWRESV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		CKWRESV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		CKWRESV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		CKWRESV_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		CKWRESV_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
1030	(406)	BITSTRING	1	CKWRESV_XFLAGS3	++ FIELD_LABEL

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		CKWRESV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	
1031	(407)	BITSTRING	1	CKWRESV_XFLAGS4	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD ++ FIELD_LABEL
		.... ...1		CKWRESV_XUCB@_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
1032	(408)	ADDRESS	8	CKWRESV_XRESTABLE_ADDR3164	++ ADDR3164
1040	(410)	ADDRESS	8	CKWRESV_XENQTOKEN_ADDR3164	++ ADDR3164
1048	(418)	ADDRESS	8	CKWRESV_XRETURNTABLE_ADDR3164	
1056	(420)	ADDRESS	8	CKWRESV_XENQTOKEN_TBL_ADDR3164	
1064	(428)	ADDRESS	8	CKWRESV_XRNAME_ADDR3164	++ ADDR3164
1072	(430)	ADDRESS	8	CKWRESV_XANSAREA_ADDR3164	++ ADDR3164
1080	(438)	CHARACTER	8	CKWRESV_XQNAME	++
1088	(440)	CHARACTER	16	CKWRESV_XOWNINGTTOKEN	++
1104	(450)	SIGNED	4	CKWRESV_XRESTABLE_ALET	++ ALET
1108	(454)	SIGNED	4	CKWRESV_XENQTOKEN_ALET	++ ALET
1112	(458)	SIGNED	4	CKWRESV_XRETURNTABLE_ALET	++ ALET
1116	(45C)	SIGNED	4	CKWRESV_XENQTOKEN_TBL_ALET	++ ALET
1120	(460)	SIGNED	4	CKWRESV_XRNAME_ALET	++ ALET
1124	(464)	SIGNED	4	CKWRESV_XANSAREA_ALET	++ ALET
1128	(468)	SIGNED	4	CKWRESV_XANSLEN	++
1132	(46C)	ADDRESS	4	CKWRESV_XECB@	++
1136	(470)	ADDRESS	4	CKWRESV_XUCB@	++
1140	(474)	BITSTRING	2	CKWRESV_XNUMRES	++
1142	(476)	BITSTRING	1	CKWRESV_XRNAMELEN	++
1143	(477)	CHARACTER	1	CKWRESV_XRSV0001	++ RESERVED
1144	(478)	CHARACTER	8	CKWRESV_XRSVNNNN	++ RESERVED
1144	(478)	X'480'	0	CKWRESV_PL_END	"*" ++ END OF BASE PLIST
1026	(402)	BITSTRING	1	CKWRESV_XSCOPEVAL	++
1027	(403)	BITSTRING	1	CKWRESV_XCONTROLVAL	++
1152	(480)	X'80'	0	CKWRESVL	"*-CKWRESV" ++ LENGTH OF PLIST

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0	(0)	X'400'	0	M00M1240	"CKWCFPUR" ++ IXLPURGE NAME
1024	(400)	DBL WORD	8	CKWCFPUR(0)	++ IXLPURGE PARM LIST
1024	(400)	BITSTRING	1	CKWCFPUR_XVERSION	++ INPUT XVERSION
1025	(401)	BITSTRING	1	CKWCFPUR_XSCOPEFLAGS	++ FIELD_LABEL
		1... ..		CKWCFPUR_XSCOPE_STOKEN	"B'10000000'" ++ XSCOPE.STOKEN KEYWORD
		.1..		CKWCFPUR_XSCOPE_TTOKEN	"B'01000000'" ++ XSCOPE.TTOKEN KEYWORD
		..1.		CKWCFPUR_XSCOPE_CONTOKEN	"B'00100000'" ++ XSCOPE.CONTOKEN KEYWORD

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1026	(402)	CHARACTER	2	CKWCFPUR_XRSV0001	++ RESERVED
1028	(404)	CHARACTER	8	CKWCFPUR_XSTOKEN	++
1036	(40C)	CHARACTER	16	CKWCFPUR_XTTOKEN	++
1052	(41C)	CHARACTER	16	CKWCFPUR_XCONTOKEN	++
1068	(42C)	CHARACTER	8	CKWCFPUR_XREQID	++
1068	(42C)	X'34'	0	CKWCFPURL	"*-CKWCFPUR" ++ LENGTH OF PLIST
IXLPURGE-0					
0	(0)	X'400'	0	CKWCFPRL	"CKWCFPUR,*-CKWCFPUR" Length of IXLPURGE
0	(0)	X'400'	0	M00M1241	"CKWXLIST" ++ IXLLIST NAME
1024	(400)	DBL WORD	8	CKWXLIST(0)	++ IXLLIST PARM LIST
1024	(400)	CHARACTER	96	CKWXLIST_XSHL_DATA	++ FIELD_LABEL
1120	(460)	CHARACTER	4	CKWXLIST_XMOB_DATA	++ FIELD_LABEL
1124	(464)	CHARACTER	112	CKWXLIST_XMCB_DATA1	++ FIELD_LABEL
1236	(4D4)	CHARACTER	20	CKWXLIST_XMCB_DATA2	++ FIELD_LABEL
1236	(4D4)	X'4E8'	0	CKWXLIST_PL_END	"*" ++ END OF BASE PLIST
1024	(400)	BITSTRING	1	CKWXLIST_XVERSION	++ INPUT XVERSION
1025	(401)	BITSTRING	1	CKWXLIST_XCMDCODE	++ FIELD_LABEL
1026	(402)	CHARACTER	4	CKWXLIST_XSHLFLGS	++ FIELD_LABEL
1030	(406)	CHARACTER	2	CKWXLIST_XRSV0102	++ RESERVED
1032	(408)	BITSTRING	1	CKWXLIST_XCOMPCONID	++ FIELD_LABEL
1033	(409)	BITSTRING	1	CKWXLIST_XBUFSTGKEY	++
1034	(40A)	BITSTRING	2	CKWXLIST_XANSLEN	++
1036	(40C)	CHARACTER	16	CKWXLIST_XCONTOKEN	++
1052	(41C)	CHARACTER	12	CKWXLIST_XDATADDR	++ FIELD_LABEL
1064	(428)	CHARACTER	8	CKWXLIST_XADJADDR	++ FIELD_LABEL
1072	(430)	CHARACTER	8	CKWXLIST_XANSADDR	++ FIELD_LABEL
1080	(438)	CHARACTER	8	CKWXLIST_XREQDATA	++
1088	(440)	CHARACTER	8	CKWXLIST_XREQID	++
1096	(448)	CHARACTER	16	CKWXLIST_XOPTIONALDATA	++ FIELD_LABEL
1112	(458)	CHARACTER	4	CKWXLIST_XSHLFLGSA	++ FIELD_LABEL
1116	(45C)	CHARACTER	4	CKWXLIST_XRSV0103	++ RESERVED
1026	(402)	BITSTRING	1	CKWXLIST_XSHLFLGS1	++ FIELD_LABEL
		1...		CKWXLIST_KEYUSED_BUFFER	"B'10000000'" ++ KEYUSED.BUFFER KEYWORD
		.1..		CKWXLIST_KEYUSED_BUFLIST	"B'01000000'" ++ KEYUSED.BUFLIST KEYWORD
		..1.		CKWXLIST_KEYUSED_ADJAREA	"B'00100000'" ++ KEYUSED.ADJAREA KEYWORD
		...1		CKWXLIST_KEYUSED_ANSAREA	"B'00010000'" ++ KEYUSED.ANSAREA KEYWORD
		.... 1...		CKWXLIST_XPAGEABLE_NO	"B'00001000'" ++ XPAGEABLE.NO KEYWORD
		.... .1..		CKWXLIST_KEYUSED_BUFSTGKEY	"B'00000100'" ++ KEYUSED.BUFSTGKEY KEYWORD
		.... ..1.		CKWXLIST_XBUFADDRTYPE_REAL	"B'00000010'" ++ XBUFADDRTYPE.REAL KEYWORD
1027	(403)	BITSTRING	1	CKWXLIST_XSHLFLGS2	++ FIELD_LABEL

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKWXLIST_XMODE_SYNCECB	"B'10000000'" ++ XMODE.SYNCECB KEYWORD
		.1..		CKWXLIST_XMODE_SYNCEXIT	"B'01000000'" ++ XMODE.SYNCEXIT KEYWORD
		..1.		CKWXLIST_XMODE_SYNCTOKEN	"B'00100000'" ++ XMODE.SYNCTOKEN KEYWORD
		...1		CKWXLIST_XMODE_ASYNCCECB	"B'00010000'" ++ XMODE.ASYNCECB KEYWORD
		.... 1...		CKWXLIST_XMODE_ASYNCCEXIT	"B'00001000'" ++ XMODE.ASYNCEXIT KEYWORD
		.... .1..		CKWXLIST_XMODE_ASYNCCTOKEN	"B'00000100'" ++ XMODE.ASYNCTOKEN KEYWORD
		.... ..1.		CKWXLIST_XMODE_ASYNCNORESPONSE	"B'00000010'" ++ XMODE.ASYNCTOKEN KEYWORD
1028	(404)	BITSTRING	1	CKWXLIST_XSHFLGS3	++ FIELD_LABEL
		1...		CKWXLIST_XLOCKOPER_SET	"B'10000000'" ++ XLOCKOPER.SET KEYWORD
		.1..		CKWXLIST_XLOCKOPER_RESET	"B'01000000'" ++ XLOCKOPER.RESET KEYWORD
		..1.		CKWXLIST_XLOCKOPER_NOTHELD	"B'00100000'" ++ XLOCKOPER.NOTHELD KEYWORD
		...1		CKWXLIST_XLOCKOPER_HELD	"B'00010000'" ++ XLOCKOPER.HELD KEYWORD
		.... 1...		CKWXLIST_XLOCKOPER_TEST	"B'00001000'" ++ XLOCKOPER.TEST KEYWORD
		.... .1..		CKWXLIST_XLOCKOPER_READNEXT	"B'00000100'" ++ XLOCKOPER.READNEXT KEYWORD
		.... ..1.		CKWXLIST_XLOCKMODE_COND	"B'00000010'" ++ XLOCKMODE.COND KEYWORD
		.... ...1		CKWXLIST_KEYUSED_LOCKCOMP	"B'00000001'" ++ KEYUSED.LOCKCOMP KEYWORD
1029	(405)	BITSTRING	1	CKWXLIST_XSHFLGS4	++ FIELD_LABEL
		1...		CKWXLIST_XTYPE_ADJDATA	"B'10000000'" ++ XTYPE.ADJDATA KEYWORD
		.1..		CKWXLIST_XTYPE_ECONTROLS	"B'01000000'" ++ XTYPE.ECONTROLS KEYWORD
		..1.		CKWXLIST_KEYUSED_EXTRESTOKEN	"B'00100000'" ++ KEYUSED.EXTRESTOKEN KEYWORD
		.... ...1		CKWXLIST_RCVRYREQASYNC	"B'00000001'" ++ MACUSED.LIST KEYWORD
1036	(40C)	CHARACTER	13	CKWXLIST_XRSV0201	++ RESERVED
1049	(419)	BITSTRING	1	CKWXLIST_XCONID	++ FIELD_LABEL
1050	(41A)	CHARACTER	2	CKWXLIST_XRSV0202	++ RESERVED
1052	(41C)	SIGNED	4	CKWXLIST_XBUFFER_ALET	++ ALET
1056	(420)	SIGNED	4	CKWXLIST_XBUFSIZE	++
1060	(424)	ADDRESS	4	CKWXLIST_XBUFFER	++
1052	(41C)	SIGNED	4	CKWXLIST_XBUFALET	++
1056	(420)	SIGNED	4	CKWXLIST_XBUFLIST_ALET	++ ALET
1060	(424)	ADDRESS	4	CKWXLIST_XBUFLIST	++
1064	(428)	SIGNED	4	CKWXLIST_XADJAREA_ALET	++ ALET
1068	(42C)	ADDRESS	4	CKWXLIST_XADJAREA	++

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1064	(428)	SIGNED	4	CKWXLIST_XMOSVECTOR_ALET	++ ALET
1068	(42C)	ADDRESS	4	CKWXLIST_XMOSVECTOR	++
1072	(430)	SIGNED	4	CKWXLIST_XANSAREA_ALET	++ ALET
1076	(434)	ADDRESS	4	CKWXLIST_XANSAREA	++
1080	(438)	ADDRESS	4	CKWXLIST_XREQECB	++
1084	(43C)	CHARACTER	4	CKWXLIST_XRSV0203	++ RESERVED
1080	(438)	SIGNED	4	CKWXLIST_XREQTOKEN_ALET	++ ALET
1084	(43C)	ADDRESS	4	CKWXLIST_XREQTOKEN	++
1112	(458)	BITSTRING	1	CKWXLIST_XSHLFLGSA1	++ FIELD_LABEL
	1...			CKWXLIST_MACUSED_IxLLSTC	"B'10000000'" ++ MACUSED.IxLLSTC KEYWORD
	.1..			CKWXLIST_MACUSED_IxLLSTE	"B'01000000'" ++ MACUSED.IxLLSTE KEYWORD
	..1.			CKWXLIST_MACUSED_IxLLSTM	"B'00100000'" ++ MACUSED.IxLLSTM KEYWORD
1113	(459)	BITSTRING	1	CKWXLIST_XSHLFLGSA2	++ FIELD_LABEL
1096	(448)	CHARACTER	8	CKWXLIST_XLOCKDATA	++
1104	(450)	CHARACTER	8	CKWXLIST_XRSV0204	++ RESERVED
1096	(448)	CHARACTER	16	CKWXLIST_XEXTRESTOKEN	++
1096	(448)	CHARACTER	8	CKWXLIST_XEXTRESTOKENTKN	++ FIELD_LABEL
1104	(450)	CHARACTER	8	CKWXLIST_XEXTRESTOKENPSVN	++ FIELD_LABEL
1120	(460)	BITSTRING	2	CKWXLIST_XCMDLEN	++ FIELD_LABEL
1122	(462)	BITSTRING	1	CKWXLIST_XBUFNUM	++
1123	(463)	BITSTRING	1	CKWXLIST_XBUFINCRNUM	++
1124	(464)	CHARACTER	1	CKWXLIST_XCCA	++ FIELD_LABEL
1125	(465)	CHARACTER	1	CKWXLIST_XCCB	++ FIELD_LABEL
1126	(466)	CHARACTER	2	CKWXLIST_XRSV0501	++ RESERVED
1128	(468)	BITSTRING	4	CKWXLIST_XCMDFLGS1	++ FIELD_LABEL
1132	(46C)	CHARACTER	4	CKWXLIST_XB8T011	++ FIELD_LABEL
1136	(470)	SIGNED	4	CKWXLIST_XLOCKINDEX	++
1140	(474)	SIGNED	4	CKWXLIST_XLISTNUM	++
1144	(478)	CHARACTER	12	CKWXLIST_XENTRYID	++
1156	(484)	CHARACTER	8	CKWXLIST_XNEWVERS	++
1164	(48C)	CHARACTER	8	CKWXLIST_XVERSCOMP	++
1172	(494)	CHARACTER	16	CKWXLIST_XAUTHCOMP1	++ FIELD_LABEL
1188	(4A4)	CHARACTER	16	CKWXLIST_XNEWAUTH1	++ FIELD_LABEL
1204	(4B4)	CHARACTER	32	CKWXLIST_XLISTDESC	++
1128	(468)	CHARACTER	1	CKWXLIST_XCMDFLGS1A	++ FIELD_LABEL
1129	(469)	CHARACTER	1	CKWXLIST_XCMDFLGS1B	++ FIELD_LABEL
1130	(46A)	CHARACTER	1	CKWXLIST_XCMDFLGS1C	++ FIELD_LABEL
1131	(46B)	CHARACTER	1	CKWXLIST_XCMDFLGS1D	++ FIELD_LABEL
1128	(468)	BITSTRING	1	CKWXLIST_XELEMNUM	++
1128	(468)	BITSTRING	1	CKWXLIST_XDBS	++ FIELD_LABEL
1131	(46B)	CHARACTER	1	CKWXLIST_XUID3	++ FIELD_LABEL
1132	(46C)	CHARACTER	3	CKWXLIST_XRSV0502	++ RESERVED
1135	(46F)	CHARACTER	1	CKWXLIST_XCGLM	++ FIELD_LABEL

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1132	(46C)	BITSTRING	2	CKWXLIST_XSTARTINDEX	++
1134	(46E)	BITSTRING	2	CKWXLIST_XENDINDEX	++
1136	(470)	SIGNED	4	CKWXLIST_XVECTORINDEX	++
1144	(478)	SIGNED	4	CKWXLIST_XLISTLIMIT	++
1148	(47C)	CHARACTER	8	CKWXLIST_XRSV0601	++ RESERVED
1172	(494)	CHARACTER	16	CKWXLIST_XENTRYNAME	++
1172	(494)	CHARACTER	16	CKWXLIST_XENTRYKEY	++
1172	(494)	CHARACTER	16	CKWXLIST_XKEYCOMP	++
1172	(494)	CHARACTER	1	CKWXLIST_XUID2	++ FIELD_LABEL
1173	(495)	CHARACTER	15	CKWXLIST_XRSV0602	++ RESERVED
1188	(4A4)	CHARACTER	8	CKWXLIST_XRESTOKEN	++
1196	(4AC)	CHARACTER	8	CKWXLIST_XRSV0603	++ RESERVED
1188	(4A4)	BITSTRING	2	CKWXLIST_XFIRSTELEM	++
1190	(4A6)	BITSTRING	2	CKWXLIST_XLASTELEM	++
1192	(4A8)	CHARACTER	8	CKWXLIST_XRSV0604	++ RESERVED
1200	(4B0)	CHARACTER	1	CKWXLIST_XCMDFLGS2A	++ FIELD_LABEL
1201	(4B1)	CHARACTER	3	CKWXLIST_XRSV0605	++ RESERVED
1204	(4B4)	CHARACTER	1	CKWXLIST_XUID1	++ FIELD_LABEL
1205	(4B5)	CHARACTER	31	CKWXLIST_XRSV0606	++ RESERVED
1236	(4D4)	CHARACTER	16	CKWXLIST_XMOVETOKEY0	++ FIELD_LABEL
1252	(4E4)	SIGNED	4	CKWXLIST_XMOVETOLIST0	++ FIELD_LABEL
1256	(4E8)	X'E8'	0	CKWXLISTL	"*-CKWXLIST" ++ LENGTH OF PLIST
IXLLIST-3					
0	(0)	X'400'	0	CKWCFLSL	"CKWXLIST,*-CKWXLIST" Length of IXLLIST
0	(0)	X'400'	0	M00M1242	"CKWIARV" ++ IARV64 NAME
1024	(400)	DBL WORD	8	CKWIARV(0)	++ IARV64 PARM LIST
1024	(400)	BITSTRING	1	CKWIARV_XVERSION	++ INPUT XVERSION
1025	(401)	BITSTRING	1	CKWIARV_XREQUEST	++ XREQUEST
1025	(401)	X'1'	0	CKWIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
1025	(401)	X'2'	0	CKWIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
1025	(401)	X'3'	0	CKWIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
1025	(401)	X'4'	0	CKWIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
1025	(401)	X'5'	0	CKWIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
1025	(401)	X'6'	0	CKWIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
1025	(401)	X'7'	0	CKWIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
1025	(401)	X'8'	0	CKWIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
1025	(401)	X'9'	0	CKWIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
1025	(401)	X'A'	0	CKWIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
1025	(401)	X'B'	0	CKWIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
1025	(401)	X'C'	0	CKWIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
1025	(401)	X'D'	0	CKWIARV_XREQUEST_CHANGEGUARD	

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"13" ++ XREQUEST.CHANGEGUARD KEYWORD
1025	(401)	X'E'	0	CKWIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
1025	(401)	X'F'	0	CKWIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
1025	(401)	X'10'	0	CKWIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
					"17" ++ XREQUEST.PCIEFIX KEYWORD
1025	(401)	X'11'	0	CKWIARV_XREQUEST_PCIEFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
1025	(401)	X'12'	0	CKWIARV_XREQUEST_PCIEUNFIX	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
1025	(401)	X'13'	0	CKWIARV_XREQUEST_CHANGEATTRIBUTE	++ FIELD_LABEL
1026	(402)	BITSTRING	1	CKWIARV_XFLAGS0	
		1...		CKWIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CKWIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CKWIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
1027	(403)	BITSTRING	1	CKWIARV_XKEY	++
1028	(404)	BITSTRING	1	CKWIARV_XFLAGS1	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CKWIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CKWIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CKWIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CKWIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CKWIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CKWIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		CKWIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
1029	(405)	BITSTRING	1	CKWIARV_XFLAGS2	++ FIELD_LABEL
		1...		CKWIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CKWIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CKWIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CKWIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CKWIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CKWIARV_XPAGEFRAMESIZE_1MEG	

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CKWIARV_XPAGEFRAMESIZE_MAX	"B'0000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		.... ...1		CKWIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
1030	(406)	BITSTRING	1	CKWIARV_XFLAGS3	++ FIELD_LABEL
		1...		CKWIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CKWIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CKWIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		CKWIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CKWIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CKWIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CKWIARV_XV64SHARED_NO	"B'0000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		CKWIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
1031	(407)	BITSTRING	1	CKWIARV_XFLAGS4	++ FIELD_LABEL
		1...		CKWIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CKWIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CKWIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CKWIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CKWIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CKWIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CKWIARV_XCONVERT_FROMGUARD	"B'0000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		CKWIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
1032	(408)	DBL WORD	8	CKWIARV_XSEGMENTS	++
1040	(410)	CHARACTER	16	CKWIARV_XTTOKEN	++
1056	(420)	DBL WORD	8	CKWIARV_XUSERTKN	++
1064	(428)	ADDRESS	8	CKWIARV_XORIGIN	++
1072	(430)	ADDRESS	8	CKWIARV_XRANGLIST	++
1080	(438)	ADDRESS	8	CKWIARV_XMEMOBJSTART	++
1088	(440)	SIGNED	4	CKWIARV_XGUARDSIZE	++
1092	(444)	SIGNED	4	CKWIARV_XCONVERTSIZE	++
1096	(448)	SIGNED	4	CKWIARV_XALETVALUE	++
1100	(44C)	SIGNED	4	CKWIARV_XNUMRANGE	++
1104	(450)	ADDRESS	4	CKWIARV_XV64LISTPTR	++
1108	(454)	SIGNED	4	CKWIARV_XV64LISTLENGTH	++
1112	(458)	DBL WORD	8	CKWIARV_XCONVERTSTART	++
1120	(460)	DBL WORD	8	CKWIARV_XCONVERTSIZE64	++
1128	(468)	DBL WORD	8	CKWIARV_XGUARDSIZE64	++
1136	(470)	CHARACTER	8	CKWIARV_XUSERTOKEN	++

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1144	(478)	BITSTRING	1	CKWIARV_XDUMPPRIORITY	++
1145	(479)	BITSTRING	1	CKWIARV_XFLAGS5	++ FIELD_LABEL
		1... ..		CKWIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1... ..		CKWIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CKWIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CKWIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CKWIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CKWIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CKWIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		CKWIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1146	(47A)	BITSTRING	1	CKWIARV_XFLAGS6	++ FIELD_LABEL
		1... ..		CKWIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1... ..		CKWIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CKWIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CKWIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CKWIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CKWIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CKWIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		CKWIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1147	(47B)	BITSTRING	1	CKWIARV_XFLAGS7	++ FIELD_LABEL
		1... ..		CKWIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1... ..		CKWIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CKWIARV_KEYUSED_SVCUMPRGN	"B'00100000'" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		CKWIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CKWIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CKWIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CKWIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		CKWIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1148	(47C)	BITSTRING	1	CKWIARV_XDUMP	++ XDUMP

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1148	(47C)	X'0'	0	CKWIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1148	(47C)	X'1'	0	CKWIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1148	(47C)	X'2'	0	CKWIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1148	(47C)	X'3'	0	CKWIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1148	(47C)	X'20'	0	CKWIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1148	(47C)	X'21'	0	CKWIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1148	(47C)	X'FF'	0	CKWIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1149	(47D)	BITSTRING	1	CKWIARV_XFLAGS8	++ FIELD_LABEL
		1...		CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CKWIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		CKWIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		CKWIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		CKWIARV_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		CKWIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		CKWIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		CKWIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
1150	(47E)	BITSTRING	2	CKWIARV_XOWNERASID	++
1152	(480)	BITSTRING	1	CKWIARV_XOPTIONVALUE	++
1153	(481)	CHARACTER	8	CKWIARV_XRSV0001	++ RESERVED
1161	(489)	CHARACTER	8	CKWIARV_XOWNERJOBNAME	++
1169	(491)	CHARACTER	7	CKWIARV_XRSV0004	++ RESERVED
1176	(498)	ADDRESS	8	CKWIARV_XDMPAGETABLE	++
1184	(4A0)	DBL WORD	8	CKWIARV_XUNITS	++
1192	(4A8)	BITSTRING	1	CKWIARV_XFLAGS9	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CKWIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CKWIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CKWIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		CKWIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CKWIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1193	(4A9)	BITSTRING	1	CKWIARV_XFLAGS10	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		CKWIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		CKWIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		CKWIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
1194	(4AA)	BITSTRING	1	CKWIARV_XFLAGS11	++ FIELD_LABEL

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		CKWIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1..		CKWIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		CKWIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
1195	(4AB)	CHARACTER	5	CKWIARV_XRSV0005	++ RESERVED
1195	(4AB)	X'4B0'	0	CKWIARV_PL_END	"*" ++ END OF BASE PLIST
1056	(420)	DBL WORD	8	CKWIARV_XOUTMOTKN	++
1056	(420)	DBL WORD	8	CKWIARV_XMOTKN	++
1080	(438)	ADDRESS	8	CKWIARV_XINORIGIN	++
1080	(438)	ADDRESS	8	CKWIARV_XINADDR	++
1200	(4B0)	X'B0'	0	CKWIARVL	"*-CKWIARV" ++ LENGTH OF PLIST
IARV64-6					
1200	(4B0)	ADDRESS	8	CKWI64PT	Rangelist pointer
1208	(4B8)	BITSTRING	16	CKWI64RG(0)	Rangelist
1208	(4B8)	ADDRESS	8	CKWI64RA	Address of area
1216	(4C0)	DBL WORD	8	CKWI64RC	Count of areas
1256	(4E8)	SIGNED	4	(0)	Align next
1256	(4E8)	BITSTRING	36	CKWVRLA	VRL entry work area
The following pointers are used by both CKPT in the main task and CKDA/CFLE in the subtasks.					
1292	(50C)	ADDRESS	4	CKWVRL64	Pointer to VRL64 area
1296	(510)	SIGNED	4	CKWVRLN	Total number of VRL entries
1300	(514)	ADDRESS	4	CKWVRLP	Pointer to free VRL
1304	(518)	SIGNED	4	CKWVRLC	Count of entries in use
1308	(51C)	SIGNED	4		Reserved
IARVserv MF=(L,CKWVserv) List form of IARVserv macro MACDATE -10/21/22-<0>					
0	(0)	X'520'	0	M00M1243	"CKWVserv" ++ IARVserv NAME
1312	(520)	DBL WORD	8	CKWVserv(0)	++ IARVserv PARM LIST
1312	(520)	BITSTRING	1	CKWVserv_XVERSION	++ INPUT XVERSION
1313	(521)	BITSTRING	1	CKWVserv_XSERVICE	++ XSERVICE
1313	(521)	X'1'	0	CKWVserv_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1313	(521)	X'2'	0	CKWVserv_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1313	(521)	X'3'	0	CKWVserv_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1313	(521)	X'4'	0	CKWVserv_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1313	(521)	X'5'	0	CKWVserv_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
1313	(521)	X'6'	0	CKWVserv_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
1313	(521)	X'7'	0	CKWVserv_CHANGEACCESS64	"7" ++ XSERVICE.CHANGEACCESS64 KEYWORD
1314	(522)	BITSTRING	1	CKWVserv_XFLAGS1	++ FIELD_LABEL
		1...		CKWVserv_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		CKWVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CKWVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CKWVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CKWVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CKWVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CKWVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		.... ...1		CKWVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1315	(523)	BITSTRING	1	CKWVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CKWVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		CKWVSERV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		CKWVSERV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		CKWVSERV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		CKWVSERV_XSINGLESPEACE_YES	"B'00001000'" ++ XSINGLESPEACE.YES KEYWORD
		.... .1..		CKWVSERV_XUNAUTHVIEW_YES	"B'00000100'" ++ XUNAUTHVIEW.YES KEYWORD
1316	(524)	SIGNED	4	CKWVSERV_XNUMRANGE	++
1320	(528)	ADDRESS	4	CKWVSERV_XRANGLIST	++
1320	(528)	X'52C'	0	CKWVSERV_PL_END	"*" ++ END OF BASE PLIST
1320	(528)	ADDRESS	4	CKWVSERV_XRANGLIST64	++
1324	(52C)	X'C'	0	CKWVSERVL	"*-CKWVSERV" ++ LENGTH OF PLIST
IARV SERV-0					
1324	(52C)	SIGNED	4		Reserved
1328	(530)	DBL WORD	8	CKWRESTM	Time CKPT got the reserve
Data used for CKPT tuning purposes					
1336	(538)	DBL WORD	8	CKWTSECT(0)	CKPT tuning section
1336	(538)	DBL WORD	8	CKWAUTOT	Time of last start/stop
1344	(540)	SIGNED	4	CKWHOLDM	Manual HOLD
1348	(544)	SIGNED	4	CKWLDRM	Manual MINDORM
1352	(548)	SIGNED	4	CKWHDRM	Manual MAXDORM
1356	(54C)	SIGNED	4	CKWNHOLD	Nominal HOLD
1360	(550)	BITSTRING	1	CKWTFLG1	Processing flags
		1...		CKWT10N	"B'10000000'" CKPT tuning is on
		.1..		CKWT1SM	"B'01000000'" Single member mode
		..1.		CKWT1TCM	"B'00100000'" Ckpt tuning changes made

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1		CKWT1RSN	"B'00010000'" Ckpt tuning reset needed
1361	(551)	BITSTRING	1		Reserved
1362	(552)	BITSTRING	2	CKWTSEQN	Ckpt tuning cycle number
1364	(554)	BITSTRING	2	CKWTRCT	Report counter
1366	(556)	BITSTRING	2	CKWTRCTR	Nr of cycles remaining before report
1368	(558)	SIGNED	4	CKWBCL	Length of basic cycle
1372	(55C)	SIGNED	4	CKWFHOLD	"fair-share" HOLD value
1376	(560)	DBL WORD	8	CKWTOTPN	Total pain
1384	(568)	SIGNED	4	CKWALCH	Allocated CKPT time
1388	(56C)	SIGNED	4	CKWAVLH	Available CKPT time
1392	(570)	SIGNED	4	CKWMAXPN	Maximum pain
1396	(574)	ADDRESS	4	CKWMAXM	Ptr to member entry with maximum pain
1400	(578)	SIGNED	4	CKWCKRIT	Ckpt request interval total (in 1/100s of second)
1404	(57C)	SIGNED	4	CKWCKRIC	Nr of contributors
1408	(580)	SIGNED	4	CKWCKRMC	This member's contribution
1412	(584)	SIGNED	4	CKWADJMN	Number of adjustable mbrs
1416	(588)	BITSTRING	1	CKWADJMA	Arrays of pointers to entries in CKWMBRDT
Tuning data for all members. Entries in this array are mapped by CKWMBRDE.					
1544	(608)	BITSTRING	1536	CKWMBRDT	Member data
3080	(C08)	BITSTRING	4	CKWRMASK	Reported members mask
3084	(C0C)	BITSTRING	4	CKWWMASK	Work mask for messages
3088	(C10)	BITSTRING	4	CKWZMASK	Reset value for CKWRMASK
3092	(C14)	BITSTRING	4	CKWLmask	Last action mask
3096	(C18)	ADDRESS	4	CKWCTMSG	Ptr to tuning XREQ buffer
3100	(C1C)	BITSTRING	4		Reserved
3100	(C1C)	X'6E8'	0	CKWTSIZE	"*-CKWTSECT" Length of tuning section
DOMs used for Privilege Support 1405 message - Resource shortage encountered for					
3104	(C20)	SIGNED	4	CKWBEDON	DOM ID for 1405 - BERTs
3108	(C24)	SIGNED	4	CKWJODON	DOM ID for 1405 - JOEs
3112	(C28)	SIGNED	4	CKWTRDON	DOM ID for 1405 - TRACKs
3116	(C2C)	SIGNED	4	CKWJQDON	DOM ID for 1405 - JQEs
JES2 Function Registry Instance ID Used in various JES2 Main task functions.					
3120	(C30)	CHARACTER	16	CKWINSID	FEXECNTRL Instance ID
Parameter list for FEXECNTRL FEXECNTRL MF=(L,CKWFXEP) MACDATE -01/11/18-<0>					
0	(0)	X'C40'	0	M00M1244	"CKWFXEP" ++ FEXECNTRL NAME
3136	(C40)	DBL WORD	8	CKWFXEP(0)	++ FEXECNTRL PARM LIST
3136	(C40)	BITSTRING	1	CKWFXEP_XVERSION	++ INPUT XVERSION

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3137	(C41)	BITSTRING	1	CKWFXEP_XREQUEST	++ XREQUEST
3137	(C41)	X'1'	0	CKWFXEP_XREQUEST_SETFUNCENBL	"1" ++ XREQUEST.SETFUNCENBL KEYWORD
3137	(C41)	X'2'	0	CKWFXEP_XREQUEST_UPDFUNCUSE	"2" ++ XREQUEST.UPDFUNCUSE KEYWORD
3137	(C41)	X'3'	0	CKWFXEP_XREQUEST_APPLYIPLPARM	"3" ++ XREQUEST.APPLYIPLPARM KEYWORD
3138	(C42)	CHARACTER	2	CKWFXEP_XRSV0002	++ RESERVED
3140	(C44)	BITSTRING	2	CKWFXEP_XVENDORSLOT	++
3142	(C46)	BITSTRING	2	CKWFXEP_XPRODUCTSLOT	++
3144	(C48)	BITSTRING	2	CKWFXEP_XFUNCTIONSLOT	++
3146	(C4A)	BITSTRING	1	CKWFXEP_XFUNCTIONUPDTYPE	++ XFUNCTIONUPDTYPE
3146	(C4A)	X'0'	0	CKWFXEP_XFUNCTIONUPDTYPE_ANYAUTH	"0" ++ XFUNCTIONUPDTYPE.ANYAUTH KEYWORD
3146	(C4A)	X'1'	0	CKWFXEP_XFUNCTIONUPDTYPE_AUTHONLY	"1" ++ XFUNCTIONUPDTYPE.AUTHONLY KEYWORD
3146	(C4A)	X'2'	0	CKWFXEP_XFUNCTIONUPDTYPE_VALUE	"2" ++ XFUNCTIONUPDTYPE.VALUE KEYWORD
3147	(C4B)	BITSTRING	1	CKWFXEP_XENABLED	++ XENABLED
3147	(C4B)	X'0'	0	CKWFXEP_XENABLED_NO	"0" ++ XENABLED.NO KEYWORD
3147	(C4B)	X'1'	0	CKWFXEP_XENABLED_YES	"1" ++ XENABLED.YES KEYWORD
3147	(C4B)	X'2'	0	CKWFXEP_XENABLED_VALUE	"2" ++ XENABLED.VALUE KEYWORD
3148	(C4C)	BITSTRING	1	CKWFXEP_XKEYUSED	++ FIELD_LABEL
		1...		CKWFXEP_KEYUSED_VENDORNAME	"B'10000000'" ++ KEYUSED.VENDORNAME KEYWORD
		.1..		CKWFXEP_KEYUSED_PRODUCTNAME	"B'01000000'" ++ KEYUSED.PRODUCTNAME KEYWORD
		..1.		CKWFXEP_KEYUSED_FUNCTIONNAME	"B'00100000'" ++ KEYUSED.FUNCTIONNAME KEYWORD
		...1		CKWFXEP_KEYUSED_PRODUCTID	"B'00010000'" ++ KEYUSED.PRODUCTID KEYWORD
		.... 1...		CKWFXEP_KEYUSED_INSTANCEID	"B'00001000'" ++ KEYUSED.INSTANCEID KEYWORD
		.... .1..		CKWFXEP_KEYUSED_APPLYCOUNT	"B'00000100'" ++ KEYUSED.APPLYCOUNT KEYWORD
3149	(C4D)	CHARACTER	1	CKWFXEP_XRSV0013	++ RESERVED
3150	(C4E)	BITSTRING	1	CKWFXEP_XFUNCUPDTYPEVALUE	++ FIELD_LABEL
3151	(C4F)	BITSTRING	1	CKWFXEP_XENABLEDVALUE	++
3152	(C50)	SIGNED	4	CKWFXEP_XPRODUCTID_ALET	++ ALET
3156	(C54)	SIGNED	4	CKWFXEP_XINSTANCEID_ALET	++ ALET
3160	(C58)	ADDRESS	8	CKWFXEP_XPRODUCTID_ADDR3164	++ ADDR3164
3168	(C60)	ADDRESS	8	CKWFXEP_XINSTANCEID_ADDR3164	
3176	(C68)	SIGNED	4	CKWFXEP_XVENDORNAME_ALET	++ ALET

Table 90. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3180	(C6C)	SIGNED	4	CKWFXEP_XPRODUCTNAME_ALET	++ ALET
3184	(C70)	ADDRESS	8	CKWFXEP_XVENDORNAME_ADDR3164	
3192	(C78)	ADDRESS	8	CKWFXEP_XPRODAREAADDR	++
3200	(C80)	SIGNED	4	CKWFXEP_XFUNCTIONNAME_ALET	++ ALET
3204	(C84)	CHARACTER	4	CKWFXEP_XRSV0068	++ RESERVED
3208	(C88)	ADDRESS	8	CKWFXEP_XFUNCTIONNAME_ADDR3164	
3216	(C90)	DBL WORD	8	CKWFXEP_XAPPLYCOUNT	++
3224	(C98)	CHARACTER	40	CKWFXEP_XRSV0088	++ RESERVED
3224	(C98)	X'CC0'	0	CKWFXEP_PL_END	"*" ++ END OF BASE PLIST
3192	(C78)	ADDRESS	8	CKWFXEP_XPRODUCTNAME_ADDR3164	
3192	(C78)	ADDRESS	8	CKWFXEP_XPRODUCTAREA_ADDR3164	
3264	(CC0)	X'80'	0	CKWFXEPL	"*-CKWFXEP" ++ LENGTH OF PLIST
FXECNTRL-0					
0	(0)	X'CC0'	0	CKWLNTH	"*-CKW" LENGTH OF CKW

Table 91. Structure CKWMBRDE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKWMBRDE	, Member tuning data
0	(0)	BITSTRING	1	CKWMID	Member id
1	(1)	BITSTRING	3		Reserved
4	(4)	SIGNED	4	CKWMRHLD	Reported HOLD
8	(8)	SIGNED	4	CKWMCHLD	Calculated HOLD
12	(C)	SIGNED	4	CKWMRLDR	Reported min DORMANCY
16	(10)	SIGNED	4	CKWMCLDR	Calculated min DORMANCY
20	(14)	SIGNED	4	CKWMRHDR	Reported max DORMANCY
24	(18)	SIGNED	4	CKWMCHDR	Calculated max DORMANCY
28	(1C)	SIGNED	4	CKWMQSMX	Longest QSUSE (microsecs)
32	(20)	SIGNED	4	CKWMOHV	CKPT overhead (microsecs)
36	(24)	SIGNED	4	CKWMPNR	Pain rate
40	(28)	SIGNED	4	CKWMPNV	Pain value
44	(2C)	SIGNED	4	CKWMCKRI	Avg ckpt request interval (in 1/100s of second)
44	(2C)	X'30'	0	CKWMSIZE	"*-CKWMBRDE" Size of member entry

Table 92. Cross Reference for \$CKW

Name	Offset	Hex Tag
CKW	0	
CKWADJMA	588	
CKWADJMN	584	
CKWALCH	568	
CKWAUTOT	538	
CKWAVLH	56C	
CKWBCL	558	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWBEDON	C20	
CKWBLMSG	380	C2D3C440
CKWCALC	C0	
CKWCALCE	C8	
CKWCAL1	B8	
CKWBCNT	1B8	
CKWCFAIL	208	
CKWCFER	30	2
CKWCFLSL	0	400
CKWCFLVL	240	
CKWCFLVN	240	244
CKWCFPRL	0	400
CKWCFPUR	400	
CKWCFPUR_XCONTOKEN	41C	
CKWCFPUR_XREQID	42C	
CKWCFPUR_XRSV0001	402	
CKWCFPUR_XSCOPE_CONTOKEN	401	20
CKWCFPUR_XSCOPE_STOKEN	401	80
CKWCFPUR_XSCOPE_TTOKEN	401	40
CKWCFPUR_XSCOPEFLAGS	401	
CKWCFPUR_XSTOKEN	404	
CKWCFPUR_XTTOKEN	40C	
CKWCFPUR_XVERSION	400	
CKWCFPURL	42C	34
CKWCFTD	210	
CKWCKMA	84	
CKWCKPSZ	1BC	
CKWCKPTN	168	
CKWCKRIC	57C	
CKWCKRIT	578	
CKWCKRMC	580	
CKWCKWRE	230	
CKWCKWTM	228	
CKWCONID	324	
CKWCTLB	D0	
CKWCTLBE	E0	
CKWCTLBI	D8	
CKWCTMSG	C18	
CKWCTWA	8C	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWCT1RC	204	
CKWDDCK1	290	3
CKWDDCK2	290	4
CKWDFAIL	20C	
CKWDHFE	294	
CKWDIAGR	330	
CKWDRCK1	290	5
CKWDRCK2	290	6
CKWDRNC1	328	
CKWDRNC2	32C	
CKWDSCK1	290	1
CKWDSCK2	290	2
CKWDSETR	290	
CKWDSVHF	2DC	
CKWDSWRK	291	
CKWERREG	E8	
CKWFHOLD	55C	
CKWFLAG1	5	
CKWFLAG2	6	
CKWFLAG3	7	
CKWFLAG4	8	
CKWFLAG5	9	
CKWFLAG6	A	
CKWFLAG7	B	
CKWFMCKG	234	
CKWFXEP	C40	
CKWFXEP_KEYUSED_APPLYCOUNT	C4C	4
CKWFXEP_KEYUSED_FUNCTIONNAME	C4C	20
CKWFXEP_KEYUSED_INSTANCEID	C4C	8
CKWFXEP_KEYUSED_PRODUCTID	C4C	10
CKWFXEP_KEYUSED_PRODUCTNAME	C4C	40
CKWFXEP_KEYUSED_VENDORNAME	C4C	80
CKWFXEP_PL_END	C98	CC0
CKWFXEP_XAPPLYCOUNT	C90	
CKWFXEP_XENABLED	C4B	
CKWFXEP_XENABLED_NO	C4B	0
CKWFXEP_XENABLED_VALUE	C4B	2
CKWFXEP_XENABLED_YES	C4B	1
CKWFXEP_XENABLEDVALUE	C4F	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWFXEP_XFUNCTIONNAME_ADDR3164	C88	
CKWFXEP_XFUNCTIONNAME_ALET	C80	
CKWFXEP_XFUNCTIONSLOT	C48	
CKWFXEP_XFUNCTIONUPDTYPE	C4A	
CKWFXEP_XFUNCTIONUPDTYPE_ANYAUTH	C4A	0
CKWFXEP_XFUNCTIONUPDTYPE_AUTHONLY	C4A	1
CKWFXEP_XFUNCTIONUPDTYPE_VALUE	C4A	2
CKWFXEP_XFUNCUPDTYPEVALUE	C4E	
CKWFXEP_XINSTANCEID_ADDR3164	C60	
CKWFXEP_XINSTANCEID_ALET	C54	
CKWFXEP_XKEYUSED	C4C	
CKWFXEP_XPRODAREAADDR	C78	
CKWFXEP_XPRODUCTAREA_ADDR3164	C78	
CKWFXEP_XPRODUCTID_ADDR3164	C58	
CKWFXEP_XPRODUCTID_ALET	C50	
CKWFXEP_XPRODUCTNAME_ADDR3164	C78	
CKWFXEP_XPRODUCTNAME_ALET	C6C	
CKWFXEP_XPRODUCTSLOT	C46	
CKWFXEP_XREQUEST	C41	
CKWFXEP_XREQUEST_APPLYIPLPARM	C41	3
CKWFXEP_XREQUEST_SETFUNCENBL	C41	1
CKWFXEP_XREQUEST_UPDFUNCUSE	C41	2
CKWFXEP_XRSV0002	C42	
CKWFXEP_XRSV0013	C4D	
CKWFXEP_XRSV0068	C84	
CKWFXEP_XRSV0088	C98	
CKWFXEP_XVENDORNAME_ADDR3164	C70	
CKWFXEP_XVENDORNAME_ALET	C68	
CKWFXEP_XVENDORSLOT	C44	
CKWFXEP_XVERSION	C40	
CKWFXEPL	CC0	80
CKWGTLKT	10	
CKWHDRM	548	
CKWHOLDM	540	
CKWIARV	400	
CKWIARV_KEYUSED_CONVERTSIZE64	404	4
CKWIARV_KEYUSED_CONVERTSTART	404	10
CKWIARV_KEYUSED_DUMP	47B	80
CKWIARV_KEYUSED_GUARDSIZE64	404	8

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWIARV_KEYUSED_INORIGIN	4A9	80
CKWIARV_KEYUSED_KEY	404	80
CKWIARV_KEYUSED_MOTKN	404	2
CKWIARV_KEYUSED_OBJECTTYPE	4AA	80
CKWIARV_KEYUSED_OPTIONVALUE	47B	40
CKWIARV_KEYUSED_OWNERJOBNAME	404	1
CKWIARV_KEYUSED_SENSITIVE	4A9	10
CKWIARV_KEYUSED_SVCDUMPRGN	47B	20
CKWIARV_KEYUSED_TTOKEN	404	20
CKWIARV_KEYUSED_UNITS	4A8	80
CKWIARV_KEYUSED_USERTKN	404	40
CKWIARV_PL_END	4AB	4B0
CKWIARV_XAFFINITY_SYSTEM	406	40
CKWIARV_XALETVALUE	448	
CKWIARV_XAMOUNTSIZE_1MEG	47A	2
CKWIARV_XAMOUNTSIZE_4K	47A	4
CKWIARV_XATTRIBUTE_DEFS	47B	10
CKWIARV_XATTRIBUTE_NOTOWNERGONE	47B	4
CKWIARV_XATTRIBUTE_OWNERGONE	47B	8
CKWIARV_XCHANGEACCESS_GLOBAL	405	8
CKWIARV_XCLEAR_NO	407	40
CKWIARV_XCOND_YES	405	80
CKWIARV_XCONTROL_AUTH	405	20
CKWIARV_XCONVERT_FROMGUARD	407	2
CKWIARV_XCONVERT_TOGUARD	407	4
CKWIARV_XCONVERTSIZE	444	
CKWIARV_XCONVERTSIZE64	460	
CKWIARV_XCONVERTSTART	458	
CKWIARV_XDETACHFIXED_YES	47A	20
CKWIARV_XDISCARDPAGES_YES	0	4
CKWIARV_XDMPAGETABLE	498	
CKWIARV_XDOAUTHCHECKS_YES	47A	10
CKWIARV_XDUMP	47C	
CKWIARV_XDUMP_ALL	47C	FF
CKWIARV_XDUMP_LIKECSA	47C	3
CKWIARV_XDUMP_LIKELSQA	47C	21
CKWIARV_XDUMP_LIKERGN	47C	20
CKWIARV_XDUMP_LIKESQA	47C	2
CKWIARV_XDUMP_NO	47C	1

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XDUMP_NONE	47C	0
CKWIARV_XDUMPPRIORITY	478	
CKWIARV_XDUMPPROTOCOL_YES	479	80
CKWIARV_XEXECUTABLE_NO	0	1
CKWIARV_XEXECUTABLE_YES	0	2
CKWIARV_XFLAGS0	402	
CKWIARV_XFLAGS1	404	
CKWIARV_XFLAGS10	4A9	
CKWIARV_XFLAGS11	4AA	
CKWIARV_XFLAGS2	405	
CKWIARV_XFLAGS3	406	
CKWIARV_XFLAGS4	407	
CKWIARV_XFLAGS5	479	
CKWIARV_XFLAGS6	47A	
CKWIARV_XFLAGS7	47B	
CKWIARV_XFLAGS8	47D	
CKWIARV_XFLAGS9	4A8	
CKWIARV_XFPROT_NO	405	40
CKWIARV_XGUARDLOC_HIGH	405	10
CKWIARV_XGUARDSIZE	440	
CKWIARV_XGUARDSIZE64	468	
CKWIARV_XINADDR	438	
CKWIARV_XINORIGIN	438	
CKWIARV_XKEEPREAL_NO	407	1
CKWIARV_XKEY	403	
CKWIARV_XLOCALSYSAREA_YES	47A	8
CKWIARV_XLONG_NO	407	80
CKWIARV_XMATCH_MOTOKEN	402	20
CKWIARV_XMATCH_USERTOKEN	406	80
CKWIARV_XMEMLIMIT_COND	47A	1
CKWIARV_XMEMLIMIT_NO	47A	40
CKWIARV_XMEMOBJSTART	438	
CKWIARV_XMOTKN	420	
CKWIARV_XMOTKNCREATOR_SYSTEM	402	40
CKWIARV_XMOTKNSOURCE_SYSTEM	402	80
CKWIARV_XNUMRANGE	44C	
CKWIARV_XOBJECTTYPE_POOL	4AA	40
CKWIARV_XOBJECTTYPE_RSMINTERNAL	4AA	20
CKWIARV_XOPTIONVALUE	480	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XORDER_DUMPPRIORITY	479	40
CKWIARV_XORIGIN	428	
CKWIARV_XOUTMOTKN	420	
CKWIARV_XOWNER_NO	406	10
CKWIARV_XOWNERASID	47E	
CKWIARV_XOWNERCOM_BYASID	479	1
CKWIARV_XOWNERCOM_HOME	479	8
CKWIARV_XOWNERCOM_PRIMARY	479	4
CKWIARV_XOWNERCOM_SYSTEM	479	2
CKWIARV_XOWNERJOBNAME	489	
CKWIARV_XPAGEFRAMESIZE_ALL	405	1
CKWIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CKWIARV_XPAGEFRAMESIZE_MAX	405	2
CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	47D	80
CKWIARV_XPAGEFRAMESIZE_1M	4A8	10
CKWIARV_XPAGEFRAMESIZE_1MEG	405	4
CKWIARV_XPAGEFRAMESIZE_2G	4A8	8
CKWIARV_XRANGLIST	430	
CKWIARV_XREQUEST	401	
CKWIARV_XREQUEST_CHANGEACCESS	401	B
CKWIARV_XREQUEST_CHANGEATTRIBUTE	401	13
CKWIARV_XREQUEST_CHANGEGUARD	401	D
CKWIARV_XREQUEST_COUNTPAGES	401	10
CKWIARV_XREQUEST_DETACH	401	3
CKWIARV_XREQUEST_DISCARDATA	401	7
CKWIARV_XREQUEST_GETCOMMON	401	F
CKWIARV_XREQUEST_GETSHARED	401	2
CKWIARV_XREQUEST_GETSTOR	401	1
CKWIARV_XREQUEST_LIST	401	E
CKWIARV_XREQUEST_PAGEFIX	401	4
CKWIARV_XREQUEST_PAGEIN	401	8
CKWIARV_XREQUEST_PAGEOUT	401	6
CKWIARV_XREQUEST_PAGEUNFIX	401	5
CKWIARV_XREQUEST_PCIEFIX	401	11
CKWIARV_XREQUEST_PCIEUNFIX	401	12
CKWIARV_XREQUEST_PROTECT	401	9
CKWIARV_XREQUEST_SHAREMEMOBJ	401	A
CKWIARV_XREQUEST_UNPROTECT	401	C
CKWIARV_XRSV0001	481	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XRSV0004	491	
CKWIARV_XRSV0005	4AB	
CKWIARV_XSADMP_NO	0	10
CKWIARV_XSADMP_YES	0	20
CKWIARV_XSEGMENTS	408	
CKWIARV_XSENSITIVE_NO	4A9	20
CKWIARV_XSENSITIVE_YES	4A9	40
CKWIARV_XSVCDUMPRGN_ALL	406	1
CKWIARV_XSVCDUMPRGN_NO	406	4
CKWIARV_XTRACKINFO_YES	47B	2
CKWIARV_XTTOKEN	410	
CKWIARV_XTYPE_DREF	479	10
CKWIARV_XTYPE_FIXED	4A8	4
CKWIARV_XTYPE_PAGEABLE	479	20
CKWIARV_XUNITS	4A0	
CKWIARV_XUNITSIZE_1M	4A8	40
CKWIARV_XUNITSIZE_2G	4A8	20
CKWIARV_XUNLOCKED_YES	47B	1
CKWIARV_XUSERTKN	420	
CKWIARV_XUSERTOKEN	470	
CKWIARV_XUSE2GT032G_YES	406	20
CKWIARV_XUSE2GT064G_YES	0	8
CKWIARV_XVERSION	400	
CKWIARV_XVIEW_HIDDEN	407	8
CKWIARV_XVIEW_READONLY	407	20
CKWIARV_XVIEW_SHAREDWRITE	407	10
CKWIARV_XV64COMMON_NO	47A	80
CKWIARV_XV64LISTLENGTH	454	
CKWIARV_XV64LISTPTR	450	
CKWIARV_XV64SELECT_NO	406	8
CKWIARV_XV64SHARED_NO	406	2
CKWIARVL	4B0	B0
CKWID	0	C3D2E640
CKWINITM	220	
CKWINSID	C30	
CKWIOALT	B0	
CKWIOBST	1C4	
CKWIO64	A0	
CKWIO64L	A8	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWI64PT	4B0	
CKWI64RA	4B8	
CKWI64RC	4C0	
CKWI64RG	4B8	
CKWJODON	C24	
CKWJQDON	C2C	
CKWKSTQE	258	
CKWKTCDI	54	
CKWKTDRD	5C	
CKWKTDRX	58	
CKWKTESQ	50	
CKWKTJOE	48	
CKWKTJQE	40	
CKWKTJQX	44	
CKWKTPST	4C	
CKWKT1PK	218	
CKWKT1RC	200	
CKWLDIAG	5	8
CKWLDRM	544	
CKWLKEY1	1E0	
CKWLKEY2	1E8	
CKWLKIT	38	
CKWLKITE	3C	
CKWLKNUM	64	
CKWLKVL1	1F0	
CKWLKVL2	1F8	
CKWLMASK	C14	
CKWLNGTH	0	CC0
CKWLSTSY	67	
CKWMAXM	574	
CKWMAXPN	570	
CKWMAXRC	68	
CKWMBRDE	0	
CKWMBRDT	608	
CKWMCHDR	18	
CKWMCHLD	8	
CKWMCKRI	2C	
CKWMCLDR	10	
CKWMID	0	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWMOHV	20	
CKWMPNR	24	
CKWMPNV	28	
CKWMQSMX	1C	
CKWMRHDR	14	
CKWMRHLD	4	
CKWMRLDR	C	
CKWMSG	330	
CKWMSIZE	2C	30
CKWMSTBI	7C	
CKWMSTBL	80	
CKWMTTCB	B4	
CKWMVSWT	170	
CKWNHOLD	54C	
CKWOHV	194	
CKWOPTCK	1AC	
CKWOPT4K	1B0	
CKWPAGCT	1B4	
CKWPAINR	18C	
CKWPAINV	190	
CKWPARML	1DC	18
CKWPARMS	1C8	
CKWPARM1	1C8	
CKWPARM2	1CC	
CKWPARM3	1D0	
CKWPARM4	1D4	
CKWPARM5	1D8	
CKWPARM6	1DC	
CKWPNRC	19C	
CKWPPL	3D8	0
CKWPPLA	88	
CKWPREVT	20	
CKWPSTCT	1A8	
CKWQECB	270	
CKWQREPL	288	40404040
CKWQSLST	180	
CKWQSMX	198	
CKWQSUSE	178	
CKWRCID	34	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWRECF3	31	
CKWRESTM	530	
CKWRESV	400	
CKWRESV_KEYUSED_CONTROL	406	80
CKWRESV_PL_END	478	480
CKWRESV_XANSAREA_ADDR3164	430	
CKWRESV_XANSAREA_ALET	464	
CKWRESV_XANSLEN	468	
CKWRESV_XCOND_NO	0	1
CKWRESV_XCOND_YES	0	2
CKWRESV_XCONTENTIONACT_FAIL	404	20
CKWRESV_XCONTROL	403	
CKWRESV_XCONTROL_DO_NOT_OVERRIDE	405	10
CKWRESV_XCONTROL_EXCLUSIVE	403	2
CKWRESV_XCONTROL_SHARED	403	1
CKWRESV_XCONTROLVAL	403	
CKWRESV_XECB@	46C	
CKWRESV_XENQMAX_NO	404	4
CKWRESV_XENQTOKEN_ADDR3164	410	
CKWRESV_XENQTOKEN_ALET	454	
CKWRESV_XENQTOKENTBL_ADDR3164	420	
CKWRESV_XENQTOKENTBL_ALET	45C	
CKWRESV_XFLAGS1	404	
CKWRESV_XFLAGS2	405	
CKWRESV_XFLAGS3	406	
CKWRESV_XFLAGS4	407	
CKWRESV_XNUMRES	474	
CKWRESV_XOWNINGTTOKEN	440	
CKWRESV_XQNAME	438	
CKWRESV_XQNAME_DO_NOT_OVERRIDE	404	1
CKWRESV_XREQUEST_CHANGE	0	2
CKWRESV_XREQUEST_OBTAIN	0	1
CKWRESV_XREQUEST_RELEASE	0	3
CKWRESV_XRESERVEVOLUME_YES	405	80
CKWRESV_XRESLIST_YES	404	8
CKWRESV_XRESTABLE_ADDR3164	408	
CKWRESV_XRESTABLE_ALET	450	
CKWRESV_XRETURNTABLE_ADDR3164	418	
CKWRESV_XRETURNTABLE_ALET	458	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWRESV_XRNAME_ADDR3164	428	
CKWRESV_XRNAME_ALET	460	
CKWRESV_XRNAME_DO_NOT_OVERRIDE	405	1
CKWRESV_XRNAMELEN	476	
CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	406	1
CKWRESV_XRNL_DO_NOT_OVERRIDE	405	4
CKWRESV_XRNL_NO	404	2
CKWRESV_XRSVNNNN	478	
CKWRESV_XRSV0000	401	
CKWRESV_XRSV0001	477	
CKWRESV_XSCOPE	402	
CKWRESV_XSCOPE_DO_NOT_OVERRIDE	405	8
CKWRESV_XSCOPE_STEP	402	1
CKWRESV_XSCOPE_SYSPLEX	402	3
CKWRESV_XSCOPE_SYSTEM	402	2
CKWRESV_XSCOPE_SYSTEMS	402	3
CKWRESV_XSCOPEVAL	402	
CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	405	2
CKWRESV_XSYNCHRES_NO	405	20
CKWRESV_XSYNCHRES_YES	405	40
CKWRESV_XTEST_YES	404	40
CKWRESV_XUCB@	470	
CKWRESV_XUCB@_DO_NOT_OVERRIDE	407	1
CKWRESV_XVERSION	400	
CKWRESV_XWAITTYPE_ECB	404	10
CKWRESVL	480	80
CKWRESVS	400	
CKWRESV1	32	
CKWRLSET	18	
CKWRMASK	C08	
CKWR2LEV	248	
CKWSAPCI	1A0	
CKWSAPTH	1A4	1E
CKWSAPTM	1A4	
CKWSCAN	30	
CKWSCDL	30	1
CKWSCF	30	80
CKWSCNL	30	E0
CKWSDSN	30	40

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWSHLST	1C0	
CKWSNCN	30	1
CKWSTAR	3E8	
CKWSTASY	66	
CKWSTHLD	28	
CKWSVOL	30	20
CKWTFLG1	550	
CKWTOTPN	560	
CKWTRCT	554	
CKWTRCTR	556	
CKWTRDON	C28	
CKWTSECT	538	
CKWTSEQN	552	
CKWTSIZE	C1C	6E8
CKWT10N	550	80
CKWT1RSN	550	10
CKWT1SM	550	40
CKWT1TCM	550	20
CKWVERMR	78	
CKWVERN	4	4
CKWVERSN	4	
CKWVERSZ	6C	
CKWVRLA	4E8	
CKWVRLC	518	
CKWVRLN	510	
CKWVRLP	514	
CKWVRL64	50C	
CKWVSERV	520	
CKWVSERV_CHANGEACCESS	521	3
CKWVSERV_CHANGEACCESS64	521	7
CKWVSERV_COPYNOW	522	2
CKWVSERV_KEYUSED_RANGLIST64	523	10
CKWVSERV_PL_END	528	52C
CKWVSERV_RETAIN_YES	522	1
CKWVSERV_SHARE	521	1
CKWVSERV_SHARESEG	521	4
CKWVSERV_SHARE64	521	5
CKWVSERV_TARGET_VIEW_LS	522	8
CKWVSERV_TARGET_VIEW_NA	522	4

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWVSERV_TARGET_VIEW_RO	522	80
CKWVSERV_TARGET_VIEW_SW	522	40
CKWVSERV_TARGET_VIEW_TW	522	10
CKWVSERV_TARGET_VIEW_UW	522	20
CKWVSERV_UNSHARE	521	2
CKWVSERV_UNSHARE64	521	6
CKWVSERV_XFLAGS1	522	
CKWVSERV_XFLAGS2	523	
CKWVSERV_XMAKETARGETWRITE_YES	523	20
CKWVSERV_XNUMRANGE	524	
CKWVSERV_XPARTIALPAGE_YES	523	80
CKWVSERV_XRANGLIST	528	
CKWVSERV_XRANGLIST64	528	
CKWVSERV_XSERVICE	521	
CKWVSERV_XSINGLESPEACE_YES	523	8
CKWVSERV_XTARGETMAYBEREAD_YES	523	40
CKWVSERV_XUNAUTHVIEW_YES	523	4
CKWVSERV_XVERSION	520	
CKWVSERVL	52C	C
CKWVSZ31	70	
CKWVSZ64	74	
CKWWMASK	C0C	
CKWWRLEV	250	
CKWWTMM	188	
CKWXCFA	238	
CKWXLIST	400	
CKWXLIST_KEYUSED_ADJAREA	402	20
CKWXLIST_KEYUSED_ANSAREA	402	10
CKWXLIST_KEYUSED_BUFFER	402	80
CKWXLIST_KEYUSED_BUFLIST	402	40
CKWXLIST_KEYUSED_BUFSTGKEY	402	4
CKWXLIST_KEYUSED_EXTRESTOKEN	405	20
CKWXLIST_KEYUSED_LOCKCOMP	404	1
CKWXLIST_MACUSED_IXLLSTC	458	80
CKWXLIST_MACUSED_IXLLSTE	458	40
CKWXLIST_MACUSED_IXLLSTM	458	20
CKWXLIST_PL_END	4D4	4E8
CKWXLIST_RCVRYREQASYNC	405	1
CKWXLIST_XADJADDR	428	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XADJAREA	42C	
CKWXLIST_XADJAREA_ALET	428	
CKWXLIST_XANSADDR	430	
CKWXLIST_XANSAREA	434	
CKWXLIST_XANSAREA_ALET	430	
CKWXLIST_XANSLEN	40A	
CKWXLIST_XAUTHCOMP1	494	
CKWXLIST_XBUFADDRTYPE_REAL	402	2
CKWXLIST_XBUFALET	41C	
CKWXLIST_XBUFFER	424	
CKWXLIST_XBUFFER_ALET	41C	
CKWXLIST_XBUFINCRNUM	463	
CKWXLIST_XBUFLIST	424	
CKWXLIST_XBUFLIST_ALET	420	
CKWXLIST_XBUFNUM	462	
CKWXLIST_XBUFSIZE	420	
CKWXLIST_XBUFSTGKEY	409	
CKWXLIST_XB8T011	46C	
CKWXLIST_XCCA	464	
CKWXLIST_XCCB	465	
CKWXLIST_XCGLM	46F	
CKWXLIST_XCMDCODE	401	
CKWXLIST_XCMDFLGS1	468	
CKWXLIST_XCMDFLGS1A	468	
CKWXLIST_XCMDFLGS1B	469	
CKWXLIST_XCMDFLGS1C	46A	
CKWXLIST_XCMDFLGS1D	46B	
CKWXLIST_XCMDFLGS2A	4B0	
CKWXLIST_XCMDLEN	460	
CKWXLIST_XCOMPCONID	408	
CKWXLIST_XCONID	419	
CKWXLIST_XCONTOKEN	40C	
CKWXLIST_XDATADDR	41C	
CKWXLIST_XDBS	468	
CKWXLIST_XELEMNUM	468	
CKWXLIST_XENDINDEX	46E	
CKWXLIST_XENTRYID	478	
CKWXLIST_XENTRYKEY	494	
CKWXLIST_XENTRYNAME	494	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XEXTRESTOKEN	448	
CKWXLIST_XEXTRESTOKENPSVN	450	
CKWXLIST_XEXTRESTOKENTKN	448	
CKWXLIST_XFIRSTELEM	4A4	
CKWXLIST_XKEYCOMP	494	
CKWXLIST_XLASTELEM	4A6	
CKWXLIST_XLISTDESC	4B4	
CKWXLIST_XLISTLIMIT	478	
CKWXLIST_XLISTNUM	474	
CKWXLIST_XLOCKDATA	448	
CKWXLIST_XLOCKINDEX	470	
CKWXLIST_XLOCKMODE_COND	404	2
CKWXLIST_XLOCKOPER_HELDDBY	404	10
CKWXLIST_XLOCKOPER_NOTHELD	404	20
CKWXLIST_XLOCKOPER_READNEXT	404	4
CKWXLIST_XLOCKOPER_RESET	404	40
CKWXLIST_XLOCKOPER_SET	404	80
CKWXLIST_XLOCKOPER_TEST	404	8
CKWXLIST_XMCB_DATA1	464	
CKWXLIST_XMCB_DATA2	4D4	
CKWXLIST_XMOB_DATA	460	
CKWXLIST_XMODE_ASYNCCECB	403	10
CKWXLIST_XMODE_ASYNCEXIT	403	8
CKWXLIST_XMODE_ASYNCNORESPONSE	403	2
CKWXLIST_XMODE_ASYNCCTOKEN	403	4
CKWXLIST_XMODE_SYNCECB	403	80
CKWXLIST_XMODE_SYNCEXIT	403	40
CKWXLIST_XMODE_SYNCTOKEN	403	20
CKWXLIST_XMOSVECTOR	42C	
CKWXLIST_XMOSVECTOR_ALET	428	
CKWXLIST_XMOVETOKEY0	4D4	
CKWXLIST_XMOVETOLIST0	4E4	
CKWXLIST_XNEWAUTH1	4A4	
CKWXLIST_XNEWVERS	484	
CKWXLIST_XOPTIONALDATA	448	
CKWXLIST_XPAGEABLE_NO	402	8
CKWXLIST_XREQDATA	438	
CKWXLIST_XREQECB	438	
CKWXLIST_XREQID	440	

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XREQTOKEN	43C	
CKWXLIST_XREQTOKEN_ALET	438	
CKWXLIST_XRESTOKEN	4A4	
CKWXLIST_XRSV0102	406	
CKWXLIST_XRSV0103	45C	
CKWXLIST_XRSV0201	40C	
CKWXLIST_XRSV0202	41A	
CKWXLIST_XRSV0203	43C	
CKWXLIST_XRSV0204	450	
CKWXLIST_XRSV0501	466	
CKWXLIST_XRSV0502	46C	
CKWXLIST_XRSV0601	47C	
CKWXLIST_XRSV0602	495	
CKWXLIST_XRSV0603	4AC	
CKWXLIST_XRSV0604	4A8	
CKWXLIST_XRSV0605	4B1	
CKWXLIST_XRSV0606	4B5	
CKWXLIST_XSHL_DATA	400	
CKWXLIST_XSHLFLGS	402	
CKWXLIST_XSHLFLGSA	458	
CKWXLIST_XSHLFLGSA1	458	
CKWXLIST_XSHLFLGSA2	459	
CKWXLIST_XSHLFLGS1	402	
CKWXLIST_XSHLFLGS2	403	
CKWXLIST_XSHLFLGS3	404	
CKWXLIST_XSHLFLGS4	405	
CKWXLIST_XSTARTINDEX	46C	
CKWXLIST_XTYPE_ADJDATA	405	80
CKWXLIST_XTYPE_ECONTROLS	405	40
CKWXLIST_XUID1	4B4	
CKWXLIST_XUID2	494	
CKWXLIST_XUID3	46B	
CKWXLIST_XVECTORINDEX	470	
CKWXLIST_XVERSCOMP	48C	
CKWXLIST_XVERSION	400	
CKWXLISTL	4E8	E8
CKWXREQ	214	
CKWZMASK	C10	
CKW1ESUP	5	20

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKW1FNLW	5	80
CKW10FLW	5	40
CKW1SPI0	5	4
CKW1SPSC	5	2
CKW1S266	5	10
CKW2FMLS	6	4
CKW2FWLS	6	8
CKW2INTR	6	1
CKW2IWLS	6	10
CKW2PWLS	6	20
CKW2R1LS	6	80
CKW2R2LS	6	40
CKW3FMCP	7	40
CKW3NOPT	7	4
CKW3PWWP	7	8
CKW3RFMT	7	1
CKW3R2WP	7	10
CKW3STA	7	2
CKW4DIAG	8	4
CKW4DIA1	8	20
CKW4IGN0	8	8
CKW4IGN1	8	40
CKW4K64	90	
CKW4K64L	98	
CKW4P1V	8	2
CKW4P2V	8	1
CKW4WT0R	8	10
CKW4WT01	8	80
CKW5PMST	9	2
CKW5PR0T	9	4
CKW5STRL	9	8
CKW51NVL	9	40
CKW51VOL	9	80
CKW52NVL	9	10
CKW52VOL	9	20
CKW6EXT	A	8
CKW6FMT	A	10
CKW6LOCK	A	80
CKW6LOKD	A	2

Table 92. Cross Reference for \$CKW (continued)

Name	Offset	Hex Tag
CKW6PRIM	A	4
CKW6READ	A	40
CKW6WRT	A	20
CKW7RDCP	B	40
CKW7WTCP	B	80
M00M1238	0	400
M00M1240	0	400
M00M1241	0	400
M00M1242	0	400
M00M1243	0	520
M00M1244	0	C40

\$CKX information

\$CKX heading information

Common name:	JES2 Checkpoint Reconfiguration JESXCF Messages
Macro ID:	\$CKX
DSECT name:	CKX
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CKX ' Offset: CKXID-CKX Length: L'CKX
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See CKXMAXLN for the length of the largest message or acknowledgement message. This includes both the header length (CKXHDLN) and the message data length. The execution time message length is in field CKXMSGLN. Each message type has its own length. The message data lengths (which do not include the header length) are defined with field names of the form CKXMnMSG for messages and CKXAnMSG for acknowledgement messages, where "n" is the message type number (see equates for field CKXMTYPE).

Created by:	The area used to compose messages and their acknowledgements is created by routine CKRRINIT during JES2 initialization. Areas in JESXCF messages are created by the IXZXISM macro instruction and areas in acknowledgement messages are created by the IXZXIAC macro instruction.
Pointed to by:	CKMCKXA field of the \$CKM data area MESSAGE_OFFSET field of the IXZYIXEN data area YIXAC_APPL_DATA field of the IXZYIXAC data area
Serialization:	None required
Function:	The \$CKX data area is used by JES2 checkpoint reconfiguration routines to map the application portion of JESXCF messages and acknowledgements exchanged between members in a JES2 MAS.

\$CKX mapping

Table 93. Structure CKX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKX	, Checkpoint reconfiguration JESXCF messages and acks
JES2 checkpoint reconfiguration message/ack header					
0	(0)	CHARACTER	4	CKXID	Control block eyecatcher
4	(4)	ADDRESS	1	CKXVERSN	Sender's control block version
4	(4)	X'1'	0	CKXVERN	"1" Current version on this member (see restrictions when you change this)
5	(5)	ADDRESS	1	CKXVERLT	Lowest control block version receiver can be at and tolerate message
5	(5)	X'1'	0	CKXVLCVN	"CKXVERN" Lowest version number this member is compatible with
Reason codes for \$K26 error codes					
5	(5)	X'1'	0	CKXK26R1	"1" Receiver's \$CKX version too far down level to be compatible with sender's
5	(5)	X'2'	0	CKXK26R2	"2" Receiver's \$CKX version too far up level to be compatible with sender's
General purpose information fields					
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	SIGNED	4	CKXSMEMN	Sending member number
12	(C)	SIGNED	4	CKXTMEMN	To member number
16	(10)	SIGNED	4	CKXMSGLN	Length of this entire msg
20	(14)	BITSTRING	32		Reserved for future use

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following section is permanently dedicated for IBM internal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or \$K25 ABENDs.					
52	(34)	BITSTRING	1	CKXFCTFG	Flags for IBM FCT use only
		1...		CKXFCTFA	"B'10000000'" - Tell receiver to issue \$K25 error code
		.1..		CKXFCTFI	"B'01000000'" - Tell receiver to pretend it never got this msg
		..1.		CKXFCTFC	"B'00100000'" - Tell driving member to issue \$K25 after next driver commit
		...1		CKXFCTFD	"B'00010000'" - Tell driving member to issue \$K25 after driver decommit
53	(35)	BITSTRING	3		Reserved for future FCT use
56	(38)	SIGNED	4	CKXFCTRC	Reason code for \$K25 error
JES2 checkpoint reconfiguration JESXCF message and acknowledgement types					
60	(3C)	SIGNED	4	CKXMTYPE	Message or ack type
60	(3C)	X'1'	0	CKXM0	"1" Start-up CKPT reconfig
60	(3C)	X'2'	0	CKXM1	"2" Request info for driver (re)selection
60	(3C)	X'3'	0	CKXA1	"3" Acknowledgement for above
60	(3C)	X'4'	0	CKXM2	"4" Notification of driver (re)selection
60	(3C)	X'5'	0	CKXA2	"5" Acknowledgement for above
60	(3C)	X'6'	0	CKXM3	"6" Sync point action/cond req
60	(3C)	X'7'	0	CKXA3	"7" Acknowledgement for above
60	(3C)	X'8'	0	CKXM4	"8" Sync go-ahead
60	(3C)	X'9'	0	CKXA4	"9" Acknowledgement for above
60	(3C)	X'A'	0	CKXM5	"10" Reconfiguration DONE
60	(3C)	X'B'	0	CKXA5	"11" Acknowledgement for above
End of header section					
64	(40)	SIGNED	4	(0)	Alignment
64	(40)	X'40'	0	CKXHDLN	"*-CKX" Length of msg/ack header
Beginning of message section					
64	(40)	SIGNED	4	CKXMSG(0)	All msgs/acks begin here
64	(40)	CHARACTER	8	CKXMEYE	All msgs/acks begin with a msg specific eyecatcher starting with "Mn" for msgs and "An" for acks

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Message: Start-up checkpoint reconfiguration This message is used to start-up a JES2 checkpoint reconfiguration. The message is sent by every starting member to every reconfiguration capable members. The start-up message is the only message sent to the life-of-member mailbox. All other messages are directed to a mailbox created for the life of a reconfiguration instance. This is a TYPE=COMM message. Use this section when CKXMTYPE is set to CKXM0. Fields in this section are named CKXM0xxx.</p>					
64	(40)	BITSTRING	0	CKXM0MSG(0)	Start-up CKPT reconfig
64	(40)	SIGNED	4	CKXM0BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM0EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM0END(0)	End of message
72	(48)	X'8'	0	CKXM0HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
<p>Message: Request info for driver (re)selection This message is sent by the driver candidate to every active, participating member. The members return the requested information in an acknowledgement message. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM1. Fields in this section are named CKXM1xxx.</p>					
64	(40)	BITSTRING	0	CKXM1MSG(0)	Request info for driver (re)selection
64	(40)	SIGNED	4	CKXM1BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM1EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM1END(0)	End of message
72	(48)	X'8'	0	CKXM1HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
<p>Ack message: Info for driver (re)selection The acknowledgements are used by the driver candidate to determine the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use. When selecting a replacement driving member, the acknowledgements are also used to determine each member's operation sequence number. Use this section when CKXMTYPE is set to CKXA1. Fields in this section are named CKXA1xxx.</p>					
64	(40)	BITSTRING	0	CKXA1MSG(0)	Info for driver select
64	(40)	SIGNED	4	CKXA1BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA1EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXA1FLG	Flag byte
		1...		CKXA1FOV	"B'10000000" - OPVERIFY=YES on this memb
		.1..		CKXA1FI1	"B'01000000" - I/O error on CKPT1
		..1.		CKXA1FI2	"B'00100000" - I/O error on CKPT2
		...1		CKXA1FCV	"B'00010000" - CKPT on volatile CF
		.... 1...		CKXA1FOR	"B'00001000" - Operator dialog request

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CKXA1HUP	"B'00000100'" - HFAM update is pending
		.... ..1.		CKXA1FST	"B'00000010'" - Set CKPTDEF command (also sets CKXA1FOR)
		.... ...1		CKXA1RFM	"B'00000001'" - Set reformat CKPT request
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXA1SEQ	Operation sequence number
80	(50)	BITSTRING	4	CKXA1CON	Console ID or zero
84	(54)	BITSTRING	308	CKXA1HFM	Copy of HFAM for NEWCKPTn specifications on member
392	(188)	SIGNED	4	CKXA1END(0)	End of ack message
392	(188)	X'148'	0	CKXA1HCL	"328" If you change this constant
392	(188)	ADDRESS	2	(0)	or get an assembly
392	(188)	ADDRESS	2	(0)	error, you MUST update CKXVERN
<p>Message: Notification of driver (re)selection This message notifies all participating members of the selection of the driving member, or the replacement of a failed driving member. This message contains the accumulated results from the request driver selection information message from the MAS perspective. The MAS wide results includes the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the message also indicates the highest valid operation sequence number for catch-up processing. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM2. Fields in this section are named CKXM2xxx.</p>					
64	(40)	BITSTRING	0	CKXM2MSG(0)	Notification of driver (re)selection
64	(40)	SIGNED	4	CKXM2BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM2EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM2FLG	Flag byte
		1...		CKXM2FOV	"B'10000000'" - Use OPVERIFY=YES
		.1..		CKXM2FI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKXM2FI2	"B'00100000'" - I/O error on CKPT2
		...1		CKXM2FCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKXM2FOR	"B'00001000'" - Operator dialog
		.... .1..		CKXM2FCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKXM2FST	"B'00000010'" - Set CKPTDEF command (also sets CKXM2FOR)
		.... ...1		CKXM2RFM	"B'00000001'" - Set reformat CKPT request
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM2SEQ	Highest operation sequence
80	(50)	BITSTRING	4	CKXM2CON	Console ID or zero
84	(54)	SIGNED	4	CKXM2NI1	Number of CKPT1 I/O errors
88	(58)	SIGNED	4	CKXM2NI2	Number of CKPT2 I/O errors
92	(5C)	CHARACTER	4	CKXM2NAM	Name of new driving member
96	(60)	CHARACTER	128	CKXM2PMV	Vector of member names participating in orig driver selection

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
224	(E0)	BITSTRING	308	CKXM2HFM	HFAM to initially use for this reconfig instance
532	(214)	SIGNED	4	CKXM2END(0)	End of message
532	(214)	X'1D4'	0	CKXM2HCL	"468" If you change this constant
532	(214)	ADDRESS	2	(0)	or get an assembly
532	(214)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Ack message: Ack driver (re)selection notification The acknowledging non-driving member does NOT consider the selection of the driver to be "complete" until the driving member updates its XCF user state data. Use this section when CKXMTYPE is set to CKXA2. Fields in this section are named CKXA2xxx.					
64	(40)	BITSTRING	0	CKXA2MSG(0)	Ack notification of who's driving member
64	(40)	SIGNED	4	CKXA2BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA2EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA2END(0)	End of ack message
72	(48)	X'8'	0	CKXA2HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Message: Sync point action/condition request This message is issued by the driving member in order to give instructions (actions) to non-driving members, or to request the results of previous action requests. Non-driving members do not carry out an action until instructed to do so by a "sync go-ahead" message or unless it's necessary to go-ahead in order to keep in sync with other members (catch-up processing). This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM3. Fields in this section are named CKXM3xxx.					
64	(40)	BITSTRING	0	CKXM3MSG(0)	Sync point action/cond
64	(40)	SIGNED	4	CKXM3BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM3EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM3FLG	Flag byte
		1...		CKXM3DMF	"B'10000000" - Driving member failed
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM3SEQ	Operation sequence number
80	(50)	CHARACTER	8	CKXM3TYP	Sync point type
88	(58)	SIGNED	4	CKXM3ACT	Requested action
92	(5C)	CHARACTER	308	CKXM3HFM	Driver's current HFAM
400	(190)	SIGNED	4	CKXM3END(0)	End of message
400	(190)	X'150'	0	CKXM3HCL	"336" If you change this constant
400	(190)	ADDRESS	2	(0)	or get an assembly
400	(190)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Ack message: Ack sync point action/condition req This message is used to acknowledge an action request and to inform the driving member of the non-driving member's condition. Use this section when CKXMTYPE is set to CKXA3. Fields in this section are named CKXA3xxx.					

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	BITSTRING	0	CKXA3MSG(0)	Ack sync and return condition data
64	(40)	SIGNED	4	CKXA3BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA3EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXA3TYP	Sync point type
80	(50)	CHARACTER	4	CKXA3CON	Non-driver's condition
84	(54)	CHARACTER	4	CKXA3RSN	Non-driver's reason code
88	(58)	SIGNED	4	CKXA3END(0)	End of ack message
88	(58)	X'18'	0	CKXA3HCL	"24" If you change this constant
88	(58)	ADDRESS	2	(0)	or get an assembly
88	(58)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Message: Sync go-ahead This message is sent by the driving member to give non-driving members the go-ahead to proceed with the sync point action request. If the driver fails is such a way that some, but not all, members receive this message, then those members that did not receive this message will do catch-up processing when a new driver is selected. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM4. Fields in this section are named CKXM4xxx.					
64	(40)	BITSTRING	0	CKXM4MSG(0)	Sync go-ahead
64	(40)	SIGNED	4	CKXM4BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXM4TYP	Sync point type
80	(50)	SIGNED	4	CKXM4END(0)	End of message
80	(50)	X'10'	0	CKXM4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Ack message: Ack sync go-ahead Use this section when CKXMTYPE is set to CKXA4. Fields in this section are named CKXA4xxx.					
64	(40)	BITSTRING	0	CKXA4MSG(0)	Ack sync go-ahead
64	(40)	SIGNED	4	CKXA4BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXA4TYP	Sync point type
80	(50)	SIGNED	4	CKXA4END(0)	End of ack message
80	(50)	X'10'	0	CKXA4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Message: Reconfiguration DONE This message is issued by the driving member to inform other members of the pending completion of this reconfiguration. Non-driving members do not exit this CKPT reconfiguration until they detect an XCF user state update indicating the reconfiguration has decommitted. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM5. Fields in this section are named CKXM5xxx.					
64	(40)	BITSTRING	0	CKXM5MSG(0)	Reconfiguration DONE

Table 93. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
64	(40)	SIGNED	4	CKXM5BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM5SEQ	Operation sequence number
76	(4C)	SIGNED	4	CKXM5END(0)	End of message
76	(4C)	X'C'	0	CKXM5HCL	"12" If you change this constant
76	(4C)	ADDRESS	2	(0)	or get an assembly
76	(4C)	ADDRESS	2	(0)	error, you MUST update CKXVERN
Ack message: Ack reconfiguration DONE Use this section when CKXMTYPE is set to CKXA5. Fields in this section are named CKXA5xxx.					
64	(40)	BITSTRING	0	CKXA5MSG(0)	Ack reconfig DONE
64	(40)	SIGNED	4	CKXA5BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA5END(0)	End of ack message
72	(48)	X'8'	0	CKXA5HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
End of \$CKX data area					
532	(214)	SIGNED	4	(0)	Alignment
532	(214)	X'214'	0	CKXMAXLN	"*-CKX" Max \$CKX data area length PRINT ON

Table 94. Cross Reference for \$CKX

Name	Offset	Hex Tag
CKX	0	
CKXA1	3C	3
CKXA1BEG	40	
CKXA1CON	50	
CKXA1END	188	
CKXA1EYE	40	
CKXA1FCV	48	10
CKXA1FI1	48	40
CKXA1FI2	48	20
CKXA1FLG	48	
CKXA1FOR	48	8
CKXA1FOV	48	80
CKXA1FST	48	2
CKXA1HCL	188	148
CKXA1HFM	54	
CKXA1HUP	48	4
CKXA1MSG	40	

Table 94. Cross Reference for \$CKX (continued)

Name	Offset	Hex Tag
CKXA1RFM	48	1
CKXA1SEQ	4C	
CKXA2	3C	5
CKXA2BEG	40	
CKXA2END	48	
CKXA2EYE	40	
CKXA2HCL	48	8
CKXA2MSG	40	
CKXA3	3C	7
CKXA3BEG	40	
CKXA3CON	50	
CKXA3END	58	
CKXA3EYE	40	
CKXA3HCL	58	18
CKXA3MSG	40	
CKXA3RSN	54	
CKXA3TYP	48	
CKXA4	3C	9
CKXA4BEG	40	
CKXA4END	50	
CKXA4EYE	40	
CKXA4HCL	50	10
CKXA4MSG	40	
CKXA4TYP	48	
CKXA5	3C	B
CKXA5BEG	40	
CKXA5END	48	
CKXA5EYE	40	
CKXA5HCL	48	8
CKXA5MSG	40	
CKXFCTFA	34	80
CKXFCTFC	34	20
CKXFCTFD	34	10
CKXFCTFG	34	
CKXFCTFI	34	40
CKXFCTRC	38	
CKXHDRLN	40	40
CKXID	0	
CKXK26R1	5	1

Table 94. Cross Reference for \$CKX (continued)

Name	Offset	Hex Tag
CKXK26R2	5	2
CKXMAXLN	214	214
CKXMEYE	40	
CKXMSG	40	
CKXMSGLN	10	
CKXMTYPE	3C	
CKXM0	3C	1
CKXM0BEG	40	
CKXM0END	48	
CKXM0EYE	40	
CKXM0HCL	48	8
CKXM0MSG	40	
CKXM1	3C	2
CKXM1BEG	40	
CKXM1END	48	
CKXM1EYE	40	
CKXM1HCL	48	8
CKXM1MSG	40	
CKXM2	3C	4
CKXM2BEG	40	
CKXM2CON	50	
CKXM2END	214	
CKXM2EYE	40	
CKXM2FCN	48	4
CKXM2FCV	48	10
CKXM2FI1	48	40
CKXM2FI2	48	20
CKXM2FLG	48	
CKXM2FOR	48	8
CKXM2F0V	48	80
CKXM2FST	48	2
CKXM2HCL	214	104
CKXM2HFM	E0	
CKXM2MSG	40	
CKXM2NAM	5C	
CKXM2NI1	54	
CKXM2NI2	58	
CKXM2PMV	60	
CKXM2RFM	48	1

Table 94. Cross Reference for \$CKX (continued)

Name	Offset	Hex Tag
CKXM2SEQ	4C	
CKXM3	3C	6
CKXM3ACT	58	
CKXM3BEG	40	
CKXM3DMF	48	80
CKXM3END	190	
CKXM3EYE	40	
CKXM3FLG	48	
CKXM3HCL	190	150
CKXM3HFM	5C	
CKXM3MSG	40	
CKXM3SEQ	4C	
CKXM3TYP	50	
CKXM4	3C	8
CKXM4BEG	40	
CKXM4END	50	
CKXM4EYE	40	
CKXM4HCL	50	10
CKXM4MSG	40	
CKXM4TYP	48	
CKXM5	3C	A
CKXM5BEG	40	
CKXM5END	4C	
CKXM5EYE	40	
CKXM5HCL	4C	C
CKXM5MSG	40	
CKXM5SEQ	48	
CKXSMEMN	8	
CKXTMEMN	C	
CKXVERLT	5	
CKXVERN	4	1
CKXVERSN	4	
CKXVLCVN	5	1

\$CLASGRP information

\$CLASGRP heading information

Common name: Group Class Object

Macro ID: \$CLASGRP

DSECT name: GRPOBJ

Owning component: JES2 (SC1BH)

Eye-catcher ID: CGRP
Offset: GRPKEY-GRPOBJ
Length: L'GRPKEY

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See GRPSIZ

Created by: \$DOGGRP - create jobclass group object

Pointed to by: Pointer returned by \$DOGGRP service

Serialization: Update access is serialized by the BERT lock

Function: This macro along with \$DOGGRP supports group (job class) services. The general services supported are:
 - Create - Create job class group.
 - Fetch - Returns a copy of the group object in a work area.
 - Fetchnext - Return the current group object and locates the next group object.
 - Return - Returns the group object to the checkpoint.
 - Free - Removes the group object from the checkpoint
 The group object layout is as follows:

Prebert
Memory only ...
-- reserved for
\$DOGCAT cache code
Length = CATMEMLN

Eye catcher - CGRP
8 char group name

 | 8 char class name | --> Next class to be used

 A group contains one 8 character job class. A group is a circular list of CATs linked by \$CAT field CATGPNXT - 8 character name of next class in list.

\$CLASGRP mapping

Table 95. Structure GRPOBJ

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GRPOBJ	
0	(0)	BITSTRING	36	GRPMEMO	Memory only section used by \$DOGCAT - CAT cache service
36	(24)	CHARACTER	4	GRPID	Eye catcher

Table 95. Structure GRPOBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
40	(28)	CHARACTER	8	GRPNAME	Group name - keyed BERT access
48	(30)	CHARACTER	8	GRPNXCL	Next class to be selected
48	(30)	X'38'	0	GRPSIZ	"*-GRPOBJ" Size of group object

\$CMB information

\$CMB programming interface information

\$CMB is a programming interface.

\$CMB heading information

Common name:	Console Message Buffer
Macro ID:	\$CMB
DSECT name:	CMB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	"CMB " Offset: CMBID-CMB Length: L'CMBID
Storage attributes:	Subpool: 0, 20, or 231 Key: 1 Residency: Virtual and real storage are above 16M, in either the private storage of the JES2 address space or in CSA from another address space.
Size:	See CMBLGLEN, CMBL CMBLGLEN is used as the length for private area CMBs so that nodal message records (NMRs) destined for another node can be store-and-forward'ed unchanged by the Remote Console Processor in HASPRTAM. Note that messages originated by JES2 only use CMBL of these CMBs. CMBs that are GETMAIN'ed from common storage are always obtained with length CMBL.
Created by:	\$GETCMB routine in HASPCON SSICMD routine in HASCSIRQ SSINOUS routine in HASCSIRQ
Pointed to by:	CMBCMB field of the \$CMB data area CSACMB field of the \$DTEWTO data area CSACONWQ field of the \$DTEWTO data area \$BUSYQUE field of the \$HCT data area \$BUSYRQ field of the \$HCT data area \$COMMQTP field of the \$HCT data area \$COMMQUE field of the \$HCT data area CCTCMBFQ field of the \$HCCT data area CCTCOMMQ field of the \$HCCT data area CCTELCMB field of the \$HCCT data area CCTRPCQ field of the \$HCCT data area RCPMSHDR field of the \$RCPWORK data area

Serialization: Compare-and-swap logic must be used for queueing or de-queueing the CMB on most queues.

Function: Used to contain messages issued by JES2 or commands destined for JES2.

\$CMB mapping

Table 96. Structure CMB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMB	
KEEP FIELDS CMBCMB THROUGH CMBUSER TOGETHER FOR \$WTO LONG PARAMETER LIST.					
0	(0)	CHARACTER	4	CMBID	CMB IDENTIFIER
4	(4)	ADDRESS	1	CMBVRS	CMB VERSION
4	(4)	X'1'	0	CMBVRSN	"1" SET CMB VERSION
4	(4)	X'5'	0	CMBCLR	"*" START OF AREA CLEARED BY THE \$GETCMB SERVICE (EXCEPT FOR CMBCMB)
5	(5)	BITSTRING	1	CMBFLAG2	GENERAL FLAG BYTE
		1...		CMB2GETM	"B'10000000'" GETMAINED CMB
		.1..		CMB2GMTK	"B'01000000'" \$GETMAINED TOKEN
		..1.		CMB2AUTO	"B'00100000'" CMB from auto command
		...1		CMB2INIT	"B'00010000'" CMB from initialization
5	(5)	X'30'	0	CMB2INTR	"CMB2AUTO+CMB2INIT" CMB from internal command
		.... 1...		CMB2IFF	"B'00001000'" IFF indicator from SSINOUS
		.... .1..		CMB2LGON	"B'00000100'" User is logged on-indicator
		.... ..1.		CMB2NOTF	"B'00000010'" THIS IS A NOTIFY CMB
		.... ...1		CMB2DMC	"B'00000001'" CMB obtained for DEMANDCMB
6	(6)	BITSTRING	1	CMBFLAG4	General flag byte 4
		.... ...1		CMB4LOGO	"B'00000001'" Issue msg to HRDCPY only
		.... ..1.		CMB4PVT	"B'00000010'" CMB is in private storage (together with CMB2GETM)
		1...		CMB4EMER	"B'10000000'" This is an EMERGENCY CMB
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	CMBTOKA	SECURITY TOKEN ADDRESS - IF 0, CMD DEFAULT CHECKING WILL BE USED, AS IN THE CASE OF REMOTE WHICH VERIFYX ON SIGNON RECEIVED A RC 4
12	(C)	ADDRESS	4	CMBCMB	NEXT CMB BUFFER
16	(10)	CHARACTER	4	CMBACEID(0)	ACE ID for monitor commands
16	(10)	ADDRESS	4	CMBPCE	PCE ISSUING MLWTO
20	(14)	CHARACTER	8	CMBKEY	Retrieval key (PCE name)
28	(1C)	CHARACTER	8	CMBJOBNM	Associated job name
36	(24)	SIGNED	4	CMBWTOPL(0)	START OF WTO PARM MAP
36	(24)	BITSTRING	1	CMBFLAG	FLAG BYTE
37	(25)	BITSTRING	1	CMBLEVEL(0)	IMPORTANCE LEVEL (HIGH 4 BITS)

Table 96. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
37	(25)	BITSTRING	1	CMBPRIO	OUTPUT PRIORITY (LOW 4 BITS)
38	(26)	BITSTRING	1	CMBTYPE	TYPE BYTE
39	(27)	BITSTRING	1	CMBML	LENGTH OF MESSAGE
40	(28)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
40	(28)	ADDRESS	3	CMBTO(0)	TO SYSTEM ROUTE CODE (BINARY)
40	(28)	SIGNED	2	CMBTONOD	TO NODE NUMBER
42	(2A)	BITSTRING	1	CMBTOQUL	TO NODE QUALIFIER
43	(2B)	BITSTRING	1	CMBFLAG3	GENERAL FLAG BYTE
	1...			CMB3TOK	"B'10000000'" COMMAND HAS A TOKEN ASSOCIATED WITH IT
	.1...			CMB3INTC	"B'01000000'" Internal command (used within a MAS when trans- porting commands between members to give a single system image)
44	(2C)	CHARACTER	8	CMB CART	COMMAND AND RESPONSE TOKEN
52	(34)	BITSTRING	1	CMBUCM	FOR DOWN LEVEL COMPATIBILITY
53	(35)	BITSTRING	1	CMBUCMA	MCS CONSOLE AREA
54	(36)	BITSTRING	2	CMBLINET	LINE TYPE FOR MLWTO
56	(38)	BITSTRING	4	CMBUCMID	4-BYTE MCS CONSOLE ID
60	(3C)	BITSTRING	2	CMBDESC	MCS DESCRIPTOR CODES
62	(3E)	BITSTRING	2	CMBROUT	MCS CONSOLE ROUTINGS
64	(40)	BITSTRING	4	CMBDOMID	MCS DOM ID
68	(44)	SIGNED	2	CMBRMT	REMOTE NUMBER
70	(46)	CHARACTER	8	CMBUSER	TSO USER ID
70	(46)	X'2A'	0	CMBWTOLG	"*-CMBWTOPL" LENGTH OF LONG WTO PARMLIST
80	(50)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
80	(50)	ADDRESS	3	CMBFM(0)	FROM SYSTEM ROUTE CODE (BINARY)
80	(50)	SIGNED	2	CMBFMNOD	FROM NODE NUMBER
82	(52)	BITSTRING	1	CMBFMQUL	FROM NODE QUALIFIER
83	(53)	BITSTRING	1		RESERVED FOR FUTURE USE
83	(53)	X'30'	0	CMBPARML	"*-CMBWTOPL" LENGTH OF CMB PARAMETER LST
84	(54)	CHARACTER	148	CMBLGMSG(0)	Maximum nodal message for store-and-forward
84	(54)	CHARACTER	132	CMBMSG(0)	CONSOLE MESSAGE
84	(54)	CHARACTER	8	CMBTIME	TIME STAMP FOR REMOTE SYSTEMS
92	(5C)	CHARACTER	1		SPACER
93	(5D)	CHARACTER	8	CMBJOBID	JOB ID
101	(65)	CHARACTER	1		SPACER
102	(66)	CHARACTER	9	CMBMID	MESSAGE ID FIELD
111	(6F)	CHARACTER	8	CMBJOBIN	JOB NAME
119	(77)	CHARACTER	1		SPACER
120	(78)	CHARACTER	96	CMBTEXT	MESSAGE TEXT
216	(D8)	SIGNED	4	CMBEND(0)	END OF CMB
216	(D8)	X'D8'	0	CMBL	"CMBEND-CMB" LENGTH OF CMB
216	(D8)	X'E8'	0	CMBLGEND	"CMBEND+(L'CMBLGMSG-L'CMBMSG)" End of store-and-forward CMB

Table 96. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	X'E8'	0	CMBLGLEN	"CMBLGEND-CMB" Max length for store- and- forward CMB
FORMATTED COMMAND DEFINITIONS					
84	(54)	BITSTRING	40	CMBFNORM(0)	Formatted area for normal command
84	(54)	BITSTRING	40	CMBFRTE(0)	Formatted area for route command
84	(54)	BITSTRING	1	CMBFOP	OPCODE
85	(55)	BITSTRING	1	CMBFFLG	FLAGS OR OPCODE MODIFIER
86	(56)	BITSTRING	2	CMBFJID	INITIAL JOB NUMBER
88	(58)	CHARACTER	8	CMBFORGN	ORIGIN NODE NAME
96	(60)	CHARACTER	8	CMBFJNAM	JOB NAME
104	(68)	CHARACTER	8	CMBFD	DESTINATION FOR ROUTE COMMAND
112	(70)	CHARACTER	8	CMBFR	REMOTE IF NOT IMPLIED BY CMBFD
120	(78)	BITSTRING	4	CMBFJNUM	Fullword job number
CMBFLAG DEFINITIONS					
		1...		CMBFLAGC	"B'10000000'" CMB CONTAINS A COMMAND
		.1..		CMBFLAGW	"B'01000000'" CMB HAS RMT WORKSTATION NUM
		..1.		CMBFLAGT	"B'00100000'" CMB HAS TSO USER ID
		...1		CMBFLAGU	"B'00010000'" CMB HAS UCMID INFORMATION
		.... 1...		CMBFLAGR	"B'00001000'" CONSOLE IS ONLY REMOTE AUTHORIZED
		.... .1..		CMBFLAGJ	"B'00000100'" CONSOLE NOT JOB AUTHORIZED
		.... ..1.		CMBFLAGD	"B'00000010'" CONSOLE NOT DEVICE AUTHORIZED
		.... ...1		CMBFLAGS	"B'00000001'" CONSOLE NOT SYSTEM AUTHORIZED
120	(78)	X'60'	0	CMBFLAGQ	"CMBFLAGW+CMBFLAGT" CMB HAS EITHER REMOTE OR TSO USERID
CMBPRIO DEFINITIONS					
		.... 1111		CMBPRIM	"B'00001111'" CMBPRIO PURIFYING MASK
CMBTYPE DEFINITIONS WARNING: For CMBs which are to cross nodes, CMBTYPE becomes NMRTYPE and the following bits can take on meaning specified by NMRTYPE.					
		1111		CMBTYPEX	"B'11110000'" RESERVED BITS
		.... ..1		CMBTYPED	"B'00000001'" Formatted DOM CMB
		.... ..1.		CMBTYPEF	"B'00000010'" Formatted command in CMBMSG
		.... .1..		CMBTYPET	"B'00000100'" MSG TEXT ONLY IN NMRMSG
		.... 1...		CMBTYPE4	"B'00001000'" RESERVED BIT
CMBFOP DEFINITIONS					
120	(78)	X'1'	0	CMBFOPD	"1" DISPLAY JOB COMMAND
120	(78)	X'2'	0	CMBFOPC	"2" CANCEL JOB COMMAND

Table 96. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
120	(78)	X'3'	0	CMBFOPA	"3" RELEASE JOB COMMAND
120	(78)	X'4'	0	CMBFOPH	"4" HOLD JOB COMMAND
120	(78)	X'5'	0	CMBFOPR	"5" ROUTE JOB COMMAND
CMBFFLG DEFINITIONS					
	....	..11		CMBFFLGJ	"X'03'" BATCH JOB TYPE WHEN ZEROES
	....	...1		CMBFFLGS	"X'01'" STC JOB TYPE
	....	..1.		CMBFFLGT	"X'02'" TSU JOB TYPE
	1...	....		CMBFFLGO	"X'80'" CANCEL OR ROUTE OUTPUT
	.1...	....		CMBFFLGD	"X'40'" CANCEL EXECUTION WITH DUMP

Table 97. Cross Reference for \$CMB

Name	Offset	Hex	Tag
CMB	0		
CMBACEID	10		
CMB CART	2C	40404040	
CMB CLR	4		5
CMB CMB	C		
CMB DESC	3C		0
CMB DOMID	40		0
CMB END	D8		
CMB FD	68	40404040	
CMB FFLG	55		0
CMB FFLGD	78		40
CMB FFLGJ	78		3
CMB FFLGO	78		80
CMB FFLGS	78		1
CMB FFLGT	78		2
CMB FJID	56		0
CMB FJNAM	60	40404040	
CMB FJNUM	78		0
CMB FLAG	24		0
CMB FLAGC	78		80
CMB FLAGD	78		2
CMB FLAGJ	78		4
CMB FLAGQ	78		60
CMB FLAGR	78		8
CMB FLAG S	78		1
CMB FLAGT	78		20
CMB FLAGU	78		10

Table 97. Cross Reference for \$CMB (continued)

Name	Offset	Hex Tag
CMBFLAGW	78	40
CMBFLAG2	5	0
CMBFLAG3	2B	0
CMBFLAG4	6	0
CMBFM	50	
CMBFMNOD	50	0
CMBFMQUL	52	0
CMBFNORM	54	
CMBFOP	54	0
CMBFOPA	78	3
CMBFOPC	78	2
CMBFOPD	78	1
CMBFOPH	78	4
CMBFOPR	78	5
CMBFORGN	58	40404040
CMBFR	70	40404040
CMBFRTE	54	
CMBID	0	C3D4C240
CMBJOBID	5D	40404040
CMBJOBN	6F	40404040
CMBJOBNM	1C	40404040
CMBKEY	14	40404040
CMBL	D8	D8
CMBLEVEL	25	
CMBLGEND	D8	E8
CMBLGLEN	D8	E8
CMBLGMSG	54	
CMBLINET	36	0
CMBMID	66	
CMBML	27	0
CMBMSG	54	
CMBPARML	53	30
CMBPCE	10	
CMBPRIM	78	F
CMBPRIO	25	0
CMBRMT	44	0
CMBROUT	3E	0
CMBTEXT	78	40404040
CMBTIME	54	40404040

Table 97. Cross Reference for \$CMB (continued)

Name	Offset	Hex Tag
CMBTO	28	
CMBTOKA	8	
CMBTONOD	28	0
CMBTOQUL	2A	0
CMBTYPE	26	0
CMBTYPED	78	1
CMBTYPEF	78	2
CMBTYPET	78	4
CMBTYPEX	78	F0
CMBTYPE4	78	8
CMBUCM	34	0
CMBUCMA	35	0
CMBUCMID	38	0
CMBUSER	46	40404040
CMBVRS	4	
CMBVRSN	4	1
CMBWTOLG	46	2A
CMBWTOPL	24	
CMB2AUTO	5	20
CMB2DMC	5	1
CMB2GETM	5	80
CMB2GMTK	5	40
CMB2IFF	5	8
CMB2INIT	5	10
CMB2INTR	5	30
CMB2LGON	5	4
CMB2NOTF	5	2
CMB3INTC	2B	40
CMB3TOK	2B	80
CMB4EMER	6	80
CMB4LOGO	6	1
CMB4PVT	6	2

\$CNVWORK information

\$CNVWORK programming interface information

\$CNVWORK is a programming interface.

\$CNVWORK heading information

Common name:	JES2 JCL Conversion PCE Work Area
Macro ID:	\$CNVWORK
DSECT name:	PCE (\$CNVWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol JPCELEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$JCLPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first JCL conversion PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. DTEPCE field of the \$DTECNV data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 JCL Conversion Processor and by its support routines and exits. \$CNVWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$CNVWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECNVID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$CNVWORK mapping

Table 98. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	24	JPCECECB	Work competition XECB
360	(168)	BITSTRING	1	JPCESTAT	PROCESSOR STATUS BYTE
		1...		JPCEDUPL	"B'10000000" Duplicate logon tried
		.1..		JPCEHJOB	"B'01000000" Job held, issue HASP101 msg
		...1		JPCENCWT	"B'00010000" This PCE cannot wait for OS CNVT
361	(169)	CHARACTER	8	JPCECLAS	Original job class - 8 char
369	(171)	CHARACTER	1	JPCEPRI0	ORIGINAL JOB PRIORITY

Table 98. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
370	(172)	BITSTRING	2		Reserved for future use
372	(174)	ADDRESS	4	JPCEDTE	SUBTASK DTE ADDRESS
376	(178)	ADDRESS	4	JPCEJCTA	JCT BUFFER ADDR FOR PCE
380	(17C)	BITSTRING	12	JPCEQTQE	HASP TIMER QUEUE ELEMENT
392	(188)	BITSTRING	6	JPCEJCTK	MQTR OF JCT, CHANGED BY PROCESSOR WHEN NEW MQTR SET OF JCT
398	(18E)	BITSTRING	2		RESERVED FOR FUTURE IBM USE
400	(190)	ADDRESS	4	JPCEXPLA	Address of XPL for Exit 44
404	(194)	ADDRESS	4	JPCEPARM	NODE TABLE ADDRESS
408	(198)	ADDRESS	4		CONTROL BLOCK ADDRESS
412	(19C)	ADDRESS	4		ADDRESS OF JQE
416	(1A0)	ADDRESS	1		QUEUE TYPE SPECIFIED
417	(1A1)	ADDRESS	1		WORK SELECTION TYPE FLAG
418	(1A2)	ADDRESS	1		Response byte flags
419	(1A3)	ADDRESS	1		Reserved
419	(1A3)	X'194'	0	JPCELST	"JPCEPARM,*-JPCEPARM" QGET PARAMETER LIST STORAGE
420	(1A4)	BITSTRING	1	JPCEXRSP	EXIT 44 response byte Work area copy of \$XPL response byte X044RESP
421	(1A5)	CHARACTER	16	JPCESCHE	Default SCHENV
437	(1B5)	CHARACTER	16	JPCESCHH	Hold area for JQA SCHENV
453	(1C5)	CHARACTER	16	JPCESCHJ	Hold area for JCT SCHENV
469	(1D5)	BITSTRING	2		Reserved
472	(1D8)	ADDRESS	4	JPCJQEA	Real JQE address
480	(1E0)	DBL WORD	8	JPCGRIP	Hold area for GRPID specified on SCHEDULE statement.
488	(1E8)	BITSTRING	17	JPCGROUP	Holds Gxxxxxxx.Groupnme
505	(1F9)	BITSTRING	3		Reserved
508	(1FC)	ADDRESS	4	JPCECIP	CIPARM parm area address
512	(200)	ADDRESS	4	JPCECAT	CAT for job being converted
516	(204)	ADDRESS	4	JPCESQD	SQD address
520	(208)	BITSTRING	16	JPCETTKN	Subtask STOKEN work area
536	(218)	DBL WORD	8	JPCEPRFS(0)	Performance stats
536	(218)	DBL WORD	8	JPCEQTIM	C/I queue time (micro)
544	(220)	DBL WORD	8	JPCERTIM	C/I run time (micro)
552	(228)	DBL WORD	8	JPCECTIE	C/I CPU time (micro)
552	(228)	X'218'	0	JPCEPSTA	"JPCEPRFS,*-JPCEPRFS" All C/I performance stats
560	(230)	DBL WORD	8	JPCPRTIM	Time since PRIV PCE last used in shortage context. Only valid if PCEFLGCS -> PCEPRIVI.
560	(230)	X'12C'	0	JPCPWAIT	"300" Number of seconds PRIV PCE should wait before going away. During this time no SPOOL shortage was encountered.

Exit 44 data fields (cleared before called exit)

568	(238)	BITSTRING	1	JPCEFLG1	Exit 44 flag byte
		1...		JPCE1CLS	"B'10000000" Exit set class

Table 98. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		JPCE1SCH	"B'01000000'" Exit set SCHENV
		..1.		JPCE1CLP	"B'00100000'" Policy set class
569	(239)	BITSTRING	3		Reserved
572	(23C)	CHARACTER	8	JPCEXCLS	Exit 44 set Job class
580	(244)	CHARACTER	8	JPCEXJCS	Exit 44 saved JCT job class
588	(24C)	CHARACTER	16	JPCEXSCH	Exit 44 set SCHENV
588	(24C)	X'238'	0	JPCEX44D	"JPCEFLG1,*-JPCEFLG1" Field to clear exit 44 data
Fields to resolve circular WITH= dependency					
588	(24C)	X'A'	0	JPCWTHFF	"10" WITH= fan-out factor
604	(25C)	SIGNED	4	JPCWTHNR	WITH= names in array
608	(260)	BITSTRING	1	JPCWTHAR	WITH= names array
608	(260)	X'260'	0	JPCWTHCN	"JPCWTHAR,8,C'C'" 1st name in array
688	(2B0)	DBL WORD	8	(0)	Alignment
688	(2B0)	X'160'	0	JPCELEN	"*-PCEWORK" LENGTH OF PROCESSOR WORK SPACE

Table 99. Cross Reference for \$CNVWORK

Name	Offset	Hex Tag
JPCECAT	200	
JPCECECB	150	
JPCECIP	1FC	
JPCECLAS	169	
JPCECTIE	228	
JPCEDETE	174	
JPCEDUPL	168	80
JPCEFLG1	238	
JPCEHJOB	168	40
JPCEJCTA	178	
JPCEJCTK	188	
JPCELEN	2B0	160
JPCELST	1A3	194
JPCENCWT	168	10
JPCEPARM	194	
JPCEPRFS	218	
JPCEPRIO	171	
JPCEPSTA	228	218
JPCEQTIM	218	
JPCERTIM	220	
JPCESCHE	1A5	
JPCESCHH	1B5	

Table 99. Cross Reference for \$CNVWORK (continued)

Name	Offset	Hex Tag
JPCESCHJ	1C5	
JPCESQD	204	
JPCESTAT	168	
JPCETQE	17C	
JPCETTKN	208	
JPCEXCLS	23C	
JPCEXJCS	244	
JPCEXPLA	190	
JPCEXRSP	1A4	
JPCEXSCH	24C	
JPCEX44D	24C	238
JPCE1CLP	238	20
JPCE1CLS	238	80
JPCE1SCH	238	40
JPCGRIP	1E0	
JPCGROUP	1E8	
JPCJQEA	1D8	
JPCPRTIM	230	0
JPCPWAIT	230	12C
JPCWTHAR	260	
JPCWTHCN	260	260
JPCWTHFF	24C	A
JPCWTHNR	25C	
PCE	0	

\$COMWORK information

\$COMWORK programming interface information

The following field is **NOT** programming interface information:

- COMMLTEA

\$COMWORK heading information

Common name:	JES2 Command PCE Work Area
Macro ID:	\$COMWORK
DSECT name:	PCE (\$COMWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4

Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol COMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$COMMPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Command Processor and by its support routines and exits. \$COMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$COMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECONID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$COMWORK mapping

Table 100. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
SPOOL MASK WORK AREA - USED WITH V=VOLSER OPERAND					
336	(150)	BITSTRING	1	COMSPMSK	VOLUME SERIAL MASK
SECURITY RELATED TOKEN OF ISSUER OF COMMAND					
368	(170)	CHARACTER	80	COMSECT	SECURITY TOKEN
448	(1C0)	ADDRESS	4	COMSQD	ADDRESS OF SQD OR ZERO
452	(1C4)	BITSTRING	1	COMFLAG2	Second CMB flag (CMBFLAG2)
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	ADDRESS	4	COMPXEQ	DOM id for \$P XEQ
Address of the first character in the field pointed to by PCENTITY beyond the sub-system name and its trailing period. If our sub-system name is JES2, then this address will be 5 greater than PCENTITY.					
460	(1CC)	SIGNED	4	COMENTBG	See above comment box
Parameters for IEAVM173 (WPL message extract service)					
464	(1D0)	ADDRESS	4	COMMLTEA	Address of MLTE
468	(1D4)	CHARACTER	1	COMMLTE	WPL message extract pairs
List form of the \$WTO parameter list. The following fields must match those defined in the CMB starting at CMBWTOPL.					

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
516	(204)	SIGNED	4	COMWTOPL(0)	START OF WTO PARAMETERS
516	(204)	CHARACTER	1	COMFLAG	FLAGS FOR CMB
517	(205)	CHARACTER	1	COMLEVEL	LIST LEVEL AND PRIORITY
518	(206)	CHARACTER	1	COMTYPE	FORMAT TYPE
519	(207)	CHARACTER	1	COMML	LENGTH OF MESSAGE
520	(208)	SIGNED	4	(0)	
520	(208)	ADDRESS	3	COMTO(0)	TO SYSTEM NODE INFORMATION
520	(208)	SIGNED	2	COMTONOD	NODE NUMBER (BINARY)
522	(20A)	BITSTRING	1	COMTOQUL	NODE QUALIFIER
523	(20B)	BITSTRING	1	COMFLAG3	CMB General flag byte 3
524	(20C)	CHARACTER	8	COMCART	COMMAND AND RESPONSE TOKEN
532	(214)	CHARACTER	1	COMUCM	FOR DOWN LEVEL COMPATIBILITY
533	(215)	CHARACTER	1	COMUCMA	MCS CONSOLE AREA
534	(216)	CHARACTER	2	COMLINET	LINE TYPE FOR MLWTO
536	(218)	CHARACTER	4	COMUCMID	4-BYTE MCS CONSOLE ID
540	(21C)	CHARACTER	2	COMDESC	MCS DESCRIPTOR CODES
542	(21E)	CHARACTER	2	COMROUT	MCS ROUTE CODES
544	(220)	CHARACTER	4	COMDOMID	MCS DOM ID
548	(224)	SIGNED	2	COMRMT	REMOTE NUMBER
550	(226)	CHARACTER	8	COMUSER	TSO USER ID
550	(226)	X'2A'	0	COMWTOLG	"*-COMWTOPL" LENGTH OF WTO PARM LIST
558	(22E)	ADDRESS	2	(0)	Verify that lengths of
558	(22E)	ADDRESS	2	(0)	parameter lists are OK
558	(22E)	BITSTRING	2		Reserved
560	(230)	DBL WORD	8	(0)	Align
560	(230)	BITSTRING	16	COMSTRT	Time command started
FUNCTION WORK SPACE					
576	(240)	CHARACTER	4	COMINCON	SOURCE CONSOLE UCMID
580	(244)	CHARACTER	1	COMAUTH	SOURCE CONSOLE AUTHORITY
581	(245)	CHARACTER	8	COMACEID	AUTOMATIC COMMAND ELEMENT ID
589	(24D)	BITSTRING	3		Reserved
592	(250)	SIGNED	4	COMJROUT(0)	JOB QUEUING ROUTE CODE FROM CMB (BINARY)
592	(250)	SIGNED	2	COMJNOD	NODE ID
594	(252)	SIGNED	2	COMJRMT	REMOTE ID
596	(254)	SIGNED	4	COMJSCAT	SAVE AREA FOR \$CFJSCAN CAT
600	(258)	ADDRESS	4	COMCRQ	Command request block head
604	(25C)	SIGNED	4	COMWORK	SINGLE PRECISION WORK AREA
608	(260)	DBL WORD	8	COMDWORK	DOUBLE PRECISION WORK AREA
616	(268)	DBL WORD	8	COMWREGS(2)	REGISTER SAVE AREA
632	(278)	SIGNED	4	COMFWORK	FULL WORD WORK AREA
636	(27C)	ADDRESS	1	COMBWORK	ONE BYTE WORK AREA
637	(27D)	BITSTRING	1	COMGFLG1	GENERAL FLAG BYTE
	1...			COMG1APO	"B'10000000'" APOSTROPHE SWITCH IS ON
	.1..			COMG1REQ	"B'01000000'" CMB MUST BE REQUESTED

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
EQU B'00100000' Reserved					
EQU B'00010000' Reserved					
		.... 1...		COMG1SSI	"B'00001000'" SSI FORMATTED COMMAND
		.... .1..		COMG1\$MN	"B'00000100'" \$M/\$N command found
		.... ..1.		COMG1UAC	"B'00000010'" Unauthorized console
EQU B'00000001' Reserved					
638	(27E)	BITSTRING	1	COMGFLG2	Command level general flag
639	(27F)	BITSTRING	1	COMGFLG3	More general flags (Cleared at HASPCOME)
		1...		COMG3ECH	"B'10000000'" Command has been echoed
640	(280)	SIGNED	2	COMLCCA	FLAGS AND AREA OF ' L='
		.... ..11		COMFFLGJ	"B'00000011'" BATCH JOB TYPE WHEN ZEROES
		.... ...1		COMFFLGS	"B'00000001'" STC JOB TYPE
		.... ..1.		COMFFLGT	"B'00000010'" TSU JOB TYPE
642	(282)	CHARACTER	10	COMCONNM	SYMBOLIC CONSOLE NAME AND OUT-OF-LINE AREA
COMMAND EDIT ROUTINE FLAGS					
642	(282)	X'25E'	0	COMLFLG	"COMWORK+2" FLAG BYTE
642	(282)	X'1'	0	COMLFLGR	"1" UCM CMD FROM REMOTE SYSTEM
642	(282)	X'2'	0	COMLFLGC	"2" CONSOLE HAS BEEN SPECIFIED
642	(282)	X'4'	0	COMLFLGA	"4" AREA HAS BEEN SPECIFIED
COMMAND INPUT PASSED TO \$SCAN					
652	(28C)	CHARACTER	132	COMINPUT	COMMAND INPUT PASSED TO \$SCAN
784	(310)	SIGNED	4	COMSDLCT	COUNT OF \$SCAN DISPLAY LINES
788	(314)	SIGNED	4	COMTDLCT	Count of total lines displayed for commands partially implemented via \$SCAN
792	(318)	ADDRESS	4	COMSTAB	Address of \$SCANTAB related to command
COMMAND TEXT AREA					
796	(31C)	CHARACTER	2	COMMID	MESSAGE ID
798	(31E)	CHARACTER	1024	COMMAND	COMMAND AND MESSAGE AREA
798	(31E)	X'31F'	0	COMVERB	"COMMAND+1" LOCATION OF COMMAND VERB
798	(31E)	X'320'	0	COMOPRND	"COMMAND+2" LOCATION OF FIRST OPERAND
798	(31E)	X'3E6'	0	COMSAFL	"COMMAND+200,1" Length and command image
798	(31E)	X'3E7'	0	COMSAFC	"COMSAFL+1,150" for \$SEAS CMDAUTH call
1822	(71E)	CHARACTER	8	COMJNAME	MESSAGE AREA EXTENSION/JOBNAME
1830	(726)	CHARACTER	8	COMPRVCM	Start of previous command
1838	(72E)	CHARACTER	132	COMCURCM	Mirror of Command
1970	(7B2)	SIGNED	2	COMMNDLN	Length of data in COMCURCM
1972	(7B4)	ADDRESS	4	COMXWCA	Address of CXWC DSECT

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1976	(7B8)	ADDRESS	4		Reserved
OPERAND POINTER AREA					
1980	(7BC)	SIGNED	4	COMPNTER(20)	AREA FOR OPERAND POINTERS
1980	(7BC)	X'50'	0	COMPNTRL	"*-COMPNTER" Length of operand ptr area
2060	(80C)	ADDRESS	2	(0)	Force assembly error IF AREA TOO SMALL FOR USE BY \$DM
2060	(80C)	SIGNED	4	COMMULOP	NULL OPERAND
2064	(810)	BITSTRING	20	COMPINDX	COMPNTER/CDUTABLE INDEX BYTES
2084	(824)	SIGNED	4	(0)	
2084	(824)	SIGNED	4		Reserved
2088	(828)	SIGNED	4	COMOPFLG	Operand flags
COMREGSV is used by HASPCOMM for a \$SCAND buffer when it calls SCAN. 64 bytes are used.					
2092	(82C)	BITSTRING	248	COMREGSV	REGISTER SAVE/WORK AREA
COFRTR work area for route code ranges					
2340	(924)	BITSTRING	18	COMRWORK	WORK AREA FOR SUBMITTING EBCDIC ROUTES TO \$DEST/USERDEST
2358	(936)	BITSTRING	1	COMRFLG1	FLAG BYTE FOR ROUTECODES
	.1..			COMR1GNC	"B'01000000'" Indicates the userid in COMUWORK contains a least one generic character
	..1.			COMR1UNN	"B'00100000'" INDICATES WHETHER OR NOT SPECIAL LOCAL ROUTING IS INCLUDED IN RANGE
	...1			COMR1RAL	"B'00010000'" Indicates that route code ranges are allowed
	.... 1...			COMR1DFT	"B'00001000'" INDICATES COMREGSV+2 IS TO BE USED FOR THE DEFAULT NODE INSTEAD OF COMJNOD
	.... .1..			COMR1GEN	"B'00000100'" INDICATES WHETHER OR NOT A GEN. USERID IS ALLOWED
	.... ..1.			COMR1GNA	"B'00000010'" Indicates that a generic userid was specified, implicitly or explicitly on first dest in range
	.... ...1			COMR1RPR	"B'00000001'" INDICATES ROUTECODE CONTAINED (
2359	(937)	BITSTRING	1		RESERVED FOR FUTURE USE
2360	(938)	CHARACTER	8	COMUWORK	HI-END USERID FROM \$DEST
2360	(938)	X'0'	0	COMNODE	"0,2,C'H'" Offset/length of node
2360	(938)	X'2'	0	COMRMTE	"2,2,C'H'" Offset/length of rmt
2360	(938)	X'4'	0	COMUSEID	"4,8,C'D'" Offset/length of userid
2360	(938)	X'8'	0	COMUCNT	"8" COUNTER FOR EXAMINING GENERIC USERIDS
2368	(940)	BITSTRING	1		Reserved
More flag bytes					
2369	(941)	BITSTRING	1	COMSFLG1	Flag byte for specific cmds

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		COMS1WT	"B'10000000'" Waited 1 sec in \$PJES2 for system to quiesce
		.... 1...		COMS1RTS	"B'00001000'" \$T RMT switched BSC<--->SNA
		.... .1..		COMS1MAX	"B'00000100'" Maximum hi range specified
		.... ...1		COMS1RBD	"B'00000001'" Include rebuild queue in job scan
2370	(942)	BITSTRING	1	COMSTABP	COMPCE id from STAB
2371	(943)	BITSTRING	1		Reserved for future use
\$CFSEL macro/service routine communication area					
2372	(944)	ADDRESS	4	COMSCOTE	Address of current entry in operand pointer table
2376	(948)	ADDRESS	4	COMSRTNA	Address of selected routine (or zero if no match)
2380	(94C)	SIGNED	4	COMSSLEN	Length of matching string (or zero if no match)
2384	(950)	SIGNED	4	COMSRLen	Residual operand length (or input operand length if no match)
Area for specifications for filter type operands					
2388	(954)	CHARACTER	8	COMJNAM	STORE OUTPUT JOE NAME
2396	(95C)	SIGNED	2	COMJID1	STORE OUTPUT JOE 1ST ID
2398	(95E)	SIGNED	2	COMJID2	STORE OUTPUT JOE 2ND ID
\$TO AND \$R WORK AREA FOR JOES					
2400	(960)	SIGNED	4	(0)	Word alignment
2400	(960)	ADDRESS	4	COMJOAA	Address of JOA
2404	(964)	BITSTRING	1	COMLTFLG	Flag byte for \$L and \$TO
		1... ..		COMLTMAX	"B'10000000'" DISPMAX reached for current set of \$HAS686 msgs
Field needed for \$CFJSCAN Processing					
2405	(965)	BITSTRING	2		Reserved for future use
2407	(967)	BITSTRING	1	COMQUE	Requested Queue
Free JOE work area					
2408	(968)	SIGNED	4	COMFJOEL	Indx of lowest JOE to free
2412	(96C)	SIGNED	4	COMFJOEH	Indx of highest JOE to free
2412	(96C)	X'968'	0	COMFJOEW	"COMFJOEL,*-COMFJOEL,C'F'" Composite field
Work area to hold system affinity mask for commands that allow multiple system affinities to be specified. eg. \$DA, \$T ALL, \$T RDR/I, \$T OFF(n).JR/JT \$T J/S/T					
2416	(970)	BITSTRING	4	COMAFMSK	System affinity mask
2420	(974)	BITSTRING	1	COMOSAFM	Old system affinity mask
ENQ/DEQ parameter lists MACRO-DATE = 03/16/15					

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2424	(978)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2424	(978)	X'978'	0	COMDRNQ	"*" X02113
2424	(978)	ADDRESS	1		PELLAST flag byte. X02113
2425	(979)	ADDRESS	1		PELMILEN - RNAME length.
2426	(97A)	BITSTRING	1		
PELFLAG - flag byte 2.					
2427	(97B)	ADDRESS	1		PELRET - return code byte.
2428	(97C)	ADDRESS	4		QNAME ADDRESS
2432	(980)	ADDRESS	4		RNAME ADDRESS
2432	(980)	X'C'	0	COMENQL	"*-COMDRNQ" Length of ENQ
MACRO-DATE = 03/16/2015					
2436	(984)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2436	(984)	X'984'	0	COMDRDQ	"*" X02113
2436	(984)	ADDRESS	1		PELLAST flag byte. X02113
2437	(985)	ADDRESS	1		PELMILEN - RNAME length.
2438	(986)	BITSTRING	1		
PELFLAG - flag byte 2.					
2439	(987)	ADDRESS	1		PELRET - return code byte.
2440	(988)	ADDRESS	4		QNAME ADDRESS
2444	(98C)	ADDRESS	4		RNAME ADDRESS
2444	(98C)	X'C'	0	COMDEQL	"*-COMDRDQ" Length of DEQ
Work area for \$DJ,DELAY command for jobs in a job group					
2448	(990)	SIGNED	4	(0)	Alignment
2448	(990)	BITSTRING	4	COMSYSAF	Job group SYSAFF
2452	(994)	BITSTRING	4	COMSCHAF	Job group SCHENV aff mask
2456	(998)	BITSTRING	4	COMSCLAF	Job group SECLABEL aff mask
2460	(99C)	BITSTRING	1	COMLGFG1	Logging job JQEFLAG1
2461	(99D)	BITSTRING	1	COMSRSN	Delay reason of conc set
2462	(99E)	BITSTRING	2		Reserved
2464	(9A0)	SIGNED	4	COMBLDM(0)	Control block ID
2468	(9A4)	BITSTRING	4		Console ID
2472	(9A8)	ADDRESS	4		Address of the CART
2476	(9AC)	ADDRESS	4		Pointer for JOBID
2480	(9B0)	ADDRESS	4		Control block address
2484	(9B4)	ADDRESS	4		Display routine address
2488	(9B8)	ADDRESS	4	(6)	6 word work area
2512	(9D0)	ADDRESS	4		Caller's R11 value
2516	(9D4)	BITSTRING	2		ROUT code for Message
2518	(9D6)	BITSTRING	2		Not used
2520	(9D8)	CHARACTER	4		Message ID
2524	(9DC)	CHARACTER	1		Separator character

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2525	(9DD)	ADDRESS	1		Flag byte 1
2526	(9DE)	ADDRESS	1		'DISPER'
2527	(9DF)	ADDRESS	1		Flag byte 2
2528	(9E0)	ADDRESS	1		Flag byte 3
2529	(9E1)	ADDRESS	1		Severity of message
2530	(9E2)	CHARACTER	8		Symbolic name of dest.
2538	(9EA)	BITSTRING	14		Not used
2552	(9F8)	ADDRESS	4	(0)	Ensure multiple of 4
2552	(9F8)	ADDRESS	2	(0)	
2552	(9F8)	ADDRESS	4	COMPCNV	DOM id for \$P CNVT
2556	(9FC)	SIGNED	4		Reserved
2556	(9FC)	X'8B0'	0	COMMAXL	"*-PCEWORK" Maximum length of COMWORK
Beginning of remappings of existing areas. SUBSYSTEM-INDEPENDENT (SSI) FORMATTED COMMAND AREA					
2092	(82C)	BITSTRING	40	COMFCMDA(0)	FORMATTED COMMAND AREA
2092	(82C)	CHARACTER	1	COMFOP	FORMATTED COMMAND OPTION CODE
2093	(82D)	CHARACTER	1	COMFFLG	FORMATTED COMMAND FLAG BYTE
2094	(82E)	SIGNED	2	COMFJID	JOB IDENTIFICATION
2096	(830)	CHARACTER	8	COMFORGN	ORIGINATING NODE NAME
2104	(838)	CHARACTER	8	COMFJNAM	JOB NAME
2112	(840)	CHARACTER	8	COMFD	DESTINATION NODE NAME (ROUTE CMD)
2120	(848)	CHARACTER	8	COMFR	REMOTE NAME (ROUTE CMD)
2128	(850)	SIGNED	4	COMFJNO	Job number identifier
2128	(850)	X'854'	0	COMFEND	"*" END OF FORMATTED COMMAND AREA
2128	(850)	X'28'	0	COMFL	"*-COMFOP" LENGTH OF FORMATTED CMD AREA
2132	(854)	ADDRESS	2	(0)	Ensure area fits within COMREGSV
SSI FORMATTED CMD WORKAREA (USED BY HASPCFCP)					
1980	(7BC)	CHARACTER	80	COSIWORK(0)	
1980	(7BC)	BITSTRING	40	COSICMDA(0)	FORMATTED COMMAND AREA
1980	(7BC)	CHARACTER	1	COSIOP	FORMATTED COMMAND OPTION CODE
1981	(7BD)	CHARACTER	1	COSIFLG	FLAG BYTE (SEE COMFFLG DEF.)
1982	(7BE)	SIGNED	2	COSIJID	JOB IDENTIFICATION
1984	(7C0)	CHARACTER	8	COSIORGN	ORIGINATING NODE NAME
1992	(7C8)	CHARACTER	8	COSIJNAM	JOB NAME
2000	(7D0)	CHARACTER	8	COSID	DESTINATION NODE NAME (ROUTE CMD)
2008	(7D8)	CHARACTER	8	COSIR	REMOTE NAME (ROUTE CMD)
2016	(7E0)	SIGNED	4	COSIJNO	Job number identifier
2016	(7E0)	X'7E4'	0	COSIEND	"*" END OF FORMATTED COMMAND AREA
2016	(7E0)	X'28'	0	COSIL	"*-COSICMDA" LENGTH OF FORMATTED CMD AREA
2020	(7E4)	SIGNED	4	COSILINK	USED TO SAVE LINK REGISTER
2024	(7E8)	SIGNED	4	COSIJQER	USED TO SAVE PTR TO JQE
2028	(7EC)	SIGNED	4	COSISAV0	USED TO SAVE R0 CONTENTS

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2032	(7F0)	SIGNED	2	COSINOD#	ORIGINATING NODE # (BINARY)
2034	(7F2)	CHARACTER	1	COSIEFOP	EFFECTIVE CMD OPTION CODE
2035	(7F3)	BITSTRING	1		RESERVED FOR FUTURE USE
2035	(7F3)	X'38'	0	COMSIL	"*-COSIWORK" Length of this remapping
2036	(7F4)	ADDRESS	2	(0)	Ensure area fits within COMPNTER
COMFOP DEFINITIONS					
2036	(7F4)	X'1'	0	COMFOPD	"1" DISPLAY JOB COMMAND (\$GD)
2036	(7F4)	X'2'	0	COMFOPC	"2" CANCEL JOB COMMAND (\$GC)
2036	(7F4)	X'3'	0	COMFOPA	"3" RELEASE JOB COMMAND (\$GA)
2036	(7F4)	X'4'	0	COMFOPH	"4" HOLD JOB COMMAND (\$GH)
2036	(7F4)	X'5'	0	COMFOPR	"5" ROUTE JOB COMMAND (\$GR)
COMFFLG DEFINITIONS					
		1...		COMFFLG0	"B'10000000'" A) FOR COMFOPC (\$GC) COMMAND - CANCEL OUTPUT AS OPPOSED TO EXECUTION B) FOR COMFOPR (\$GR) COMMAND - ROUTE OUTPUT AS OPPOSED TO EXECUTION
		.1..		COMFFLGD	"B'01000000'" CANCEL EXECUTION WITH A DUMP
		..1.		COMFFLGN	"B'00100000'" COSIFJNO is job number
\$R COMMAND WORK AREA					
2092	(82C)	SIGNED	4	CRXWORKA(0)	\$R COMMAND WORK AREA
2092	(82C)	SIGNED	4	CRXOLDRT	SAVE AREA FOR OLD ROUTECDE
2096	(830)	SIGNED	4	CRXNEWRT	SAVE AREA FOR NEW ROUTECDE
2100	(834)	SIGNED	4	CRXCLSPT	SAVE AREA FOR CLASS PTR
2104	(838)	SIGNED	4	CRXJBNUM	SAVE AREA FOR JOB NUMBER
2108	(83C)	BITSTRING	1	CRXOUTD	OUTDISP PROCESSING FLAGS
		1...		CRXODLST	"B'10000000'" PARENTHEZIZED OPERAND LIST CURRENTLY BEING PROCESSED
2108	(83C)	X'8'	0	CRXODW	"\$ODWRITE" PROCESS OUTDISP=WRITE
2108	(83C)	X'4'	0	CRXODH	"\$ODHOLD" PROCESS OUTDISP=HOLD
2108	(83C)	X'2'	0	CRXODK	"\$ODKEEP" PROCESS OUTDISP=KEEP
2108	(83C)	X'1'	0	CRXODL	"\$ODLEAVE" PROCESS OUTDISP=LEAVE
2108	(83C)	X'F'	0	CRXODANY	"\$ODANY" ANY OUTDISP SETTINGS
2109	(83D)	BITSTRING	1	CRXFLAG1	\$R command flag byte
		1...		CRX1GENC	"B'10000000'" CRXOLDUS contains generic characters ('*' or '?')
2110	(83E)	BITSTRING	37	CRXCLASL	Q= CLASS LIST (36 + BLANK)
2148	(864)	SIGNED	4	(0)	FULL WORD ALIGNMENT
2148	(864)	CHARACTER	8	CRXOLDUS	SAVE AREA FOR OLD ROUTE CD
2156	(86C)	CHARACTER	8	CRXNEWUS	SAVE AREA FOR NEW ROUTE CD
2164	(874)	CHARACTER	8	CRXNEWND	SAVE AREA FOR NEW NODE NAME
2164	(874)	X'50'	0	CRXLLEN	"*-CRXWORKA" LENGTH OF \$R WORK AREA
2172	(87C)	ADDRESS	2	(0)	CHECK FOR OVERLAP

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Flag byte for PREJOE, PREJQE and PSTCFVQE					
2192	(890)	BITSTRING	1	CRJFLAG	Flags for JOE/JQE commands
2192	(890)	X'65'	0	CRJLEN	"*-COMREGSV" Length of remapped area
2194	(892)	ADDRESS	2	(0)	Check for overlap
Flag definitions for CRJFLAG					
		1...		CRJFLGCF	"B'10000000'" PSTCFVQE has been invoked
DISPLAY UNIT FLAG DEFINITIONS					
2194	(892)	X'828'	0	CDUFLAG1	"COMOPFLG" CDUFLAG1 DEFINITION
		1...		CDUFLGRP	"B'10000000'" GROUP DISPLAY REQUEST
		11..		CDUFLTYP	"B'11000000'" TYPE-GROUP DISPLAY REQ
		..1.		CDUFLRMT	"B'00100000'" REMOTE SUB-DISPLAY REQ
		...1		CDUFLRAT	"B'00010000'" RAT BASED DISPLAY REQ
		.... 1...		CDUFLONE	"B'00001000'" SINGLE DCT DISPLAY REQ
		.... .1..		CDUFLCLS	"B'00000100'" DCT CLASS SKIP REQUEST
		.... ..1.		CDUFLLU	"B'00000010'" SNA LUNAME SUBDISPLAY
		.... ...1		CDUFLMOD	"B'00000001'" MODIFIER OPERAND ONLY
2194	(892)	X'829'	0	CDUDEVTP	"COMOPFLG+1" TYPE-GROUP DCT TYPE
2194	(892)	X'82A'	0	CDUMASK	"COMOPFLG+2" BRANCH MASK VALUE
2194	(892)	X'82B'	0	CDUFLAG2	"COMOPFLG+3" CDUFLAG2 DEFINITION
		1...		CDUFLSUB	"B'10000000'" RMT SUB-DSPLY IN PROGR
		.1..		CDUFLONG	"B'01000000'" FORCE LONG DISPLAY
		..1.		CDUFLFND	"B'00100000'" DEVICE FOUND IN DSPLY
		...1		CDUFLOPR	"B'00010000'" NON-MODIFIER OPERANDS
		.... 1...		CDUFLACT	"B'00001000'" ACTIVE ONLY MODIFIER
		.... .1..		CDUFLSTR	"B'00000100'" STARTED ONLY MODIFIER
		.... ..1.		CDUFLSHT	"B'00000010'" SHORT MODIFIER
		.... ...1		CDUFXSUB	"B'00000001'" XFR SUB-DISPLAY
2194	(892)	X'82C'	0	CDUDEVN	"COMREGSV,12" Device name for \$DU
Definitions for HASP608 job information message OPT= operand of the \$CFJMSG macro.					
		.... ...1		COFN	"X'01'" DISPLAY NORMAL JOBS
		.... ..1.		COFS	"X'02'" DISPLAY SYSTEM JOBS
		.... .1..		COFT	"X'04'" DISPLAY LOGON JOBS
2194	(892)	X'7'	0	COFJ	"COFN+COFS+COFT" DISPLAY ALL JOBS
		.... 1...		COFX	"X'08'" DISPLAY JOBS IN EXECUTION
		...1		COFD	"X'10'" DISPLAY JOBS ON DEVICES
2194	(892)	X'1F'	0	COFA	"COFJ+COFX+COFD" DISPLAY ACTIVE JOBS
		..1.		COFI	"X'20'" DISPLAY PRE-XEQ QUEUED JOBS
		.1..		COFO	"X'40'" DISPLAY POST-XEQ QUEUED JOBS
		1...		COFP	"X'80'" DISPLAY QUEUED FOR PRT/PUN

Table 100. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2194	(892)	X'E7'	0	COFQ	"COFJ+COFI+COFO+COFP" DISPLAY QUEUED JOBS
2194	(892)	X'FF'	0	COFU	"COFJ+COFI+COFO+COFX+COFP+COFD" DISPLAY UNCONDITIONAL
Definitions for HASP608 job information message OPT2= operand of the \$CFJMSG macro.					
	....	...1		COFLNGFG	"B'00000001" LONG OPERAND SPECIFIED FLAG
	....	...1.		COFPREFX	"B'00000010" SPOOL PREFIX ALREADY PRINTED
Define the COMMAND work area for use building the job related display messages. Define the fixed message start.					
2194	(892)	X'31E'	0	COFJOB	"COMMAND,3" TEXT 'JOB', 'STC', OR 'TSU'
2194	(892)	X'321'	0	COFJNO	"COFJOB+3,5" JOB NUMBER WITH LEADING BLANK
2194	(892)	X'327'	0	COFJNAME	"COFJNO+6,8" JOB NAME
Define the 2nd field - queue and/or activity info.					
2194	(892)	X'330'	0	COFQUE	"COFJNAME+9,8" TEXT 'AWAITING'
2194	(892)	X'700'	0	COFOPT	"COMMAND+L'COMMAND-30,1" OPTION SPECIFIED
2194	(892)	X'701'	0	COFNULL	"COFOPT+1,1" Place holder for COFAFF
2194	(892)	X'702'	0	COFOPT2	"COFNULL+1,1" 2ND OPTION FLAG
2194	(892)	X'703'	0	COFSECF	"COFOPT2+1,4" SECURITY FIELD FOR \$WTO'S
2194	(892)	X'707'	0	COFLNGTH	"COFSECF+4,2" LENGTH OF MSG
2194	(892)	X'3EB'	0	COFSIZE	"COFLNGTH+L'COFLNGTH-COFJOB" Size of work area
2194	(892)	CHARACTER	1	(0)	Ensure work area fits within COMMAND field
2194	(892)	X'974'	0	COFAFF	"COMOSAFM" System affinity mask
2194	(892)	X'970'	0	COFAFWRK	"COMAFMSK" Affinity mask work area
Determine maximum length of the COMM PCE work area by ORGing back to the start of the variable section (PCEWORK) and accounting for the largest definition of \$COMWORK.					
336	(150)	BITSTRING	2224		Account for largest section
2560	(A00)	SIGNED	4	(0)	Ensure full-word align
2560	(A00)	X'8B0'	0	COMPCEWS	"*-PCEWORK" LENGTH OF WORK AREA

Table 101. Structure COMREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	COMREQ	Command Request block DSECT
0	(0)	CHARACTER	4	CRQID	Eyecatcher
4	(4)	ADDRESS	4	CRQNEXT	Next request on queue
8	(8)	BITSTRING	42	CRQWTOPL	Long WTO parm list
50	(32)	BITSTRING	82	CRQSECT	Security token

Table 101. Structure COMREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
132	(84)	SIGNED	4	(0)	Set alignment
132	(84)	CHARACTER	4	CRQINCON	Input console UCMID
136	(88)	CHARACTER	1	CRQAUTH	Input console authority
137	(89)	BITSTRING	1	CRQGFLG1	General flag byte
138	(8A)	BITSTRING	1	CRQFLAG2	Second CMB flag
139	(8B)	BITSTRING	1		Reserved
140	(8C)	SIGNED	4	CRQJROUT	Route code from CMB
144	(90)	SIGNED	2	CRQLCCA	Flags and area of 'L=CCA'
146	(92)	SIGNED	2	CRQCMDLN	Command length
148	(94)	CHARACTER	10	CRQCONNM	Symbolic console name/area
158	(9E)	BITSTRING	2		Reserved
160	(A0)	CHARACTER	132	CRQCMD	Command
292	(124)	SIGNED	4	CRQPNTER(21)	Area for operand pointers
376	(178)	SIGNED	4	CRQLPTR	Offset of ptr to last oper
376	(178)	X'17C'	0	CRQLEN	"*-COMREQ" Length of request list

Table 102. Cross Reference for \$COMWORK

Name	Offset	Hex Tag
CDUDEVN	892	82C
CDUDEVTP	892	829
CDUFLACT	892	8
CDUFLAG1	892	828
CDUFLAG2	892	82B
CDUFLCLS	892	4
CDUFLFND	892	20
CDUFLGRP	892	80
CDUFLLU	892	2
CDUFLMOD	892	1
CDUFLONE	892	8
CDUFLONG	892	40
CDUFLOPR	892	10
CDUFLRAT	892	10
CDUFLRMT	892	20
CDUFLSHT	892	2
CDUFLSTR	892	4
CDUFLSUB	892	80
CDUFLTYP	892	C0
CDUFXSUB	892	1
CDUMASK	892	82A
COFA	892	1F
COFAFF	892	974

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
COFAFWRK	892	970
COFD	892	10
COFI	892	20
COFJ	892	7
COFJNAME	892	327
COFJNO	892	321
COFJOB	892	31E
COFLNGFG	892	1
COFLNGTH	892	707
COFN	892	1
COFNULL	892	701
COFO	892	40
COFOPT	892	700
COFOPT2	892	702
COFP	892	80
COFPREFX	892	2
COFQ	892	E7
COFQUE	892	330
COFS	892	2
COFSECF	892	703
COFSIZE	892	3EB
COFT	892	4
COFU	892	FF
COFX	892	8
COMACEID	245	
COMAFMSK	970	
COMAUTH	244	
COMBLDM	9A0	C2D3C440
COMBWORK	27C	
COMCART	20C	
COMCONNM	282	
COMCRQ	258	
COMCURCM	72E	
COMDEQL	98C	C
COMDESC	21C	
COMDOMID	220	
COMDWORK	260	
COMENQL	980	C
COMENTBG	1CC	

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
COMWORK	25C	
COMFCMDA	82C	
COMFD	840	
COMFEND	850	854
COMFFLG	82D	
COMFFLGD	7F4	40
COMFFLGJ	280	3
COMFFLGN	7F4	20
COMFFLGO	7F4	80
COMFFLGS	280	1
COMFFLGT	280	2
COMFJID	82E	
COMFJNAM	838	
COMFJNO	850	
COMFJOEH	96C	
COMFJOEL	968	
COMFJOEW	96C	968
COMFL	850	28
COMFLAG	204	
COMFLAG2	1C4	
COMFLAG3	20B	
COMFOP	82C	
COMFOPA	7F4	3
COMFOPC	7F4	2
COMFOPD	7F4	1
COMFOPH	7F4	4
COMFOPR	7F4	5
COMFORGN	830	
COMFR	848	
COMFWORK	278	
COMGFLG1	27D	
COMGFLG2	27E	
COMGFLG3	27F	
COMG1\$MN	27D	4
COMG1APO	27D	80
COMG1REQ	27D	40
COMG1SSI	27D	8
COMG1UAC	27D	2
COMG3ECH	27F	80

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
COMINCON	240	
COMINPUT	28C	
COMJID1	95C	
COMJID2	95E	
COMJNAM	954	
COMJNAME	71E	
COMJNOD	250	
COMJOAA	960	
COMJRMT	252	
COMJROUT	250	
COMJSCAT	254	
COMLCCA	280	
COMLEVEL	205	
COMLFLG	282	25E
COMLFLGA	282	4
COMLFLGC	282	2
COMLFLGR	282	1
COMLGFG1	99C	
COMLINET	216	
COMLTFLG	964	
COMLTMAX	964	80
COMMAND	31E	
COMMAXL	9FC	8B0
COMMID	31C	
COMML	207	
COMMLTE	1D4	
COMMLTEA	1D0	
COMMNDLN	7B2	
COMNODE	938	0
COMNULOP	80C	
COMOPFLG	828	
COMOPRND	31E	320
COMOSAFM	974	
COMPCEWS	A00	8B0
COMPCNV	9F8	
COMPINDX	810	
COMPNTER	7BC	
COMPNTRL	7BC	50
COMPRVCM	726	

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
COMPXEQ	1C8	
COMQUE	967	
COMRDRDQ	984	984
COMRDRNQ	978	978
COMREGSV	82C	
COMREQ	0	
COMRFLG1	936	
COMRMT	224	
COMRMTE	938	2
COMROUT	21E	
COMRWORK	924	
COMR1DFT	936	8
COMR1GEN	936	4
COMR1GNA	936	2
COMR1GNC	936	40
COMR1RAL	936	10
COMR1RPR	936	1
COMR1UNN	936	20
COMSAFC	31E	3E7
COMSAFL	31E	3E6
COMSCHAF	994	
COMSCLAF	998	
COMSCOTE	944	
COMSDLCT	310	
COMSECT	170	
COMSFLG1	941	
COMSIL	7F3	38
COMSPMSK	150	
COMSQD	1C0	
COMSRLEN	950	
COMSRSN	99D	
COMSRTNA	948	
COMSSLEN	94C	
COMSTAB	318	
COMSTABP	942	
COMSTRT	230	
COMSYSAF	990	
COMS1MAX	941	4
COMS1RBD	941	1

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
COMS1RTS	941	8
COMS1WT	941	80
COMTDLCT	314	
COMTO	208	
COMTONOD	208	
COMTOQUL	20A	
COMTYPE	206	
COMUCM	214	
COMUCMA	215	
COMUCMID	218	
COMUCNT	938	8
COMUSEID	938	4
COMUSER	226	
COMUWORK	938	
COMVERB	31E	31F
COMWREGS	268	
COMWTOLG	226	2A
COMWTOPL	204	
COMXWCA	7B4	
COSICMDA	7BC	
COSID	7D0	
COSIEFOP	7F2	
COSIEND	7E0	7E4
COSIFLG	7BD	
COSIJID	7BE	
COSIJNAM	7C8	
COSIJNO	7E0	
COSIJQER	7E8	
COSIL	7E0	28
COSILINK	7E4	
COSINOD#	7F0	
COSIOP	7BC	
COSIORGN	7C0	
COSIR	7D8	
COSISAV0	7EC	
COSIWORK	7BC	
CRJFLAG	890	
CRJFLGCF	892	80
CRJLEN	890	65

Table 102. Cross Reference for \$COMWORK (continued)

Name	Offset	Hex Tag
CRQAUTH	88	
CRQCMD	A0	
CRQCMDLN	92	
CRQCONNM	94	
CRQFLAG2	8A	
CRQGFLG1	89	
CRQID	0	C3D9D840
CRQINCON	84	
CRQJROUT	8C	
CRQLCCA	90	
CRQLEN	178	17C
CRQLPTR	178	
CRQNEXT	4	
CRQPENTER	124	
CRQSECT	32	
CRQWTOPL	8	
CRXCLASL	83E	
CRXCLSPT	834	
CRXFLAG1	83D	
CRXJBNUM	838	
CRXLEN	874	50
CRXNEWND	874	
CRXNEWRT	830	
CRXNEWUS	86C	
CRXODANY	83C	F
CRXODH	83C	4
CRXODK	83C	2
CRXODL	83C	1
CRXODLST	83C	80
CRXODW	83C	8
CRXOLDRT	82C	
CRXOLDUS	864	
CRXOUTD	83C	
CRXWORKA	82C	
CRX1GENC	83D	80
PCE	0	

\$CPCWORK information

\$CPCWORK programming interface information

\$CPCWORK is a programming interface.

\$CPCWORK heading information

Common name:	CPOOL Query Cell Work Area Mapping
Macro ID:	\$CPCWORK
DSECT name:	CPCWPARM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPCWSIZE
Created by:	User of the \$CPOOL query cell (QCELL) service
Pointed to by:	Register 0 on entry to the CPQCELL service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use \$CPOOL QCELL service. Information is passed back via this storage.

\$CPCWORK mapping

Table 103. Structure CPCWPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPCWPARM	, CPOOL QCELL Work Mapping
0	(0)	ADDRESS	8	CPCWCELL_64	Cell address (64-bit)
0	(0)	X'4'	0	CPCWCELL	"CPCWCELL_64+4,4,C'A'" 31-bit version
8	(8)	DBL WORD	8	CPCWSTAT_64	Cell status (64-bit)
8	(8)	X'C'	0	CPCWSTAT	"CPCWSTAT_64+4,4,C'F'" 31-bit version
16	(10)	SIGNED	4	CPCWXNUM	Extent number for cell
20	(14)	SIGNED	4	CPCWRC	MVS service return code
24	(18)	SIGNED	4	CPCALET	ALET of cell
24	(18)	X'1C'	0	CPCWSIZE	"*-CPCWPARM" Size of parmlist

\$CPEBE information

\$CPEBE programming interface information

\$CPEBE is a programming interface.

\$CPEBE heading information

Common name:	Cell Pool Extent Block Element
Macro ID:	\$CPEBE
DSECT name:	CPEBE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CPEB' Offset: CPEID-CPEBE Length: 4
Storage attributes:	Subpool: any Key: any Residency: Same as extent storage for cell pool The CPEBE (and the CPEB which follows) must be obtained on a quadword boundary.
Size:	See CPESIZE
Created by:	CPEXPAND Routine in HASCPPOOL (Main Task and User environments)
Pointed to by:	CPEDNEXT field of the \$CPEBE data area CPENEXT field of the \$CPEBE data area CPMCPEBE field of the \$CPMASTR data area CPMCPEDS field of the \$CPMASTR data area
Serialization:	ENQ dueing CPEXPAND
Function:	The \$CPEBE mapping is used to mapped over storage that contains information on Cell Pool extents.

\$CPEBE mapping

Table 104. Structure CPEBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPEBE	Cell Pool Extent Block Elem
0	(0)	CHARACTER	4	CPEID	CPEBE Identifier
4	(4)	BITSTRING	1	CPEVRSN	CPEBE Version
4	(4)	X'1'	0	CPEVNUM	"1" Version number
5	(5)	BITSTRING	1	CPEFLAG1	Flags
		1...		CPE1DISC	"B'10000000" Disconnected extent
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	ADDRESS	8	CPEBXADD	64-bit address of extent
16	(10)	ADDRESS	8	CPENEXT	Address of next CPEBE
24	(18)	ADDRESS	8	CPEBBADR	Address of CPEB/Bit map
32	(20)	DBL WORD	8	CPEBBSIZ	Size of CPEB/Bit map
40	(28)	DBL WORD	8	CPEXXSZ	Size of extent
48	(30)	SIGNED	4	CPEBXNUM	Extent number
52	(34)	SIGNED	4	CPEBMAST	CPMASTR offset in CPINDEX
56	(38)	ADDRESS	8	CPEDNEXT	Next CPEBE on disconnected chain
56	(38)	X'40'	0	CPESIZE	"((*-CPEBE+15)/16)*16" Size of CPEBE rounded to quadword

Table 105. Cross Reference for \$CPEBE

Name	Offset	Hex Tag
CPEBBADR	18	
CPEBBSIZ	20	
CPEBE	0	
CPEBMAST	34	
CPEBXADD	8	
CPEBXNUM	30	
CPEDNEXT	38	
CPEFLAG1	5	
CPEID	0	C3D7C5C2
CPENEXT	10	
CPESIZE	38	40
CPEVNUM	4	1
CPEVRSN	4	
CPEXXSZ	28	
CPE1DISC	5	80

\$CPINDEX information

\$CPINDEX programming interface information

\$CPINDEX is a programming interface.

\$CPINDEX heading information

Common name:	Cell Pool Index table
Macro ID:	\$CPINDEX
DSECT name:	CPINDEX
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CPIX Offset: -8 (in the JES2 CSA storage prefix) Length: L'\$CSBID
Storage attributes:	Subpool: 229 or 231 Key: 1 Residency: Extended private in any address space using JES2 services. One copy is located in ECSA. Virtual and real storage can be anywhere.
Size:	See CPILEN + 8 byte prefix
Created by:	CPINIT routine in HASCPOOL
Pointed to by:	HXBCPIDX field of the HASXB data area CCTCPIDX field of the HCCT data area

Serialization:

Compare and Swap logic will be used to insert a \$CPMASTR element in the pre-defined cell types. For the user-defined cell types, a lock for the \$CPINDEX table must be held before entry can be inserted.

Function:

This table is used to index into the Master Cell Pool Table (\$CPMASTR). It contains index pointers into the \$CPMASTR. Each of the pointer is associated with a Cell Type. Check \$CPLTAB macro invocations for the cell types defined in this macro.
A work cell type can be specified by the caller only in the USER environment. For example, TYPE=ccccc, where ccccc is any alphanumeric character, up to a length of 5 characters.

\$CPINDEX mapping

Table 106. Structure CPINDEX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPINDEX	Cell Pool Index Table
0	(0)	BITSTRING	1	CPIVRSN	CPINDEX Version
0	(0)	X'1'	0	CPIVNUM	"1" Version number
1	(1)	BITSTRING	1	CPILOCK	CPINDEX lock
2	(2)	BITSTRING	1	CPIFLAG1	Flag 1
		1...		CPIEMPTY	"B'10000000'" Empty entry in user area
		.1..		CPI1CSA	"B'01000000'" CSA CPINDEX
3	(3)	BITSTRING	1	CPIFLAG2	Recovery footprints
4	(4)	SIGNED	4	CPISTART(0)	Start of CPLTABS
4	(4)	ADDRESS	4	CPIBAT	BAT CPMASSTR addr, subpool BATPOOL
8	(8)	ADDRESS	4	CPIBSC	BSC CPMASSTR addr, subpool BSCP00L
12	(C)	ADDRESS	4	CPICB	CB CPMASSTR addr, subpool CBP00L
16	(10)	ADDRESS	4	CPICB64	CB64 CPMASSTR addr, subpool 229
20	(14)	ADDRESS	4	CPICDCT	CDCT CPMASSTR addr, location CSA64
20	(14)	X'14'	0	CPICDCT_C	"CPICDCT,4,C'A'" CDCT Common pool equate
24	(18)	ADDRESS	4	CPICDC2	CDC2 CPMASSTR addr, location CSA64
24	(18)	X'18'	0	CPICDC2_C	"CPICDC2,4,C'A'" CDC2 Common pool equate
28	(1C)	ADDRESS	4	CPICDCTQS	CDCTQS CPMASSTR addr, location CSA64
28	(1C)	X'1C'	0	CPICDCTQS_C	"CPICDCTQS,4,C'A'" CDCTQS Common pool equate
32	(20)	ADDRESS	4	CPICDCTRNT	CDCTRNT CPMASSTR addr, location CSA64
32	(20)	X'20'	0	CPICDCTRNT_C	"CPICDCTRNT,4,C'A'" CDCTRNT Common pool equate
36	(24)	ADDRESS	4	CPICID	CID CPMASSTR addr, subpool CIDP00L
40	(28)	ADDRESS	4	CPICKPINFO	CKPINFO CPMASSTR addr, location CSA64
40	(28)	X'28'	0	CPICKPINFO_C	"CPICKPINFO,4,C'A'" CKPINFO Common pool equate
44	(2C)	ADDRESS	4	CPICMB	CMB CPMASSTR addr, subpool CMBP00L
48	(30)	ADDRESS	4	CPICNIT	CNIT CPMASSTR addr, location CSA64

Table 106. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'30'	0	CPICNIT_C	"CPICNIT,4,C'A'" CNIT Common pool equate
52	(34)	ADDRESS	4	CPIDLSJOB	DLSJOB CPMASSTR addr, subpool 229
56	(38)	ADDRESS	4	CPIDRCREQ	DRCREQ CPMASSTR addr, location CSA64
56	(38)	X'38'	0	CPIDRCREQ_C	"CPIDRCREQ,4,C'A'" DRCREQ Common pool equate
60	(3C)	ADDRESS	4	CPIGPQE	GPQE CPMASSTR addr, subpool GPQPPOOL
64	(40)	ADDRESS	4	CPIEVT	EVT CPMASSTR addr, location DATASPACE
64	(40)	X'40'	0	CPIEVT_C	"CPIEVT,4,C'A'" EVT Common pool equate
68	(44)	ADDRESS	4	CPIHASP	HASP CPMASSTR addr, subpool HASPPPOOL
72	(48)	ADDRESS	4	CPIHEDR	HEDR CPMASSTR addr, subpool HEDRPPOOL
76	(4C)	ADDRESS	4	CPIICE	ICE CPMASSTR addr, subpool ICEPPOOL
80	(50)	ADDRESS	4	CPIIRE	IRE CPMASSTR addr, location CSA
80	(50)	X'50'	0	CPIIRE_C	"CPIIRE,4,C'A'" IRE Common pool equate
84	(54)	ADDRESS	4	CPIJQRB	JQRB CPMASSTR addr, location DATASPACE
84	(54)	X'54'	0	CPIJQRB_C	"CPIJQRB,4,C'A'" JQRB Common pool equate
88	(58)	ADDRESS	4	CPILMD	LMD CPMASSTR addr, location CSA64
88	(58)	X'58'	0	CPILMD_C	"CPILMD,4,C'A'" LMD Common pool equate
92	(5C)	ADDRESS	4	CPINAT	NAT CPMASSTR addr, location DATASPACE
92	(5C)	X'5C'	0	CPINAT_C	"CPINAT,4,C'A'" NAT Common pool equate
96	(60)	ADDRESS	4	CPIB32K	B32K CPMASSTR addr, subpool B32KPPOOL
100	(64)	ADDRESS	4	CPINMAP	NMAP CPMASSTR addr, subpool NMAPPPOOL
104	(68)	ADDRESS	4	CPINSA	NSA CPMASSTR addr, subpool NSAPPOOL
108	(6C)	ADDRESS	4	CPINTQ	NTQ CPMASSTR addr, subpool NTQPPOOL
112	(70)	ADDRESS	4	CPIPAGE	PAGE CPMASSTR addr, subpool PAGEPPOOL
116	(74)	ADDRESS	4	CPIPCL	PCL CPMASSTR addr, location DATASPACE
116	(74)	X'74'	0	CPIPCL_C	"CPIPCL,4,C'A'" PCL Common pool equate
120	(78)	ADDRESS	4	CPIPP	PP CPMASSTR addr, subpool PPPPOOL
124	(7C)	ADDRESS	4	CPIPSO	PSO CPMASSTR addr, location DATASPACE
124	(7C)	X'7C'	0	CPIPSO_C	"CPIPSO,4,C'A'" PSO Common pool equate
128	(80)	ADDRESS	4	CPIPAD	PAD CPMASSTR addr, location DATASPACE
128	(80)	X'80'	0	CPIPAD_C	"CPIPAD,4,C'A'" PAD Common pool equate
132	(84)	ADDRESS	4	CPIRNT	RNT CPMASSTR addr, subpool RNTPPOOL
136	(88)	ADDRESS	4	CPIRDT	RDT CPMASSTR addr, location DATASPACE
136	(88)	X'88'	0	CPIRDT_C	"CPIRDT,4,C'A'" RDT Common pool equate
140	(8C)	ADDRESS	4	CPISAPID	SAPID CPMASSTR addr, location DATASPACE
140	(8C)	X'8C'	0	CPISAPID_C	"CPISAPID,4,C'A'" SAPID Common pool equate
144	(90)	ADDRESS	4	CPISCWA	SCWA CPMASSTR addr, subpool SCWAPPOOL
148	(94)	ADDRESS	4	CPISCWADSP	SCWADSP CPMASSTR addr, subpool SCWDPOOL

Table 106. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	ADDRESS	4	CPISJIO	SJIO CPMASSTR addr, subpool 230
156	(9C)	ADDRESS	4	CPISMF	SMF CPMASSTR addr, subpool SMFP00L
160	(A0)	ADDRESS	4	CPISQD	SQD CPMASSTR addr, subpool SQDP00L
164	(A4)	ADDRESS	4	CPISTAC	STAC CPMASSTR addr, location DATASPACE
164	(A4)	X'A4'	0	CPISTAC_C	"CPISTAC,4,C'A'" STAC Common pool equate
168	(A8)	ADDRESS	4	CPITBUF	TBUF CPMASSTR addr, location DATASPACE
168	(A8)	X'A8'	0	CPITBUF_C	"CPITBUF,4,C'A'" TBUF Common pool equate
172	(AC)	ADDRESS	4	CPITJEV	TJEV CPMASSTR addr, subpool 229
176	(B0)	ADDRESS	4	CPITRE	TRE CPMASSTR addr, subpool 230
180	(B4)	ADDRESS	4	CPIVTAM	VTAM CPMASSTR addr, subpool VTAMP00L
184	(B8)	ADDRESS	4	CPIWTO	WTO CPMASSTR addr, location DATASPACE
184	(B8)	X'B8'	0	CPIWTO_C	"CPIWTO,4,C'A'" WTO Common pool equate
188	(BC)	ADDRESS	4	CPIXCWELT	XCWELT CPMASSTR addr, subpool 229
192	(C0)	ADDRESS	4	CPIXCWNODE	XCWNODE CPMASSTR addr, subpool 229
196	(C4)	ADDRESS	4	CPIXRQ	XRQ CPMASSTR addr, subpool XRQP00L
200	(C8)	ADDRESS	4	CPIZJC	ZJC CPMASSTR addr, location CSA64
200	(C8)	X'C8'	0	CPIZJC_C	"CPIZJC,4,C'A'" ZJC Common pool equate
204	(CC)	ADDRESS	4	CPIZGLREQ	ZGLREQ CPMASSTR addr, location CSA64
204	(CC)	X'CC'	0	CPIZGLREQ_C	"CPIZGLREQ,4,C'A'" ZGLREQ Common pool equate
208	(D0)	ADDRESS	4	CPIZGLMSG	ZGLMSG CPMASSTR addr, location CSA64
208	(D0)	X'D0'	0	CPIZGLMSG_C	"CPIZGLMSG,4,C'A'" ZGLMSG Common pool equate
212	(D4)	ADDRESS	4	CPIEDSMMSG	EDSMMSG CPMASSTR addr, location CSA64
212	(D4)	X'D4'	0	CPIEDSMMSG_C	"CPIEDSMMSG,4,C'A'" EDSMSG Common pool equate
216	(D8)	ADDRESS	4	CPIB36K	B36K CPMASSTR addr, subpool 229
220	(DC)	ADDRESS	4	CPIENCOBJ	ENCOBJ CPMASSTR addr, subpool 229
224	(E0)	ADDRESS	4	CPISNREQ	SNQREQ CPMASSTR addr, location CSA64
224	(E0)	X'E0'	0	CPISNREQ_C	"CPISNREQ,4,C'A'" SNQREQ Common pool equate
228	(E4)	ADDRESS	4	CPIEVENT	EVENT CPMASSTR addr, subpool 230
228	(E4)	X'E4'	0	CPISTEND	"*-CPISTART" Size of the CPLTABs
228	(E4)	X'E8'	0	CPISTD	"*-CPINDEX" Size of the standard cell types
228	(E4)	X'4'	0	CPIOFLEN	"4" Length of offset field
232	(E8)	SIGNED	4	CPIWSTRT(0)	Start of the work cell types
232	(E8)	ADDRESS	4	CPIWORK(0)	User-defined CPMASSTR's
232	(E8)	X'F10'	0	CPIWLEN	"*-CPIWSTRT" Size of the work cell types
232	(E8)	X'FF8'	0	CPILEN	"4096-\$CSBPRFX" Size of the CPINDEX table

Table 107. Cross Reference for \$CPINDEX

Name	Offset	Hex Tag
CPIBAT	4	
CPIBSC	8	
CPIB32K	60	
CPIB36K	D8	
CPICB	C	
CPICB64	10	
CPICDCT	14	
CPICDCT_C	14	14
CPICDCTQS	1C	
CPICDCTQS_C	1C	1C
CPICDCTRNT	20	
CPICDCTRNT_C	20	20
CPICDC2	18	
CPICDC2_C	18	18
CPICID	24	
CPICKPINFO	28	
CPICKPINFO_C	28	28
CPICMB	2C	
CPICNIT	30	
CPICNIT_C	30	30
CPIDLSJOB	34	
CPIDRCREQ	38	
CPIDRCREQ_C	38	38
CPIEDSMMSG	D4	
CPIEDSMMSG_C	D4	D4
CPIEMPTY	2	80
CPIENCOBJ	DC	
CPIEVENT	E4	
CPIEVT	40	
CPIEVT_C	40	40
CPIFLAG1	2	
CPIFLAG2	3	
CPIGPQE	3C	
CPIHASP	44	
CPIHEDR	48	
CPIICE	4C	
CPIIRE	50	
CPIIRE_C	50	50
CPIJQRB	54	

Table 107. Cross Reference for \$CPINDEX (continued)

Name	Offset	Hex Tag
CPIJQRB_C	54	54
CPILEN	E8	FF8
CPILMD	58	
CPILMD_C	58	58
CPILOCK	1	
CPINAT	5C	
CPINAT_C	5C	5C
CPINDEX	0	
CPINMAP	64	
CPINSA	68	
CPINTQ	6C	
CPIOFLEN	E4	4
CPIPAD	80	
CPIPAD_C	80	80
CPIPAGE	70	
CPIPCL	74	
CPIPCL_C	74	74
CPIPP	78	
CPIPS0	7C	
CPIPS0_C	7C	7C
CPIRDT	88	
CPIRDT_C	88	88
CPIRNT	84	
CPISAPID	8C	
CPISAPID_C	8C	8C
CPISCWA	90	
CPISCWADSP	94	
CPISJIO	98	
CPISMF	9C	
CPISNQREQ	E0	
CPISNQREQ_C	E0	E0
CPISQD	A0	
CPISTAC	A4	
CPISTAC_C	A4	A4
CPISTART	4	
CPISTD	E4	E8
CPISTEND	E4	E4
CPITBUF	A8	
CPITBUF_C	A8	A8

Table 107. Cross Reference for \$CPINDEX (continued)

Name	Offset	Hex Tag
CPITJEV	AC	
CPITRE	B0	
CPIVNUM	0	1
CPIVRSN	0	
CPIVTAM	B4	
CPIWLEN	E8	F10
CPIWORK	E8	
CPIWSTRT	E8	
CPIWTO	B8	
CPIWTO_C	B8	B8
CPIXCWELT	BC	
CPIXCWNODE	C0	
CPIXRQ	C4	
CPIZGLMSG	D0	
CPIZGLMSG_C	D0	D0
CPIZGLREQ	CC	
CPIZGLREQ_C	CC	CC
CPIZJC	C8	
CPIZJC_C	C8	C8
CPI1CSA	2	40

\$CPMASTR information

\$CPMASTR programming interface information

\$CPMASTR is a programming interface.

\$CPMASTR heading information

Common name:	Cell Pool Master Element
Macro ID:	\$CPMASTR
DSECT name:	CPMASTR
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CPMR' Offset: CPMID-CPMASTR Length: 4
Storage attributes:	Subpool: 231 Key: 1 Residency: Extended private
Size:	See CPMSIZE

Created by: CPBUILD Routine in HASCPOOL
(Main Task and User environments)

Pointed to by: The addresses of the \$CPINDEX Table

Serialization: Compare and Swap logic will be used to insert a CPMASSTR element in the JES2 pre-defined cell types. To insert a user-defined cell type, a lock (CPILOCK) must be obtained before the CPMASSTR element for that type can be inserted.

Function: The Cell Pool Master Element contains information on the Cell Pool ID, the size of the cells, the maximum number of cells allowed in this cell pool, etc. See mapping for details.

\$CPMASSTR mapping

Table 108. Structure CPMASSTR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPMASSTR	Cell Pool Master Element
0	(0)	CHARACTER	4	CPMID	CPMASSTR Identifier
4	(4)	BITSTRING	1	CPMVRSN	CPMASSTR Version
4	(4)	X'2'	0	CPMVNUM	"2" Version number
5	(5)	BITSTRING	1	CPMSUBP2	Cell subpool (not JES2 AS)
6	(6)	BITSTRING	1	CPMSUBP	Subpool for storage (set to CPMSUBP2 if build is not done in the JES2 address space).
7	(7)	BITSTRING	1	CPMKEY	Cell Storage Key
8	(8)	SIGNED	4	CPMOFFST	CPINDEX offset for CPMASSTR
12	(C)	CHARACTER	8	CPMTYPE	Cell Type
20	(14)	CHARACTER	8	CPMDSPN	Data space name
28	(1C)	SIGNED	4	CPMCsize	Cell Size
32	(20)	BITSTRING	1	CPMFLAG1	CPMASSTR processing flags
		1... ..		CPM1FALL	"B'10000000" FREEMAIN setup storage
		.1... ..		CPM1ALTP	"B'01000000" Alternate cell pool
		..1.		CPM1REAL	"B'00100000" The real CPMASSTR
		...1		CPM1PRIM	"B'00010000" Primary extent allocated
33	(21)	BITSTRING	1	CPMFLAG2	CPMASSTR pool attribute flag
		1... ..		CPM2CP64	"B'10000000" Storage is above the bar
		.1... ..		CPM2CP31	"B'01000000" Storage is above the line
		..1.		CPM2CP24	"B'00100000" Storage is below the line
		...1		CPM2DSP	"B'00010000" Cell pool in a data space
		.... 1...		CPM2CSA	"B'00001000" Cell pool is in common
		.... .1..		CPM2NCLR	"B'00000100" Don't clear cell storage between uses (up to caller to clear)
		.... ..1.		CPM2RANY	"B'00000010" Real storage can be above

Table 108. Structure CPMAS^{TR} (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		CPM2GDBS	"B'00000001'" Cell Don't have grd bytes
34	(22)	BITSTRING	1	CPMFLAG3	CPMAS ^{TR} data space flags (Flags must be the same as in DSWAIFL2)
		1...		CPM3FPRO	"B'10000000'" FPROT=YES specified
		.1..		CPM3NPRO	"B'01000000'" FPROT=NO specified
		..1.		CPM3MSTR	"B'00100000'" OWNER=MASTER specified
		...1		CPM3CURR	"B'00010000'" OWNER=CURRENT specified
		.... 1...		CPM3AUX	"B'00001000'" OWNER=AUX specified
		.... .1..		CPM3LOCL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		CPM3ALL	"B'00000010'" SCOPE=ALL specified
		.... ...1		CPM3COMM	"B'00000001'" SCOPE=COMMON specified
35	(23)	BITSTRING	1	CPMFLAG4	CPMAS ^{TR} pool attribute flag
		1...		CPM4CLRG	"B'10000000'" Clear storage on GET only
36	(24)	SIGNED	4	CPMGEND(0)	End of general CPMAS ^{TR}
36	(24)	SIGNED	4	CPMLIMIT	Max limit for num of cell
40	(28)	SIGNED	4	CPMPRMSZ	Primary extent size (cells)
44	(2C)	SIGNED	4	CPMSECSZ	Secondary ext size (cells)
44	(2C)	X'30'	0	CPMTSIZE	"*-CPMAS ^{TR} " CPMAS ^{TR} portion that maps over CPLTAB
48	(30)	SIGNED	2	CPMLEN	Length of storage area (Includes CPMAS ^{TR} and a CPAB that follows)
50	(32)	SIGNED	2		Reserved for future use
52	(34)	ADDRESS	4	CPMCPAB	CPAB addr
56	(38)	ADDRESS	4	CPMCPINX	CPINDEX addr
60	(3C)	ADDRESS	4	CPMTCBAD	TCB Address to use with STORAGE OBTAIN
64	(40)	BITSTRING	16	CPMTCBTK	TCB token to use with IARV64
80	(50)	ADDRESS	8	CPMCPEBE	Addr to first CPEBE
88	(58)	ADDRESS	8	CPMCPEDS	Chain of CPEBEs that represent disconnected extents (CDS to modify)
96	(60)	SIGNED	4	CPMALLOC	Num of allocated cells
100	(64)	BITSTRING	8	CPM64TOK	User token for shared 64 pl

The following 3 fields are used if the cell pool is in a data space.

108	(6C)	ADDRESS	4	CPMDSB	DSB address
112	(70)	DBL WORD	8	CPMDSPOL(0)	+++ Dataspace work storage pool
112	(70)	ADDRESS	4	CPMDSSTR	| Addr of available Block of | storage
116	(74)	SIGNED	4	CPMDSLEN	+++ Length of storage block
120	(78)	DBL WORD	8	(0)	Must be a doubleword size
120	(78)	X'78'	0	CPMSIZE	"*-CPMAS ^{TR} " Size of the CPMAS ^{TR}

Table 109. Cross Reference for \$CPMAS^{TR}

Name	Offset	Hex Tag
CPMALLOC	60	

Table 109. Cross Reference for \$CPMASTR (continued)

Name	Offset	Hex Tag
CPMASTR	0	
CPMCPAB	34	
CPMCPEBE	50	
CPMCPEDS	58	
CPMCPINX	38	
CPMCsize	1C	
CPMDSB	6C	
CPMDSLEN	74	
CPMDSPN	14	
CPMDSPOL	70	
CPMDSSTR	70	
CPMFLAG1	20	
CPMFLAG2	21	
CPMFLAG3	22	
CPMFLAG4	23	
CPMGEND	24	
CPMID	0	C3D7D4D9
CPMKEY	7	
CPMLEN	30	
CPMLIMIT	24	
CPMOFFST	8	
CPMPRMSZ	28	
CPMSECSZ	2C	
CPMSIZE	78	78
CPMSUBP	6	
CPMSUBP2	5	
CPMTCBAD	3C	
CPMTCBTK	40	
CPMTSIZE	2C	30
CPMTYPE	C	
CPMVNUM	4	2
CPMVRSN	4	
CPM1ALTP	20	40
CPM1FALL	20	80
CPM1PRIM	20	10
CPM1REAL	20	20
CPM2CP24	21	20
CPM2CP31	21	40
CPM2CP64	21	80

Table 109. Cross Reference for \$CPMASTR (continued)

Name	Offset	Hex Tag
CPM2CSA	21	8
CPM2DSP	21	10
CPM2GDBS	21	1
CPM2NCLR	21	4
CPM2RANY	21	2
CPM3ALL	22	2
CPM3AUX	22	8
CPM3COMM	22	1
CPM3CURR	22	10
CPM3FPRO	22	80
CPM3LOCL	22	4
CPM3MSTR	22	20
CPM3NPRO	22	40
CPM4CLRG	23	80
CPM64TOK	64	

\$CPPWORK information

\$CPPWORK programming interface information

\$CPPWORK is a programming interface.

\$CPPWORK heading information

Common name:	CPOOL Query Pool Work Area Mapping
Macro ID:	\$CPPWORK
DSECT name:	CPPWPARAM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPPWSIZE
Created by:	User of the \$CPOOL query pool (QPOOL) service
Pointed to by:	Register 0 on entry to the CPQPOOL service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use \$CPOOL QPOOL service. Information is passed back via this storage.

\$CPPWORK mapping

Table 110. Structure CPPWPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPPWPARM	, CPOOL Query Pool Work Area
0	(0)	CHARACTER	8	CPPWUSER	User name or cell type
8	(8)	DBL WORD	8	CPPWCSIZ_64	Cell size
8	(8)	X'C'	0	CPPWCSIZ	"CPPWCSIZ_64+4,4,C'F'" 32-bit version
16	(10)	DBL WORD	8	CPPWCNUM_64	Total number of cells
16	(10)	X'14'	0	CPPWCNUM	"CPPWCNUM_64+4,4,C'F'" 32-bit version
24	(18)	DBL WORD	8	CPPWACNM_64	Number of available cells
24	(18)	X'1C'	0	CPPWACNM	"CPPWACNM_64+4,4,C'F'" 32-bit version
32	(20)	DBL WORD	8	CPPWNMXT_64	Number of extents
32	(20)	X'24'	0	CPPWNMXT	"CPPWNMXT_64+4,4,C'F'" 32-bit version
40	(28)	SIGNED	4	CPPWRC	MVS service return code
44	(2C)	SIGNED	4	CPPWALET	ALET to access pool
44	(2C)	X'30'	0	CPPWSIZE	"*-CPPWPARM" Size of parmlist

Table 111. Cross Reference for \$CPPWORK

Name	Offset	Hex Tag
CPPWACNM	18	1C
CPPWACNM_64	18	
CPPWALET	2C	
CPPWCNUM	10	14
CPPWCNUM_64	10	
CPPWCSIZ	8	C
CPPWCSIZ_64	8	
CPPWNMXT	20	24
CPPWNMXT_64	20	
CPPWPARM	0	
CPPWRC	28	
CPPWSIZE	2C	30
CPPWUSER	0	

\$CPXWORK information

\$CPXWORK programming interface information

\$CPXWORK is a programming interface.

\$CPXWORK heading information

Common name: CPOOL Query Extent Work Area Mapping
Macro ID: \$CPXWORK
DSECT name: CPXWPARM

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: any
Key: 1
Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.

Size: See CPXWSIZE

Created by: Caller of the \$CPOOL query extent (QEXT) service

Pointed to by: Register 0 on entry to the CPQEXT service

Serialization: None required

Function: This mapping is used to map over the storage passed by the caller to use \$CPOOL QEXT service. Information is passed back via this storage.

\$CPXWORK mapping

Table 112. Structure CPXWPARAM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPXWPARAM	, CPOOL Query Ext Work Area DSECT
0	(0)	SIGNED	4	CPXWEXTN	Extent number
4	(4)	SIGNED	4	CPXWSTAT	Extent status
8	(8)	ADDRESS	8	CPXWCPEB_64	CPEB addr for this extent
8	(8)	X'C'	0	CPXWCPEB	"CPXWCPEB_64+4,4,C'A'" 31-bit version
16	(10)	DBL WORD	8	CPXWEBLN_64	Length of CPEB in bytes
16	(10)	X'14'	0	CPXWEBLN	"CPXWEBLN_64+4,4,C'F'" 32-bit version
24	(18)	ADDRESS	8	CPXWSTOR_64	Storage address
24	(18)	X'1C'	0	CPXWSTOR	"CPXWSTOR_64+4,4,C'A'" 31-bit version
32	(20)	DBL WORD	8	CPXWSTSZ_64	Storage size
32	(20)	X'24'	0	CPXWSTSZ	"CPXWSTSZ_64+4,4,C'F'" 32-bit version
40	(28)	DBL WORD	8	CPXWCELL_64	Total number of cells in ext.
40	(28)	X'2C'	0	CPXWCELL	"CPXWCELL_64+4,4,C'F'" 32-bit version
48	(30)	DBL WORD	8	CPXWAVAI_64	Number of available cells
48	(30)	X'34'	0	CPXWAVAI	"CPXWAVAI_64+4,4,C'F'" 32-bit version
56	(38)	SIGNED	4	CPXWRC	MVS service return code
56	(38)	X'3C'	0	CPXWSIZE	"*-CPXWPARAM" Size of parmlist

Table 113. Cross Reference for \$CPXWORK

Name	Offset	Hex Tag
CPXWAVAI	30	34
CPXWAVAI_64	30	
CPXWCELL	28	2C
CPXWCELL_64	28	
CPXWCPEB	8	C
CPXWCPEB_64	8	

Table 113. Cross Reference for \$CPXWORK (continued)

Name	Offset	Hex Tag
CPXWEBLN	10	14
CPXWEBLN_64	10	
CPXWEXTN	0	
CPXWPARM	0	
CPXWRC	38	
CPXWSIZE	38	3C
CPXWSTAT	4	
CPXWSTOR	18	1C
CPXWSTOR_64	18	
CPXWSTSZ	20	24
CPXWSTSZ_64	20	

\$CSVPARM information

\$CSVPARM programming interface information

\$CSVPARM is a programming interface.

\$CSVPARM heading information

Common name:	CSV \$\$\$\$LOAD/\$\$\$\$DEL Parm List
Macro ID:	\$CSVPARM
DSECT name:	CSVP
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'CSVP' Offset: CSVPID-CSVP Length: 4
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual is in 31 bit storage in the JES2 address space. Real can be anywhere in 64 bit storage.
Size:	See CSVPLEN
Created by:	The CSVP is created before \$\$\$\$LOAD or \$\$\$\$DEL is called.
Pointed to by:	General register 1 on entry to the \$\$\$\$LOAD or \$\$\$\$DEL routine.
Serialization:	None required.
Function:	This DSECT provides the mapping for the parameters passed to the \$\$\$\$LOAD or \$\$\$\$DEL service routine.

\$CSVPARM mapping

Table 114. Structure CSVP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CSV P	
0	(0)	CHARACTER	4	CSVPID	Eye catcher
4	(4)	SIGNED	2	CSVPSIZE	Size of parameter list
6	(6)	ADDRESS	1	CSVPPER	Version number for base section
6	(6)	X'1'	0	CSVPERN	"1" Version number equate for base
7	(7)	ADDRESS	1	CSVPTYPE	Routine identifier
7	(7)	X'1'	0	CSVPLDAD	"1" \$\$\$\$LOAD parameter list
7	(7)	X'2'	0	CSVDEL	"2" \$\$\$\$DEL parameter list
8	(8)	ADDRESS	4	CSVPLMT	Related LMT address
12	(C)	ADDRESS	4	CSVPMIT	Related module/MIT address
16	(10)	SIGNED	4	(4)	Reserved
32	(20)	DBL WORD	8	CSVPORG(0)	Start of routine specific area
\$\$\$\$LOAD parameter list					
32	(20)	BITSTRING	1	CSVPLCMD	Reason for load
32	(20)	X'0'	0	CSVPLCJS	"0" JES2 performing load (internal)
32	(20)	X'1'	0	CSVPLCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPLCAL	"2" \$ADD LOAD command
32	(20)	X'3'	0	CSVPLCRL	"3" \$T LOAD,REFRESH command
33	(21)	BITSTRING	1	CSVPLLOC	Where the module was loaded
33	(21)	X'1'	0	CSVPLPVT	"1" Loaded to JES2 private
33	(21)	X'2'	0	CSVPLCSA	"2" Loaded to common storage
33	(21)	X'3'	0	CSVPLLPA	"3" Loaded to LPA
34	(22)	BITSTRING	1	CSVPLMSC	Miscellaneous flags
	1...			CSVPLWPC	"B'10000000'" \$\$\$\$LOAD was previously called
35	(23)	BITSTRING	1		Reserved
36	(24)	ADDRESS	4	CSVPLDAD	For a \$TLOAD REFRESH, LMT of module being replaced
CSVPL\$DR contains the address of an additional \$\$\$\$DEL type routine (name does not matter) that will get control when the module is deleted (before the normal \$\$\$\$DEL routine). This routine can be used in the case of a force delete of a module where the storage has already been freed. In particular, when JES2 detects that MVS has deleted the module from LPA. Because the module storage no longer exists, this routine should be in a separate memory location.					
40	(28)	ADDRESS	4	CSVPL\$DR	Addr of an additional \$\$\$\$DEL rtn
\$\$\$\$LOAD return codes					
40	(28)	X'0'	0	CSVPLROK	"0" Continue load
\$\$\$\$DEL parameter list					
32	(20)	BITSTRING	1	CSVPCDND	Reason for delete
32	(20)	X'0'	0	CSVPCDJS	"0" JES2 performing delete (internal)
32	(20)	X'1'	0	CSVPCDIN	"1" LOAD init statement

Table 114. Structure CSVP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'2'	0	CSVPDCDL	"2" \$DEL LOAD command
32	(20)	X'3'	0	CSVPDCRL	"3" \$T LOAD,REFRESH command
32	(20)	X'4'	0	CSVPDCTR	"4" \$PJES2 processing
32	(20)	X'5'	0	CSVPDCSC	"5" Secondary call
33	(21)	BITSTRING	1	CSVPDIND	Call flags
		1...		CSVPDSND	"B'10000000'" Second call (after a RC 4/8)
		.1..		CSVPDFRC	"B'01000000'" Module being force deleted
		..1.		CSVPDFRE	"B'00100000'" Storage for module has been freed
34	(22)	BITSTRING	2		Reserved
36	(24)	ADDRESS	4	CSVPDNEW	For a \$TLOAD REFRESH, LMT of new module that was loaded
<p>\$\$\$\$DEL return codes</p> <p>0 - Continue deletion normally. This routine will not be called again.</p> <p>4 - Do not delete the module now. JES2 will delete dynamic tables and exit routines but will not free the storage. This service will be called again under the MISC PCE once JES2 believes all users of the module are gone (with CSVPDSND set). If the second call again give a return code 4, \$\$\$\$DEL will be called again at about a 5 minute interval. JES2 may make a force delete call at any time.</p> <p>8 - Same processing as RC=4 except that JES2 will not make a second call under the MISC PCE. A second call will be made in the case of a force delete, or after a JES2 hot start (for CSA or LPA modules).</p>					
36	(24)	X'0'	0	CSVPDROK	"0" Continue delete
36	(24)	X'4'	0	CSVPDRNN	"4" Do not physically delete module now
36	(24)	X'8'	0	CSVPDRND	"8" Never physically delete module
48	(30)	DBL WORD	8	(0)	Ensure alignment
48	(30)	X'30'	0	CSVPLEN	"*-CSVP" Length of CSV parm list

Table 115. Cross Reference for \$CSVPARM

Name	Offset	Hex Tag
CSVP	0	
CSVPDCDL	20	2
CSVPDCIN	20	1
CSVPDCJS	20	0
CSVPDCND	20	
CSVPDCRL	20	3
CSVPDCSC	20	5
CSVPDCTR	20	4
CSVPDEL	7	2
CSVPDFRC	21	40
CSVPDFRE	21	20
CSVPDIND	21	

Table 115. Cross Reference for \$CSVARM (continued)

Name	Offset	Hex Tag
CSVPDNEW	24	
CSVPDRND	24	8
CSVPDRNN	24	4
CSVPDROK	24	0
CSVPDSND	21	80
CSVPID	0	C3E2E5D7
CSVPL\$DR	28	
CSVPLCAL	20	2
CSVPLCIN	20	1
CSVPLCJS	20	0
CSVPLCMD	20	
CSVPLCRL	20	3
CSVPLCSA	21	2
CSVPLEN	30	30
CSVPLLOC	21	
CSVPLLPA	21	3
CSVPLMSC	22	
CSVPLMT	8	
CSVpload	7	1
CSVPLOLD	24	
CSVPLPVT	21	1
CSVPLROK	28	0
CSVPLWPC	22	80
CSVPMIT	C	
CSVPORTG	20	
CSVPSIZE	4	
CSVPTYPE	7	
CSVPVER	6	
CSVPVERN	6	1

\$CTOKEN information

\$CTOKEN heading information

Common name:	Client Token mapping
Macro ID:	\$CTOKEN
DSECT name:	CTOKEN (\$CTOKEN is part of the IAZCTKN DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None

Storage attributes: Subpool: See IAZCTKN
Key: See IAZCTKN
Residency: See IAZCTKN

Size: See IAZCTKN

Created by: See IAZCTKN

Pointed to by: This DSECT maps the field CTKNJESD in the IAZCTKN data area

Serialization: None required

Function: Maps the JES2 dependent portion of the client token (mapped by IAZCTKN). The client token may be returned as a result of:

- o A dynamic allocation request - Client token
- o As part of an ENF parameter list - Client token
- o Extended status (terse) - JOE token
- o Extended status (verbose) - data set token
- o SAPI putget - data set token

The JES2 dependent portion of the client token contains the information that JES2 needs to uniquely identify and locate the data set represented by the client token.

\$CTOKEN mapping

Table 116. Structure CTOKEN

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CTOKEN	, HASP Client Token DSECT
16	(10)	SIGNED	4	CTK2JOBN	A.Job number
20	(14)	BITSTRING	4	CTK2JOBK	A.Job identifier key
24	(18)	SIGNED	4	CTK2DSID	CD.Data set number
28	(1C)	BITSTRING	4	CTK2MTTR	CD.IOT MTTR for data set
28	(1C)	X'1C'	0	CTK2MQTR_LO	"CTK2MTTR,L'CTK2MTTR,C'X'" CD.Low 4 bytes of MQTR if CTK21MQT is set
32	(20)	CHARACTER	12	CTK2JOEI(0)	J.JOE Identification block
32	(20)	CHARACTER	8	CTK2JONM	J.JOE's output group name
40	(28)	SIGNED	2	CTK2JOI1	J.JOE'S output group id1
42	(2A)	SIGNED	2	CTK2JOI2	J.JOE'S output group id2
44	(2C)	SIGNED	4	CTK2PDB0	D.Offset of Pddb within IOT
48	(30)	SIGNED	4	CTK2JOEN	J.Work JOE index
52	(34)	CHARACTER	8	CTK2JDVT	D.From JCTJDVT
60	(3C)	SIGNED	1	CTK2LINC	D.From JCTLINCT
61	(3D)	SIGNED	2	CTK2DSIN	CD.Data set instance number
63	(3F)	BITSTRING	14		Reserved
77	(4D)	BITSTRING	2	CTK2MQTR_HI	CD.High 2 bytes of MQTR if CTK21MQT is set
79	(4F)	BITSTRING	1	CTK2FLG1	A.Flag byte
	1...			CTK21TCT	"B'10000000'" C.Token represents a data set (Created as a result of a dynamic allocation request)
	.1..			CTK21TJO	"B'01000000'" J.Token represents a JOE rather than a data set

Table 116. Structure CTOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CTK21TSA	"B'00100000'" D.Token represents a data set (Returned as a result of a SAPI Put/Get Request, a verbose extended status or an FSS GETDS)
		...1		CTK21MQT	"B'00010000'" C.MQTR provided
79	(4F)	X'40'	0	CTK2SIZE	"*-CTKNJESD" Length of HASP section
80	(50)	ADDRESS	2	(0)	Generate assembly error if CTK2SIZE exceeds L'CTKNJESD
<p>The following equates provide values for the Bit Map based on which parts of the Client Token are valid to be used in comparisons. Two equates are required to map the Bit Map (each equate maps 32 bits). Mappings for the first 32 bits</p>					
		.... ....		CTK2B_JOBN	"B'11110000000000000000000000000000', 4,C'B'"
		.... ....		CTK2B_JOBK	"B'00001111000000000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSID	"B'00000000111100000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_MTTR	"B'00000000000011110000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JONM	"B'00000000000000001111111100000000', 4,C'B'"
		11..		CTK2B_JOI1	"B'000000000000000000000000000011000000', 4,C'B'"
		..11		CTK2B_JOI2	"B'0000000000000000000000000000110000', 4,C'B'"
80	(50)	X'FFF0'	0	CTK2B_JOEI	"CTK2B_JONM+CTK2B_JOI1+CTK2B_JOI2,4,C'B'"
		.... 1111		CTK2B_PDBO	"B'0000000000000000000000000000001111', 4,C'B'"
Mappings for the second 32 bits					
		.... ....		CTK2B_JOEN	"B'11110000000000000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JDVT	"B'00001111111111000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_LINC	"B'00000000000001000000000000000000', 4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSIN	"B'00000000000001100000000000000000', 4,C'B'"
		.... ...1		CTK2B_FLG1	"B'00000000000000000000000000000001', 4,C'B'"
		.... .11.		CTK2B_MQTR	"B'00000000000000000000000000000110', 4,C'B'"
<p>CTK2BCT1 and CTK2BCT2 indicate that the job number, job key, data set number are valid in the Client Token. CTK2BJO1 and CTK2BJO2 indicate that the job number, job key and JOE Group Name are valid in the JOE Token. CTK2BJB1 and CTK2BJB2 indicate that the job number and job key are valid in the Client Token (token is a job level token). CTK2BDS1 and CTK2BDS2 indicate that the job number, job key, data set number and Pddb offset are valid in the data set token.</p>					

Table 116. Structure CTKOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
80	(50)	X'F00000'	0	CTK2BCT1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID,4,C 'B' "
		....		CTK2BCT2	"B'00000000000000000000000000000000', 4,C'B' "
80	(50)	X'FFF0'	0	CTK2BJ01	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_JOEI,4,C 'B' "
		....		CTK2BJ02	"B'00000000000000000000000000000000', 4,C'B' "
80	(50)	X'0'	0	CTK2BJB1	"CTK2B_JOBN+CTK2B_JOBK,4,C'B' "
		....		CTK2BJB2	"B'00000000000000000000000000000000', 4,C'B' "
80	(50)	X'F0000F'	0	CTK2BDS1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID+CTK 2B_PDBO ,4,C'B' "
		....		CTK2BDS2	"B'00000000000000000000000000000000', 4,C'B' "

Table 117. Cross Reference for \$CTOKEN

Name	Offset	Hex Tag
CTK2B_DSID	50	F00000
CTK2B_DSIN	50	600000
CTK2B_FLG1	50	1
CTK2B_JDVT	50	F00000
CTK2B_JOBK	50	0
CTK2B_JOBN	50	0
CTK2B_JOEI	50	FFF0
CTK2B_JOEN	50	0
CTK2B_JOI1	50	C0
CTK2B_JOI2	50	30
CTK2B_JONM	50	FF00
CTK2B_LINC	50	800000
CTK2B_MQTR	50	6
CTK2B_MTTR	50	F00000
CTK2B_PDBO	50	F
CTK2BCT1	50	F00000
CTK2BCT2	50	0
CTK2BDS1	50	F0000F
CTK2BDS2	50	0
CTK2BJB1	50	0
CTK2BJB2	50	0
CTK2BJ01	50	FFF0
CTK2BJ02	50	0
CTK2DSID	18	
CTK2DSIN	3D	
CTK2FLG1	4F	

Table 117. Cross Reference for \$CTOKEN (continued)

Name	Offset	Hex Tag
CTK2JDVT	34	
CTK2JOBK	14	
CTK2JOBN	10	
CTK2JOEI	20	
CTK2JOEN	30	
CTK2JOI1	28	
CTK2JOI2	2A	
CTK2JONM	20	
CTK2LINC	3C	
CTK2MQTR_HI	4D	
CTK2MQTR_LO	1C	1C
CTK2MTTR	1C	
CTK2PDB0	2C	
CTK2SIZE	4F	40
CTK21MQT	4F	10
CTK21TCT	4F	80
CTK21TJ0	4F	40
CTK21TSA	4F	20
CTOKEN	0	

\$CTW information

\$CTW heading information

Common name:	Checkpoint Trace Work Area DSECT
Macro ID:	\$CTW
DSECT name:	CTW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	CTW Offset: CTWLID Length: L'CTWLID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CTWFXEND + (Number of CTENTS)*CTWCTLEN
Created by:	JES2 Initialization
Pointed to by:	CKWCTWA field of the CKW data area
Serialization:	Normal PCE dispatch serialization

Function:

The \$CTW maps a work area used by the Checkpoint PCE to save performance trace information.

\$CTW mapping

Table 118. Structure CTW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CTW	
0	(0)	CHARACTER	4	CTWLID	CTW IDENTIFIER
4	(4)	BITSTRING	1	CTWVER	CTW VERSION IDENTIFIER
4	(4)	X'3'	0	CTWVERN	"3" CTW version number
5	(5)	BITSTRING	1	CTWSERV	Service indicator
5	(5)	X'1'	0	CTWREAD1	"1" Service is READ1
5	(5)	X'2'	0	CTWREAD2	"2" Service is READ2
5	(5)	X'3'	0	CTWPRIMW	"3" Service is primary write
5	(5)	X'4'	0	CTWINTW	"4" Service is intermed. wrt
5	(5)	X'5'	0	CTWFINW	"5" Service is final write
5	(5)	X'6'	0	CTWGMT	"6" Service is format
5	(5)	X'7'	0	CTWRECON	"7" Service is CKPT reconfig
6	(6)	BITSTRING	1	CTWFLAG1	Flags
		1...		CTW1CYMG	"B'10000000'" Cycle management on
		.1..		CTW1PRIO	"B'01000000'" This data was affected by priority aging
		..1.		CTW1CKDS	"B'00100000'" 0 if I/O to CKPT1, 1 if I/O to CKPT2
		...1		CTW1CKCF	"B'00010000'" CKPT is on CF
		.... 1...		CTW1DUAL	"B'00001000'" CKPT is in DUAL mode
		.... .1..		CTW1EWRT	"B'00000100'" CKPT write started early
7	(7)	BITSTRING	1		Reserved for future use
8	(8)	SIGNED	2	CTWDATA(0)	START OF CTW DATA
Subtask performance statistics This area is defined the same in \$DTECKDA, \$DTECKCF and \$CTW.					
8	(8)	SIGNED	4	CTWSTSTR(0)	Start of statistics
8	(8)	DBL WORD	8	CTWSTTIM	Wall clock to complete req
16	(10)	DBL WORD	8	CTWSTCPU	CPU time to complete req
24	(18)	SIGNED	4	CTWSTIOC	I/O count for request
28	(1C)	SIGNED	4	CTWSTCNT	CB count for request
28	(1C)	X'8'	0	CTWSTERF	"CTWSTSTR,*-CTWSTSTR" Field for all statistics
End of subtask performance statistics					
32	(20)	DBL WORD	8	CTWIOSTR	I/O START TIME
40	(28)	DBL WORD	8	CTWIOSTP	I/O STOP TIME
48	(30)	SIGNED	4	CTWCKPWT	NUM OF TIMES THE CKPT PCE \$WAITED BEFORE BEING DISPATCHED
52	(34)	SIGNED	4	CTWCLNPA	NUMBER OF PAGES ALLOCATED TO CHANGE LOG
56	(38)	SIGNED	4	CTWCLNPU	NUM OF USED PAGES IN CHANGE LOG

Table 118. Structure CTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	SIGNED	4	CTWCLPR1	NUMBER OF CH LOG PAGES READ IN
64	(40)	SIGNED	4	CTWMINHL	MINHOLD VALUE
68	(44)	SIGNED	4	CTWMINDR	MINDORM VALUE
72	(48)	SIGNED	4	CTWMAXDR	MAXDORM VALUE
76	(4C)	SIGNED	4	CTWCLNCB	NUMBER OF CONTROL BLOCKS IN THE CHANGE LOG
80	(50)	SIGNED	4	CTWNMPCE	NUMBER OF PCES DEFINED
84	(54)	SIGNED	4	CTWWTPCE	NUMBER OF PCES WAITING FOR CKPT
88	(58)	SIGNED	4	CTWMXTIM	MAXIMUM AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
92	(5C)	SIGNED	4	CTWAVTIM	AVERAGE AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
96	(60)	SIGNED	4	CTWCLNBU	NUM OF USED BYTES IN THE CH LOG
100	(64)	SIGNED	4	CTWHLTIM	CHECKPOINT HELD TIME
104	(68)	SIGNED	4	CTWDRMTM	CHECKPOINT DORMANCY TIME
108	(6C)	SIGNED	4	CTWPGNCL	PAGES TRANS. IF NO CH LOG
112	(70)	SIGNED	4	CTWLEVNM	LEVEL NUMBER OF DATASET
Performance data measures for the JES2 checkpoint trace records. The measures are for, at most, one checkpoint cycle (not all measurements are collected for an entire checkpoint cycle).					
116	(74)	SIGNED	4	CTWCKPTN	Number of \$CKPTs issued
120	(78)	SIGNED	4	CTWMSVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
124	(7C)	SIGNED	4	CTWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues (\$QSUSE)
128	(80)	SIGNED	4	CTWQSMAX	Time between getting CKPT and most recent \$WAIT by PCE with \$QSUSE (in microsecs)
132	(84)	SIGNED	4	CTWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
136	(88)	SIGNED	4	CTWPAINR	\$QSUSE pain rate
140	(8C)	SIGNED	4	CTWPAINV	\$QSUSE pain value
144	(90)	SIGNED	4	CTWOHV	CKPT access overhead (in microsecs)
148	(94)	SIGNED	4	CTWOPTCK	Number of \$CKPTs (CAEs) skipped due to CKPT optimization
152	(98)	SIGNED	4	CTWOPT4K	Number of 4K pages skipped due to CKPT optimization
160	(A0)	DBL WORD	8	CTWMSBTM	KMAINSB wall clock time
168	(A8)	DBL WORD	8	CTWMSBCP	KMAINSB CPU time
176	(B0)	SIGNED	2	CTWKITNM	Number of CTENT entries
178	(B2)	SIGNED	2		Reserved for future use
178	(B2)	X'B4'	0	CTWFXEND	"*-CTW" END OF FIXED PORTION OF CTW
180	(B4)	SIGNED	4	CTWCTNTS(0)	START OF CTENT INFORMATION:
180	(B4)	X'0'	0	CTWCTNMP	"0,4" NUM OF PAGES FOR THIS CTENT
180	(B4)	X'4'	0	CTWCTNMC	"4,4" NUMBER OF CONTROL BLOCKS FOR THIS CTENT
180	(B4)	X'8'	0	CTWCTLEN	"L'CTWCTNMP+L'CTWCTNMC" LENGTH OF CTW CTENT ENTRY

Table 119. Cross Reference for \$CTW

Name	Offset	Hex Tag
CTW	0	
CTWAVTIM	5C	
CTWCKPTN	74	
CTWCKPWT	30	
CTWCLNBU	60	
CTWCLNCB	4C	
CTWCLNPA	34	
CTWCLNPU	38	
CTWCLPR1	3C	
CTWCTLEN	B4	8
CTWCTNMC	B4	4
CTWCTNMP	B4	0
CTWCTNTS	B4	
CTWDATA	8	
CTWDRMTM	68	
CTWFINW	5	5
CTWFLAG1	6	
CTWFMT	5	6
CTWFXEND	B2	B4
CTWHLTIM	64	
CTWINTW	5	4
CTWIOSTP	28	
CTWIOSTR	20	
CTWKITNM	B0	
CTWLEVNM	70	
CTWLID	0	C3E3E640
CTWMAXDR	48	
CTWMINDR	44	
CTWMINHL	40	
CTWMSBCP	A8	
CTWMSBTM	A0	
CTWMVSWT	78	
CTWMXTIM	58	
CTWNMPCE	50	
CTWOHV	90	
CTWOPTCK	94	
CTWOPT4K	98	
CTWPAINR	88	
CTWPAINV	8C	

Table 119. Cross Reference for \$CTW (continued)

Name	Offset	Hex Tag
CTWPGNCL	6C	
CTWPRIMW	5	3
CTWQSMAX	80	
CTWQSUSE	7C	
CTWREAD1	5	1
CTWREAD2	5	2
CTWRECON	5	7
CTWSERV	5	
CTWSTCNT	1C	
CTWSTCPU	10	
CTWSTERF	1C	8
CTWSTIOC	18	
CTWSTSTR	8	
CTWSTTIM	8	
CTWVER	4	
CTWVERN	4	3
CTWWTPCE	54	
CTWWTTM	84	
CTW1CKCF	6	10
CTW1CKDS	6	20
CTW1CYMG	6	80
CTW1DUAL	6	8
CTW1EWRT	6	4
CTW1PRIO	6	40

\$CVCB information

\$CVCB heading information

Common name: Checkpoint Version Control Block

Macro ID: \$CVCB

DSECT name: CVCB

Owning component: JES2 (SC1BH)

Eye-catcher ID: \$CVCB
Offset: CVCB_ID-CVCB
Length: L'CVCB_ID

Storage attributes: Subpool: 231
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.

Size:	See CVCBSIZE
Created by:	HASPCCKVR
Pointed to by:	SCIDCVCB field of \$SCID data area SPUD_LATEST_ADDR field of \$SCID data area SPUD_FREE_ADDR field of \$SCID data area SPUD_HOLD_ADDR field of \$SCID data area SPUD_LIVE_ADDR field of \$SCID data area OLD_LIVE_ADDR field of \$SCID data area CVCB_NEXT_ADDR field of \$CVCB data area DSRVCVPT field of IAZDSERV data area DSRVCNPT field of IAZDSERV data area
Serialization:	<p>Serialization is handled by means of ENQ/DEQ. HASPCCKVR-Versioning subtask, creates all the CVCBs initially establishing the CVCB free queue. When a copy of the real in storage checkpoint data set is made into the first data space as a version, the representative CVCB is placed in the SCID (Summary of Checkpoint Information) at the head of the CVCB active queue, called SPUD_LATEST_VERSION, thus making it available to the service routine which handles the SSI request for a data space version. The service routine will issue an shared ENQ on the CVCB address contained in SPUD_LATEST_VERSION, scope=system. Following the ENQ, the service routine will check that the CVCB is still the latest version then increment the enqueue count within the CVCB by means of a compare and swap. In the case of release of access to a version, the service routine will decrement the enqueue count and DEQ on the CVCB.</p> <p>When the HASPCCKVR subtask picks a CVCB to update, it will issue an exclusive ENQ on the CVCB to insure that no outstanding ENQs are held against the CVCB before the update is made.</p> <p>ENQ/DEQ NAMES: Major name - CCTQNAM = 'SYSZssss' ssss - JES2 subsystem name Minor name - 'CVCBnnnn' nnnn - CVCB_VERSION_NUMBER</p>
Function:	<p>This control block describes a version of the Checkpoint data set, contained in the Checkpoint data space. A CVCB exists for each version of the checkpoint which is maintained as active by the checkpoint version subtask. There are two queues of CVCBs, a free queue and an active queue, the heads of which reside in the SCID. As a new version of the checkpoint data set is generated, the CVCB for that version is put at the head of the active queue.</p>

\$CVCB mapping

Table 120. Structure CVCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVCB	Checkpoint Version CB
0	(0)	CHARACTER	4	CVCB_ID	CVCB eye catcher
4	(4)	ADDRESS	1	CVCB_CBVN	CB version number
4	(4)	X'8'	0	CVCBCVNO	"8" Current CB version number

Table 120. Structure CVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
CVCB_FLAG is cleared when a CVCB version is generated.					
5	(5)	BITSTRING	1	CVCB_FLAG	Flag Byte
		1...		CVCB_FDMP	"B'10000000'" SDUMP requested
		.1..		CVCB_LIVE	"B'01000000'" This is a live version
6	(6)	BITSTRING	1		Reserved
CVCB_ENQ_SKIP_COUNT is incremented every cycle when the CVCB_ENQ_CT is non-zero. When the count reaches a certain value, an ENQ is issued to verify the CVCB_ENQ_CT field. If the ENQ is obtained, then the CVCB_ENQ_CT is set to zero.					
7	(7)	BITSTRING	1	CVCB_ENQ_SKIP_COUNT	ENQ check counter
8	(8)	ADDRESS	4	CVCB_DSB	Associated DSB address (if live version)
12	(C)	SIGNED	4	CVCB_CKSM	Checksum of version (debug)
16	(10)	SIGNED	4	CVCB_ALET	CVCB ALET
20	(14)	SIGNED	4	CVCB_ALET2	Secondary ALET
24	(18)	CHARACTER	8	CVCB_STOKEN	CVCB STOKEN
32	(20)	CHARACTER	8	CVCB_STOKEN2	Secondary STOKEN
40	(28)	ADDRESS	8	CVCB_NEXT_ADDR	Next CVCB address
48	(30)	SIGNED	8	CVCB_LEVEL	Checkpoint level
56	(38)	ADDRESS	8	CVCB_MASTER_REC	Address of master record
64	(40)	ADDRESS	8	CVCB_HCT_AREA	Live version HCT area
72	(48)	ADDRESS	8	CVCB_4K_PAGES	Address of 4K pages
80	(50)	ADDRESS	8	CVCB_4K_PAGES_64	Address of 64-bit 4K pages
88	(58)	ADDRESS	8	CVCB_\$CATBERT_ADDR	Address of \$CATBERT
96	(60)	SIGNED	4	CVCB_ADDRS(0)	Start of section address
96	(60)	ADDRESS	8	CVCB_CDI_ADDR	CDI start address
104	(68)	ADDRESS	8	CVCB_CDT_ADDR	CDT start address
112	(70)	ADDRESS	8	CVCB_JOT_ADDR	JOT start address
120	(78)	ADDRESS	8	CVCB_JOX_ADDR	JOX start address
128	(80)	ADDRESS	8	CVCB_JQE_ADDR	JQE start address
136	(88)	ADDRESS	8	CVCB_QSE_ADDR	QSE start address
144	(90)	ADDRESS	8	CVCB_HCT_ADDR	HCT start address (Ckpt'ed)
152	(98)	ADDRESS	8	CVCB_JQEX_ADDR	JQE extension address
160	(A0)	ADDRESS	8	CVCB_KIT_ADDR	KITs start address
168	(A8)	ADDRESS	8	CVCB_JNT_ADDR	JNT start address
176	(B0)	ADDRESS	8	CVCB_JQX_ADDR	JQX start address
184	(B8)	ADDRESS	8	CVCB_BERT_ADDR	BERT start address
192	(C0)	ADDRESS	8	CVCB_DAS_ADDR	DAS start address
200	(C8)	ADDRESS	8	CVCB_TGM_ADDR	TGM start address
208	(D0)	ADDRESS	8	CVCB_ZJC_ADDR	ZJC start address
216	(D8)	ADDRESS	8	CVCB_JQY_ADDR	JQY start address
224	(E0)	ADDRESS	8	CVCB_JQS_ADDR	JQS start address
232	(E8)	ADDRESS	8	CVCB_DRX_ADDR	DRX start address
240	(F0)	ADDRESS	8	CVCB_WQPOS_ADDR	Service cls posn address

Table 120. Structure CVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
248	(F8)	BITSTRING	8	CVCB_WQPOS_STOKEN	Service cls posn STOKEN
256	(100)	ADDRESS	4	CVCB_WQPOS_ALET	Service cls posn ALET
260	(104)	ADDRESS	4		Reserved
264	(108)	ADDRESS	8	(6)	Reserved
312	(138)	SIGNED	4	CVCB_\$DADFRCT	MAS TG free count
316	(13C)	SIGNED	4	CVCB_ENQ_CT	Count of shared ENQs
	1...			CVCB_USED	"B'10000000'" Version used this cycle
320	(140)	CHARACTER	8	CVCB_TIME	Time stamp for version
328	(148)	CHARACTER	8	CVCB_MAJOR(0)	Major name for ENQ
328	(148)	CHARACTER	4	CVCB_SYS	'SYSZ'
332	(14C)	CHARACTER	4	CVCB_JESID	Subsystem name
336	(150)	CHARACTER	8	CVCB_MINOR(0)	Minor name for ENQ
336	(150)	CHARACTER	4	CVCB_ENQ_ID	'CVCB'
340	(154)	SIGNED	4	CVCB_VERSION_NUMBER	Version numb of this CVCB
344	(158)	ADDRESS	4	CVCB_CKSM_TABLE	Checksum table address
348	(15C)	SIGNED	4		Reserved
352	(160)	ADDRESS	8	(8)	Reserved
416	(1A0)		1	(0)	Alignment
416	(1A0)	X'1A0'	0	CVCBSIZE	"*-CVCB" Size of the CVCB

Table 121. Cross Reference for \$CVCB

Name	Offset	Hex Tag
CVCB	0	
CVCB_\$CATBERT_ADDR	58	
CVCB_\$DADFRCT	138	
CVCB_ADDRS	60	
CVCB_ALET	10	
CVCB_ALET2	14	
CVCB_BERT_ADDR	B8	
CVCB_CBVN	4	
CVCB_CDI_ADDR	60	
CVCB_CDT_ADDR	68	
CVCB_CKSM	C	
CVCB_CKSM_TABLE	158	
CVCB_DAS_ADDR	C0	
CVCB_DRX_ADDR	E8	
CVCB_DSB	8	
CVCB_ENQ_CT	13C	
CVCB_ENQ_ID	150	
CVCB_ENQ_SKIP_COUNT	7	
CVCB_FDMP	5	80
CVCB_FLAG	5	

Table 121. Cross Reference for \$CVCB (continued)

Name	Offset	Hex Tag
CVCB_HCT_ADDR	90	
CVCB_HCT_AREA	40	
CVCB_ID	0	
CVCB_JESID	14C	
CVCB_JNT_ADDR	A8	
CVCB_JOT_ADDR	70	
CVCB_JOX_ADDR	78	
CVCB_JQE_ADDR	80	
CVCB_JQEX_ADDR	98	
CVCB_JQS_ADDR	E0	
CVCB_JQX_ADDR	B0	
CVCB_JQY_ADDR	D8	
CVCB_KIT_ADDR	A0	
CVCB_LEVEL	30	
CVCB_LIVE	5	40
CVCB_MAJOR	148	
CVCB_MASTER_REC	38	
CVCB_MINOR	150	
CVCB_NEXT_ADDR	28	
CVCB_QSE_ADDR	88	
CVCB_STOKEN	18	
CVCB_STOKEN2	20	
CVCB_SYS	148	
CVCB_TGM_ADDR	C8	
CVCB_TIME	140	
CVCB_USED	13C	80
CVCB_VERSION_NUMBER	154	
CVCB_WQPOS_ADDR	F0	
CVCB_WQPOS_ALET	100	
CVCB_WQPOS_STOKEN	F8	
CVCB_ZJC_ADDR	D0	
CVCB_4K_PAGES	48	
CVCB_4K_PAGES_64	50	
CVCBCVNO	4	8
CVCBSIZE	1A0	1A0

\$DAS information

\$DAS programming interface information

The following field is **NOT** programming interface information:

- DASMAPO

\$DAS heading information

Common name:	Direct Access Spool Data Set
Macro ID:	\$DAS
DSECT name:	DAS
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	The pool of DASes is preceded by an eyecatcher '**DAS POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage attributes:	Subpool: 0, 231, 241, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the DAS copies is ECSA. Real storage is anywhere.
Size:	See DASSIZ for JES2 private storage See DASSIZC for CSA copies Note that CSA DAS must be quadword aligned and its size should be a multiple of a quadword
Created by:	JES2 initialization allocates storage for the DASes in JES2 private and ECSA. The checkpoint versions subtask creates copies of the DASes in the checkpoint versions data space.
Pointed to by:	The \$DASAREA field of the \$HCT data area points to the header of the DAS pool in the JES2 private area. The \$DASFRST field of the \$HCT data area points to the first DAS in the JES2 private area. The CCTDAS1 field of the \$HCCT data area points to the first DAS copy in ECSA.
Serialization:	JES2 checkpoint data set lock (\$QSUSE)

Function:

A DAS defines the characteristics of a spool data set. There is one DAS per extent for each possible extent as determined by SPOOLNUM on the SPOOLDEF statement. The DAS control blocks are contiguous in storage and are preceded by a header section. Each DAS resides in JES2 private storage with a partial copy in ECSA that is updated with each track group allocation (KBLOB). The extents are numbered (DASEXTNO) consecutively from 0 to \$SPOOLNUM-1. The DASes are offset from \$DASAREA. When looping through a chain of DASes, an offset of zero means the end of the chain. Thus, a DAS cannot be at offset 0 from \$DASAREA.

The DASes are mapped as one of the 4K checkpoint record entries. In order to modify the DAS, access to the shared queues must be owned (\$QSUSE) and \$CKPT must be issued with ID=DAS.

Since the DASes are checkpointed control blocks, there are at least 2 copies of each DAS in storage (the actual and I/O copies of the checkpoint in subpool 0). There also may be 1 or more copies in the checkpoint versions data space.

The field DASCTGA in the DAS is filled in only when the DAS is in ECSA. This field contains the number of track groups allocated for that DAS. If the information is needed from private storage, it resides in the master checkpoint record and is pointed to by field \$DASEXT in the \$HCT.

\$DAS mapping

Table 122. Structure DAS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DAS	
0	(0)	CHARACTER	6	DASVOLID	EBCDIC VOLSER ID
6	(6)	BITSTRING	1	DASEXTNO	BINARY EXTENT NUMBER
7	(7)	BITSTRING	1	DASFLAG	FLAG BYTE
		1... ..		DASDRAIN	"B'10000000" SPOOL IS DRAINING
		.1... ..		DASHALT	"B'01000000" SPOOL IS HALTING
		..1.		DASTART	"B'00100000" SPOOL IS STARTING
		...1		DASEXSTS	"B'00010000" SPOOL EXISTS
		.... 1...		DASSELEC	"B'00001000" SELECTION MAY OCCUR
		.... .1..		DASALLOC	"B'00000100" ALLOCATION MAY OCCUR
		.... ..1.		DASFINAL	"B'00000010" Final Command Processing (Obsolete , Do not test or turn on)
		.... ...1		DASRPSF	"B'00000001" EXTENT SUPPORTS RPS
7	(7)	X'C'	0	DASACTIV	"DASSELEC+DASALLOC" SELECTION + ALLOC. MAY OCCUR
7	(7)	X'CC'	0	DASAVAIL	"DASACTIV+DASDRAIN+DASHALT" AVAILABLE FOR SELECTION
7	(7)	X'48'	0	DASI00K	"DASSELEC+DASHALT" I/O to extent is OK if selectable or halting unless DASTART is on too
8	(8)	BITSTRING	32	DASMASK	SPOOL MASK FOR THIS DAS MAPPED IN CSA FOR EXIT 12
40	(28)	SIGNED	4	DASTKCYL	NR OF TRACKS/CYLINDER ON DEVICE

Table 122. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	BITSTRING	2		Reserved (was DASNOTGE)
46	(2E)	SIGNED	2	DASNORTK	NUMBER OF RECORDS PER TRACK
<p>The content of DASTRK is dependent on the data set type.</p> <ul style="list-style-type: none"> - If volume is in large data set format (DAS5LGDS on) then DASTRKLM is the largest relative track in the SP00L data set. DAS5LGDS implies relative track addressing. Low track is always 1. To calculate absolute track address, add DASSTRK to the TT address. - If large data set is not active, but relative track addressing is active (DAS4RELT on), then DASLOTRK=1 and DASUPTRK is the upper relative track limit. To calculate absolute track address add DASSTRK to the TT address. - If large data set and relative track addressing are both inactive, then DASLOTRK is the low absolute track address in the data set and DASUPTRK is the upper absolute track limit. TT is the absolute track address. 					
48	(30)	SIGNED	4	DASTRK(0)	Valid track range (TT)
48	(30)	SIGNED	4	DASTRKLM(0)	Upper track limit (if large data sets - DAS5LGDS on)
48	(30)	BITSTRING	2	DASLOTRK	Low value (1 if relative)
50	(32)	BITSTRING	2	DASUPTRK	Upper limit
52	(34)	SIGNED	2	DASNOTGP	NUMBER OF TRACKS PER GROUP
54	(36)	SIGNED	2	DASMTCSZ	MINIMUM TRACKCELL SIZE
56	(38)	BITSTRING	1	DASTYPE	UCB DEVICE TYPE (UCBTBYT4)
<p>DASFLAG4 is updated by JES2 maintask only. There is no serialization.</p>					
57	(39)	BITSTRING	1	DASFLAG4	Fourth flag byte
<p>The next two bits have the following valid states:</p> <p>00 No signature records, none desired</p> <p>01 No signature records, but signature records desired</p> <p>11 Signature records exist</p>					
	1... ..			DAS4SIG	"B'10000000" Extent has signature rcds
	.1... ..			DAS4MFMT	"B'01000000" Extent needs to be mini-formatted
	..1.			DAS4SFMT	"B'00100000" DAS is on \$DASWRKQ performing mini-format
	...1			DAS4PFMT	"B'00010000" DAS is on \$DASWRKQ pending mini-format
	.... 1...			DAS4ECKD	"B'00001000" Extent is on ECKD device
	.... .1..			DAS4RDTD	"B'00000100" Extent supports read track data CCW
	.... ..1.			DAS4WTRD	"B'00000010" Extent supports write track data CCW
	.... ...1			DAS4RELT	"B'00000001" This extent uses relative track addresses

Table 122. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	ADDRESS	1	DASMIGTR	SYSID of migrator system - system housing migrator subtask. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) or DAS8MGMR (Volume is migrating - merge). Only valid for source of migration.
59	(3B)	BITSTRING	1		Reserved (was DASRPS0)
60	(3C)	CHARACTER	44	DASDSN	SP00L data set name
104	(68)	SIGNED	4	DASTGNUM	Number of TGs in extent
108	(6C)	SIGNED	4	DASJBNUM	Lowest job number using extent while either 1. halting or draining (DAS5POST off) or 2. POSTing jobs (DAS5POST on)
112	(70)	SIGNED	4	DASSTRK	First track of spool extent if relative addressing is being used (else 0)
116	(74)	BITSTRING	1	DASFLAG5	Fifth flag byte
		1...		DAS5LGDS	"B'10000000" Large data set support active for volume
		.1..		DAS5IOHT	"B'01000000" HALT command initiated by I/O error condition
		..1.		DAS5FALC	"B'00100000" Volume fully allocated
		...1		DAS5POST	"B'00010000" POSTing activity needed/ in process for final start spool command processing
		.... 1...		DAS5CYL	"B'00001000" Data set allcated on EAV cylinder managed-EAS storage
117	(75)	BITSTRING	1	DASFLAG6	Sixth flag byte
		1...		DAS6MAX	"B'10000000" MAX - \$\$SPL and MAX has been specified on SPACE keyword parm
		.1..		DAS6CYLS	"B'01000000" CYL - \$\$SPL and CYL has been specified on SPACE keyword parm
		..1.		DAS6TRKS	"B'00100000" TRK - \$\$SPL and TRK has been specified on SPACE keyword parm
		.... 1...		DAS6RESV	"B'00001000" Upon migration completion - this volume must be left in reserved state. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) and only for a target volume.
		.... .1..		DAS6RSTA	"B'00000100" Volume is in reserved state. Selection may occur - but not allocation. This is an attribute verses state.
		.... ..1.		DAS6XTND	"B'00000010" EXTEND command in progress
		.... ...1		DAS6XTER	"B'00000001" EXTEND command in progress and failed before command completion. Used by Initialization to detect a data set size mismatch that should be allowed.
118	(76)	BITSTRING	4	DASSYAFF	Spool system affinity
122	(7A)	SIGNED	2		Reserved
124	(7C)	SIGNED	4	DASNUMTC	\$\$SPL and this field contains the number of cylinders or tracks requested for a new volume data set.

Table 122. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	BITSTRING	4	DASMAPTR	Mapped track number in target volume. This is absolute track. Valid only if a mapped volume - DASFLAG8 -> DAS8UPTG is true. Only valid for migration source volume.
128	(80)	CHARACTER	6	DASTARG	Represents target volser for a spool migration. This could be either a move or merge migration. If a move -- then this value is not only volser -- but also a named BERT which will house the target volumes DAS during phase 1 of the ensuing migration. Only valid for migration source volume. For a mapped volume this field will identify the target DAS even after the migration is successful.
134	(86)	BITSTRING	1	DAS7PHAS	Migration phase. Only valid for a migrating source volume.
	.... ....			DAS7NOMG	"X'00'" No migration active
	.... .1..			DAS7PEND	"X'04'" Migration command pending. In this phase source and target data sets will be validated. Also source will be inactive OR draining/halting and beyond phase 1 processing. Required for both move and merge.
	.... 1...			DAS7SET1	"X'08'" Setup and initialize migration tasking environment. One member becomes migrator -- migration subtask is attached. All MAS members have migration assistant subtask attached. Subtasks are ready for pending migration. Required for both move and merge.
	.... 11..			DAS7SET2	"X'0C'" Setup2 - Migration move - all members must allocate target volume - BERT backed DAS, reserve SRC TGM and size verification. Only move.
	...1			DAS7SET3	"X'10'" Source and target size size verification. Also TGM reservation. Required for merge.
	...1 .1..			DAS7PHA1	"X'14'" Phase 1 migration. Move and merge.
	...1 11..			DAS7PHA2	"X'1C'" Phase 2 migration. Move and merge.
Migration cleanup phases					
	..1.			DAS7CLUM	"X'20'" Migrator subtask cleanup is occurring (Backout or cancellation). Move and merge.
	..1. .1..			DAS7CLU3	"X'24'" Cleanup for migration phase DAS7SET3. (Backout or cancellation). Merge only
	..1. 1...			DAS7CLU2	"X'28'" Cleanup for migration phase DAS7SET2. (Backout or cancellation). Move only.
	..1. 11..			DAS7CLU1	"X'2C'" Cleanup for migration phase DAS7SET1. (Backout or cancellation). Move and merge.
135	(87)	BITSTRING	1	DASFLAG8	Migration flag 2
	1...			DAS8TARG	"B'10000000'" This volume is a migration target. Only valid for target - not source.

Table 122. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description												
		.1..		DAS8TMOV	"B'01000000'" Target allocation was initiated by move verses merge. Only valid for target - not source.												
		..1.		DAS8MGMV	"B'00100000'" Migrating - move. Only valid for migrating src.												
		...1		DAS8MGMR	"B'00010000'" Migrating - merge. Only valid for migrating src.												
	 1...		DAS8UPTG	"B'00001000'" Mapped volume and runtime must update target TGM if and only if DASTARTS is also > 0. DAS8UPTG is set on at the atomic point of merge and stays set until the DAS goes away.												
	1..		DAS8MAPT	"B'00000100'" This volume is mapped-on by at least one volume.												
	1.		DAS8CANC	"B'00000010'" Either error or operator has requested migration cancel.												
	1		DAS8CNAK	"B'00000001'" Migration is being cancelled.												
136	(88)	SIGNED	4	DASTRAKQ	OFFSET OF NEXT DAS IN THE TGM												
140	(8C)	SIGNED	4	DASWORKQ	OFFSET OF NXT DAS ON CMD WORK Q												
144	(90)	SIGNED	4	DASMAPSZ	Number of bytes in the track group map												
148	(94)	SIGNED	4	DASMAPO	OFFSET OF THIS MAP FROM \$TGMAP												
152	(98)	SIGNED	2	DASTGSIZ	TG SIZE ON THIS VOLUME, ROUNDED FOR NUMBER OF BUFS PER TRACK												
154	(9A)	SIGNED	2		RESERVED FOR FUTURE USE												
156	(9C)	BITSTRING	1	DASFLAG2	COMMAND FLAG BYTE												
		1...		DASCDRN	"B'10000000'" DRAIN COMMAND HAS BEEN ISSUED												
		.1..		DASCHALT	"B'01000000'" HALT COMMAND HAS BEEN ISSUED												
		..1.		DASCSTRT	"B'00100000'" START COMMAND HAS BEEN ISSUED												
		...1		DASCFMT	"B'00010000'" FORMAT REQUESTED												
	 1...		DASINACT	"B'00001000'" THIS VOLUME IS INACTIVE												
	1.		DASINIT	"B'00000010'" INITIAL START HAS BEEN PERFORMED **note bit out of order**												
<div>The following two bits determine which phase (1-3) the drain/halt command is currently processing.</div> <table><tr><th>Phase</th><th>DASBLOB</th><th>DASJOBWT</th></tr><tr><td>1</td><td>on</td><td>n/a</td></tr><tr><td>2</td><td>off</td><td>on</td></tr><tr><td>3</td><td>off</td><td>off</td></tr></table>						Phase	DASBLOB	DASJOBWT	1	on	n/a	2	off	on	3	off	off
Phase	DASBLOB	DASJOBWT															
1	on	n/a															
2	off	on															
3	off	off															
	1..		DASBLOB	"B'00000100'" Indicates which phase of drain/halt processing has completed(acts as a gate to Phase 2, deallocation)												
	1		DASJOBWT	"B'00000001'" HALT/DRAIN WAITING JOBS												
<div>Starting in z/OS 1.13 with the inclusion of the Extend SPOOL command, DASCNMDS does not represent all spool commands. Code needs to account for command bits in DASFLAG2 and DASFLAGA.</div>																	
156	(9C)	X'F0'	0	DASCNMDS	"DASCDRN+DASCHALT+DASCSTRT+DASCFMT"												

Table 122. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	X'80'	0	DASCMND2	"DASCXTND"
157	(9D)	BITSTRING	1	DASFLAG3	FLAG BYTE
		1...		DAS3ITGM	"B'10000000'" This extent on DASTRAKQ
		.1..		DAS3SYSA	"B'01000000'" System affinity set for this volume
		..1.		DAS3CNCL	"B'00100000'" Command issued with CANCEL operand
		...1		DAS3EFWZ	"B'00010000'" Extent signature record populated with zero
		.... 1...		DAS3STUN	"B'00001000'" Volume has more space than represented in map (i.e. this is stunted)
158	(9E)	BITSTRING	1	DASCMD2	Member nr issuing new cmd
159	(9F)	BITSTRING	1	DASFLAGA	Command Flag Byte #2
		1...		DASCXTND	"B'10000000'" Extend command issued
160	(A0)	SIGNED	2	DASCSAC(0)	End of area copied to CSA
160	(A0)	X'A0'	0	DASSIZCO	"*-DAS" Len of area copied to CSA

Table 123. Structure DASCSEA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCSEA	, CSA only DAS DSECT
0	(0)	SIGNED	4	DASCTGAL	CSA only mapping of track groups allocated
4	(4)	SIGNED	4	DASCLOTK	CSA only low track limit
8	(8)	SIGNED	4	DASCUPTK	CSA only upper track limit
12	(C)	BITSTRING	64	DASRPS	RPS Table for this device
76	(4C)	BITSTRING	32	DASENQTK	ISGENQ token
Start of DASMIGIO WARNING!!! - DASMIGIO and ASMMIGIO in \$DTEASST must be kept in sync					
108	(6C)	SIGNED	4	DASMIGIO(0)	Start of migration I/O directives. This area must be atomically maintained. Area size is denoted below by DASMIGSZ.
108	(6C)	BITSTRING	1	DASFLAG9	Flag 9
		1...		DAS9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13D015 permission request" to @Z13D015 migrator mailbox RN\$<VOLSER>. VOLSER is source DAS - DASVOLID. Set by migration assistant subtask.
		.1..		DAS9MAPD	"B'01000000'" Source DAS is mapped to target and DASMAPTR must used to calculate corresponding track in target. Use DEB extent in DAS pointed by DASTRADD. Set by migration assistant subtask.

Table 123. Structure DASCSEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
109	(6D)	ADDRESS	1	DASMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be re-done. Always captured. Set by migration assistant subtask.
110	(6E)	BITSTRING	2		Reserved
110	(6E)	X'4'	0	DASMIGSZ	"*-DASMIGIO" Length of area which must be atomically updated.
End of DASMIGIO					
112	(70)	ADDRESS	4	DASTRADD	If migration is a merge - then this points to target associated CSA entry.
120	(78)	ADDRESS	8	DASTBITM	Address of member track level bitmap. Located in 64 bit common storage. Only valid if DADFLAG9-> DASSNMIG. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
128	(80)	SIGNED	4	DASTARTS	If this volume is mapped to another volume DAS8UPTG = ON, then this value marks start TG in target TGM. Transposer will use on all members. Note if this value is 0 then no data moved to target - in other words source was empty. If 0 - then transposer must no-op for this DAS.
132	(84)	ADDRESS	4	DASGR TOK	JESXCF group token used to create MG\$VOLSER and RN\$VOLSER mailboxes
136	(88)	BITSTRING	1	DASMGCMP	Migration percent complete Broadcast every so often to all MAS members.
137	(89)	BITSTRING	1	DASFLAGB	Flag B - Broadcast settings
		1...		DASBNCAN	"B'10000000" Migration can no longer be cancelled. Broadcast to all MAS members when migration atomic point reached.
138	(8A)	BITSTRING	22		Reserved
DEB extent information in CSA DAS must be quadword aligned due to hardware atomicity considerations Use LPQ/STPQ to get/set this field.					
160	(A0)		1	(0)	Align
160	(A0)	BITSTRING	1	DASDEBXT	DEB extent for this volume
DAS status is more complex starting with z/OS 1.13. Status includes the traditional settings in DASFLAG and may also need to incorporate SP00L migration. DASSTAT combines these settings into a single status field that can be used by \$SCAN. Prescan routine PREDSTS fills in this value.					
176	(B0)	BITSTRING	1	DASSTAT	Binary Status value
		...1		DASSTACT	"X'10'" SP00L is active. Allocation may occur
		..1.		DASSTSTR	"X'20'" SP00L is starting.
		..11		DASSTDRN	"X'30'" SP00L is draining
		.1..		DASSTHLT	"X'40'" SP00L is halting
		.1.1		DASSTEXT	"X'50'" SP00L is extending
		.111		DASSTMIG	"X'70'" SP00L is migrating

Table 123. Structure DASCSEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.111 ...1		DASSTMMV	"X'71'" SP00L is migrating-move
		.111 ..1.		DASSTMMG	"X'72'" SP00L is migrating-merge
		1..1		DASSTMAP	"X'90'" SP00L is mapped
		.... ....		DASSTINA	"X'00'" SP00L is inactive
177	(B1)	BITSTRING	3		Reserved
192	(C0)		1	(0)	Align - This must be the last declare before the end of the CSA DAS
192	(C0)	X'C0'	0	DASENDC	"*" End of CSA DAS
192	(C0)	X'C0'	0	DASCSALN	"*-DASCSEA" CSA only portion of DAS len
192	(C0)	X'160'	0	DASSIZC	"DASSIZCO+DASCSALN" Length of CSA mapped DAS

Table 124. Structure DASCCKPT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCCKPT	, CKPT only DAS DSECT
THE NEXT FOUR FIELDS MUST BE KEPT TOGETHER. ROUTINE DADCKALL IN HASPSPOL DEPENDS ON THESE FIELDS BEING CONTIGUOUS.					
0	(0)	SIGNED	4	DASINDIC(0)	INDICATOR FIELDS
0	(0)	BITSTRING	4	DASALOCs	Sys. with ext alloc'ed
4	(4)	BITSTRING	4	DASDONE	Cmd done on these systems
8	(8)	BITSTRING	4	DASBUSY	Cmd being done on systems
12	(C)	ADDRESS	1	DASCMDID	SYSID of sys issuing cmd
12	(C)	X'D'	0	DASINDLN	"*-DASINDIC" Length of indicator fields
13	(D)	BITSTRING	4	DASERROR	Affinity of system with command error
17	(11)	BITSTRING	35	DASERCDE	Error reason code for each member
52	(34)	SIGNED	4	(0)	ALIGN END OF DAS
52	(34)	X'34'	0	DASCCKPTL	"*-DASCCKPT" CKPT only portion DAS len
52	(34)	X'D4'	0	DASSIZ	"DASSIZCO+DASCCKPTL" Length of CKPT mapped DAS
52	(34)	X'8'	0	DASVRSN	"8" Version of the DAS
THESE EQUATES REPRESENT THE ERROR CONDITIONS THAT ARE REFLECTED IN DASERCDE. THERE IS A DASERCDE SLOT FOR EACH POSSIBLE SYSTEM IN AN MAS COMPLEX. DASERROR BIT SETTING INDICATE WHICH SYSTEM HAD AN ERROR AND WHAT OFFSET INTO DASERCDE SHOULD BE LOOKED AT.					
52	(34)	X'4'	0	DASMNTER	"4,L'DASERCDE" VOLUME NOT MOUNTED
52	(34)	X'8'	0	DASDUPER	"8,L'DASERCDE" DUPLICATE SPOOL VOLUMES
52	(34)	X'C'	0	DASALCER	"12,L'DASERCDE" ALLOCATION ERROR
52	(34)	X'10'	0	DASPMTER	"16,L'DASERCDE" PREVIOUS MOUNTED VOL NOT MOUNTED
52	(34)	X'14'	0	DASEXTER	"20,L'DASERCDE" EXTENT ERROR
52	(34)	X'18'	0	DASFMTER	"24,L'DASERCDE" PREV. MOUNTED VOL NOT FORMATTED
52	(34)	X'1C'	0	DASENQER	"28,L'DASERCDE" ENQ already held for volume

Table 124. Structure DASCKPT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	X'20'	0	DASUCBER	"32,L'DASERCDE" UCBINFO macro failed
52	(34)	X'24'	0	DASCDRER	"36,L'DASERCDE" IOSCDR macro failed
52	(34)	X'28'	0	DASNEDER	"40,L'DASERCDE" NED not found by IOSCDR
52	(34)	X'2C'	0	DASDIAGR	"44,L'DASERCDE" DIAGNOSE inst error
52	(34)	X'30'	0	DASDLSPC	"48,L'DASERCDE" LSPACE macro failed
52	(34)	X'34'	0	DASNOTRG	"52,L'DASERCDE" No track groups
52	(34)	X'38'	0	DASXTNDE	"56,L'DASERCDE" Extend SP00L error
52	(34)	X'3C'	0	DASXTNSP	"60,L'DASERCDE" Extend SP00L error - Insufficient space
52	(34)	X'40'	0	DASXTEXT	"64,L'DASERCDE" Extend SP00L error - No extents in data set
52	(34)	X'44'	0	DASXTSIZ	"68,L'DASERCDE" Extend SP00L error - Data set already req size
<p>THE FOLLOWING EQUATES ARE USED TO MAP OUT FIELDS IN THE MASTER RECORD ASSOCIATED WITH THE DAS. THE FIELDS IN THE MASTER RECORD CAN BE THOUGHT OF AS AN EXTENSION TO EACH DAS. ALTHOUGH THERE IS A DASEXTGA ASSOCIATED WITH EACH DAS, IT IS KEPT IN THE MASTER RECORD BECAUSE IT IS ALTERED BY THE CKPT PROCESSOR EACH CYCLE. THE DAS EXTENSION AREAS ARE CONTIGUOUS IN STORAGE, AS ARE THE DASES. THE NTH EXTENSION AREA IS ASSOCIATED WITH THE NTH DAS (AS DEFINED BY DASEXTNO). Note: track groups assigned to the BLOB are considered allocated for purposes of this count. DAS extension sizes if large data set support is active (\$SPLLGDS on)</p>					
52	(34)	X'0'	0	DASXTGA4	"0,4" Number of TGs allocated
52	(34)	X'4'	0	DASXTLN4	"L'DASXTGA4" Length of DAS extension

Table 125. Structure MIGR808

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIGR808	, HASP808 parms
0	(0)	CHARACTER	6	MIGRSRC	Migration source volume
6	(6)	CHARACTER	6	MIGRTAR	Migration target volume
12	(C)	BITSTRING	1	MIGRFRNT	Indication if upfront SRC and targ text should be cut. x'FF' - yes x'00' - no
13	(D)	BITSTRING	1	MIGRBACK	Requested backend text
<p>Following two fields only valid when migrator takeover message is being cut. MIGRFLAG -> MIGRFTAK</p>					
14	(E)	CHARACTER	4	MIGDWNMR	Down or hot-startable member
18	(12)	CHARACTER	4	MIGTAKMR	Migrator takeover member
22	(16)	BITSTRING	1	MIGRFLAG	MIGR808 Flag
		1...		MIGRFMOV	"B'10000000'" Use MOVE completion text
		.1..		MIGRFMRG	"B'01000000'" Use MERGE completion text
		..1.		MIGRFTAK	"B'00100000'" Migrator takeover message
22	(16)	X'17'	0	MIGR8LEN	"*-MIGR808" Length of a HASP808 parms

Table 126. Cross Reference for \$DAS

Name	Offset	Hex Tag
DAS	0	
DASACTIV	7	C
DASALCER	34	C
DASALLOC	7	4
DASALOCs	0	0
DASAVAIL	7	CC
DASBLOB	9C	4
DASBNCAN	89	80
DASBUSY	8	0
DASCDRER	34	24
DASCDRN	9C	80
DASCFMT	9C	10
DASCHALT	9C	40
DASCKPT	0	
DASCKPTL	34	34
DASCLOTK	4	0
DASCMDID	C	
DASCMD2	9E	0
DASCMNDS	9C	F0
DASCMND2	9C	80
DASCSA	0	
DASCSAC	A0	
DASCSALN	C0	C0
DASCSTRT	9C	20
DASCTGAL	0	
DASCUPTK	8	0
DASCXTND	9F	80
DASDEBXT	A0	
DASDIAGR	34	2C
DASDLSPC	34	30
DASDONE	4	0
DASDRAIN	7	80
DASDSN	3C	40404040
DASDUPER	34	8
DASENDC	C0	C0
DASENQER	34	1C
DASENQTK	4C	
DASERCDE	11	0
DASERROR	D	0

Table 126. Cross Reference for \$DAS (continued)

Name	Offset	Hex Tag
DASEXSTS	7	10
DASEXTER	34	14
DASEXTNO	6	0
DASFINAL	7	2
DASFLAG	7	0
DASFLAGA	9F	0
DASFLAGB	89	0
DASFLAG2	9C	0
DASFLAG3	9D	0
DASFLAG4	39	
DASFLAG5	74	
DASFLAG6	75	
DASFLAG8	87	0
DASFLAG9	6C	
DASFMTER	34	18
DASGRTOK	84	
DASHALT	7	40
DASINACT	9C	8
DASINDIC	0	
DASINDLN	C	D
DASINIT	9C	2
DASIOOK	7	48
DASJBNUM	6C	0
DASJOBWT	9C	1
DASLOTRK	30	0
DASMAPO	94	0
DASMAPSZ	90	
DASMAPTR	7C	
DASMASK	8	0
DASMGCMP	88	
DASMIGIO	6C	
DASMIGSZ	6E	4
DASMIGT	6D	
DASMIGTR	3A	
DASMNTER	34	4
DASMTCSZ	36	1
DASNEDER	34	28
DASNORTK	2E	0
DASNOTGP	34	0

Table 126. Cross Reference for \$DAS (continued)

Name	Offset	Hex Tag
DASNOTRG	34	34
DASNUMTC	7C	
DASPMTER	34	10
DASRPS	C	0
DASRPSF	7	1
DASSELEC	7	8
DASSIZ	34	D4
DASSIZC	C0	160
DASSIZCO	A0	A0
DASSTACT	B0	10
DASSTAT	B0	0
DASSTDRN	B0	30
DASSTEXT	B0	50
DASSTHLT	B0	40
DASSTINA	B0	0
DASSTMAP	B0	90
DASSTMIG	B0	70
DASSTMMG	B0	72
DASSTMMV	B0	71
DASSTRK	70	0
DASSTSTR	B0	20
DASSYAFF	76	
DASTARG	80	
DASTART	7	20
DASTARTS	80	
DASTBITM	78	
DASTGNUM	68	0
DASTGSIZ	98	0
DASTKCYL	28	0
DASTRADD	70	
DASTRAKQ	88	0
DASTRK	30	
DASTRKLM	30	
DASTYPE	38	0
DASUCBER	34	20
DASUPTRK	32	0
DASVOLID	0	40404040
DASVRSN	34	8
DASWORKQ	8C	0

Table 126. Cross Reference for \$DAS (continued)

Name	Offset	Hex Tag
DASXTEXT	34	40
DASXTGA4	34	0
DASXTLN4	34	4
DASXTNDE	34	38
DASXTNSP	34	3C
DASXTSIZ	34	44
DAS3CNCL	9D	20
DAS3EFWZ	9D	10
DAS3ITGM	9D	80
DAS3STUN	9D	8
DAS3SYSA	9D	40
DAS4ECKD	39	8
DAS4MFMF	39	40
DAS4PFMT	39	10
DAS4RDTD	39	4
DAS4RELT	39	1
DAS4SFMT	39	20
DAS4SIG	39	80
DAS4WTRD	39	2
DAS5CYL	74	8
DAS5FALC	74	20
DAS5IOHT	74	40
DAS5LGDS	74	80
DAS5POST	74	10
DAS6CYLS	75	40
DAS6MAX	75	80
DAS6RESV	75	8
DAS6RSTA	75	4
DAS6TRKS	75	20
DAS6XTER	75	1
DAS6XTND	75	2
DAS7CLUM	86	20
DAS7CLU1	86	2C
DAS7CLU2	86	28
DAS7CLU3	86	24
DAS7NOMG	86	0
DAS7PEND	86	4
DAS7PHAS	86	0
DAS7PHA1	86	14

Table 126. Cross Reference for \$DAS (continued)

Name	Offset	Hex Tag
DAS7PHA2	86	1C
DAS7SET1	86	8
DAS7SET2	86	C
DAS7SET3	86	10
DAS8CANC	87	2
DAS8CNAK	87	1
DAS8MAPT	87	4
DAS8MGMR	87	10
DAS8MGMV	87	20
DAS8TARG	87	80
DAS8TMOV	87	40
DAS8UPTG	87	8
DAS9MAPD	6C	40
DAS9NMIG	6C	80
MIGDWNMR	E	
MIGRBACK	D	
MIGRFLAG	16	
MIGRFMOV	16	80
MIGRFMRG	16	40
MIGRFRNT	C	
MIGRFTAK	16	20
MIGRSRC	0	
MIGRTAR	6	
MIGR8LEN	16	17
MIGR808	0	
MIGTAKMR	12	

\$DAWNWRK information

\$DAWNWRK heading information

Common name:	JES2 DAWN Processor
Macro ID:	\$DAWNWRK
DSECT name:	PCE (\$DAWNWRK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol DWNPCWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$DAWNPC field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the DAWN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 DAWN Processor and by its support routine and exits. \$DAWNWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$DAWNWRK are actually part of PCE DSECT, but only map PCEs with the value PCEDWNID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$DAWNWRK mapping

Table 127. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	SIGNED	4	(6)	Reserved for future use
360	(168)	DBL WORD	8	(0)	Alignment
360	(168)	X'18'	0	DWNPCWL	"*-PCEWORK" Length of DAWN PCE

\$DCT information

\$DCT programming interface information

The following fields are **NOT** programming interface information:

- DCTACB
- DCTDCB
- DCTUCB
- MDCTPCL

\$DCT heading information

Common name: Device Control Table
Macro ID: \$DCT
DSECT name: DCT

Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DCT ' Offset: DCTID-DCT Length: 4
Storage attributes:	Subpool: 2 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	Size is of varying lengths. See \$DCTTABs and the length equates throughout DCT for the length specifications for each DCT type.
Created by:	Most DCTs are allocated using the \$DCTDYN service during initialization or as a result of a \$ADD command. Remote and network subdevices are obtained during JES2 initialization.
Pointed to by:	<ul style="list-style-type: none"> - the PCEDCT field of the associated \$PCE data area, if any - chaining fields, and associated-device fields, in related \$DCT data areas, including DCTCHAIN, DCTFSSCH, MDCTADCT, MDCTDCT, XDCTDCT, MDCTACT, XDCTACTV, MDCTSDCT - anchor fields for all \$DCTs in the \$HCT data area, including \$DCTPOOL and \$DCTPOOL2 - anchor fields for each type of \$DCT data area, in the \$HCT or \$UCT data area, as directed by each \$DCT type's defining \$DCTTAB specification - I/O, request, and status anchors in the \$HCT data area - fields within the \$MLMWORK data area, including MLMSNALG, MLMSNAAL, MLMLOGQ, MLMXLDCT - fields within other device-managing JES2 processor work areas, like \$MLMWORK, including the \$RCPWORK, \$NPMWORK, and \$XFRWORK data area, and subtask \$DTEOFF data area - fields within RJE/NJE related data areas used for RJE terminal definition, NJE node definition, and I/O, including the RJE \$RAT data area, NJE \$NIT and \$NITP and \$PCT data areas, and VTAM \$ICE data area - fields within parameters lists for JES2 exits, in the \$XPL data area, typically labeled XnnnDCT, where nnn is the exit number <p>The following fields are used to chain DCTs on the \$#POST work queues:</p> <ul style="list-style-type: none"> - \$NJEADCT field of the HCT data area - \$OFFADCT field of the HCT data area - \$LCLADCT field of the HCT data area - DCTNACTV field of the DCT data area - DCTPACTV field of the DCT data area
Serialization:	Standard JES2 reentrancy techniques

Function:

The DCT defines the devices used by the JES2 address space, their attributes and the related parameter settings. A DCT may or may not be supported on a one-for-one basis by a processor (PCE). If they are thus supported, the PCE might not exist if the DCT is not active.

\$DCT mapping

Table 128. Structure DCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DCT	DEVICE CONTROL TABLE DSECT
GENERAL DCT FOUNDATION - REQUIRED AND COMMON TO ALL DCTS. NOTE THAT THE FOLLOWING FIELDS (THROUGH DCTDEVTP) MUST CORRESPOND EXACTLY TO THE PCEDADCT AND PPPDADCT FIELDS					
0	(0)	CHARACTER	4	DCTID	CONTROL BLOCK IDENTIFIER
4	(4)	SIGNED	2	DCTSIZE	DCT size in bytes
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	DCTPCE	ADDRESS OF PROCESSOR CNTRL ELEM.
12	(C)	SIGNED	4	DCTFLGFW(0)	FOLLOWING FOUR FLAG BYTES MUST BE KEPT CONTIGUOUS FOR COMPARE AND SWAP PROCESSING
12	(C)	BITSTRING	1	DCTSTAT	STATUS FLAGS
		1... ..		DCTINUSE	"B'10000000" DCT is in use
		.1... ..		DCTDRAIN	"B'01000000" DCT is drained
		..1.		DCTHOLD	"B'00100000" DCT is held
		...1		DCTUNAL	"B'00010000" DCT is unallocated
		.... 1...		DCTRTAM	"B'00001000" DCT in process by RTAM
		.... .1..		DCTSTRT	"B'00000100" SPOF xmitter/receiver START INDICATOR
		.... .1..		DCTPATTN	"B'00000100" Local reader attention pending
		.... ..1.		DCTATTN	"B'00000010" DCT is set for attention processing
		.... ...1		DCTPAUSE	"B'00000001" DCT is paused
13	(D)	BITSTRING	1	DCTFLAGS	OPERATOR COMMAND FLAGS
		1... ..		DCTSTOP	"B'10000000" \$Z command
		.1... ..		DCTDELET	"B'01000000" \$C command
		..1.		DCTRSTRT	"B'00100000" \$E command
		...1		DCTRPT	"B'00010000" \$N command
		...1		DCTSOFF2	"B'00010000" MDCTSTAT/DCTSOFF shadow for line DCTs, used only during CMD \$SCAN, \$N LINE not supported
		.... 1...		DCTBKSP	"B'00001000" \$B command
		.... .1..		DCTHOLDJ	"B'00000100" \$T...,H command
		.... ..11		DCTSPACE	"B'00000011" \$T...,K=X command
		.... ..1.		DCTSP2	"B'00000010" Force double spacing
		.... ...1		DCTSP1	"B'00000001" Force single spacing
		.... ...1		DCTLOGAL	"B'00000001" \$TLNEx,E=Y command
14	(E)	BITSTRING	1	DCTFLAG2	MORE DCT FLAGS
		1... ..		DCTRACE	"B'10000000" Device eligible for I/O tracing

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCTERMNR	"B'01000000'" Stream terminated by receiver
		..1.		DCTRBFF	"B'00100000'" NJE Route buffer full
		...1		DCTRRDY	"B'00010000'" NJE Route receiver ready
		.... 1...		DCT2POST	"B'00001000'" SNA line manager is waiting to be \$POSTed
		.... .1..		DCT2PTRC	"B'00000100'" Processor tracing on (TR=P), only used to save PCETRACE value across \$PCEDYN PCE activity
		.... ..1.		DCT2RSP	"B'00000010'" NJE device open/close wait
		.... ...1		DCTRTE	"B'00000001'" Route codes (HASPINIT only)
		.... ...1		DCTOPEN	"B'00000001'" NJE/RJE device open req
15	(F)	BITSTRING	1	DCTFSSFL	DCT FLAGS FOR AN FSS OWNED DVC
		1...		DCTSTART	"B'10000000'" Device is being started
		.1..		DCTFCKMD	"B'01000000'" CKPT mode page 'ON', TIME 'OFF'
		..1.		DCTDFDLT	"B'00100000'" Reset setup defaults
		...1		DCTFSYNC	"B'00010000'" Dev parm changes require synch order
		.... 1...		DCTFSET	"B'00001000'" Dev parm changes require set order
		.... .1..		DCTCMODF	"B'00000100'" Change mode to FSS mode
		.... ..1.		DCTCMODJ	"B'00000010'" Change mode to JES mode
		.... ...1		DCTFSSMD	"B'00000001'" DCT/PCE is in FSS mode
16	(10)	ADDRESS	4	DCTDCB(0)	ADDRESS OF DATA CONTROL BLOCK
16	(10)	ADDRESS	4	DCTACB(0)	ADDRESS OF ACB
16	(10)	SIGNED	4	DCTSEEK	MTTR value \$EXCP
20	(14)	BITSTRING	4		Reserved
16	(10)	DBL WORD	8	DCTMQTRD(0)	MQTR value for \$EXCP
16	(10)	BITSTRING	1	DCTSEEKF	'FF'x if MQTR is set
17	(11)	BITSTRING	1		Reserved
18	(12)	BITSTRING	6	DCTMQTR	MQTR value for \$EXCP
24	(18)	ADDRESS	4	MDCTSDCT(0)	ADDR OF NXT SUSPND RMT DCT (SNA)
24	(18)	ADDRESS	4	DCTBUFAD	ADDRESS OF CURRENT BUFFER
28	(1C)	ADDRESS	4	DCTEWF	PCE WITH EWF TO POST OR EXIT ADDR
32	(20)	SIGNED	2	DCTBUFCN	Count of active buffers
32	(20)	X'14'	0	DCTBUFLM	"20" Max buffers for some DCT types (NOT enforced for all types)
34	(22)	BITSTRING	1	DCTDEVTP	DEVICE TYPE

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Start of DEVICE TYPE definition Since bits are combined to define some device types, extreme caution must be used when testing the type. For example, the X'20' bit is on for local and remote printers and punches, and NJE and SPOF job and sysout transmitters. Use a TM instruction to test for a class of device. Use a CLI instruction to test for an exact type of device. Examples: Test for a local printer: CLI DCTDEVTP,DCTPRT Local printer? BNE SKIPIT No, skip it Test for a local or remote printer or punch: TM DCTDEVTP,DCTPRPU Prt/punch or transmitter? BZ SKIPIT No, skip it TM DCTDEVTP,DCTNET Transmitter? BO SKIPIT Yes, skip it EQU X'00' RESERVED FOR PCEDARD EQU X'01' RESERVED FOR PCEDAWR					
	.... .1.			DCTRJE	"X'02'" REMOTE JOB ENTRY DEVICE
	.... .1..			DCTINT	"X'04'" INTERNAL DEVICE
	.... 1...			DCTNET	"X'08'" NETWORK REMOTE DEVICE
	.1..			DCTDVTPX	"X'40'" EXTRA FLAG TO FURTHER IDENTIFY DCT DEVICE TYPES, PROVIDING UNIQUE IDS ACROSS ALL DCT TYPES
	1...			DCTSPOF	"X'80'" SPOOL OFFLOAD DEVICE
34	(22) X'2'		0	DCTLNE	"DCTRJE" REMOTE JOB ENTRY LINE
34	(22) X'E'		0	DCTMLNE	"DCTINT+DCTRJE+DCTNET" MAS JOB ENTRY LINE
34	(22) X'6'		0	DCTLOG	"DCTINT+DCTRJE" APPLICATION LOGON DCT
34	(22) X'C'		0	DCTSRV	"DCTINT+DCTNET" NJE SERVER DCT
	...1			DCTRDR	"X'10'" LOCAL CARD READER
34	(22) X'12'		0	DCTRJR	"DCTRJE+DCTRDR" REMOTE CARD READER
34	(22) X'14'		0	DCTINR	"DCTINT+DCTRDR" INTERNAL READER
34	(22) X'50'		0	DCTRJI	"DCTDVTPX+DCTRDR" REQUEST-FOR-JOBID DCT
	..1.			DCTPRT	"X'20'" LOCAL PRINTER
34	(22) X'22'		0	DCTRPR	"DCTRJE+DCTPRT" REMOTE PRINTER
	..11			DCTPUN	"X'30'" LOCAL PUNCH
34	(22) X'32'		0	DCTRPV	"DCTRJE+DCTPUN" REMOTE PUNCH
34	(22) X'20'		0	DCTPRPU	"DCTPRT" PRINTER OR PUNCH
34	(22) X'30'		0	DCTRPP	"DCTRDR+DCTPRPU" READER, PRINTER, OR PUNCH
34	(22) X'42'		0	DCTRCON	"DCTRJE+DCTDVTPX" REMOTE CONSOLE
34	(22) X'18'		0	DCTNJR	"DCTNET+DCTRDR" NETWORK JOB RECEIVER
34	(22) X'38'		0	DCTNJT	"DCTNJR+DCTPRPU" NETWORK JOB TRANSMITTER
34	(22) X'8'		0	DCTNSR	"DCTNET" NETWORK SYSOUT RECEIVER
34	(22) X'28'		0	DCTNST	"DCTNSR+DCTPRPU" NETWORK SYSOUT TRANSMITTER
34	(22) X'58'		0	DCTNRR	"DCTNJR+DCTDVTPX" NETWORK ROUTE RECEIVER
34	(22) X'78'		0	DCTNRT	"DCTNJT+DCTDVTPX" NETWORK ROUTE TRANSMITTER
34	(22) X'90'		0	DCTXJR	"DCTSPOF+DCTRDR" SPOOL OFFLOAD JOB RECEIVER

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
34	(22)	X'B0'	0	DCTXJT	"DCTXJR+DCTPRPU" SPOOL OFFLOAD JOB TRANSMITTER
34	(22)	X'80'	0	DCTXSR	"DCTSPOF" SPOOL OFFLOAD SYSOUT RECEIVER
34	(22)	X'A0'	0	DCTXST	"DCTXSR+DCTPRPU" SPOOL OFFLOAD SYSOUT XMITTER
34	(22)	X'84'	0	DCTOFF	"DCTSPOF+DCTINT" SPOOL OFFLOAD MEDIA DEVICE
End of DEVICE TYPE definition					
35	(23)	BITSTRING	1	DCTFLAG3	Flags
		1...		DCT3JWS	"B'10000000'" Dev uses JOB work sel
		.1..		DCT3SWS	"B'01000000'" Dev uses SYSOUT work sel
		..1.		DCT3IOER	"B'00100000'" \$ASYNCR error detected
35	(23)	X'1C'	0	DCTDALEN	"*-DCTPCE" LENGTH OF DA DCT FOR \$EXCP
36	(24)	BITSTRING	1	DCTSTAT2	SECOND STATUS FLAG BYTE
37	(25)	BITSTRING	1	MDCTMLMQ	Expected MLM queue offset
38	(26)	SIGNED	2	DCTRSINT	Device restart interval (minutes)
40	(28)	BITSTRING	4	DCTRSTIM	Last device drain time (STCK)
44	(2C)	BITSTRING	1	DCTFLAG4	Flags
		1...		DCT4ARST	"B'10000000'" Automatically restart device
		.1..		DCT4NSYN	"B'01000000'" Skip CDCT synchronization
45	(2D)	BITSTRING	7		Reserved for future use
52	(34)	ADDRESS	4	DCTCHAIN	ADDRESS OF NEXT DCT
56	(38)	CHARACTER	8	DCTDEVN	EBCDIC DEVICE NAME
64	(40)	ADDRESS	4	DCTUCB	UCB ADDRESS
68	(44)	ADDRESS	4	DCTTOKA	SECURITY TOKEN ADDRESS - IF 0, JES TOKEN IS ASSOCIATED WITH DEVICE; ELSE, IS ADDRESS OF TOKEN
72	(48)	CHARACTER	8	DCTSECLB	SECLABEL for device
80	(50)	ADDRESS	8	DCTCDCTX	Addr of common storage extension (64-bit)
88	(58)	BITSTRING	1	DCTLRECL	DEVICE DEFAULT LRECL
Start of DEVICE ID definition					
89	(59)	BITSTRING	3	DCTDEVID	DEVICE IDENTITY
DCTDEVID (first byte only) Use CLI, not TM, to test DCTINRID since the equate value is 0.					
		.... ....		DCTINRID	"B'00000000'" Internal reader

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>For the following devices, the low 4 bits may be used as a device number 'x':</p> <p>local device - always 0</p> <p>remote device - RMTn.RDx, RMTn.PRx, RMTn.PUX</p> <p>network device - Ln.JRx, Ln.JTx, Ln.STx, Ln.SRx</p> <p>route device - always hex '8' (DCTRTEID)</p> <p>spof device - always hex 'F' (DCTXFRID)</p> <p>Use CLI to test for a local device.</p> <p>E.G. CLI DCTDEVID,DCTRDRID Local reader?</p> <p>Use TM to test for an RJE or an NJE</p> <p>E.G. TM DCTDEVID,DCTRMID+DCTNJID</p> <p>BM Is RJE or NJE</p> <p>B0 Is Line or Logon</p> <p>BZ Is Local</p>					
	...1			DCTRDRID	"B'00010000'" Card reader
	..1.			DCTPRTID	"B'00100000'" Printer
	..11			DCTPUNID	"B'00110000'" Punch
	.1..			DCTNJTID	"B'01000000'" Job transmitter
	.1.1			DCTNJRID	"B'01010000'" Job reader
	.11.			DCTNSTID	"B'01100000'" Sysout transmitter
	.111			DCTNSRID	"B'01110000'" Sysout receiver
	1...			DCTRMID	"B'10000000'" Remote device
<p>B'10010000' DCTRMID+DCTRDRID</p> <p>B'10100000' DCTRMID+DCTPRTID</p> <p>B'10110000' DCTRMID+DCTPUNID</p>					
	11..			DCTLGNID	"B'11000000'" Logon
	11.1			DCTLNEID	"B'11010000'" Line
	111.			DCTSRVID	"B'11100000'" Server
DCTXFRID is valid only when combined with one of the transmitter/receiver bit equates.					
	.... 1111			DCTXFRID	"B'00001111'" Spool transfer device
	1111 1111			DCTOFFID	"B'11111111'" Offload parent device
DCTRTEID is valid only when combined with the job receiver or job transmitter equate.					
	.... 1...			DCTRTEID	"B'00001000'" Route device
<p>The following equates indicate pseudo devices.</p> <p>There can be up to 15 of these ('0001'b-'1111'b).</p> <p>CLI must be used to test for these devices.</p>					
	.... ...1			DCTSFSID	"B'00000001'" SJFR pseudo device
	.... ...1.			DCTSPNID	"B'00000010'" Spin pseudo device - to prevent JOE from getting selected while waiting for checkpoint write
	.... ...11			DCTCOMID	"B'00000011'" Command pseudo device
	.... .1..			DCTPRGID	"B'00000100'" Psuedo device indicating JOE is being purged
	.... .1.1			DCTARMID	"B'00000101'" ARM support processor
<p>EQU B'00000110' Unused</p> <p>EQU B'00000111' Unused</p> <p>EQU B'00001000' Unused</p> <p>EQU B'00001001' Unused</p> <p>EQU B'00001010' Unused</p> <p>EQU B'00001011' Unused</p> <p>EQU B'00001100' Unused</p>					

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 11.1		DCTSAPID	"B'00001101'" Sysout API
		.... 111.		DCTOUTID	"B'00001110'" TSO Output command device
		.... 1111		DCTXWTID	"B'00001111'" External writer device
<p>The DCTNUM portion of DCTDEVID for the DCTOUTID pseudo device indicates whether the JOE is "checked out" to a non-group request (1) or just busy in PSO (0). If the DCTNUM portion of DCTDEVID is non-zero for the DCTCOMID pseudo device, it indicates that the specific command has completed processing of the JOE.</p>					
89	(59)	X'5A'	0	DCTNUM	"DCTDEVID+1,2,C'H'" DEVICE NUMBER
89	(59)	X'1'	0	DCTTODNE	"1" \$T0 has processed the JOE
89	(59)	X'2'	0	DCTRDONE	"2" \$R or \$GR has processed the JOE
End of DEVICE ID definition					
92	(5C)	SIGNED	4	DCTUSER0	RESERVED FOR USER
96	(60)	SIGNED	4	DCTUSER1	RESERVED FOR USER
DCT FOUNDATION EXTENSION ORG POINT - REQUIRED.					
104	(68)	DBL WORD	8	DCTFEORG(0)	DCT FOUNDATION EXT ORIGIN
LOCAL DEVICE FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		RESERVED
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	4		RESERVED
124	(7C)	CHARACTER	4	DCTUNIT	UNIT FOR LOCAL DEVICES, LINES
128	(80)	BITSTRING	8		Reserved
SNA LOGON DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR NEXT ACTIVE LOGON DCT
108	(6C)	ADDRESS	4	MDCTICE	ADDR OF FIRST LOGGED ON ICE
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR SNA LOGON DCTS
116	(74)	BITSTRING	1	MDCTXERR	VTAM EXIT ROUTINE ERROR CODE
117	(75)	BITSTRING	1	MDCTATYP	APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1	MDCTSUSP	DCT SUSPEND FLAG
123	(7B)	ADDRESS	1	MDCTPDDL	APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
TCP NETSRV DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT Addr next active server DCT

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR NETSRV DCTs
116	(74)	BITSTRING	1		Not used
117	(75)	BITSTRING	1		MDCTTYPE APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1		DCT SUSPEND FLAG
123	(7B)	ADDRESS	1		APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	ADDRESS	4		MDCTPCL PCL address
132	(84)	BITSTRING	4		Not used
BSC LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4	MDCTADCT	ADDR OF NEXT ACTIVE LINE DCT
108	(6C)	BITSTRING	1	MDCTRSEQ	RECEIVE SEQUENCE COUNT
109	(6D)	BITSTRING	1	MDCTTSEQ	TRANSMIT SEQUENCE COUNT
110	(6E)	BITSTRING	1	MDCTMODE	ADAPTER MODE SET VALUE
111	(6F)	ADDRESS	1	MDCTERCT	LINE ERROR COUNT
112	(70)	ADDRESS	4	MDCTDCT	ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1	MDCTLINE	LINE CHARACTERISTICS
117	(75)	BITSTRING	1	MDCTTYPE	TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTATTN	LINE ACTION FLAGS
119	(77)	BITSTRING	1	MDCTSTAT	LINE STATUS FLAGS
120	(78)	SIGNED	2	MDCTBFSZ	MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2	MDCTFCS	LAST RECEIVED FCS
124	(7C)	CHARACTER	4		MDCTUNIT UNIT FOR LOCAL DEVICES, LINES
128	(80)	ADDRESS	4	MDCTPCL	PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
SNA LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		MDCTICE ADDR OF FIRST ALLOCATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	ADDRESS	4	MDCTWICE	ADDR OF ICE IN WAIT-TIME DELAY
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('SNA ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
TCP/IP LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		Not used for TCP/IP
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2		Not used for TCP/IP
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('TCP ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	ADDRESS	4	MDCTQTB	TBUF queued for line req (in jesxTBUF data space)
BSC REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1	MDCTRECL	REMOTE DEVICE MAX RECORD LENGTH
105	(69)	BITSTRING	1	MDCTRCB	REMOTE DEVICE RECORD CNTRL BYTE
106	(6A)	BITSTRING	1	MDCTFMT	TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1	MDCTFEAT	TERMINAL FEATURES
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		RESERVED
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BFR SIZE - 5
122	(7A)	BITSTRING	2		MDCTFCS REMOTE FUNCTION CTRL SEQ
124	(7C)	CHARACTER	4		DCTUNIT RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	MDCTRFXE	"*"
SNA REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1		MDCTRECL REMOTE DEV MAX RECORD LEN
105	(69)	BITSTRING	1	MDCTSEL	REMOTE DEVICE DATASTREAM SELECT
106	(6A)	BITSTRING	1		MDCTFMT TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1		MDCTFEAT TERMINAL FEATURES
108	(6C)	ADDRESS	4		MDCTICE ADDR OF ASSOCIATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTFLG1	REMOTE FLAG BYTE
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	ADDRESS	2		MDCTBFSZ MAXIMUM RU SIZE
122	(7A)	BITSTRING	1		RESERVED
123	(7B)	ADDRESS	1	MDCTCHLM	OUTSTANDING CHAIN LIMIT
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
SPOOL OFFLOAD (XFR) DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1	XDCTSTAT	STATUS FLAG BYTE
105	(69)	BITSTRING	1	XDCTRCB	STREAM IDENTIFIER
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	ADDRESS	4	XDCTDCT	PTR TO CHAIN OF RECV/TRANS DCTS
112	(70)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
Line transmitter/receiver DCT extension					
104	(68)	ADDRESS	1		MDCTRECL DEVICE MAX RECORD LENGTH
105	(69)	ADDRESS	1		MDCTRCB DEVICE RECORD CNTRL BYTE
106	(6A)	ADDRESS	2		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT Address of next xmitter/ receiver
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	2		RESERVED
122	(7A)	ADDRESS	2		MDCTFCS LAST RECEIVED FCS
124	(7C)	ADDRESS	4		RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	DCTSREND	"*"
DEVICE EXTENSION ORG POINT - OPTIONAL.					
136	(88)	DBL WORD	8	DCTEXORG(0)	DCT DEVICE EXTENSION ORIGIN
READER DCT EXTENSION					
136	(88)	SIGNED	2	DCTXEQND	DEFAULT EXECUTION NODE
138	(8A)	BITSTRING	1	DCTRDFL1	Reader flags
		1... ..		DCTR1IND	"B'10000000'" Independent mode
139	(8B)	BITSTRING	1		Reserved for future use
140	(8C)	SIGNED	4	DCTRDRT(0)	READER ROUTE CODE
140	(8C)	SIGNED	2	DCTRDNOD	NODE NUMBER
142	(8E)	SIGNED	2	DCTRD RTE	REMOTE NUMBER
144	(90)	SIGNED	4	DCTPRINT(0)	DEFAULT PRINT ROUTE CODE
144	(90)	SIGNED	2	DCTPRNOD	NODE NUMBER
146	(92)	SIGNED	2	DCTPR RTE	LOCAL PRINTER/REMOTE NUMBER
148	(94)	CHARACTER	8	DCTPRSER	PRINT USERID
156	(9C)	SIGNED	4	DCTPUNCH(0)	DEFAULT PUNCH ROUTE CODE
156	(9C)	SIGNED	2	DCTPUNOD	NODE NUMBER

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
158	(9E)	SIGNED	2	DCTPURTE	LOCAL PUNCH/REMOTE NUMBER
160	(A0)	CHARACTER	8	DCTPUSER	PUNCH USERID
168	(A8)	BITSTRING	4	DCTSIAFF	Default system affinity
172	(AC)	BITSTRING	1	DCTRAUTH	READER COMMAND AUTHORITY
173	(AD)	CHARACTER	8	DCTJCLA8	Default job class
181	(B5)	CHARACTER	1	DCTMCLAS	DEFAULT MSGCLASS
182	(B6)	BITSTRING	1	DCTPRINC	PRIORITY INCREMENT
183	(B7)	BITSTRING	1	DCTPRLIM	PRIORITY LIMIT
183	(B7)	X'B8'	0	DCTIRORG	"*" END OF COMMON READER DCT FIELDS
184	(B8)	SIGNED	4	DCTRDEND(0)	END OF READER DCT
184	(B8)	X'B8'	0	DCTJREND	"*" END OF JOB RECEIVER DCT
OPTIONAL SPECIFIC DEVICE EXTENSIONS. EACH DEVICE TYPE MAY DEFINE DIFFERENT DEVICE EXTENSIONS. HOWEVER, TWO COMMON BEGINNINGS EXIST FOR THE DEVICE EXTENSION - ONE FOR DEVICES THAT REQUIRE JOB WORK SELECTION CRITERIA AND ONE FOR DEVICES THAT REQUIRE SYSOUT WORK SELECTION CRITERIA. NOTE THAT ANY DEVICE REQUIRING ONE OF THESE WORK SELECTION SECTIONS MUST DEFINE THAT SECTION STARTING AT DCTEXORG. FIRST, DEFINE FIELDS COMMON TO BOTH SETS OF CRITERIA.					
136	(88)	BITSTRING	1	DCTWORK	JOB RECEIVER WORK AREA
CTWSP--\$WSP PREFIX=DCT,DSECT=NO Generate \$#GET parms					
184	(B8)	DBL WORD	8	DCTWSP(0)	HASP WSP
184	(B8)	SIGNED	4	DCTCWS(0)	Start of common work select
184	(B8)	CHARACTER	4	DCTID2	
184	(B8)	X'6'	0	DCTVOLEN	"6" Length of volume
184	(B8)	X'4'	0	DCTVOLMX	"4" Maximum number of volumes
188	(BC)	SIGNED	1	DCTNMVOL	Number of volumes
189	(BD)	BITSTRING	3		Reserved for future use
Note that the xxxVOL field must always precede the xxxWS field and that the xxxWSPRI must always be the first byte of xxxWS					
192	(C0)	BITSTRING	0	DCTVOL(0)	Device select volume list
192	(C0)	X'4'	0	DCTWSENT	"4" Length of ws entry
192	(C0)	X'C'	0	DCTWSPRL	"DCTWSREQ-DCTWSBEG" Offset of first ws entry
xxxMAXWS is derived by determining which WSTAB has the largest number of possible entries and then adding two for potential WSTAB user entries in the table pair. As of z/OS Release 13 the largest table is that of the Sysout API which has 23 entries.					
192	(C0)	X'19'	0	DCTMAXWS	"22+1+2" Number of criteria that will fit in xxxWSREQ
216	(D8)	SIGNED	4	(0)	
216	(D8)	CHARACTER	1	DCTWSBEG(0)	Beginning of WS list
216	(D8)	BITSTRING	1	DCTWSPRI	WS priority flag
		1...		DCTQVAL	"B'10000000'" Class optimum WS prio
		.1..		DCTRVAL	"B'01000000'" Route optimum WS prio
		..1.		DCTQWS	"B'00100000'" Use class list for WS

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DCTSLASH	"B'00010000'" Optional criteria switch
		.... 1...		DCTVOLFL	"B'00001000'" Use volume for WS
		.... .1..		DCTWSRNG	"B'00000100'" Select by range specified
		.... ..1.		DCTWSRGS	"B'00000010'" Range criterion after slash
		.... ...1		DCTRWS	"B'00000001'" Select by route specified
217	(D9)	BITSTRING	1	DCTWSPR2	2nd WS priority flag
		1...		DCTWSODP	"B'10000000'" Outdisp specified in WS or Outdisp is not valid WS criterion for dev
		.1..		DCTWSLIM	"B'01000000'" Limit specified in WS
		..1.		DCTSLIM	"B'00100000'" Limit is after slash
		...1		DCTWSCTK	"B'00010000'" Select by CTOKEN
		.... 1...		DCTODPNV	"B'00001000'" Outdisp is not a valid WS criterion for dev; forced to WRITE/KEEP
		.... .1..		DCTPRIRQ	"B'00000100'" Priority in WS list
Position indicator is an index of attribute in the criteria value vector. For attributes before PRIORITY, this is the same as index of attribute in the WSREQ array. For attribute after PRIORITY, it is one greater, because PRIORITY takes two bytes in the value vector. Value of X'FF' for xxxPOS, indicates that attribute is not in the WSREQ or it's position is irrelevant.					
218	(DA)	BITSTRING	1	DCTQPOS	Position of Q
219	(DB)	BITSTRING	1	DCTLPOS	Position of LIM
220	(DC)	BITSTRING	1	DCTRPOS	Position of RC
221	(DD)	BITSTRING	1	DCTPPOS	Position of P (set to &P.POSNL if ignored)
222	(DE)	SIGNED	2	DCTONODE	Job's origin node number
224	(E0)	BITSTRING	1	DCTPPOSM	Position of P
225	(E1)	BITSTRING	3		Reserved
		1111 1111		DCTPOSNL	"X'FF'" Position has not been set
228	(E4)	BITSTRING	1	DCTWSREQ	Work selection via ws parm
228	(E4)	X'D8'	0	DCTWS	"DCTWSBEG,*-DCTWSBEG,C'X'" Max length ws list
328	(148)	ADDRESS	4	DCTWSTB	Addr of related ws table pair
328	(148)	X'4'	0	DCTRCMAX	"4" Define maximum route codes
328	(148)	X'0'	0	DCTNODE	"0,2,C'H'" Offset/len of node in rc
328	(148)	X'2'	0	DCTROUTE	"2,2,C'H'" Offset/length of remote in rc
328	(148)	X'4'	0	DCTUSEID	"4,8,C'D'" Offset/len of userid in rc
328	(148)	X'C'	0	DCTRCLN	"L'DCTNODE+L'DCTROUTE+L'DCTUSEID" Len of rc
328	(148)	X'4'	0	DCTNRLEN	"L'DCTNODE+L'DCTROUTE" Len of node and route
332	(14C)	CHARACTER	0	DCTRC(0)	Space for route codes
380	(17C)	ADDRESS	2	(0)	xxxNRC must follow xxxRC

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
380	(17C)	CHARACTER	8	DCTJOBNM	Job name for device work select
388	(184)	CHARACTER	8	DCTCURJB	Job name of element last selected
396	(18C)	CHARACTER	8	DCTCRUID	Value for creator= keyword
404	(194)	ADDRESS	1	DCTNRC	Number of route codes
405	(195)	BITSTRING	1	DCTRTEQ	and route output queue flag
		1...		DCTWSLOC	"B'10000000" Scan local output queue
		.1..		DCTWSRMT	"B'01000000" Scan remote output queue
		..1.		DCTWSNET	"B'00100000" Scan network queue
		...1		DCTWSUSE	"B'00010000" Scan userid queue
		1...		DCTINDIR	"B'10000000" Indirect routing flag (HASPINIT ONLY)
406	(196)	BITSTRING	1	DCTWSFG5	Misc flags
		1...		DCT1GENC	"B'10000000" Low job id has a generic
		.1..		DCT1GEN1	"B'01000000" Low job id has generic '*' as the first character
407	(197)	BITSTRING	1		Reserved for future use
408	(198)	SIGNED	4	DCTJNUML	Device select low job number
412	(19C)	SIGNED	4	DCTJNUMH	Device select high job number
416	(1A0)	CHARACTER	8	DCTJCHRL	Character view of low job number
424	(1A8)	CHARACTER	8	DCTJCHRH	Character view of high job number
432	(1B0)	ADDRESS	4	(2)	Reserved for future use
440	(1B8)	BITSTRING	1	DCTWSFG1	Device select flags
		1...		DCTWSHLD	"B'10000000" Select held jobs
		.1..		DCTWSHNS	"B'01000000" Hold operand not specified
		..1.		DCTWSNOT	"B'00100000" Send notify message
		...1		DCTWSFJR	"B'00010000" Select within JOB range
		.... 1...		DCTWSFST	"B'00001000" Select within STC range
		.... .1..		DCTWSFTS	"B'00000100" Select within TSU range
		.... ..1.		DCTWSFAP	"B'00000010" Select APPC initiators
		.... ...1		DCTWSFJG	"B'00000001" Select JOBGROUPs
		...1 1111		DCTWSANY	"B'00011111" Select any range
441	(1B9)	BITSTRING	1	DCTWSFG4	Device select flags
		1...		DCTWSENL	"B'10000000" Enforce line limits
		.1..		DCTWSENP	"B'01000000" Enforce page limits
B'00111111' Reserved for future use					
444	(1BC)	SIGNED	4	DCTWRNUM	Writer ID number for JOE/Writer exclude list
448	(1C0)	BITSTRING	8	DCTWRASI	Writer ID address space level used for JOE/Writer exclude list
456	(1C8)	CHARACTER	8	DCTDEVN2	Device name of form: For non-SAPI DCTDEVN For SAPI jobname.sss2appl
456	(1C8)	X'1C8'	0	DCTDEVNC	"DCTDEVN2,*-DCTDEVN2,C'C'" Complete device name
473	(1D9)	BITSTRING	1	DCTDEVT2	Device type (copy of DCTDEVTP)
474	(1DA)	BITSTRING	3	DCTDEVI2	Device identity (copy of DCTDEVID)

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
477	(1DD)	BITSTRING	3		Reserved for future use
480	(1E0)	SIGNED	4	DCTLIMLO	Device lower limit (records)
484	(1E4)	SIGNED	4	DCTLIMHI	Device upper limit (records)
488	(1E8)	SIGNED	4	(0)	Force alignment
488	(1E8)	X'130'	0	DCTCWSLN	"*-DCTCWS" Length of common criteria fields
Job work selection criteria fields					
184	(B8)	SIGNED	4	DCTJWS(0)	Start of job work selection
184	(B8)	BITSTRING	304		Fields common with sysout select
488	(1E8)	BITSTRING	4	DCTSAF	Device select affinity list
492	(1EC)	ADDRESS	4	DCTSAFPT	System affinity list pointer
496	(1F0)	CHARACTER	8	DCTSRVCL	Service class
504	(1F8)	CHARACTER	16	DCTSCHE	Scheduling environment
520	(208)	BITSTRING	1	DCTJWSFL	Job Work Selection flags
	1...			DCTJCFMT	"B'10000000'" Job Work Selection class list format : OFF = Class list contains up to 36 one char class names. ON = Class list contains a mixture of up to 8 eight char class names and class group names.
521	(209)	BITSTRING	1		Reserved
522	(20A)	CHARACTER	64	DCTJCLAS	Job Work Selection class list, terminated by a blank. Contents depend on the Class list format bit (see above).
522	(20A)	CHARACTER	36	DCTJCLS1	1 character class list (___JCFMT bit off)
522	(20A)	CHARACTER	8	DCTJCLS8(0)	8 character class list (___JCFMT bit on)
522	(20A)	X'192'	0	DCTJWSLN	"*-DCTJWS" Length of WSP for job work selection
Sysout work selection criteria fields					
184	(B8)	SIGNED	4	DCTSW(0)	Start of sysout work selection
184	(B8)	BITSTRING	304		Fields common with sysout select
488	(1E8)	CHARACTER	8	DCTFORMS	Current print/punch forms id
496	(1F0)	CHARACTER	37	DCTCLASS	SYSOUT Work Selection class list, terminated by blank. Contains a list of one byte values.
533	(215)	BITSTRING	3		Reserved
536	(218)	CHARACTER	64	DCTJCOR	Job Correlator
600	(258)	CHARACTER	8	DCTWFORM(0)	Forms for work selection
600	(258)	X'258'	0	DCTWFORC	"DCTWFORM,*-DCTWFORM,C'C'" Forms
664	(298)	CHARACTER	4	DCTFCB	Printer fcb (carriage tape) id
668	(29C)	CHARACTER	4	DCTUCS	Printer ucs id
672	(2A0)	CHARACTER	4	DCTFLASH	Printer overlay frame
676	(2A4)	CHARACTER	4	DCTFLSHD	N/I-printer overlay default
680	(2A8)	SIGNED	4	DCTPLIML	Device lower limit (pages)
684	(2AC)	SIGNED	4	DCTPLIMH	Device upper limit (pages)
688	(2B0)	SIGNED	4	DCTAGE	Age in seconds since JOE creation

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
692	(2B4)	CHARACTER	8	DCTWTRID	Ext wtr name for work select
700	(2BC)	BITSTRING	8	DCTPRMD	Prmode index list
708	(2C4)	ADDRESS	4	DCTPRTBL	Address of PRMODE table or zero
712	(2C8)	BITSTRING	1	DCTWSFG2	Device select flag
		1...		DCTWSDSH	"B'10000000'" Select held output
		.1..		DCTNIBRS	"B'01000000'" Select bursted output
		..1.		DCTWSDAN	"B'00100000'" Select held/non-held output
		...1		DCTWSBNS	"B'00010000'" Burst operand not specified
<p>The following two bits are mutually exclusive. If both of them are OFF, this device DOES NOT support IP-format destination (this is the default for all JES2 local devices.)</p>					
		.... 1...		DCTWSIP	"B'00001000'" Select only IP-format
		.... .1..		DCTWSBTH	"B'00000100'" Select both IP and non-IP
		.... ..1.		DCTWSTKN	"B'00000010'" Select by token mapped by \$CTOKEN & blocked output is OK
713	(2C9)	BITSTRING	1	DCT1STFL	Device select flag byte
713	(2C9)	X'8'	0	DCT1SODW	"\$ODWRITE" Select OUTDISP=WRITE
713	(2C9)	X'4'	0	DCT1SODH	"\$ODHOLD" Select OUTDISP=HOLD
713	(2C9)	X'2'	0	DCT1SODK	"\$ODKEEP" Select OUTDISP=KEEP
713	(2C9)	X'1'	0	DCT1SODL	"\$ODLEAVE" Select OUTDISP=LEAVE
713	(2C9)	X'F'	0	DCT1SODA	"\$ODANY" Check all bit settings
714	(2CA)	BITSTRING	2		Reserved for future use
<p>xxxPJOE identifies the next JOE for this device to process. Three different values are possible: 0 - nothing in queue for this device positive - one JOE to process and the address is the positive value in xxxPJOE -1 - more than one JOE in queue for this device</p>					
716	(2CC)	ADDRESS	4	DCTPJOE	Next JOE to process
716	(2CC)	X'218'	0	DCTSWSCR	"*-DCTSWS" Length of WSP fields which represent SYSOUT work selection criteria
<p>The following fields are used to manage WSP and are not part of selection criteria.</p>					
720	(2D0)	ADDRESS	4	DCTGTW	Address of \$/GET Trace work area
724	(2D4)	ADDRESS	4	DCTASAPI	Address of SAPID (ALET is in \$SAPTOK in HCT)
728	(2D8)	ADDRESS	4	DCTNACTV	Next active DCT address SAPI - next WSP in chain
732	(2DC)	ADDRESS	4	DCTPACTV	Previous active DCT address SAPI - prev WSP in chain
736	(2E0)	BITSTRING	1	DCTWSFG3	WSP status flag
		1...		DCTWS3QD	"B'10000000'" DCT is on an active DCT Q SAPI - WSP is on a list of postable WSPs
		.1..		DCTWS3QT	"B'01000000'" SAPI - WSP is on list for selection on token

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DCTWS3QX	"B'00100000'" SAPI - WSP is on list for selection expression
		...1		DCTWS3CF	"B'00010000'" WSP classification for cache was performed
		.... 1...		DCTWS3XN	"B'00001000'" WSP expression is not compatible with cache key
737	(2E1)	BITSTRING	3		Reserved for future use
Cache list entries in xxxCLENL list represent this WSP in the \$#POST cache. (See XCWELT in \$XCW.) Cache nodes in the xxxCNODE list are the cache nodes which point to this WSP as last scanned WSP. (See XCWNODE in \$XCW.)					
744	(2E8)	ADDRESS	8	DCTCLENL	Ptr to cache list entries
752	(2F0)	ADDRESS	8	DCTCNODE	Ptr to cache nodes
760	(2F8)	ADDRESS	4	(0)	Align on a full word
760	(2F8)	X'240'	0	DCTSWSLN	"*-DCTSWS" Length of WSP for SYSOUT work selection
760	(2F8)	X'240'	0	DCTLENG	"*-DCTCWS" Allocation length of WSP
SNA LOGON DCT EXTENSION					
136	(88)	CHARACTER	8		APPLICATION PASSWORD
144	(90)	ADDRESS	2	MDCTSNCT	COUNT OF LOGGED ON TERMINALS
146	(92)	ADDRESS	1		RESERVED FOR SNA LOGON DCTS
147	(93)	ADDRESS	1	MDCTAPNL	APPLICATION NAME LENGTH
148	(94)	CHARACTER	8	MDCTAPPL	APPLICATION NAME
156	(9C)	SIGNED	4	MDCTLOGN	COUNT OF LOGONS TO APPL
160	(A0)	SIGNED	4	MDCTNICE	LOGON FAILED FOR ICE COUNT
164	(A4)	SIGNED	4	MDCTNLNE	LOGON FAILED FOR LINE COUNT
168	(A8)	SIGNED	4	MDCTINVL	LOGON FAILED FOR DATA COUNT
172	(AC)	SIGNED	4	MDCTABRT	SESSION ABNORMAL TERM COUNT
176	(B0)	SIGNED	4		RESERVED FOR FUTURE USE
184	(B8)	DBL WORD	8	MDCTRAWK(0)	ACTIVE RECEIVE ANY BUFFER WORK
184	(B8)	SIGNED	2	MDCTRALM	ACTIVE RECEIVE ANY BUFFER LIMIT
186	(BA)	SIGNED	2	MDCTRACT	ACTIVE RECEIVE ANY BUFFER COUNT
188	(BC)	ADDRESS	4	MDCTRABF	ACTIVE RECEIVE ANY BUFFER CHAIN
192	(C0)	DBL WORD	8	MDCTRQWK(0)	QUEUED RECEIVE ANY BUFFER WORK
192	(C0)	SIGNED	2	MDCTRQLM	QUEUED RECEIVE ANY BUFFER LIMIT
194	(C2)	SIGNED	2	MDCTRQCT	QUEUED RECEIVE ANY BUFFER COUNT
196	(C4)	ADDRESS	4	MDCTRQBF	QUEUED RECEIVE ANY BUFFER CHAIN
200	(C8)	DBL WORD	8	MDCTEXWK(0)	EXIT ROUTINE WORK AREA
200	(C8)	SIGNED	4	MDCTEXCD(0)	EXIT ROUT. ACTION CODE WORKAREA
200	(C8)	BITSTRING	3		RESERVED
203	(CB)	BITSTRING	1	MDCTXCOD	EXIT ROUTINE REQ ACTION CODE
204	(CC)	ADDRESS	4	MDCTEXIT	ADDR OF NEXT SCHED LOGON DCT
208	(D0)	SIGNED	4	MDCTLGND(0)	END OF SNA LOGON DCT
TCP/IP NETSRV DCT extension					
136	(88)	CHARACTER	8	MDCTPGM	Program name

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	CHARACTER	8	MDCTPROC	Proc name
152	(98)	ADDRESS	2	MDCTKEEP	Default keep alive interval
154	(9A)	SIGNED	2	MDCTSBSZ	Server buffer size
156	(9C)	ADDRESS	4	MDCTSCK	SCK address
160	(A0)	CHARACTER	8	MDCTSOCK	Socket name
168	(A8)	ADDRESS	4	MDCTSSQD	SQD used to start server ASID
172	(AC)	SIGNED	2	MDCTASID	ASID of server addrspc
174	(AE)	BITSTRING	1	MDCTNFLG	NETSRV flags
	1...			MDCTNVRB	"B'10000000'" NETSRV Verbose mode at NETSRV level
	.1..			MDCTNTRC	"B'01000000'" NETSRV common tracing at NETSRV level
	..1.			MDCTNTRJ	"B'00100000'" NETSRV JES tracing at NETSRV level
	...1			MDCTNSEC	"B'00010000'" SECURE=REQUIRED specified
	.... 1...			MDCTNOSE	"B'00001000'" SECURE=OPTIONAL specified
	.... .1..			MDCTNSLO	"B'00000100'" Active with SECURE=REQUIRED
175	(AF)	BITSTRING	1		Reserved
176	(B0)	CHARACTER	8	MDCTASNM	Address space name
184	(B8)	CHARACTER	8	MDCTSTAK	TCP/IP stack name
192	(C0)	SIGNED	4	MDCTSVND(0)	END OF TCP SERVER DCT
BSC LINE DCT EXTENSION					
136	(88)	CHARACTER	8	MDCTPSWD	RJE LINE PASSWORD
144	(90)	ADDRESS	4	MDCTOBUF	RJE OUTPUT BUFFER CHAIN
148	(94)	SIGNED	4	MDCTIMOK	TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4	MDCTRAT	ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTCODE	ADDRESS OF RJE CODE TABLE
160	(A0)	BITSTRING	0	MDCTOTAL(0)	DCT EVENT COUNTERS
160	(A0)	SIGNED	4	MDCTXCP	LINE COUNTS - TOTAL EXCPS
164	(A4)	SIGNED	4	MDCTNAK	NAKS TO WRITE TEXT
168	(A8)	SIGNED	4	MDCTDCK	DATA CHECKS TO READ TEXT
172	(AC)	SIGNED	4	MDCTTO	TIMEOUTS TO READ TEXT
176	(B0)	SIGNED	4	MDCTREM	ALL OTHER ERRORS
180	(B4)	BITSTRING	0	MDCTCNTS(0)	DCT SESSION EVENT COUNTERS
180	(B4)	SIGNED	4	MDCTSXCP	SESSION COUNTS - TOTAL EXCPS
184	(B8)	SIGNED	4	MDCTSNAK	NAKS TO WRITE TEXT
188	(BC)	SIGNED	4	MDCTSDCK	DATA CHECKS TO READ TEXT
192	(C0)	SIGNED	4	MDCTSTO	TIMEOUTS TO READ TEXT
196	(C4)	SIGNED	4	MDCTSREM	ALL OTHER ERRORS
200	(C8)	BITSTRING	1	MDCTPMBC	NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1	MDCTPMFL	NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2	MDCTDCNT	DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4	MDCTACT(0)	ACTIVE HARDWARE RJE DCT

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
204	(CC)	ADDRESS	4	MDCTNM	NETWORK MULTIPLE TRUNK QUEUE
208	(D0)	ADDRESS	4	MDCTNA	NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2	MDCTNR	NETWORK HALF LINE RESISTANCE
214	(D6)	SIGNED	2	MDCTNNR	NETWORK NODE TO NODE RESISTANCE
216	(D8)	ADDRESS	4	MDCTNCES	NETWORK CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1	MDCTNFL2	NETWORK FLAGS II
221	(DD)	BITSTRING	1	MDCTNFL3	Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1	MDCTLNCC	Last NCC signon record sent
224	(E0)	SIGNED	2	MDCTOPCT	COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1	MDCTNFL	NETWORK FLAGS
227	(E3)	SIGNED	1	MDCTCMCT	CONSOLE MESSAGE COUNT
227	(E3)	X'CC'	0	MDCTNETA	"MDCTNM,*-MDCTNM" NETWORK AREA FOR \$NPMWORK
228	(E4)	BITSTRING	8	MDCTNEGR	PENDING NEGATIVE XMTTER RESPONSES
236	(EC)	SIGNED	4	MDCTNO(0)	LINE ROUTE CODE
236	(EC)	ADDRESS	2	MDCTNODE	NODE NUMBER
238	(EE)	ADDRESS	1	MDCTQUAL	QUALIFIER
239	(EF)	ADDRESS	1		RESERVED FOR FUTURE USE
240	(F0)	ADDRESS	4	MDCTNMAP	NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4	MDCTRNTA	REACHABLE NODES TABLE ADDR, ZERO UNLESS LINE IN NJE USE RNT=1 BIT PER NODE
248	(F8)	CHARACTER	8	MDCTNPAS	PASSWORD to send to node (BSC Only)
256	(100)	SIGNED	4	MDCTMDOM	\$HASP500 DOM ID
260	(104)	SIGNED	4	MDCTIFEA	NJE signon feature flags supported by this line
264	(108)	ADDRESS	4	MDCTNLDV(0)	Numbers of line subdevices
264	(108)	ADDRESS	1	MDCTJTNM	LINEnn JTNUM= value
265	(109)	ADDRESS	1	MDCTJRNM	LINEnn JRNUM= value
266	(10A)	ADDRESS	1	MDCTSTNM	LINEnn STNUM= value
267	(10B)	ADDRESS	1	MDCTSRNM	LINEnn SRNUM= value
268	(10C)	ADDRESS	4	MDCTMRT	MRT address
272	(110)	ADDRESS	4	MDCTMRRT	MRRT address
276	(114)	SIGNED	4	MDCTSONT(0)	Multi-trunk signon retry time
276	(114)	SIGNED	4	MDCTNOTS	Start of RCP CMB Throw-away timer (1st word of STCK)
280	(118)	BITSTRING	8	MDCTIKEY	Secure NJE signon key
288	(120)	BITSTRING	8	MDCTISTR	Secure NJE random string
296	(128)	BITSTRING	8	MDCTESTR	Encrypted received string
304	(130)	ADDRESS	4	MDCTISWL	SWEL addr (secure signon)
308	(134)	SIGNED	4	MDCTRSTM	MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2	MDCTRSTI	MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1	MDCTRSTF	MDCTRSTF Flags
		1...		MDCTRFCY	"B'10000000'" Auto-restart NJE connection
		.1..		MDCTRFCN	"B'01000000'" Never Auto-restart

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
316	(13C)	SIGNED	2	MDCTLNOD	Associated node
320	(140)	SIGNED	4	MDCTLEND(0)	END OF LINE DCT
SNA LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		MDCTSNCT ALLOCATED SESSION COUNT
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTATE	APT address for automatic restart from NPM recovery
160	(A0)	SIGNED	4	MDCTVREQ	TOTAL COUNT OF VTAM REQ PROCESSED
164	(A4)	SIGNED	4	MDCTXRSP	TOTAL COUNT OF EXCEPTION RESP
168	(A8)	SIGNED	4	MDCTLUST	TOTAL COUNT OF LUSTAT RECEIVED
172	(AC)	SIGNED	4	MDCTBIDR	TOTAL COUNT OF BID REJECTED
176	(B0)	SIGNED	4	MDCTMPER	TOTAL COUNT OF TEMPORARY ERRORS
180	(B4)	SIGNED	4	MDCTSCNT(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	SIGNED	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8	MDCTATMP	APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	SNA LINE DCT END (MDCTLEND)
TCP LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		RESERVED
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4		MDCTSCK SCK address for related socket
160	(A0)	CHARACTER	8		MDCTSOCK Socket name
168	(A8)	ADDRESS	4	MDCTNDCT	Addr of NETSRV DCT
172	(AC)	SIGNED	4		RESERVED
176	(B0)	SIGNED	4		RESERVED
180	(B4)	SIGNED	4	(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1	MDCTTFLG	TCP Flags
		1...		MDCTTDRN	"B'10000000'" STOP NRQ sent (\$P)
		.1..		MDCTTVRB	"B'01000000'" NETSRV verbose mode at line level
		..1.		MDCTTTRC	"B'00100000'" NETSRV common tracing at line level
		...1		MDCTTTRJ	"B'00010000'" NETSRV JES tracing at line level
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	BITSTRING	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		MDCTNPAS Node Password
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	TCP LINE DCT END (MDCTLEND)
MAS LINE DCT EXTENSION					
136	(88)	ADDRESS	0	MDCTAFTK(0)	Affinity token for member
136	(88)	CHARACTER	8		Reserved
144	(90)	BITSTRING	1	MDCTMEMB	ID of associated member
145	(91)	BITSTRING	3		Reserved
148	(94)	SIGNED	4		Time of last transmission
152	(98)	ADDRESS	4		MDCTRAT Address of NIT entry
156	(9C)	ADDRESS	4	MDCTNATP	NATP chain for response to member signon propagation
160	(A0)	ADDRESS	4	MDCTNPCH	Chain of permanent NATPs
164	(A4)	ADDRESS	4	MDCTNQSE	QSE address
168	(A8)	ADDRESS	4	MDCTMDNQ	Member down chain field
172	(AC)	SIGNED	4	MDCTMTIM	Time last MAS I/J sent to this member
176	(B0)	SIGNED	4	MDCTMDID	\$HASP501 DOM id
180	(B4)	SIGNED	4	(5)	Reserved
200	(C8)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		NETWORK PATH MGR FLAGS

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
202	(CA)	SIGNED	2		Reserved
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE
214	(D6)	SIGNED	2		MDCTNMR NJE TOTAL RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Reserved
224	(E0)	SIGNED	2		Reserved
226	(E2)	BITSTRING	1		MDCTNFL Network flags
227	(E3)	SIGNED	1		Reserved
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		LINEnn JTNUM= value
265	(109)	ADDRESS	1		LINEnn JRNUM= value
266	(10A)	ADDRESS	1		LINEnn STNUM= value
267	(10B)	ADDRESS	1		LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		Reserved
288	(120)	BITSTRING	8		Reserved
296	(128)	BITSTRING	8		Reserved
304	(130)	ADDRESS	4		Reserved
308	(134)	SIGNED	4		Reserved
312	(138)	SIGNED	2		Reserved
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		Reserved
316	(13C)	SIGNED	2		Reserved
320	(140)	SIGNED	4	(0)	MAS LINE DCT END (MDCTLEND)
LOCAL/RMT PRINT/PUNCH DCT EXTENSION.					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	CHARACTER	8	DCTFSSNM	FSS NAME
768	(300)	ADDRESS	4	DCTFSSCH(0)	NEXT FSS DCT (INIT ONLY)
768	(300)	SIGNED	2	DCTFSSNW(0)	FSS ID TO CHANGE TO FOR NEW FSS (POST-INIT FSS-MODE DCT ONLY)

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
768	(300)	SIGNED	4	DCTWKBUF	ADDR OF PRINTER WORK BUFFER (POST-INIT JES-MODE DCT)
772	(304)	SIGNED	4	DCTFSID(0)	FSID OF DEVICE FSA, FSS MODE
772	(304)	SIGNED	2	DCTFSSID	FSS PORTION OF FSID
774	(306)	SIGNED	2	DCTFSAID	FSA PORTION OF FSID
776	(308)	CHARACTER	4	DCTNIFCB	3800 INSTALLATN DEFAULT FCB
780	(30C)	CHARACTER	4	DCTDDFCB	DEVICE DEFAULT FCB
784	(310)	BITSTRING	1	DCTINDEX	PRINTER INDEX VALUE
785	(311)	BITSTRING	1	DCTPPFL	PRINT/PUNCH FLAGS
786	(312)	BITSTRING	1	DCTPPSW	PRINT/PUNCH SWITCHES
787	(313)	BITSTRING	1	DCTPPSW2	PRINT/PUNCH SWITCHES
788	(314)	BITSTRING	1	DCTPPSW3	PRINT/PUNCH SWITCHES
789	(315)	BITSTRING	1	DCTPPSW4	PRINT/PUNCH SWITCHES
790	(316)	BITSTRING	1	DCTPPSW5	PRINT/PUNCH Switches
		1...		DCT5C10N	"B'10000000'" Chnl 1 is only new page
		.1..		DCT5CALL	"B'01000000'" All chnls are new page
		..1.		DCT5TUCS	"B'00100000'" UCS has been modified via a \$T command
		...1		DCT5TFSS	"B'00010000'" FSSID is to be removed
		.... 1...		DCT5DNRC	"B'00001000'" Device not responding condition
		.... .1..		DCT5\$SPN	"B'00000100'" \$Sprt for FSS prt pending
		.... ..1.		DCT5\$PPN	"B'00000010'" \$Pprt for FSS prt pending
		.... ...1		DCT5FROF	"B'00000001'" FSA level rolling trace off
791	(317)	BITSTRING	1	DCTPPSW6	PRINT/PUNCH Switches
		1...		DCT6N0TR	"B'10000000'" TRC on OUTPUT card not honored
792	(318)	CHARACTER	4	DCTCHAR1	N/I-PRINTER XLATE TABLE 1
796	(31C)	CHARACTER	4	DCTCHAR2	N/I-PRINTER XLATE TABLE 2
800	(320)	CHARACTER	4	DCTCHAR3	N/I-PRINTER XLATE TABLE 3
804	(324)	CHARACTER	4	DCTCHAR4	N/I-PRINTER XLATE TABLE 4
808	(328)	CHARACTER	4	DCTMODF	N/I-PRINTER MODIFY IDENTIFIER
812	(32C)	ADDRESS	2	DCTLDPID	3800 LOST DATA PAGE ID G38E
814	(32E)	BITSTRING	1	DCTDCPTN	DEFAULT COMPACTION TABLE NUMBER
815	(32F)	BITSTRING	1	DCTACPTN	ACTIVE COMPACTION TABLE NUMBER
816	(330)	SIGNED	2	DCTCKPTP	NO. OF LOGICAL PAGES/CKPT
818	(332)	SIGNED	2	DCTCKPTL	NO. OF LINES/LOGICAL PAGE
820	(334)	SIGNED	2	DCTCKPTT	AMT OF TIME BEFORE FORCED CKPT
822	(336)	SIGNED	2	DCTNPRO	TIME BEFORE NON PROCESS RUN OUT
824	(338)	ADDRESS	4	DCTPRTRN	ADDRESS OF DEFAULT TRAN TABLE
828	(33C)	ADDRESS	4	DCTCCWTB	ADDRESS OF DEFAULT CCW TRN TBLE
832	(340)	SIGNED	4	DCTCSW	PRINT INTERVENTION REQ AREA
832	(340)	X'344'	0	DCTPREND	"*" PRINT/PUNCH DCT EXTENSION END
SPOOL OFFLOAD DEVICE DCT EXTENSION					

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	ADDRESS	4	XDCTDTE	ADDRESS OF SUB-TASK DTE
140	(8C)	SIGNED	4	XDCTSEQN	NUM BLOCKS READ FOR LOAD CKPT
144	(90)	SIGNED	2	XDCTXNUM	DEVICE NUMBER
146	(92)	SIGNED	2	XDCTSUBR	SUB-TASK REQUEST
148	(94)	SIGNED	2	XDCTSUBC	SUB-TASK REQ COMPLETION CODE
150	(96)	BITSTRING	1	XDCTUNCT	UNIT COUNT
151	(97)	BITSTRING	1	XDCTFLG1	FLAG BYTE
152	(98)	BITSTRING	1	XDCTFLG2	FLAG BYTE
153	(99)	BITSTRING	1	XDCTVOLS	OFFLOAD VOLUME COUNT
154	(9A)	BITSTRING	1	XDCTLABL	LABEL TYPE (SL,NL,...)
155	(9B)	BITSTRING	2	XDCTRTPD	RETENTION PERIOD IN DAYS
157	(9D)	CHARACTER	8	XDCTUNIT	DEFAULT UNIT NAME
165	(A5)	BITSTRING	1	XDCTOFSL	Offload archive bits
166	(A6)	BITSTRING	2	XDCTFREE	RESERVED FOR FUTURE USAGE
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
168	(A8)	SIGNED	4	XDCTTIME	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	SIGNED	4	XDCTDATE	DATE OFFLOAD DATA SET ALLOCATED
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
176	(B0)	SIGNED	4	XDCTTVR	TIME VERIFICATION STAMP
180	(B4)	SIGNED	4	XDCTDVER	DATE VERIFICATION STAMP
184	(B8)	ADDRESS	4	XDCTCMPQ	XFRDCT SUB-TASK COMPLETION Q
188	(BC)	ADDRESS	4	XDCTBUFQ	Q OF BUFFERS WAITING COMPLETION
192	(C0)	ADDRESS	4	XDCTACTV	QUEUE OF ACTIVE XFR DCTS
196	(C4)	BITSTRING	1	XDCTERCT	READ ERROR COUNT
197	(C5)	BITSTRING	1	XDCTOPCT	COUNT OF RECV/TRANS DCTS OPEN
198	(C6)	SIGNED	2	XDCTMAXB	Max buffers allowed to hold
200	(C8)	CHARACTER	44	XDCTDSN	OFFLOAD DATASET NAME
244	(F4)	SIGNED	4	DCTXFEND(0)	END OF OFFLOAD DCT EXTENSION
JOB TRANSMITTER DCT EXTENSION					
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	1	DCTJTDSP	DISPOSITION FLAGS
		1...		DCTJTDPG	"B'10000000'" PURGE JOB AFTER DUMP
		.1..		DCTJTDHD	"B'01000000'" HOLD JOB AFTER DUMP
		..1.		DCTJTDKP	"B'00100000'" KEEP JOB AFTER DUMP
586	(24A)	X'24B'	0	DCTOJEND	"*" OFFLOAD JOB XMITTER DCT EXT END
586	(24A)	X'24B'	0	DCTJTEND	"*" NETWORK JOB XMITTER
SYSOUT TRANSMITTER DCT EXTENSION.					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	BITSTRING	1	DCTSTDSP	DISPOSITION FLAG
		1...		DCTSTDPG	"B'10000000'" PURGE DATA SET AFTER DUMP

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCTSTDHD	"B'01000000'" HOLD DATA SET AFTER DUMP
		..1.		DCTSTDKP	"B'00100000'" KEEP DATA SET AFTER DUMP
761	(2F9)	BITSTRING	3		Reserved for future use
761	(2F9)	X'2FC'	0	DCTOSEND	"*" OFFLOAD SYSOUT XMITTER EXT END
761	(2F9)	X'2FC'	0	DCTSTEND	"*" NETWORK SYSOUT XMITTER
OFFLOAD JOB RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	4	DCTJRSAF	DEVICE MODIFY AFFINITY (EBCDIC)
590	(24E)	BITSTRING	4	DCTJRMSF	DEVICE MODIFY AFFINITY (FLAGS)
594	(252)	BITSTRING	1	DCT1JRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1JHLD	"B'10000000'" HOLD JOB MODIFY FLAG
		.1..		DCT1JHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
595	(253)	CHARACTER	8	DCTJRMCS	Device modify job class
603	(25B)	BITSTRING	1		RESERVED FOR FUTURE USE
604	(25C)	ADDRESS	4	DCTJRMNO	DEVICE MODIFY NODE NUMBER
604	(25C)	X'25E'	0	DCTOJRLN	"*" JOB RECEIVER DCT END
OFFLOAD SYSOUT RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	BITSTRING	1	DCT1SRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1SHLD	"B'10000000'" SET HELD POST-EXECUTION JOBS
		.1..		DCT1SHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
		.... 1...		DCT1SBUR	"B'00001000'" SET BURSTED OUTPUT
		.... .1..		DCT1SBNL	"B'00000100'" BURST NOT TO BE MODIFIED
761	(2F9)	BITSTRING	1	DCT2SRFL	DEVICE MODIFY FLAG2 BYTE
761	(2F9)	X'8'	0	DCT2MODW	"\$ODWRITE" MODIFY OUTDISP=WRITE
761	(2F9)	X'4'	0	DCT2MODH	"\$ODHOLD" MODIFY OUTDISP=HOLD
761	(2F9)	X'2'	0	DCT2MODK	"\$ODKEEP" MODIFY OUTDISP=KEEP
761	(2F9)	X'1'	0	DCT2MODL	"\$ODLEAVE" MODIFY OUTDISP=LEAVE
761	(2F9)	X'F'	0	DCT2MODA	"\$ODANY" CHECK ALL BIT SETTINGS
762	(2FA)	BITSTRING	1	DCT3SRFL	DEVICE SELECT FLAG3 BYTE
762	(2FA)	X'8'	0	DCT3SODW	"\$ODWRITE" SELECT OUTDISP=WRITE
762	(2FA)	X'4'	0	DCT3SODH	"\$ODHOLD" SELECT OUTDISP=HOLD
762	(2FA)	X'2'	0	DCT3SODK	"\$ODKEEP" SELECT OUTDISP=KEEP
762	(2FA)	X'1'	0	DCT3SODL	"\$ODLEAVE" SELECT OUTDISP=LEAVE
762	(2FA)	X'F'	0	DCT3SODA	"\$ODANY" CHECK ALL BIT SETTINGS
763	(2FB)	CHARACTER	1	DCTSRMCL	DEVICE MODIFY JOB CLASS
764	(2FC)	CHARACTER	12	DCTSRMNO	DEVICE MODIFY NODE NUMBER
776	(308)	CHARACTER	4	DCTSRMFC	DEVICE MODIFY FCB ID
780	(30C)	CHARACTER	4	DCTSRMFL	DEVICE MODIFY FLASH
784	(310)	CHARACTER	4	DCTSRMUC	DEVICE MODIFY UCS ID
788	(314)	CHARACTER	8	DCTSRMPR	DEVICE MODIFY PRMODE LIST

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
796	(31C)	CHARACTER	8	DCTSRMFO	DEVICE MODIFY FORMS ID
804	(324)	CHARACTER	1	DCTSRMWI	DEVICE MODIFY WRITER ID
804	(324)	X'32C'	0	DCTOREND	"*" SYSOUT RECEIVER DCT END
DCTSTAT2					
		1... ..		DCTCIP	"B'10000000'" COMMAND IN PROGRESS
		.1.. ..		DCTGTDCB	"B'01000000'" DEVICE NEEDS A DCB
		..1.		DCTGTBSM	"B'00100000'" DEVICE NEEDS A BSAM DCB
		...1		DCTNEWFS	"B'00010000'" DCT FSS-OWNERSHIP IS TO BE CHANGED TO THE FSS IN DCTFSSNW
		.... 1...		DCT\$TFLS	"B'00001000'" \$T FLASH INDICATOR
		.... .1..		DCTR190	"B'00000100'" RMT PRPU WILL STOP FOR A REPLY TO SETUP MESSAGE
		.... ..1.		DCT\$TNSP	"B'00000010'" \$T FSS PRT.. non setup parameters change require FSACB updates
		.... ...1		DCTRCVPG	"B'00000001'" NJE xmitter received 'permission granted'
MDCTATTN					
		1... ..		MDCTIMER	"B'10000000'" TIMED ACTION REQUESTED
		.1.. ..		MDCTPAWS	"B'01000000'" LINE PAUSE REQUESTED
		..1.		MDCTJOB1	"B'00100000'" JOB POST INDICATOR 1
		...1		MDCTJOB2	"B'00010000'" JOB POST INDICATOR 2
804	(324)	X'30'	0	MDCTJOB	"MDCTJOB1+MDCTJOB2" JOB POST INDICATION
		.... 1...		MDCTDSC	"B'00001000'" LINE DISCONNECT SEQUENCE
		.... .1..		MDCTINTE	"B'00000100'" DISCINTV exceeded reason to be put in HASP203 msg
		.... ..1.		MDCTSTRT	"B'00000010'" START VERIFICATION REQUIRED
		.... ...1		MDCTATT8	"B'00000001'" RESERVED FOR FUTURE USE
MDCTSTAT					
		1... ..		DCTLEASE	"B'10000000'" DEDICATED LINE
		1... ..		DCTADS	"B'10000000'" ABNORMAL END OF DATA
		.1.. ..		DCTSHARE	"B'01000000'" SHARED LINE
		..1.		DCTETX	"B'00100000'" AN ETX HAS BEEN RECEIVED
		..1.		DCTFLUSH	"B'00100000'" STREAM HAS BEEN TERMINATED
		...1		DCTSOFF	"B'00010000'" SIGNOFF RCVD OR DISCONNECT REQD
		...1		DCTEOF	"B'00010000'" AN EOF HAS BEEN DETECTED
		.... 1...		DCTSINON	"B'00001000'" REMOTE DCT IS ATTACHED TO LNE DCT
		.... .1..		DCTSHMSG	"B'00000100'" Message issued for denied nonshare req (Init only)
		.... .1..		DCTPOST	"B'00000100'" I/O COMPLETE FLAG

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DCTABORT	"B'00000010'" TRANSMISSION WAS ABORTED
		.... ...1		DCTPBUF	"B'00000001'" REMOTE OUTPUT BUFFER INDICATOR
		.... ...1		DCTPSUSP	"B'00000001'" REMOTE DEVICE HAS BEEN SUSPENDED
XDCTSTAT					
		1...		XDCTOPEN	"B'10000000'" \$EXTP OPEN ISSUED
		.1...		XDCTERR	"B'01000000'" I/O ERROR INDICATOR
EQU B'00100000' DCTFLUSH EQU B'00010000' DCTEOF					
		.... 1...		XDCTMSG	"B'00001000'" FORCE DRAINED MESSAGE
		.... .1..		XDCTSKIP	"B'00000100'" RECEIVER SKIPPING BUFFER
EQU B'00000010' DCTABORT EQU B'00000001' DCTPBUF MDCTLINE					
		1...		DCTPTRSP	"B'10000000'" TRANSPARENCY
		.1...		DCTPASCII	"B'01000000'" USASCII CODE
		..1.		DCTPCTC	"B'00100000'" CHANNEL-TO-CHANNEL ADAPTER
		...1		DCTPHASP	"B'00010000'" HASP-TO-HASP
		.... 1...		DCTPCOMP	"B'00001000'" COMPRESS-EXPAND FEATURE
		.... .1..		DCTPNADS	"B'00000100'" NO ABORTIVE DISCONNECT
		.... ..1.		DCTPWIDE	"B'00000010'" WIDE-BAND LINE
		.... ...1		DCTPFULL	"B'00000001'" FULL-DUPLEX LINE
MDCTTYPE					
		1...		DCTPSNA	"B'10000000'" SNA LU TYPE TERMINAL
		.1...		DCTPCPU	"B'01000000'" BSC CPU TYPE TERMINAL
		..1.		DCTPHDW	"B'00100000'" BSC HARDWARE TERMINAL
		...1		DCTPTCP	"B'00010000'" TCP/IP LOGICAL DEVICE
		.... 1111		DCTPSUBC	"B'00001111'" LOW ORDER 4 BITS (X'0F') FOR DEVICE SUB-CLASSIFICATION
804	(324)	X'81'	0	DCTPLU1	"DCTPSNA+X'01'" SNA LU TYPE 1
804	(324)	X'41'	0	DCTP20S2	"DCTPCPU+X'01'" 360/20 SUBMODEL 2
804	(324)	X'42'	0	DCTP20S5	"DCTPCPU+X'02'" 360/20 SUBMODEL 5
804	(324)	X'43'	0	DCTP20S6	"DCTPCPU+X'03'" 360/20 SUBMODEL 6
804	(324)	X'44'	0	DCTP360	"DCTPCPU+X'04'" SYSTEM/360
804	(324)	X'45'	0	DCTP1130	"DCTPCPU+X'05'" 1130
804	(324)	X'46'	0	DCTPSYS3	"DCTPCPU+X'06'" SYSTEM/3
804	(324)	X'47'	0	DCTPCRS7	"DCTPCPU+X'07'" RESERVED FOR FUTURE USE
804	(324)	X'48'	0	DCTPSY36	"DCTPCPU+X'08'" SYSTEM 36 (BSC MODE)
804	(324)	X'49'	0	DCTP370	"DCTPCPU+X'09'" SYSTEM/370
804	(324)	X'4A'	0	DCTP20S4	"DCTPCPU+X'0A'" 360/20 SUBMODEL 4

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
804	(324)	X'4B'	0	DCTP2922	"DCTPCPU+X'0B'" 2922
804	(324)	X'21'	0	DCTP2770	"DCTPHDW+X'01'" 2770
804	(324)	X'22'	0	DCTP3781	"DCTPHDW+X'02'" 3781
804	(324)	X'23'	0	DCTP3740	"DCTPHDW+X'03'" 3740
804	(324)	X'24'	0	DCTP3780	"DCTPHDW+X'04'" 3780
804	(324)	X'25'	0	DCTP2780	"DCTPHDW+X'05'" 2780
MDCTSEL					
	1... ..			DCTPOUTB	"B'10000000'" OUTBOUND DEVICE SELECTION
MDCTPMFL					
	1... ..			DCTNPLIM	"B'10000000'" PATH MANAGER BUFFER LIMIT REACHED
MDCTFMT					
	1... ..			DCTPBLK	"B'10000000'" BLOCKED RECORDS
	.1... ..			DCTPVAR	"B'01000000'" VARIABLE LENGTH RECORDS
	..1.			DCTPROG	"B'00100000'" MULTI-LEAVING INTERFACE
	.... 1...			DCTPFCB	"B'00001000'" DEVICE FCB HAS BEEN LOADED
CTPPRES EQU B'00000100' COMPRESSED DATASTREAM ACTIVE					
	.... ..1.			DCTPALTC	"B'00000010'" ALTERNATE CODE SELECTED
	.... ...1			DCTPCPCT	"B'00000001'" COMPACTED DATASTREAM ACTIVE
	...1			DCTHOLDS	"B'00010000'" NJE TRANSMISSION HOLD STREAM
MDCTFEAT CTPTRSP EQU B'10000000' TERMINAL TRANSPARENCY					
	.... ..1.			DCTPMRF	"B'00000010'" MULTIPLE-RECORD FEATURE
	.1... ..			DCTPBEXP	"B'01000000'" BUFFER EXPANSION FEATURE
	..1.			DCTPABEX	"B'00100000'" ADDITIONAL BUFFER EXPANSION
	..1.			DCTPN DST	"B'00100000'" MEDIA NOT BASIC EXCHANGE
	...1			DCTPTAB	"B'00010000'" HORIZONTAL FORMAT CONTROL
	...1			DCTPCCTL	"B'00010000'" CARRIAGE CONTROL
	.... 1...			DCTPSHDR	"B'00001000'" SETUP HEADER FEATURE
	.... .1..			DCTPPRES	"B'00000100'" COMPRESS-EXPAND FEATURE
CTPALTC EQU B'00000010' ALTERNATE CODE SELECTED CTPCPCT EQU B'00000001' COMPACTION FEATURE DCTRAUTH					
	.... 1...			DCTREJRM	"B'00001000'" REMOTE RESTRICTION
	.... .1..			DCTREJJB	"B'00000100'" RESTRICTED FROM JOB COMMANDS

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		DCTREJDV	"B'00000010'" RESTRICTED FROM DEVICE COMMANDS
		.... ...1		DCTREJSY	"B'00000001'" RESTRICTED FROM SYSTEM COMMANDS
MDCTNFL					
		1...		MDCTNFL	"B'10000000'" THIS END LOW NODE
		.1..		MDCTNFLC	"B'01000000'" CONCURRENCE REQUIRED
		..1.		MDCTNFLE	"B'00100000'" RESET REQUIRED
		...1		MDCTNFLQ	"B'00010000'" ON ACTIVE QUEUE
		.... 1...		MDCTNFLS	"B'00001000'" SECONDARY TRUNK
		.... .1..		MDCTNFLI	"B'00000100'" SIGNON INPUT EXPECTED
		.... ..1.		MDCTNFLP	"B'00000010'" Signon is pending MAS validation
		.... ...1		MDCTNJEH	"B'00000001'" SEND NJE HDR TO SESSION PARTNR
MDCTNFL2					
		1...		MDCTNF2R	"B'10000000'" THIS LINE REQUIRES RESTART
		.1..		MDCTNF2S	"B'01000000'" RESTART OF THIS LINE IS AS SECONDARY
		..1.		MDCTNF2N	"B'00100000'" Restart line after draining it
		...1		MDCTNF2A	"B'00010000'" Signon of NJE line as primary trunk has completed
		.... 1...		MDCTNF2D	"B'00001000'" The transmitter/receiver DCTs for this line are assigned at init and should not be freed
		.... .1..		MDCTNF2I	"B'00000100'" Received 'I' record, awaiting MAS validation
		.... ..1.		MDCTNF2J	"B'00000010'" Received 'J' record, awaiting MAS validation
MDCTNFL3					
		1...		MDCTNF3M	"B'10000000'" Multi-trunk bit set from MAS validation
		.1..		MDCTNF3J	"B'01000000'" Multi-trunk bit set from 'J' record
		..1.		MDCTNF3S	"B'00100000'" Secure NJE signon
		...1		MDCTNF3Q	"B'00010000'" DCT is queued to PCT
		.... ...1		MDCTNF3E	"B'00000001'" \$EXTP PUT failed for other than buffer shortage while transmitting NMR
DCTPPFL					
		1...		DCTEJECT	"B'10000000'" PRINTER IS AT TOP OF PAGE
		.1..		DCTRPSSE	"B'01000000'" REMOTE PRINTER - SUPPRESS PAGE EJECT ON RMT SIGNON
		.1..		DCTRUSBC	"B'01000000'" REMOTE PUNCH - SUPPRESS BLANK CARD TO FLUSH PUNCH BETWEEN/ AFTER DATA SETS

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DCTALIGN	"B'00100000'" PRINTER WILL ACCEPT ALIGNMENT
		...1		DCTRANS	"B'00010000'" PRINTER TRANSLATION SPECIFIED
		.... 1...		DCTTCEL	"B'00001000'" TRACK-CELL DESPOOLING
		.... .1..		DCTRMFCB	"B'00000100'" REMOTE PRINTER HAS FCB FEATURE
		.... ..1.		DCTSUSPD	"B'00000010'" OUTPUT SUSPEND IS ALLOWED
CTPAUSE EQU B'00000001' OPERATOR SET PAUSE=YES DCTPPSW					
		1...		DCTPPSWC	"B'10000000'" FCB CARRIAGE ALTERED
		..1.		DCTPPSWB	"B'00100000'" FCB NOT STANDARD
		...1		DCTPPSWS	"B'00010000'" SUPPRESS SEPARATOR PAGES
		.... 1...		DCTPPSWT	"B'00001000'" UCS TRAIN ALTERED
		.... .1..		DCTPPSWU	"B'00000100'" UCS NOT STANDARD
		.... ..1.		DCTPPSWI	"B'00000010'" DEVICE IDLE MESSAGE ISSUED
		.... ...1		DCTPPSWO	"B'00000001'" OPERATOR ACTION ALLOWED
DCTPPSW2					
		1...		DCTNIPRT	"B'10000000'" N/I-PRINTER DCT IDENTIFIER
		.1..		DCTSTFSS	"B'01000000'" Device can only be successfully started if in FSS mode (for example, AFP1 devices)
		..1.		DCTNIMRK	"B'00100000'" N/I-PRT FORMS MARK ALTERED
		...1		DCTCKJAM	"B'00010000'" N/I-CANCEL KEY OR PAPER JAM G38E
		.... 1...		DCTNINIT	"B'00001000'" N/I-PRINTER INITIALIZATION SWITCH
		.... .1..		DCTSEPNL	"B'00000100'" N/I DON'T LOAD DEFAULT FOR SEP
		.... ..1.		DCTSDSSW	"B'00000010'" NOSEPDS/SEPDS SWITCH
		.... ...1		DCTBFCKP	"B'00000001'" \$B/\$F FROM LAST CHECKPOINT
DCTPPSW3 THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE FOR HASPCOMM PROCESSING					
		1...		DCTDOPN	"B'10000000'" DCB HAS BEEN OPENED
		.1..		DCTS3TFC	"B'01000000'" FCB has been modified via a \$T command
		..1.		DCTUCSBL	"B'00100000'" USE 4245 BLDL/LOAD FLAG
		...1		DCT3UCSV	"B'00010000'" PERFORM 424X UCS VERIFY
		.... 1...		DCTS3CNO	"B'00001000'" COPYMARKS NONE
		.... .1..		DCTS3CDS	"B'00000100'" COPYMARKS ON DATASET LEVEL
		.... ..1.		DCTS3CJB	"B'00000010'" COPYMARKS ON JOB LEVEL
		.... ...1		DCTS3CON	"B'00000001'" COPYMARKS CONSTANT

Table 128. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
804	(324)	X'F'	0	DCTS3CPY	"DCTS3CNO+DCTS3CDS+DCTS3CJB+DCTS3CON" COPYMARKS reset
DCTPPSW4					
		1... ..		DCTS4NPS	"B'10000000'" NO DATA SET PRESELECTION
		.1.. ..		DCTSNHLT	"B'01000000'" DO NOT HALT DEV FOR SETUP
		..1.		DCTSNHOR	"B'00100000'" SETUP=NOHALT OVERRIDE
		...1		DCTS40PI	"B'00010000'" INTERVENTION-REQUIRED CONDITION
		.... 1...		DCTS4TUN	"B'00001000'" Unit has been modified via \$T command
		.... .1..		DCTS4AIS	"B'00000100'" Send data ASIS to remote
		.... ..1.		DCT4TRNY	"B'00000010'" TRANS=YES
		.... ...1		DCT4TRNN	"B'00000001'" TRANS=NO
XDCTFLG1					
		1... ..		XDCT1DMP	"B'10000000'" TRANSMIT (DUMP)
		.1.. ..		XDCT1LOD	"B'01000000'" RECEIVE (LOAD)
		..1.		XDCT1SUB	"B'00100000'" SUBTASK OPERATING ON THIS DCT
		...1		XDCT1ALC	"B'00010000'" OFFLOAD DATASET ALLOCATED
		.... 1...		XDCT1CLS	"B'00001000'" CLOSE ISSUED FOR OFFLOAD DCT
		.... .1..		XDCT1VER	"B'00000100'" RECORD VERIFICATION ERROR
		.... ..1.		XDCT1RD	"B'00000010'" READ IN PROGRESS FOR OFFLOAD
		.... ...1		XDCT1STR	"B'00000001'" OFFLOAD DEVICE BEING RESTARTED
XDCTFLG2					
		1... ..		XDCT2ST	"B'10000000'" OFFLOAD XMIT/RECEIVE CAN BEGIN
		.1.. ..		XDCT2PRO	"B'01000000'" SAF PROTECTION IF DISP=NEW
		..1.		XDCT2NDF	"B'00100000'" Node of offload and this node are different
		...1		XDCT2NVR	"B'00010000'" Skip checks of time/ date stamp from first record
		.... 1...		XDCT2CRT	"B'00001000'" Set create time for jobs and SYSOUT to original creation time
MDCTFLG1 SNA REMOTE DCT FLAG BYTE					
		1... ..		MDCT1OUT	"B'10000000'" OUTPUT EXISTS FOR THIS DEV
		.1.. ..		MDCT1EOT	"B'01000000'" ACKN END-OF-TRANS (ATC) FLG

Table 129. Cross Reference for \$DCT

Name	Offset	Hex Tag
DCT	0	
DCT\$TFLS	324	8
DCT\$TNSP	324	2
DCTABORT	324	2
DCTACB	10	
DCTACPTN	32F	
DCTADS	324	80
DCTAGE	2B0	
DCTALIGN	324	20
DCTARMID	59	5
DCTASAPI	2D4	
DCTATTN	C	2
DCTBFCKP	324	1
DCTBKSP	D	8
DCTBUFAD	18	
DCTBUFCN	20	
DCTBUFLM	20	14
DCTCCWTB	33C	
DCTCDCTX	50	
DCTCHAIN	34	
DCTCHAR1	318	
DCTCHAR2	31C	
DCTCHAR3	320	
DCTCHAR4	324	
DCTCIP	324	80
DCTCKJAM	324	10
DCTCKPTL	332	
DCTCKPTP	330	
DCTCKPTT	334	
DCTCLASS	1F0	
DCTCLENT	2E8	
DCTCMODF	F	4
DCTCMODJ	F	2
DCTCNODE	2F0	
DCTCOMID	59	3
DCTCRUID	18C	
DCTCSW	340	
DCTCURJB	184	
DCTCWS	B8	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTCWSLN	1E8	130
DCTDALEN	23	1C
DCTDCB	10	
DCTDCPTN	32E	
DCTDDFCB	30C	
DCTDELET	D	40
DCTDEVID	59	
DCTDEVI2	1DA	
DCTDEVN	38	
DCTDEVNC	1C8	1C8
DCTDEVN2	1C8	
DCTDEVTP	22	
DCTDEVT2	1D9	
DCTDOPN	324	80
DCTDRAIN	C	40
DCTDVTPX	22	40
DCTEJECT	324	80
DCTEOF	324	10
DCTERMNR	E	40
DCTETX	324	20
DCTEWF	1C	
DCTEXORG	88	
DCTFCB	298	
DCTFCKMD	F	40
DCTFDFLT	F	20
DCTFEORG	68	
DCTFLAGS	D	
DCTFLAG2	E	
DCTFLAG3	23	
DCTFLAG4	2C	
DCTFLASH	2A0	
DCTFLGFW	C	
DCTFLSHD	2A4	
DCTFLUSH	324	20
DCTFORMS	1E8	
DCTFSAID	306	
DCTFSET	F	8
DCTFSID	304	
DCTFSSCH	300	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTFSSFL	F	
DCTFSSID	304	
DCTFSSMD	F	1
DCTFSSNM	2F8	
DCTFSSNW	300	
DCTFSYNC	F	10
DCTGTBSM	324	20
DCTGTDCB	324	40
DCTGTW	2D0	
DCTHOLD	C	20
DCTHOLDJ	D	4
DCTHOLDS	324	10
DCTID	0	
DCTID2	B8	E6E2D740
DCTINDEX	310	
DCTINDIR	195	80
DCTINR	22	14
DCTINRID	59	0
DCTINT	22	4
DCTINUSE	C	80
DCTIRORG	B7	B8
DCTJCFMT	208	80
DCTJCHRH	1A8	
DCTJCHRL	1A0	
DCTJCLAS	20A	
DCTJCLA8	AD	
DCTJCLS1	20A	
DCTJCLS8	20A	
DCTJCOR	218	
DCTJNUMH	19C	
DCTJNUML	198	
DCTJOBNM	17C	
DCTJREND	B8	B8
DCTJRMCS	253	
DCTJRMNO	25C	
DCTJRMSF	24E	
DCTJRSAF	24A	
DCTJTDHD	24A	40
DCTJTDKP	24A	20

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTJTDPG	24A	80
DCTJTDSP	24A	
DCTJTEND	24A	24B
DCTJWS	B8	
DCTJWSFL	208	
DCTJWSLN	20A	192
DCTLDPID	32C	
DCTLEASE	324	80
DCTLENG	2F8	240
DCTLGNID	59	C0
DCTLIMHI	1E4	
DCTLIMLO	1E0	
DCTLNE	22	2
DCTLNEID	59	D0
DCTLOG	22	6
DCTLOGAL	D	1
DCTLPOS	DB	
DCTLRECL	58	
DCTMAXWS	C0	19
DCTMCLAS	B5	
DCTMLNE	22	E
DCTMODF	328	
DCTMQTR	12	
DCTMQTRD	10	
DCTNACTV	2D8	
DCTNET	22	8
DCTNEWFS	324	10
DCTNIBRS	2C8	40
DCTNIFCB	308	
DCTNIMRK	324	20
DCTNINIT	324	8
DCTNIPRT	324	80
DCTNJR	22	18
DCTNJRID	59	50
DCTNJT	22	38
DCTNJTID	59	40
DCTNMVOL	BC	
DCTNODE	148	0
DCTNPLIM	324	80

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTNPRO	336	
DCTNRC	194	
DCTNRLEN	148	4
DCTNRR	22	58
DCTNRT	22	78
DCTNSR	22	8
DCTNSRID	59	70
DCTNST	22	28
DCTNSTID	59	60
DCTNUM	59	5A
DCTODPNV	D9	8
DCTOFF	22	84
DCTOFFID	59	FF
DCTOJEND	24A	24B
DCTOJRLN	25C	25E
DCTONODE	DE	
DCTOPEN	E	1
DCTOREND	324	32C
DCTOSEND	2F9	2FC
DCTOUTID	59	E
DCTPABEX	324	20
DCTPACTV	2DC	
DCTPALTC	324	2
DCTPASCI	324	40
DCTPATTN	C	4
DCTPAUSE	C	1
DCTPBEXP	324	40
DCTPBLK	324	80
DCTPBUF	324	1
DCTPCCTL	324	10
DCTPCE	8	
DCTPCOMP	324	8
DCTPCPCT	324	1
DCTPCPU	324	40
DCTPCRS7	324	47
DCTPCTC	324	20
DCTPFCB	324	8
DCTPFULL	324	1
DCTPHASP	324	10

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTPHDW	324	20
DCTPJ0E	2CC	
DCTPLIMH	2AC	
DCTPLIML	2A8	
DCTPLU1	324	81
DCTPMRF	324	2
DCTPNADS	324	4
DCTPNDST	324	20
DCTPOSNL	E1	FF
DCTPOST	324	4
DCTPOUTB	324	80
DCTPPFL	311	
DCTPP0S	DD	
DCTPP0SM	E0	
DCTPPRES	324	4
DCTPPSW	312	
DCTPPSWB	324	20
DCTPPSWC	324	80
DCTPPSWI	324	2
DCTPPSW0	324	1
DCTPPSW5	324	10
DCTPPSWT	324	8
DCTPPSWU	324	4
DCTPPSW2	313	
DCTPPSW3	314	
DCTPPSW4	315	
DCTPPSW5	316	
DCTPPSW6	317	
DCTPREND	340	344
DCTPRGID	59	4
DCTPRINC	B6	
DCTPRINT	90	
DCTPRIRQ	D9	4
DCTPRLIM	B7	
DCTPRMD	2BC	
DCTPRNOD	90	
DCTPROG	324	20
DCTPRPU	22	20
DCTPRRTE	92	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTPRSER	94	
DCTPRT	22	20
DCTPRTBL	2C4	
DCTPRTID	59	20
DCTPRTRN	338	
DCTPSHDR	324	8
DCTPSNA	324	80
DCTPSUBC	324	F
DCTPSUSP	324	1
DCTPSYS3	324	46
DCTPSY36	324	48
DCTPTAB	324	10
DCTPTCP	324	10
DCTPTRSP	324	80
DCTPUN	22	30
DCTPUNCH	9C	
DCTPUNID	59	30
DCTPUNOD	9C	
DCTPURTE	9E	
DCTPUSER	A0	
DCTPVAR	324	40
DCTPWIDE	324	2
DCTP1130	324	45
DCTP20S2	324	41
DCTP20S4	324	4A
DCTP20S5	324	42
DCTP20S6	324	43
DCTP2770	324	21
DCTP2780	324	25
DCTP2922	324	4B
DCTP360	324	44
DCTP370	324	49
DCTP3740	324	23
DCTP3780	324	24
DCTP3781	324	22
DCTQPOS	DA	
DCTQVAL	D8	80
DCTQWS	D8	20
DCTRACE	E	80

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTRANS	324	10
DCTRAUTH	AC	
DCTRBFF	E	20
DCTRC	14C	
DCTRCLen	148	C
DCTRCMAX	148	4
DCTRCON	22	42
DCTRCPG	324	1
DCTRDEND	B8	
DCTRDFL1	8A	
DCTRDNOD	8C	
DCTRDONE	59	2
DCTRDR	22	10
DCTRDRID	59	10
DCTRDRT	8C	
DCTRDRTe	8E	
DCTREJDV	324	2
DCTREJJB	324	4
DCTREJRM	324	8
DCTREJSY	324	1
DCTRJE	22	2
DCTRJI	22	50
DCTRJR	22	12
DCTRMFCB	324	4
DCTRMTID	59	80
DCTRROUTE	148	2
DCTRPOS	DC	
DCTRPP	22	30
DCTRPR	22	22
DCTRPSSE	324	40
DCTRPT	D	10
DCTRPU	22	32
DCTRRDY	E	10
DCTRSINT	26	
DCTRSTIM	28	
DCTRSTRT	D	20
DCTRtAM	C	8
DCTRTE	E	1
DCTRTEID	59	8

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTRTEQ	195	
DCTRUSBC	324	40
DCTRVAL	D8	40
DCTRWS	D8	1
DCTR1IND	8A	80
DCTR190	324	4
DCTSAF	1E8	
DCTSAFPT	1EC	
DCTSAPID	59	D
DCTSCHE	1F8	
DCTSDSSW	324	2
DCTSECLB	48	
DCTSEEK	10	
DCTSEEKF	10	
DCTSEPNL	324	4
DCTSFSID	59	1
DCTSHARE	324	40
DCTSHMSG	324	4
DCTSIAFF	A8	
DCTSINON	324	8
DCTSIZE	4	
DCTSLASH	D8	10
DCTSLLIM	D9	20
DCTSNHLT	324	40
DCTSNHOR	324	20
DCTSOFF	324	10
DCTSOFF2	D	10
DCTSPACE	D	3
DCTSPNID	59	2
DCTSP0F	22	80
DCTSP1	D	1
DCTSP2	D	2
DCTSREND	80	88
DCTSRMCL	2FB	
DCTSRMFC	308	
DCTSRMFL	30C	
DCTSRMFO	31C	
DCTSRMNO	2FC	
DCTSRMPR	314	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTSRMUC	310	
DCTSRMWI	324	
DCTSRV	22	C
DCTSRVCL	1F0	
DCTSRVID	59	E0
DCTSTART	F	80
DCTSTAT	C	
DCTSTAT2	24	
DCTSTDHD	2F8	40
DCTSTDKP	2F8	20
DCTSTDPG	2F8	80
DCTSTDSP	2F8	
DCTSTEND	2F9	2FC
DCTSTFSS	324	40
DCTSTOP	D	80
DCTSTRT	C	4
DCTSUSPD	324	2
DCTSWS	B8	
DCTSWSCR	2CC	218
DCTSWSLN	2F8	240
DCTS3CDS	324	4
DCTS3CJB	324	2
DCTS3CNO	324	8
DCTS3CON	324	1
DCTS3CPY	324	F
DCTS3TFC	324	40
DCTS4AIS	324	4
DCTS4NPS	324	80
DCTS40PI	324	10
DCTS4TUN	324	8
DCTTCEL	324	8
DCTTODNE	59	1
DCTTOKA	44	
DCTUCB	40	
DCTUCS	29C	
DCTUCSBL	324	20
DCTUNAL	C	10
DCTUNIT	7C	
DCTUSEID	148	4

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTUSER0	5C	
DCTUSER1	60	
DCTVOL	C0	
DCTVOLEN	B8	6
DCTVOLFL	D8	8
DCTVOLMX	B8	4
DCTWFORC	258	258
DCTWFORM	258	
DCTWKBUF	300	
DCTWORK	88	
DCTWRASI	1C0	
DCTWRNUM	1BC	
DCTWS	E4	D8
DCTWSANY	1B8	1F
DCTWSBEG	D8	
DCTWSBNS	2C8	10
DCTWSBTH	2C8	4
DCTWSCTK	D9	10
DCTWSDAN	2C8	20
DCTWSDSH	2C8	80
DCTWSENL	1B9	80
DCTWSENP	1B9	40
DCTWSENT	C0	4
DCTWSFAP	1B8	2
DCTWSFG1	1B8	
DCTWSFG2	2C8	
DCTWSFG3	2E0	
DCTWSFG4	1B9	
DCTWSFG5	196	
DCTWSFJG	1B8	1
DCTWSFJR	1B8	10
DCTWSFST	1B8	8
DCTWSFTS	1B8	4
DCTWSHLD	1B8	80
DCTWSHNS	1B8	40
DCTWSIP	2C8	8
DCTWSLIM	D9	40
DCTWSLOC	195	80
DCTWSNET	195	20

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCTWSNOT	1B8	20
DCTWSODP	D9	80
DCTWSP	B8	
DCTWSPRI	D8	
DCTWSPRL	C0	C
DCTWSPR2	D9	
DCTWSREQ	E4	
DCTWSRGS	D8	2
DCTWSRMT	195	40
DCTWSRNG	D8	4
DCTWSTB	148	
DCTWSTKN	2C8	2
DCTWSUSE	195	10
DCTWS3CF	2E0	10
DCTWS3QD	2E0	80
DCTWS3QT	2E0	40
DCTWS3QX	2E0	20
DCTWS3XN	2E0	8
DCTWTRID	2B4	
DCTXEQND	88	
DCTXFEND	F4	
DCTXFRID	59	F
DCTXJR	22	90
DCTXJT	22	B0
DCTXSR	22	80
DCTXST	22	A0
DCTXWTID	59	F
DCT1GENC	196	80
DCT1GEN1	196	40
DCT1JHLD	252	80
DCT1JHNL	252	40
DCT1JRFL	252	
DCT1SBNL	2F8	4
DCT1SBUR	2F8	8
DCT1SHLD	2F8	80
DCT1SHNL	2F8	40
DCT1SODA	2C9	F
DCT1SODH	2C9	4
DCT1SODK	2C9	2

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
DCT1SODL	2C9	1
DCT1SODW	2C9	8
DCT1SRFL	2F8	
DCT1STFL	2C9	
DCT2MODA	2F9	F
DCT2MODH	2F9	4
DCT2MODK	2F9	2
DCT2MODL	2F9	1
DCT2MODW	2F9	8
DCT2POST	E	8
DCT2PTRC	E	4
DCT2RSP	E	2
DCT2SRFL	2F9	
DCT3IOER	23	20
DCT3JWS	23	80
DCT3SODA	2FA	F
DCT3SODH	2FA	4
DCT3SODK	2FA	2
DCT3SODL	2FA	1
DCT3SODW	2FA	8
DCT3SRFL	2FA	
DCT3SWS	23	40
DCT3UCSV	324	10
DCT4ARST	2C	80
DCT4NSYN	2C	40
DCT4TRNN	324	1
DCT4TRNY	324	2
DCT5\$PPN	316	2
DCT5\$SPN	316	4
DCT5CALL	316	40
DCT5C10N	316	80
DCT5DNRC	316	8
DCT5FR0F	316	1
DCT5TFSS	316	10
DCT5TUCS	316	20
DCT6NOTR	317	80
MDCTABRT	AC	
MDCTACT	CC	
MDCTADCT	68	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
MDCTAFTK	88	
MDCTAPNL	93	
MDCTAPPL	94	
MDCTASID	AC	
MDCTASNM	B0	
MDCTATE	9C	
MDCTATMP	F8	
MDCTATTN	76	
MDCTATT8	324	1
MDCTATYP	75	
MDCTBFSZ	78	
MDCTBIDR	AC	
MDCTCHLM	7B	
MDCTCMCT	E3	
MDCTCNTS	B4	
MDCTCODE	9C	
MDCTDCK	A8	
MDCTDCNT	CA	
MDCTDCT	70	
MDCTDSC	324	8
MDCTERCT	6F	
MDCTESTR	128	
MDCTEXCD	C8	
MDCTEXIT	CC	
MDCTEXWK	C8	
MDCTFCS	7A	
MDCTFEAT	6B	
MDCTFLG1	76	
MDCTFMT	6A	
MDCTICE	6C	
MDCTIFEA	104	
MDCTIKEY	118	
MDCTIMER	324	80
MDCTIMOK	94	
MDCTINTE	324	4
MDCTINVL	A8	
MDCTISTR	120	
MDCTISWL	130	
MDCTJOB	324	30

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
MDCTJOB1	324	20
MDCTJOB2	324	10
MDCTJRN	109	
MDCTJTN	108	
MDCTKEEP	98	
MDCTLEND	140	
MDCTLGND	D0	
MDCTLINE	74	
MDCTLNCC	DF	
MDCTLNOD	13C	
MDCTLOGN	9C	
MDCTLUST	A8	
MDCTMDID	B0	
MDCTMDNQ	A8	
MDCTMDOM	100	
MDCTMEMB	90	
MDCTMLMQ	25	
MDCTMODE	6E	
MDCTMPER	B0	
MDCTMRRT	110	
MDCTMRT	10C	
MDCTMTIM	AC	
MDCTNA	D0	
MDCTNAK	A4	
MDCTNATP	9C	
MDCTNCES	D8	
MDCTNDCT	A8	
MDCTNEGR	E4	0
MDCTNETA	E3	CC
MDCTNFL	E2	
MDCTNFLC	324	40
MDCTNFLE	324	20
MDCTNFLG	AE	
MDCTNFLI	324	4
MDCTNFLL	324	80
MDCTNFLP	324	2
MDCTNFLQ	324	10
MDCTNFLS	324	8
MDCTNFL2	DC	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
MDCTNFL3	DD	
MDCTNF2A	324	10
MDCTNF2D	324	8
MDCTNF2I	324	4
MDCTNF2J	324	2
MDCTNF2N	324	20
MDCTNF2R	324	80
MDCTNF2S	324	40
MDCTNF3E	324	1
MDCTNF3J	324	40
MDCTNF3M	324	80
MDCTNF3Q	324	10
MDCTNF3S	324	20
MDCTNICE	A0	
MDCTNJEH	324	1
MDCTNLDV	108	
MDCTNLNE	A4	
MDCTNM	CC	
MDCTNMAP	F0	
MDCTNNR	D6	
MDCTNO	EC	
MDCTNODE	EC	
MDCTNOSE	AE	8
MDCTNOTS	114	
MDCTNPAS	F8	
MDCTNPCH	A0	
MDCTNQSE	A4	
MDCTNR	D4	
MDCTNSEC	AE	10
MDCTNSLO	AE	4
MDCTNTRC	AE	40
MDCTNTRJ	AE	20
MDCTNVRB	AE	80
MDCTOBUF	90	
MDCTOPCT	E0	
MDCTOTAL	A0	
MDCTPAWS	324	40
MDCTPCL	80	
MDCTPGM	88	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
MDCTPMB	C8	
MDCTPMFL	C9	
MDCTPROC	90	
MDCTPSWD	88	
MDCTPWDL	7B	
MDCTQTB	84	
MDCTQUAL	EE	
MDCTRABF	BC	
MDCTRACT	BA	
MDCTRALM	B8	
MDCTRAT	98	
MDCTRAWK	B8	
MDCTRCB	69	
MDCTRECL	68	
MDCTREM	B0	
MDCTRFCN	13B	40
MDCTRFCY	13B	80
MDCTRFXE	80	88
MDCTRNTA	F4	
MDCTRQBF	C4	
MDCTRQCT	C2	
MDCTRQLM	C0	
MDCTRQWK	C0	
MDCTRSEQ	6C	
MDCTRSTF	13B	
MDCTRSTI	138	
MDCTRSTM	134	
MDCTSBSZ	9A	
MDCTSCK	9C	
MDCTSCNT	B4	
MDCTSDCK	BC	
MDCTSDCT	18	
MDCTSEL	69	
MDCTSNAK	B8	
MDCTSNCT	90	
MDCTSOCK	A0	
MDCTSONT	114	
MDCTSREM	C4	
MDCTSRNM	10B	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
MDCTSSQD	A8	
MDCTSTAK	B8	
MDCTSTAT	77	
MDCTSTNM	10A	
MDCTSTO	C0	
MDCTSTRT	324	2
MDCTSUSP	7A	
MDCTSVND	C0	
MDCTSXCP	B4	
MDCTTDRN	DE	80
MDCTTFLG	DE	
MDCTTO	AC	
MDCTTSEQ	6D	
MDCTTTRC	DE	20
MDCTTTRJ	DE	10
MDCTTVRB	DE	40
MDCTTYPE	75	
MDCTVREQ	A0	
MDCTWICE	78	
MDCTXCOD	CB	
MDCTXCP	A0	
MDCTXERR	74	
MDCTXRSP	A4	
MDCT1EOT	324	40
MDCT1OUT	324	80
XDCTACTV	C0	
XDCTBUFQ	BC	
XDCTCMPQ	B8	
XDCTDATE	AC	
XDCTDCT	6C	
XDCTDSN	C8	
XDCTDTE	88	
XDCTDVER	B4	
XDCTERCT	C4	
XDCTERR	324	40
XDCTFLG1	97	
XDCTFLG2	98	
XDCTFREE	A6	
XDCTLABL	9A	

Table 129. Cross Reference for \$DCT (continued)

Name	Offset	Hex Tag
XDCTMAXB	C6	
XDCTMSG	324	8
XDCTOFSL	A5	
XDCTOPCT	C5	
XDCTOPEN	324	80
XDCTRCB	69	
XDCTRTPD	9B	
XDCTSEQN	8C	
XDCTSKIP	324	4
XDCTSTAT	68	
XDCTSUBC	94	
XDCTSUBR	92	
XDCTTIME	A8	
XDCTTVER	B0	
XDCTUNCT	96	
XDCTUNIT	9D	
XDCTVOLS	99	
XDCTXNUM	90	
XDCT1ALC	324	10
XDCT1CLS	324	8
XDCT1DMP	324	80
XDCT1LOD	324	40
XDCT1RD	324	2
XDCT1STR	324	1
XDCT1SUB	324	20
XDCT1VER	324	4
XDCT2CRT	324	8
XDCT2NDF	324	20
XDCT2NVR	324	10
XDCT2PRO	324	40
XDCT2ST	324	80

\$DCTTAB information

\$DCTTAB programming interface information

\$DCTTAB is a programming interface.

\$DCTTAB heading information

Common name: DCT Table Entry DSECT

Macro ID: \$DCTTAB

DSECT name: DTAB

Owning component: JES2 (SC1BH)

Eye-catcher ID: The pool of DCTTABs is preceded by an eyecatcher '**DCT POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage attributes: Subpool: Part of HASJES20 or user exit load module
Key: 1
Residency: Part of the HASJES20 load module in the JES2 address space for HASP tables. Virtual and real storage anywhere within the JES2 address space for USER tables.

Size: See DTABELEN

Created by: Assembly

Pointed to by: MCTDCTTH field of the \$MCT data area
MCTDCTTU field of the \$MCT data area
DTABSCHN field of the \$DCTTAB data area
PTABDTAB field of the \$PCETAB data area
The end of the previous DCTTAB is the start of the next DCTTAB in the pool.

Serialization: \$DCTTABs are read only.

Function: \$DCTTAB maps the static tables used by JES2 for creation, location, and deletion of \$DCTs.
\$DCTTABs are used to define devices supported by IBM distributed code. They can also be used to define installation defined devices or to override IBM defined devices (this does not imply that IBM distributed code will support the installation defined devices).

\$DCTTAB mapping

Table 130. Structure DTAB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTAB	
0	(0)	CHARACTER	8	DTABNAME	DCT TABLE ENTRY NAME
8	(8)	CHARACTER	24	DTABDESC	DCT DESCRIPTION
32	(20)	CHARACTER	8	DTABALS	DCT NAME ALIAS
40	(28)	BITSTRING	1	DTABFLG1	GENERAL FLAGS
		1...		DTAB1DEU	"B'10000000" ENTRY IS USER DTAB ENTRY
		.1..		DTAB1DEH	"B'01000000" ENTRY IS HASP DTAB ENTRY
		..1.		DTAB1PCE	"B'00100000" DCTS OF THIS TYPE EACH HAVE CORRESPONDING PCES
		...1		DTAB1MP	"B'00010000" DCTS OF THIS TYPE ARE MANAGED AS A GROUP BY ONE PCE
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE

Table 130. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DTAB2SUB	"B'10000000'" DCT HAS SUBTYPE CHAIN (PARENT)
		.1..		DTAB2POL	"B'01000000'" DCT IS IN \$DCTPOOL CHAIN
		..1.		DTAB2DCB	"B'00100000'" EXCP DCB AND DEB FOR DCT
		...1		DTAB2BSM	"B'00010000'" BSAM DCB BUILT FOR THIS DCT
		.... 1...		DTAB2CDC	"B'00001000'" CDCT BUILT FOR THIS DCT
42	(2A)	BITSTRING	1	DTABFLG3	Third flag
		1...		DTAB3JWS	"B'10000000'" Dev does JOB work sel
		.1..		DTAB3SWS	"B'01000000'" Dev does SYSOUT work sel
43	(2B)	BITSTRING	1	DTABFLG4	Fourth flag
		1...		DTAB4PPU	"B'10000000'" PCEPTR field in the UCT
		.1..		DTAB4PPH	"B'01000000'" PCEPTR field in the HCT
		..1.		DTAB4PPA	"B'00100000'" PCEPTR field in the ADDR
		...1		DTAB4PPT	"B'00010000'" PCEPTR field in the TOKEN
44	(2C)	BITSTRING	1	DTABPPTT	PCEPTR TOKEN level
45	(2D)	BITSTRING	1	DTABFLG5	Fifth flag
		1...		DTAB5CHU	"B'10000000'" CHAIN field in the UCT
		.1..		DTAB5CHH	"B'01000000'" CHAIN field in the HCT
		..1.		DTAB5CHA	"B'00100000'" CHAIN field is Address
		...1		DTAB5CHT	"B'00010000'" CHAIN field is Token
46	(2E)	BITSTRING	1	DTABCHTT	CHAIN TOKEN level
47	(2F)	BITSTRING	1	DTABFLG6	Sixth flag
		1...		DTAB6CTU	"B'10000000'" COUNT field in the UCT
		.1..		DTAB6CTH	"B'01000000'" COUNT field in the HCT
		..1.		DTAB6CTA	"B'00100000'" COUNT field is Address
		...1		DTAB6CTT	"B'00010000'" COUNT field is Token
48	(30)	BITSTRING	1	DTABCNTT	COUNT TOKEN level
49	(31)	BITSTRING	2		Reserved for future use
51	(33)	ADDRESS	1	DTABALIL	Length of ALIAS
52	(34)	BITSTRING	1	DTABID	DCTDEVTP FIELD
53	(35)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
54	(36)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
55	(37)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
56	(38)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
57	(39)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
58	(3A)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET
60	(3C)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	ADDRESS	4	DTABPCEP(0)	Offset/address of managing PCE address if DTAB1MP is On
64	(40)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on

Table 130. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
68	(44)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
72	(48)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
76	(4C)	ADDRESS	4	DTABCHN	Offset/address of DCT Chain field
80	(50)	ADDRESS	4	DTABCNT	Offset/address of DCT COUNT field
84	(54)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
86	(56)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
88	(58)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
92	(5C)	CHARACTER	16	DTABPPTK	PCEPTR token name
108	(6C)	CHARACTER	16	DTABCNTK	COUNT token name
124	(7C)	CHARACTER	16	DTABCHTK	CHAIN token name
124	(7C)	X'3'	0	DTABVERS	"3" DTAB version level
124	(7C)	X'8C'	0	DTABELEN	"*-DTAB" LENGTH OF DCT TABLE ENTRY DSECT

Table 131. Cross Reference for \$DCTTAB

Name	Offset	Hex Tag
DTAB	0	
DTABALIL	33	
DTABALS	20	
DTABCHN	4C	
DTABCHTK	7C	40404040
DTABCHTT	2E	
DTABCNT	50	
DTABCNTK	6C	40404040
DTABCNTT	30	
DTABDESC	8	
DTABDESL	39	
DTABDEV	36	
DTABELEN	7C	8C
DTABFLG1	28	
DTABFLG2	29	
DTABFLG3	2A	
DTABFLG4	2B	
DTABFLG5	2D	
DTABFLG6	2F	
DTABHV	56	
DTABID	34	
DTABLEN	3C	
DTABLV	54	
DTABNAME	0	
DTABNAML	37	

Table 131. Cross Reference for \$DCTTAB (continued)

Name	Offset	Hex Tag
DTABPCEP	40	
DTABPPTK	5C	40404040
DTABPPTT	2C	
DTABPTAB	40	
DTABPTYP	35	
DTABRTN	58	
DTABSCHN	3A	
DTABSUBL	38	
DTABVERS	7C	3
DTABWSDF	48	
DTABWSTB	44	
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB2BSM	29	10
DTAB2CDC	29	8
DTAB2DCB	29	20
DTAB2POL	29	40
DTAB2SUB	29	80
DTAB3JWS	2A	80
DTAB3SWS	2A	40
DTAB4PPA	2B	20
DTAB4PPH	2B	40
DTAB4PPT	2B	10
DTAB4PPU	2B	80
DTAB5CHA	2D	20
DTAB5CHH	2D	40
DTAB5CHT	2D	10
DTAB5CHU	2D	80
DTAB6CTA	2F	20
DTAB6CTH	2F	40
DTAB6CTT	2F	10
DTAB6CTU	2F	80

\$DILWORK information

\$DILWORK heading information

Common name: JES2 BERT Lock POST Processor

Macro ID: \$DILWORK

DSECT name: PCE (\$DILWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol DILPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$DILPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first BERT POST PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 BERT Lock POST Processor and by its support routines and exits. \$DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$DILWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEDILID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$DILWORK mapping

Table 132. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	DILDWA	Address of active DWA
4096	(1000)	X'EB4'	0	DILPCEWS	"*-PCEWORK" Length of \$DILBERT PCE

\$DLSWORK information

\$DLSWORK heading information

Common name: JES2 Deadline Secheduling PCE work area

Macro ID: \$DLSWORK

DSECT name: PCE (\$DLSWORK is part of the PCE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol DLWWSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$DLSPCE field of the \$HCT data area.
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Deadline Scheduling processor and by its support routines.
\$DLSWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$DLSWORK are actually part of PCE DSECT, but only map PCEs with the value PCEDLSID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$DLSWORK mapping

Table 133. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	1	DLSFLAG1	Flags:
		1... ..		DLS1MSTR	"B'10000000" This PCE is DLS master
		.1.. ..		DLS1MEVT	"B'01000000" MAS event to process
		..1.		DLS1CPAV	"B'00100000" Cell pool available
		...1		DLS1PCEF	"B'00010000" DLS PCE failed on this member
		.... 1...		DLS1CLN	"B'00001000" Request to perform cleanup
		.... .1..		DLS1TMO	"B'00000100" Time offset(s) changed
		.... ..1.		DLS1JOIN	"B'00000010" Member joined MAS
		.... ...1		DLS1LEFT	"B'00000001" Member left MAS
337	(151)	BITSTRING	3		Reserved
340	(154)	SIGNED	4	DLSTMINT	Timer interval in ETOD units
344	(158)	ADDRESS	8	DLSHUNTC	Chain of HOLDUNTIL events (ascending time order)
352	(160)	ADDRESS	8	DLSHUNTN	Chain of new HOLDUNTIL events (LIFO)
360	(168)	ADDRESS	8	DLSHUNTI	Intermediate chain of HOLDUNTIL events

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
368	(170)	ADDRESS	8	DLSSTBYE	Chain of DLS job entries for jobs with STARTBY
376	(178)	BITSTRING	16	DLSETOD	UTC time in ETOD format
392	(188)	SIGNED	4	DLSJCNT	Count of DLS job entries
396	(18C)	SIGNED	4	DLSLASTV	DLSJCNT at last validation
400	(190)	BITSTRING	12	DLSEVTQE	Event Timer Queue Element
412	(19C)	BITSTRING	12	DLSHBTQE	Heartbeat Timer Queue Element
424	(1A8)	BITSTRING	4	DLSMMASK	Known members mask
428	(1AC)	BITSTRING	4	DLSWMASK	Work mask
432	(1B0)	BITSTRING	224	DLSSQD	Embedded SQD
656	(290)	SIGNED	4	DLSSCSEQ	Scan sequence number
660	(294)	SIGNED	4		Reserved
Entry of DLSTMOFA array is time offset in ETOD format for member N (includes leap seconds). Array is indexed by member id.					
664	(298)	DBL WORD	8	DLSTMOFA(0)	Time offset array
928	(3A0)	ADDRESS	8	DLSPROCA(4)	Array of chains to process
960	(3C0)	SIGNED	4	DLSPJQE	Ptr to previous JQE
964	(3C4)	SIGNED	4	DLSCURRI	Current JQE index
968	(3C8)	SIGNED	4	DLSNEXTI	Next JQE index
972	(3CC)	SIGNED	4	DLSPREVI	Previous JQE index
Each entry with index N of JQE backtrack array is a pointer to JQE at position N in a queue. Entry with index 0 is not used					
976	(3D0)	ADDRESS	8	DLSJQEAR	JQE backtrack array
984	(3D8)	SIGNED	8	DLSJQEAL	Length of JQE backtrack array in IARV64 input format MACDATE -02/08/21-<6>
0	(0)	X'3E0'	0	M00M1268	"DLSIARV" ++ IARV64 NAME
992	(3E0)	DBL WORD	8	DLSIARV(0)	++ IARV64 PARM LIST
992	(3E0)	BITSTRING	1	DLSIARV_XVERSION	++ INPUT XVERSION
993	(3E1)	BITSTRING	1	DLSIARV_XREQUEST	++ XREQUEST
993	(3E1)	X'1'	0	DLSIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
993	(3E1)	X'2'	0	DLSIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
993	(3E1)	X'3'	0	DLSIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
993	(3E1)	X'4'	0	DLSIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
993	(3E1)	X'5'	0	DLSIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
993	(3E1)	X'6'	0	DLSIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
993	(3E1)	X'7'	0	DLSIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
993	(3E1)	X'8'	0	DLSIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
993	(3E1)	X'9'	0	DLSIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
993	(3E1)	X'A'	0	DLSIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
993	(3E1)	X'B'	0	DLSIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
993	(3E1)	X'C'	0	DLSIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
993	(3E1)	X'D'	0	DLSIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
993	(3E1)	X'E'	0	DLSIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
993	(3E1)	X'F'	0	DLSIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
993	(3E1)	X'10'	0	DLSIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
993	(3E1)	X'11'	0	DLSIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
993	(3E1)	X'12'	0	DLSIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
993	(3E1)	X'13'	0	DLSIARV_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
994	(3E2)	BITSTRING	1	DLSIARV_XFLAGS0	++ FIELD_LABEL
		1...		DLSIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		DLSIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		DLSIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
995	(3E3)	BITSTRING	1	DLSIARV_XKEY	++
996	(3E4)	BITSTRING	1	DLSIARV_XFLAGS1	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		DLSIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		DLSIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		DLSIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		DLSIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		DLSIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		DLSIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		DLSIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
997	(3E5)	BITSTRING	1	DLSIARV_XFLAGS2	++ FIELD_LABEL
		1...		DLSIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		DLSIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		DLSIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		DLSIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		DLSIARV_XCHANGEACCESS_GLOBAL	

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		DLSIARV_XPAGEFRAMESIZE_1MEG	
					"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		DLSIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		.... ...1		DLSIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
998	(3E6)	BITSTRING	1	DLSIARV_XFLAGS3	++ FIELD_LABEL
		1...		DLSIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		DLSIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DLSIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		DLSIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		DLSIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DLSIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DLSIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		DLSIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
999	(3E7)	BITSTRING	1	DLSIARV_XFLAGS4	++ FIELD_LABEL
		1...		DLSIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DLSIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		DLSIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DLSIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DLSIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DLSIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DLSIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		DLSIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
1000	(3E8)	DBL WORD	8	DLSIARV_XSEGMENTS	++
1008	(3F0)	CHARACTER	16	DLSIARV_XTTOKEN	++
1024	(400)	DBL WORD	8	DLSIARV_XUSERTKN	++
1032	(408)	ADDRESS	8	DLSIARV_XORIGIN	++
1040	(410)	ADDRESS	8	DLSIARV_XRANGLIST	++
1048	(418)	ADDRESS	8	DLSIARV_XMEMOBJSTART	++
1056	(420)	SIGNED	4	DLSIARV_XGUARDSIZE	++
1060	(424)	SIGNED	4	DLSIARV_XCONVERTSIZE	++
1064	(428)	SIGNED	4	DLSIARV_XALETVALUE	++
1068	(42C)	SIGNED	4	DLSIARV_XNUMRANGE	++
1072	(430)	ADDRESS	4	DLSIARV_XV64LISTPTR	++
1076	(434)	SIGNED	4	DLSIARV_XV64LISTLENGTH	++
1080	(438)	DBL WORD	8	DLSIARV_XCONVERTSTART	++

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1088	(440)	DBL WORD	8	DLSIARV_XCONVERTSIZE64	++
1096	(448)	DBL WORD	8	DLSIARV_XGUARDSIZE64	++
1104	(450)	CHARACTER	8	DLSIARV_XUSERTOKEN	++
1112	(458)	BITSTRING	1	DLSIARV_XDUMPPRIORITY	++
1113	(459)	BITSTRING	1	DLSIARV_XFLAGS5	++ FIELD_LABEL
		1...		DLSIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DLSIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DLSIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DLSIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DLSIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		DLSIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DLSIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		DLSIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1114	(45A)	BITSTRING	1	DLSIARV_XFLAGS6	++ FIELD_LABEL
		1...		DLSIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DLSIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DLSIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		DLSIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DLSIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DLSIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DLSIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		DLSIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1115	(45B)	BITSTRING	1	DLSIARV_XFLAGS7	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		DLSIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DLSIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		DLSIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DLSIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DLSIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DLSIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		DLSIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1116	(45C)	BITSTRING	1	DLSIARV_XDUMP	++ XDUMP
1116	(45C)	X'0'	0	DLSIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1116	(45C)	X'1'	0	DLSIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1116	(45C)	X'2'	0	DLSIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1116	(45C)	X'3'	0	DLSIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1116	(45C)	X'20'	0	DLSIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1116	(45C)	X'21'	0	DLSIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1116	(45C)	X'FF'	0	DLSIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1117	(45D)	BITSTRING	1	DLSIARV_XFLAGS8	++ FIELD_LABEL
		1...		DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		DLSIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		DLSIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		DLSIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		DLSIARV_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		DLSIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		DLSIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		DLSIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
1118	(45E)	BITSTRING	2	DLSIARV_XOWNERASID	++
1120	(460)	BITSTRING	1	DLSIARV_XOPTIONVALUE	++
1121	(461)	CHARACTER	8	DLSIARV_XRSV0001	++ RESERVED
1129	(469)	CHARACTER	8	DLSIARV_XOWNERJOBNAME	++
1137	(471)	CHARACTER	7	DLSIARV_XRSV0004	++ RESERVED
1144	(478)	ADDRESS	8	DLSIARV_XDMPAGETABLE	++
1152	(480)	DBL WORD	8	DLSIARV_XUNITS	++
1160	(488)	BITSTRING	1	DLSIARV_XFLAGS9	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		DLSIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DLSIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DLSIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		DLSIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		DLSIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1161	(489)	BITSTRING	1	DLSIARV_XFLAGS10	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		DLSIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD

Table 133. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		DLSIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		DLSIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
1162	(48A)	BITSTRING	1	DLSIARV_XFLAGS11	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1..		DLSIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		DLSIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
1163	(48B)	CHARACTER	5	DLSIARV_XRSV0005	++ RESERVED
1163	(48B)	X'490'	0	DLSIARV_PL_END	"*" ++ END OF BASE PLIST
1024	(400)	DBL WORD	8	DLSIARV_XOUTMOTKN	++
1024	(400)	DBL WORD	8	DLSIARV_XMOTKN	++
1048	(418)	ADDRESS	8	DLSIARV_XINORIGIN	++
1048	(418)	ADDRESS	8	DLSIARV_XINADDR	++
1168	(490)	X'B0'	0	DLSIARVL	"*-DLSIARV" ++ LENGTH OF PLIST
IARV64-6					
0	(0)	X'B0'	0	DLSIARS	"*-DLSIARV" Size of above
1168	(490)	SIGNED	4	DLSERCNT	Error count
1172	(494)	SIGNED	4	DLSEXTID	\$MSTNTFY exit id
1176	(498)	BITSTRING	1	DLSXREQ	Space for DLS XREQ request
Tree descriptor describes the AVL tree used to access DLS job entries for jobs with STARTBY. Tree descriptor is mapped by XTDTREE DSECT in macro \$XTREE.					
1328	(530)	BITSTRING	1	DLSSTREE	Tree descriptor
Tree node descriptor describes the node of the AVL tree in DLSSBTR. Node descriptor is mapped by XTNNODE DSECT in macro \$XTREE.					
4248	(1098)	BITSTRING	1	DLSSNODD	Node descriptor
4248	(1098)	X'F98'	0	DLSWKSIZ	"*-PCEWORK" Length of DLS PCE

Table 134. Cross Reference for \$DLSWORK

Name	Offset	Hex Tag
DLSCURRI	3C4	
DLSERCNT	490	
DLSETOD	178	
DLSEVTQE	190	
DLSEXTID	494	
DLSFLAG1	150	
DLSHBTQE	19C	
DLSHUNTC	158	

Table 134. Cross Reference for \$DLSWORK (continued)

Name	Offset	Hex Tag
DLSHUNTI	168	
DLSHUNTN	160	
DLSIARS	0	B0
DLSIARV	3E0	
DLSIARV_KEYUSED_CONVERTSIZE64	3E4	4
DLSIARV_KEYUSED_CONVERTSTART	3E4	10
DLSIARV_KEYUSED_DUMP	45B	80
DLSIARV_KEYUSED_GUARDSIZE64	3E4	8
DLSIARV_KEYUSED_INORIGIN	489	80
DLSIARV_KEYUSED_KEY	3E4	80
DLSIARV_KEYUSED_MOTKN	3E4	2
DLSIARV_KEYUSED_OBJECTTYPE	48A	80
DLSIARV_KEYUSED_OPTIONVALUE	45B	40
DLSIARV_KEYUSED_OWNERJOBNAME	3E4	1
DLSIARV_KEYUSED_SENSITIVE	489	10
DLSIARV_KEYUSED_SVCDUMPRGN	45B	20
DLSIARV_KEYUSED_TTOKEN	3E4	20
DLSIARV_KEYUSED_UNITS	488	80
DLSIARV_KEYUSED_USERTKN	3E4	40
DLSIARV_PL_END	48B	490
DLSIARV_XAFFINITY_SYSTEM	3E6	40
DLSIARV_XALETVALUE	428	
DLSIARV_XAMOUNTSIZE_1MEG	45A	2
DLSIARV_XAMOUNTSIZE_4K	45A	4
DLSIARV_XATTRIBUTE_DEFS	45B	10
DLSIARV_XATTRIBUTE_NOTOWNERGONE	45B	4
DLSIARV_XATTRIBUTE_OWNERGONE	45B	8
DLSIARV_XCHANGEACCESS_GLOBAL	3E5	8
DLSIARV_XCLEAR_NO	3E7	40
DLSIARV_XCOND_YES	3E5	80
DLSIARV_XCONTROL_AUTH	3E5	20
DLSIARV_XCONVERT_FROMGUARD	3E7	2
DLSIARV_XCONVERT_TOGUARD	3E7	4
DLSIARV_XCONVERTSIZE	424	
DLSIARV_XCONVERTSIZE64	440	
DLSIARV_XCONVERTSTART	438	
DLSIARV_XDETACHFIXED_YES	45A	20
DLSIARV_XDISCARDPAGES_YES	0	4
DLSIARV_XDMAPAGETABLE	478	

Table 134. Cross Reference for \$DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XDOAUTHCHECKS_YES	45A	10
DLSIARV_XDUMP	45C	
DLSIARV_XDUMP_ALL	45C	FF
DLSIARV_XDUMP_LIKECSA	45C	3
DLSIARV_XDUMP_LIKELSQA	45C	21
DLSIARV_XDUMP_LIKERGN	45C	20
DLSIARV_XDUMP_LIKESQA	45C	2
DLSIARV_XDUMP_NO	45C	1
DLSIARV_XDUMP_NONE	45C	0
DLSIARV_XDUMPPRIORITY	458	
DLSIARV_XDUMPPROTOCOL_YES	459	80
DLSIARV_XEXECUTABLE_NO	0	1
DLSIARV_XEXECUTABLE_YES	0	2
DLSIARV_XFLAGS0	3E2	
DLSIARV_XFLAGS1	3E4	
DLSIARV_XFLAGS10	489	
DLSIARV_XFLAGS11	48A	
DLSIARV_XFLAGS2	3E5	
DLSIARV_XFLAGS3	3E6	
DLSIARV_XFLAGS4	3E7	
DLSIARV_XFLAGS5	459	
DLSIARV_XFLAGS6	45A	
DLSIARV_XFLAGS7	45B	
DLSIARV_XFLAGS8	45D	
DLSIARV_XFLAGS9	488	
DLSIARV_XFPROT_NO	3E5	40
DLSIARV_XGUARDLOC_HIGH	3E5	10
DLSIARV_XGUARDSIZE	420	
DLSIARV_XGUARDSIZE64	448	
DLSIARV_XINADDR	418	
DLSIARV_XINORIGIN	418	
DLSIARV_XKEEPREAL_NO	3E7	1
DLSIARV_XKEY	3E3	
DLSIARV_XLOCALSYSAREA_YES	45A	8
DLSIARV_XLONG_NO	3E7	80
DLSIARV_XMATCH_MOTOKEN	3E2	20
DLSIARV_XMATCH_USERTOKEN	3E6	80
DLSIARV_XMEMLIMIT_COND	45A	1
DLSIARV_XMEMLIMIT_NO	45A	40

Table 134. Cross Reference for \$DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XMEMOBJSTART	418	
DLSIARV_XMOTKN	400	
DLSIARV_XMOTKNCREATOR_SYSTEM	3E2	40
DLSIARV_XMOTKNSOURCE_SYSTEM	3E2	80
DLSIARV_XNUMRANGE	42C	
DLSIARV_XOBJECTTYPE_POOL	48A	40
DLSIARV_XOBJECTTYPE_RSMINTERNAL	48A	20
DLSIARV_XOPTIONVALUE	460	
DLSIARV_XORDER_DUMPRIORITY	459	40
DLSIARV_XORIGIN	408	
DLSIARV_XOUTMOTKN	400	
DLSIARV_XOWNER_NO	3E6	10
DLSIARV_XOWNERASID	45E	
DLSIARV_XOWNERCOM_BYASID	459	1
DLSIARV_XOWNERCOM_HOME	459	8
DLSIARV_XOWNERCOM_PRIMARY	459	4
DLSIARV_XOWNERCOM_SYSTEM	459	2
DLSIARV_XOWNERJOBNAME	469	
DLSIARV_XPAGEFRAMESIZE_ALL	3E5	1
DLSIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DLSIARV_XPAGEFRAMESIZE_MAX	3E5	2
DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	45D	80
DLSIARV_XPAGEFRAMESIZE_1M	488	10
DLSIARV_XPAGEFRAMESIZE_1MEG	3E5	4
DLSIARV_XPAGEFRAMESIZE_2G	488	8
DLSIARV_XRANGLIST	410	
DLSIARV_XREQUEST	3E1	
DLSIARV_XREQUEST_CHANGEACCESS	3E1	B
DLSIARV_XREQUEST_CHANGEATTRIBUTE	3E1	13
DLSIARV_XREQUEST_CHANGEGUARD	3E1	D
DLSIARV_XREQUEST_COUNTPAGES	3E1	10
DLSIARV_XREQUEST_DETACH	3E1	3
DLSIARV_XREQUEST_DISCARDATA	3E1	7
DLSIARV_XREQUEST_GETCOMMON	3E1	F
DLSIARV_XREQUEST_GETSHARED	3E1	2
DLSIARV_XREQUEST_GETSTOR	3E1	1
DLSIARV_XREQUEST_LIST	3E1	E
DLSIARV_XREQUEST_PAGEFIX	3E1	4
DLSIARV_XREQUEST_PAGEIN	3E1	8

Table 134. Cross Reference for \$DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XREQUEST_PAGEOUT	3E1	6
DLSIARV_XREQUEST_PAGEUNFIX	3E1	5
DLSIARV_XREQUEST_PCIEFIX	3E1	11
DLSIARV_XREQUEST_PCIEUNFIX	3E1	12
DLSIARV_XREQUEST_PROTECT	3E1	9
DLSIARV_XREQUEST_SHAREMEMOBJ	3E1	A
DLSIARV_XREQUEST_UNPROTECT	3E1	C
DLSIARV_XRSV0001	461	
DLSIARV_XRSV0004	471	
DLSIARV_XRSV0005	48B	
DLSIARV_XSADMP_NO	0	10
DLSIARV_XSADMP_YES	0	20
DLSIARV_XSEGMENTS	3E8	
DLSIARV_XSENSITIVE_NO	489	20
DLSIARV_XSENSITIVE_YES	489	40
DLSIARV_XSVCDUMPRGN_ALL	3E6	1
DLSIARV_XSVCDUMPRGN_NO	3E6	4
DLSIARV_XTRACKINFO_YES	45B	2
DLSIARV_XTTOKEN	3F0	
DLSIARV_XTYPE_DREF	459	10
DLSIARV_XTYPE_FIXED	488	4
DLSIARV_XTYPE_PAGEABLE	459	20
DLSIARV_XUNITS	480	
DLSIARV_XUNITSIZE_1M	488	40
DLSIARV_XUNITSIZE_2G	488	20
DLSIARV_XUNLOCKED_YES	45B	1
DLSIARV_XUSERTKN	400	
DLSIARV_XUSERTOKEN	450	
DLSIARV_XUSE2GT032G_YES	3E6	20
DLSIARV_XUSE2GT064G_YES	0	8
DLSIARV_XVERSION	3E0	
DLSIARV_XVIEW_HIDDEN	3E7	8
DLSIARV_XVIEW_READONLY	3E7	20
DLSIARV_XVIEW_SHAREDWRITE	3E7	10
DLSIARV_XV64COMMON_NO	45A	80
DLSIARV_XV64LISTLENGTH	434	
DLSIARV_XV64LISTPTR	430	
DLSIARV_XV64SELECT_NO	3E6	8
DLSIARV_XV64SHARED_NO	3E6	2

Table 134. Cross Reference for \$DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARVL	490	B0
DLSJCNT	188	
DLSJQEAL	3D8	
DLSJQEAR	3D0	
DLSLASTV	18C	
DLSMMASK	1A8	
DLSNEXTI	3C8	
DLSPJQE	3C0	
DLSPREVI	3CC	
DLSPROCA	3A0	
DLSSCSEQ	290	
DLSSNODD	1098	
DLSSQD	1B0	
DLSSTBYE	170	
DLSSTREE	530	
DLSTMINT	154	
DLSTMOFA	298	
DLSWKSIZ	1098	F98
DLSWMASK	1AC	
DLSXREQ	498	
DLS1CLN	150	8
DLS1CPAV	150	20
DLS1JOIN	150	2
DLS1LEFT	150	1
DLS1MEVT	150	40
DLS1MSTR	150	80
DLS1PCEF	150	10
DLS1TMO	150	4
M00M1268	0	3E0
PCE	0	

\$DSB information

\$DSB heading information

Common name:	Data Space Control Block
Macro ID:	\$DSB
DSECT name:	DSB
Owning component:	JES2 (SC1BH)

Eye-catcher ID: \$DSB
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4

Storage attributes: Subpool: 231 or 229
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in common storage (if SCOPE=LOCAL or SCOPE=ALL) and private storage (if SCOPE=LOCAL).

Size: See DSBLLEN (plus an 8 byte prefix)

Created by: HASCDSS during data space create

Pointed to by: CCTDSB field of the \$HCCT data area
HXBDSB field of the \$HASXB data area
DSBNEXT field of the \$DSB data area
SCIDDSB field of the \$SCID data area for CKPT versions

Serialization: None required

Function: This DSECT maps a work area used in the maintenance of JES2 dataspace.

\$DSB mapping

Table 135. Structure DSB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSB	DATASPACE BLOCK
0	(0)	BITSTRING	1	DSBVERS	CONTROL BLOCK VERSION
0	(0)	X'2'	0	DSBVERSN	"2" Current control block ver
1	(1)	BITSTRING	1	DSBFLAG1	Latest \$DSPSERV request type (see DSWAIFL1 for bit values). Not set for RELEASE requests
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	DSBNEXT	Pointer to the next DSB
8	(8)	SIGNED	4	DSBRC	Return code from latest service routine (\$DSPSERV or \$ALESERV)
12	(C)	SIGNED	4	DSBALET	ALET FOR JES2 TO USE WHEN ACCESSING THE DATA SPACE
16	(10)	BITSTRING	8	DSBSTKN	DATASPACE TOKEN
24	(18)	ADDRESS	4	DSBOASCB	Owning ASCB address
28	(1C)	BITSTRING	8	DSBOSTKN	Owning STOKEN value
36	(24)	ADDRESS	4	DSBOTCB	Owning TCB address
40	(28)	BITSTRING	16	DSBOTTKN	Owning TCB TTOKEN
56	(38)	ADDRESS	4	DSBORG	DATASPACE ORIGIN
60	(3C)	SIGNED	4	DSBBLKSM	MAX data space size
64	(40)	SIGNED	4	DSBBLKSC	Current data space size
68	(44)	SIGNED	4	DSBBLKSI	Initial data space size
72	(48)	CHARACTER	8	DSBPNAME	Name passed on \$DSPSERV
80	(50)	CHARACTER	8	DSBNAME(0)	Constructed data space name
80	(50)	CHARACTER	4	DSBNAME1	USUALLY SUBSYSTEM NAME
84	(54)	CHARACTER	4	DSBNAME2	First 4 bytes of DSBPNAME
88	(58)	CHARACTER	8	DSBOUTN	DATASPACE NAME USED

Table 135. Structure DSB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
96	(60)	BITSTRING	1	DSBKEY	DATASPACE KEY
97	(61)	BITSTRING	1	DSBFLAG2	Data space flags
		1... ..		DSB2FPRO	"B'10000000'" DS is fetch protected
		..1.		DSB2OWNM	"B'00100000'" OWNER=MASTER specified
		...1		DSB2OWNC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSB2OWNA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSB2SCL0	"B'00000100'" SCOPE=LOCAL data space
		.... ..1.		DSB2SCAL	"B'00000010'" SCOPE=ALL data space
		.... ...1		DSB2SCC0	"B'00000001'" SCOPE=COMMON data space
98	(62)	BITSTRING	1	DSBFLAG3	Data space processing flags
		1... ..		DSB3IDCK	"B'10000000'" Init deck check option
99	(63)	BITSTRING	1		RESERVED FOR FUTURE USE
100	(64)	ADDRESS	4	DSBLIST	Pointer to DSPSERV work area (used for CREATE and DELETE only)
104	(68)	SIGNED	4	DSBVRBAS	Alt base for VER/REP facil
108	(6C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
120	(78)	DBL WORD	8	(0)	Ensure doubleword alignment
120	(78)	X'78'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

Table 136. Cross Reference for \$DSB

Name	Offset	Hex Tag
DSB	0	
DSBALET	C	
DSBBLKSC	40	
DSBBLKSI	44	
DSBBLKSM	3C	
DSBFLAG1	1	
DSBFLAG2	61	
DSBFLAG3	62	
DSBKEY	60	
DSBLEN	78	78
DSBLIST	64	
DSBNAME	50	
DSBNAME1	50	
DSBNAME2	54	
DSBNEXT	4	
DSBOASCB	18	
DSBORG	38	
DSBOSTKN	1C	
DSBOTCB	24	
DSBOTTKN	28	
DSBOUTN	58	

Table 136. Cross Reference for \$DSB (continued)

Name	Offset	Hex Tag
DSBPNAME	48	
DSBRC	8	
DSBSTKN	10	
DSBVERS	0	
DSBVERSN	0	2
DSBVRBAS	68	
DSB2FPRO	61	80
DSB2OWNA	61	8
DSB2OWNC	61	10
DSB2OWNM	61	20
DSB2SCAL	61	2
DSB2SCCO	61	1
DSB2SCLO	61	4
DSB3IDCK	62	80

\$DSCT information

\$DSCT programming interface information

\$DSCT is a programming interface.

\$DSCT heading information

Common name:	Data Set Control Table
Macro ID:	\$DSCT
DSECT name:	DSCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DSCT' Offset: DSID-DSCT Length: 4
Storage attributes:	Subpool: Same as \$IOT Key: Same as \$IOT Residency: The DSCT resides within the \$IOT data area.
Size:	See DSCTLEN
Created by:	\$IOTBLD routine, filled in by the \$DSCTBLD routine at allocation time
Pointed to by:	IOTDSCT field of the \$IOT data area contains the offset within the IOT of the DSCT.
Serialization:	Same as \$IOT

Function: The DSCT is a control block which resides within the IOT control block. The DSCT is initialized only for data sets created by APPC Transaction Programs. The DSCT contains data set level information used to override job level information. The DSCT is located at the end of each spin IOT. Flag IOT2DSCT indicates that the DSCT exists and contains valid information.

\$DSCT mapping

Table 137. Structure DSCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSCT	HASP Data Set Control Table
0	(0)	DBL WORD	8	(0)	Assumed double word start
0	(0)	CHARACTER	4	DSID	DSCT identifier
4	(4)	ADDRESS	1	DSVERS	DSCT version number
4	(4)	X'1'	0	DSVERN	"1" DSCT version
5	(5)	BITSTRING	1	DSFLAG1	DSCT flag byte 1
		1...		DSUSUNDF	"B'10000000'" Userid is undefined
6	(6)	SIGNED	2		Reserved for future use
8	(8)	CHARACTER	8	DSJBN	Job name
16	(10)	CHARACTER	8	DSWKID	Work unit identifier
Note the source for the entry and execution start DSESTK Entry start clock time JSAB.JSABESTK NDHOX.NDHOXEST DSXSTK Execution start clock time JSAB.JSABXSTK NDHOX.NDHOXXST					
24	(18)	DBL WORD	8	DSESTK	Entry start clock time (STCK)
32	(20)	DBL WORD	8	DSXSTK	Execution start clock time (STCK)
40	(28)	SIGNED	4	DSSTRT	Entry time in 1/100's sec
44	(2C)	SIGNED	4	DSSTRD	Entry date 00yydddf
48	(30)	CHARACTER	8	DSUID	User identification field
56	(38)	CHARACTER	8	DSTPUID	Transaction Program Userid
64	(40)	CHARACTER	4	DSACT	Account number
68	(44)	SIGNED	4		Reserved for future use
72	(48)	SIGNED	4		Reserved for future use
76	(4C)	SIGNED	4		Reserved for future use
80	(50)	SIGNED	4		Reserved for future use
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4		Reserved for future use
92	(5C)	SIGNED	4	DSUSERF(5)	Reserved fields for user
92	(5C)	X'70'	0	DSCTLEN	"*-DSCT" Length of DSCT

Table 138. Cross Reference for \$DSCT

Name	Offset	Hex	Tag
DSACT	40		
DSCT	0		
DSCTLEN	5C		70
DSESTK	18		

Table 138. Cross Reference for \$DSCT (continued)

Name	Offset	Hex Tag
DSFLAG1	5	
DSID	0	C4E2C3E3
DSJBN	8	
DSSTRD	2C	
DSSTRT	28	
DSTPUID	38	
DSUID	30	
DSUSERF	5C	
DSUSUNDF	5	80
DSVERN	4	1
DSVERS	4	
DSWKID	10	
DSXSTK	20	

\$DSSCB information

\$DSSCB heading information

Common name:	Data Set Services Control Block
Macro ID:	\$DSSCB
DSECT name:	DSSCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	DSS Offset: DSSID-DSSCB Length: L'DSSID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the JES2 address space.
Size:	See DSSGLEN+DSSVLEN
Created by:	RDSMSG routine in HASPRDR, and OPJLOG routine in HASPHOPE
Pointed to by:	OUTDSSCB field of the \$OUTWORK data area
Serialization:	See macros \$DSOPEN, \$DSPUT, and \$DSCLOSE

Function:

The \$DSSCB is a work area used to allow data set services. Three sections are identified in the \$DSSCB dsect.

The three sections are: 1) a control section, 2) an internal work area, and 3) a caller's work area.

The Control Section:

Fields in the control section must be set prior to calling \$DSOPEN. Failure to set the fields in this section will result in a failure in \$DSOPEN.

Internal Work Section:

The internal work area will be set to zero by \$DSOPEN. Subsequent data set services will use this internal work area to store information such as buffer pointers and counters.

Caller's Work Area:

The caller section will contain all the fields that the caller of the data set service routines will need to set to write the next record.

\$DSSCB mapping

Table 139. Structure DSSCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSSCB	HASP DATA SET SERVICE DSECT
0	(0)	CHARACTER	4	DSSID	DATA SET SERVICE IDENTIFIER
4	(4)	ADDRESS	4	DSSAIOT	POINTER TO ALLOCATION IOT
8	(8)	BITSTRING	8	DSSKEY(0)	RECORD VERIFICATION KEY
8	(8)	BITSTRING	4	DSSJKEY	4-BYTE UNIQUE JOB KEY
12	(C)	BITSTRING	4	DSSDSKEY	4-BYTE UNIQUE DATA SET NUMBER
12	(C)	X'10'	0	DSSGLEN	"*-DSSCB" LEN OF GENERAL SECT OF DSS
INTERNAL WORK AREA - THESE FIELDS ARE SET TO ZERO ON ENTRY TO THE \$DSOPEN ROUTINE					
16	(10)	ADDRESS	4	DSSABUF	STORAGE ADDR OF FIRST BUF
20	(14)	ADDRESS	4	DSSONXT	ADDR OF NEXT RECORD IN BUF
24	(18)	ADDRESS	4	DSSNBUF	STORAGE ADDR OF NEXT BUFFER
28	(1C)	ADDRESS	4	DSSRBUF	Storage addr of READ buffer
32	(20)	BITSTRING	6	DSSMQTRF	Track addr of first buf in new ds chain created by \$DSPUT
38	(26)	BITSTRING	6	DSSMQTRO	Track address of last buffer in original data set chain
44	(2C)	ADDRESS	4	DSSPIOT	IOT ADDR OF 'OPENED' PDDB
48	(30)	ADDRESS	4	DSSPDDB	ADDRESS OF 'OPENED' PDDB
52	(34)	SIGNED	4	DSSRECCT	DATA SET RECORD COUNT
56	(38)	SIGNED	4	DSSPGCT	DATA SET PAGE COUNT
60	(3C)	SIGNED	4	DSSBYTE	DATA SET BYTE COUNT
64	(40)	ADDRESS	4	DSSRECAD	ADDR OF USER SUPPLIED REC
68	(44)	ADDRESS	4	DSSEWF	Callers's PCEIOEWF
72	(48)	SIGNED	4	DSSRCNT	Count of records in buffer
76	(4C)	BITSTRING	1	DSSFLAG1	DATA SET SERVICE FLAG BYTE

Table 139. Structure DSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
CALLER WORK AREA - DATA IN THIS AREA IS SUPPLIED BY THE CALLER OF \$DSPUT. IF CARRIAGE CONTROL INFORMATION IS NOT SUPPLIED THEN TRIPLE SPACING WILL BE SET AS THE DEFAULT CARRIAGE CONTROL. NONE OF THE FIELDS IN THE CALLER WORK AREA WILL BE ZEROED AFTER THE INITIAL ZEROING DONE BY \$DSOPEN. IF THE LENGTH OR CARRIAGE CONTROL INFORMATION IS TO CHANGE THEN THE CALLER MUST UPDATE THESE FIELDS PRIOR TO THE CALL TO \$DSPUT.					
77	(4D)	BITSTRING	1	DSSCCTL	CARRIAGE CONTROL BYTE - IF NOT SET TRIPLE SPACING ASSUME
78	(4E)	SIGNED	2	DSSLEN	LENGTH OF INPUT DATA RECORD
80	(50)	ADDRESS	4	DSSRECPT	PENTER TO DATA RECORD
80	(50)	X'44'	0	DSSVLEN	"*-DSSABUF" LENGTH OF VARIABLE SECTION
84	(54)	SIGNED	4	DSSREC(0)	START OF RECORD TEXT
DSSFLAG1 FLAG SETTINGS FOR DSSFLAG1					
		1... ..		DSS1OPEN	"B'10000000'" DATA SET HAS BEEN \$DSOPENED
		.1... ..		DSS1NCLS	"B'01000000'" \$DSCLOSE DATA SET IN ERROR
		..1.		DSS1PUTS	"B'00100000'" A \$DSPUT HAS BEEN COMPLETED
		...1		DSS1FRST	"B'00010000'" \$DSCLOSE READ FIRST RECORD OF THE ORIGINAL DATA SET
		.... 1...		DSS1DSTR	"B'00001000'" \$DSCLOSE HAS ISSUED DISTERR
		.... .1..		DSS1BTRC	"B'00000100'" Blank truncate data set

Table 140. Cross Reference for \$DSSCB

Name	Offset	Hex	Tag
DSSABUF	10		
DSSAIOT	4		
DSSBYTE	3C		
DSSCB	0		
DSSCCTL	4D		
DSSDSKEY	C		
DSSEWF	44		
DSSFLAG1	4C		
DSSGLEN	C		10
DSSID	0		
DSSJKEY	8		
DSSKEY	8		
DSSLEN	4E		
DSSMQTRF	20		
DSSMQTRO	26		
DSSNBUF	18		

Table 140. Cross Reference for \$DSSCB (continued)

Name	Offset	Hex Tag
DSSONXT	14	
DSSPDDB	30	
DSSPGCT	38	
DSSPIOT	2C	
DSSRBUF	1C	
DSSRCNT	48	
DSSREC	54	
DSSRECAD	40	
DSSRECCT	34	
DSSRECPT	50	
DSSVLEN	50	44
DSS1BTRC	54	4
DSS1DSTR	54	8
DSS1FRST	54	10
DSS1NCLS	54	40
DSS1OPEN	54	80
DSS1PUTS	54	20

\$DSWA information

\$DSWA programming interface information

\$DSWA is a programming interface.

\$DSWA heading information

Common name:	Data Space Services Work Area
Macro ID:	\$DSWA
DSECT name:	DSWA
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	DSWA Offset: DSWAID-DSWA Length: L'DSWAID
Storage attributes:	Subpool: 229 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage.
Size:	See DSWASIZE
Created by:	\$DSPSERV macro
Pointed to by:	None
Serialization:	None required

Function:

This DSECT maps the parameter list to the data space services routines in HASCDSS. It is created by the \$DSPSERV macro and freed in HASCDSS.

\$DSWA mapping

Table 141. Structure DSWA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSWA	
0	(0)	CHARACTER	4	DSWAID	\$DSWA IDENTIFIER
4	(4)	BITSTRING	1	DSWAVERS	\$DSWA VERSION NUMBER
4	(4)	X'3'	0	DSWALEVL	"3" \$DSWA CURRENT VERS LEVEL
INPUT FLAG INDICATORS.					
5	(5)	BITSTRING	1	DSWAIFL1	\$DSPSERV FUNCTION FLAG
		1...		DSWAI1CR	"B'10000000" Create request
		.1..		DSWAI1EX	"B'01000000" Extend request
		..1.		DSWAI1RL	"B'00100000" Release request
		...1		DSWAI1DE	"B'00010000" Delete request
6	(6)	BITSTRING	1	DSWAIFL2	\$DSPSERV Parameter flag (flags must be the same as CPMFLAG3)
		1...		DSWAI2FY	"B'10000000" FPROT=YES specified
		.1..		DSWAI2FN	"B'01000000" FPROT=NO specified
		..1.		DSWAI2OM	"B'00100000" OWNER=MASTER specified
		...1		DSWAI2OC	"B'00010000" OWNER=CURRENT specified
		.... 1...		DSWAI2OA	"B'00001000" OWNER=AUX specified
		.... .1..		DSWAI2SL	"B'00000100" SCOPE=LOCAL specified
		.... ..1.		DSWAI2SA	"B'00000010" SCOPE=ALL specified
		.... ...1		DSWAI2SC	"B'00000001" SCOPE=COMMON specified
7	(7)	BITSTRING	1	DSWAIFL3	\$DSPSERV general flag
		1...		DSWAI3PD	"B'10000000" DSWA passed on call
8	(8)	BITSTRING	3	DSWARS01	Reserved for development
Input/Output data fields (see \$DSPSERV for an explanation of the fields).					
11	(B)	BITSTRING	1	DSWAKEY	KEY= KEYWORD
12	(C)	ADDRESS	4	DSWADSB	DSB= keyword
16	(10)	CHARACTER	8	DSWANAME	NAME= KEYWORD
24	(18)	CHARACTER	8	DSWACALL	NAME OF \$DSPSERV CALLER
32	(20)	SIGNED	4	DSWABLCM	BLOCKS=(max,) keyword
36	(24)	SIGNED	4	DSWABLCI	BLOCKS=(,init) keyword
40	(28)	SIGNED	4	DSWASTRT	START= keyword
DSPSERV ERROR/WARNING EQUATE VALUES.					
40	(28)	X'8'	0	DSWANOES	"8" NO ESTAE COULD BE ESTABLISHED
40	(28)	X'C'	0	DSWAEEST	"12" ESTAE ENTERED, NO DS CREATED
40	(28)	X'10'	0	DSWACERR	"16" CATASTROPHIC RECURSION ERROR
40	(28)	X'28'	0	DSWANCSA	"40" Unable to obtain ECSA storage for the DSB

Table 141. Structure DSWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
40	(28)	X'2C'	0	DSWANOST	"44" Unable to obtain working storage (in private)
40	(28)	X'30'	0	DSWAINVF	"48" ISSUED WITH INVALID FUNCTION
40	(28)	X'34'	0	DSWAIBLK	"52" CREATE FUNCTION, INVALID BLOCKS
40	(28)	X'38'	0	DSWASRBF	"56" Error in SRB processing
40	(28)	X'3C'	0	DSWATTKF	"60" MVS TCBTOKEN failure
40	(28)	X'40'	0	DSWADSPF	"64" MVS DSPSERV FAILURE
40	(28)	X'44'	0	DSWAALEF	"68" MVS ALESERV FAILURE
40	(28)	X'4C'	0	DSWAIVER	"76" INVALID \$DSWA VERSION NUMBER
40	(28)	X'C8'	0	DSWANGEN	"200" DATA SPACE NAME GENERATED
END OF \$DSWA DATA AREA.					
44	(2C)	BITSTRING	1	DSWAEND(0)	
44	(2C)	X'2C'	0	DSWASIZE	"DSWAEND-DSWA" SIZE OF \$DSWA DATA AREA

Table 142. Cross Reference for \$DSWA

Name	Offset	Hex Tag
DSWA	0	
DSWAALEF	28	44
DSWABLCI	24	
DSWABLCM	20	
DSWACALL	18	
DSWACERR	28	10
DSWADSB	C	
DSWADSPF	28	40
DSWAEEST	28	C
DSWAEND	2C	
DSWAIBLK	28	34
DSWAID	0	
DSWAIFL1	5	
DSWAIFL2	6	
DSWAIFL3	7	
DSWAINVF	28	30
DSWAIVER	28	4C
DSWAI1CR	5	80
DSWAI1DE	5	10
DSWAI1EX	5	40
DSWAI1RL	5	20
DSWAI2FN	6	40
DSWAI2FY	6	80
DSWAI20A	6	8

Table 142. Cross Reference for \$DSWA (continued)

Name	Offset	Hex Tag
DSWAI20C	6	10
DSWAI20M	6	20
DSWAI2SA	6	2
DSWAI2SC	6	1
DSWAI2SL	6	4
DSWAI3PD	7	80
DSWAKEY	B	
DSWALEVL	4	3
DSWANAME	10	
DSWANCSA	28	28
DSWANGEN	28	C8
DSWANOES	28	8
DSWANOST	28	2C
DSWARSD1	8	
DSWASIZE	2C	2C
DSWASRBF	28	38
DSWASTRT	28	
DSWATTKF	28	3C
DSWAVERS	4	

\$DTE information

\$DTE programming interface information

\$DTE is a programming interface.

\$DTE heading information

Common name: HASP Daughter Task Element

Macro ID: \$DTE

DSECT name: DTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual storage below the 16M line, and real storage above or below the 16M line, in the private storage of the JES2 address space.

Size:	<p>The length of a DTE is the length of the base DTE (defined by the expression, DTEWORK-DTE) plus the length of a variable length work area beginning at symbol DTEWORK.</p> <p>The length of the work area depends on the type of DTE. These work areas and their lengths are defined in separate mapping macros and are extensions of the DTE DSECT. See the definitions for DTESTID in this macro (\$DTE) for the names of the work area mapping macros.</p> <p>The total length of the DTE is stored in the field DTESIZE.</p>
Created by:	The \$DTEDYN service. Most DTEs are created during JES2 initialization processing, others are created when needed.
Pointed to by:	<p>The TCBBDT field of the MVS TCB control block for the associated JES2 address space subtask.</p> <p>The DTENEXT and DTEPREV pointers in the DTEs' double-threaded chain anchored by the \$DTEORG and \$DTELAST fields in the \$HCT control block.</p> <p>Each DTE type has associated with it a pointer in the HCT or UCT which points to the first DTE of that type in the DTENEXT chain.</p>
Serialization:	Compare-and-swap logic may be required for certain fields if they are used by both the JES2 main task and the subtask represented by the DTE.
Function:	<p>The DTE is the central means of communication between JES2 main task and its subtasks. All JES2 subtasks are attached by the \$DTEDYN service. When a subtask is attached, a DTE is built for it and placed on the DTENEXT and DTEPREV chains (chain heads \$DTEORG and \$DTELAST respectively). The DTE remains on these chains until the subtask is detached via the \$DTEDYN routine. The DTEs are grouped by type (id) on the DTENEXT/DTEPREV chains. DTEs are always pushed onto the chain at the beginning (head) of their subtask type group within the chain. The HASP subtask type chain heads are located in the HCT. An installation may define their own subtask types and place the chain head either in the UCT or HCT. The DTE may contain a work area extension for certain subtask types. This extension begins at the DTEWORK field and is mapped by a mapping macro of the type \$DTExxxx.</p>

\$DTE mapping

Table 143. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	DAUGHTER TASK ELEMENT DSECT
0	(0)	CHARACTER	4	DTEID(0)	DTE CONTROL BLOCK IDENTIFIER
0	(0)	BITSTRING	1	(0)	\$SAVE AREA (SEE PSV IN PCE)
176	(B0)	ADDRESS	4	DTELPV	ADDR OF LAST/CURRENT SAVE AREA
180	(B4)	ADDRESS	1	DTELEVEL	DTE CONTROL BLOCK VERSION LEVEL

Table 143. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
181	(B5)	BITSTRING	1	DTESTID	SUBTASK IDENTIFIER
182	(B6)	SIGNED	2	DTESIZE	SIZE OF DTE + WORK AREA EXT.
184	(B8)	BITSTRING	1	DTEFLAG1	DTE FLAG BYTE 1
		1...		DTE1ACTV	"B'10000000'" SUBTASK ACTIVE
		.1..		DTE1TERM	"B'01000000'" SUBTASK SHUTDOWN REQUESTED
		..1.		DTE1AUTO	"B'00100000'" AUTOMATICALLY STARTED BY IRMVS
		...1		DTE1STAE	"B'00010000'" SUBTASK DETACHED WITH STAE=YES
		.... 1...		DTE1SUB0	"B'00001000'" SUBTASK ATTACHED WITH SZERO=NO
		.... .1..		DTE1ECB	"B'00000100'" JES2 WAITING FOR SUBTASK POST
		.... ..1.		DTE1XECB	"B'00000010'" PCE \$WAITING FOR SUBTASK POST
		.... ...1		DTE1PJ2	"B'00000001'" JES2 IS COMING DOWN CLEAN (\$HCCT WILL BE FREEMAINED)
185	(B9)	BITSTRING	1	DTEFLAG2	DTE FLAG BYTE 2
		1...		DTE2IERR	"B'10000000'" SUBTASK INITIALIZATION FAILED
		.1..		DTE2TRAC	"B'01000000'" TASK ELIGIBLE FOR TRACING
		..1.		DTE2CRTM	"B'00100000'" Subtask being cancelled by maintask via CALLRTM
		...1		DTE2\$CD	"B'00010000'" Subtask cancelled with dump
		.... 1...		DTE2HXIT	"B'00001000'" TERM shutting down subtask
186	(BA)	BITSTRING	1	DTEFLAG3	DTE initialization opt flag
		1...		DTE3REQD	"B'10000000'" This subtask is essential, abnormal term will also terminate maintask (\$Z03)
		.1..		DTE3RTYP	"B'01000000'" Terminate main task (\$Z03) on abnormal term of last or only DTE of type
187	(BB)	BITSTRING	1	DTEERRCT	Subtask ABEND error count
188	(BC)	ADDRESS	4	DTENEXT	FORWARD CHAIN FIELD (\$DTEORG)
192	(C0)	ADDRESS	4	DTEPREV	BACKWARD CHAIN FIELD (\$DTELAST)
196	(C4)	ADDRESS	4	DTETCB	SUBTASK TCB ADDRESS
200	(C8)	BITSTRING	16	DTETOKN	Subtask TCB token
216	(D8)	ADDRESS	4	DTEPCE	RELATED PCE ADDRESS OR ZERO, SET TO CURRENT PCE BY DTEDYN UNLESS INIT., MAY BE RESET
220	(DC)	ADDRESS	4	DTEHCT	ADDRESS OF HCT
SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECB'S CAN BE USED DURING NORMAL JES2 PROCESSING ALSO.					
224	(E0)	SIGNED	4	DTEIECB	SUBTASK INITIALIZATION ECB
224	(E0)	BITSTRING	24	DTEIXECB	SUBTASK INITIALIZATION XECB
SUBTASK WORK ECB'S MUST BE KEPT TOGETHER					
248	(F8)	SIGNED	4	DTEWECB	SUBTASK WORK ECB

Table 143. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
248	(F8)	BITSTRING	24	DTEWXECB	SUBTASK WORK XECB
SUBTASK TERMINATION ECB'S MUST BE KEPT TOGETHER					
272	(110)	SIGNED	4	DTETECB	SUBTASK TERMINATION ECB
272	(110)	BITSTRING	24	DTETXECB	SUBTASK TERMINATION XECB
SUBTASK TERMINATION ECB LIST, MUST BE KEPT TOGETHER					
296	(128)	ADDRESS	4	DTEECBL1	JES2 TERMINATION ECB LIST
300	(12C)	ADDRESS	4	DTEECBL2	AND STIMER EXIT ROUTINE ECB
304	(130)	SIGNED	4	DTEJECB	(ALL USED ONLY IN HASPTERM)
END OF ECB AREAS THAT MUST BE KEPT TOGETHER					
308	(134)	CHARACTER	8	DTENAME	SUBTASK EBCDIC NAME
316	(13C)	ADDRESS	4	DTEVRXAD	SUBTASK RECOVERY VRA EXIT ADDR
320	(140)	ADDRESS	4	DTEESXAD	SUBTASK RCVY CLEAN UP EXIT ADDR
324	(144)	ADDRESS	4	DTERTXAD	SUBTASK RCVY RETRY EXIT ADDR
SUBTASK ESTAE RECOVERY WORK AREA.					
328	(148)	BITSTRING	1	DTEABFLG	SUBTASK RECOVERY ESTAE FLAG
		1... ..		DTEABEND	"B'10000000'" SUBTASK ABEND IN PROGRESS
		.1.. ..		DTEABVRA	"B'01000000'" SUBTASK VRA EXIT ACTIVE
		..1.		DTEABESX	"B'00100000'" SUBTASK CLEAN UP EXIT ACTIVE
		...1		DTEABSTR	"B'00010000'" SUBTASK RETRY EXIT ACTIVE
		.... 1...		DTEABREC	"B'00001000'" SUBTASK RETRY RECURSION FLAG
		.... .1..		DTEABTRM	"B'00000100'" Subtask being terminated
329	(149)	BITSTRING	3		RESERVED FOR FUTURE USE
332	(14C)	BITSTRING	508	DTEERA	SUBTASK ERA
840	(348)	BITSTRING	600	DTETRCA	SUBTASK TRCA
1440	(5A0)	SIGNED	4	DTESECEB	SUBTASK ESTAE SDUMP ECB
Subtask Work area					
1448	(5A8)	DBL WORD	8	(0)	
1448	(5A8)	CHARACTER	108	DTEAWRKA	SUBTASK ESTAE WORK AREA
1448	(5A8)	X'4CC'	0	DTEASAVL	"*-DTEABFLG" LENGTH OF RECOVERY WORK AREA
GENERAL PARAMETER LIST AREA AND RESERVED USER FIELDS					
1556	(614)	ADDRESS	4	DTEJQE	Related JQE address
1560	(618)	SIGNED	2	DTEASID	Associated address space
1562	(61A)	SIGNED	2		Reserved for future use
1564	(61C)	SIGNED	4	DTEPARML(2)	8 BYTE PARAMETER LIST
1564	(61C)	X'61C'	0	DTEPARM	"DTEPARML,4,C'A'" parm list @ from attach or

Table 143. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1564	(61C)	X'620'	0	DTEPARM2	"DTEPARML+4,4,C'A'" 2 work parm for subtsk use
1572	(624)	SIGNED	4	DTEUSER1	RESERVED FOR USER
1576	(628)	SIGNED	4	DTEUSER2	RESERVED FOR USER
1580	(62C)	SIGNED	4	DTEUSER3	RESERVED FOR USER
1584	(630)	SIGNED	4	DTEUSER4	RESERVED FOR USER
1588	(634)	SIGNED	4	DTEERRTM	Time of last error
1592	(638)	DBL WORD	8	DTEWORK(0)	VARIABLE LEN SUBTASK WORK AREA
1592	(638)	X'4'	0	DTEVERSN	"4" DTE Version level
1592	(638)	X'638'	0	DTELEN	"*-DTE" LENGTH OF DTE DSECT FOUNDATION
DTESTID -- SUBTASK IDENTIFIER EQUATES (USER SUBTASK IDS SHOULD BEGIN AT 255 AND WORK DOWN TOWARDS THE JES2 SUBTASK IDS)					
1592	(638)	X'0'	0	DTEIDIMG	"0" HASPIMAG SUBTASK ID; work area mapped by \$DTEIMAG
1592	(638)	X'1'	0	DTEIDALC	"1" HOSALLOC SUBTASK ID; work area mapped by \$DTEALOC
1592	(638)	X'2'	0	DTEIDSPL	"2" HOSPOOL SUBTASK ID; work area mapped by \$DTE SPL
1592	(638)	X'3'	0	DTEIDSMF	"3" HASPACCT SUBTASK ID; work area mapped by \$DTEACCT
1592	(638)	X'4'	0	DTEIDVTM	"4" HASPVTAM SUBTASK ID; work area mapped by \$DTEVTAM
1592	(638)	X'5'	0	DTEIDWTO	"5" HASPWTO SUBTASK ID; work area mapped by \$DTEWTO
1592	(638)	X'6'	0	DTEIDCNV	"6" HOSCNCVT SUBTASK ID; work area mapped by \$DTECNV
1592	(638)	X'7'	0	DTEIDOFF	"7" HASPOFF SUBTASK ID; work area mapped by \$DTEOFF
1592	(638)	X'8'	0	DTEIDCVR	"8" HASPCKVR SUBTASK ID; work area mapped by \$DTECKVR
1592	(638)	X'9'	0	DTEIDSUB	"9" HASPSUBS SUBTASK ID; work area mapped by \$DTE SUBS
1592	(638)	X'A'	0	DTEIDCCF	"10" HASPCKCF SUBTASK ID; work area mapped by \$DTECKCF
1592	(638)	X'B'	0	DTEIDEOM	"11" HASPEOM SUBTASK ID; work area mapped by \$DTEEOM
1592	(638)	X'C'	0	DTEIDMIG	"12" HASPSPOL migrator subtask ID; work area mapped by \$DTE MIGR
1592	(638)	X'D'	0	DTEIDASS	"13" HASPSPOL migrator assist subtask ID; work area mapped by \$DTEASST
1592	(638)	X'E'	0	DTEIDCDA	"14" HASPCKDA SUBTASK ID; work area mapped by \$DTECKDA
1592	(638)	X'F'	0	DTEIDLIM	"15" HASPLIM SUBTASK ID; work area mapped by \$DTE LIM

Table 144. Cross Reference for \$DTE

Name	Offset	Hex Tag
DTE	0	
DTEABEND	148	80
DTEABESX	148	20

Table 144. Cross Reference for \$DTE (continued)

Name	Offset	Hex Tag
DTEABFLG	148	
DTEABREC	148	8
DTEABSTR	148	10
DTEABTRM	148	4
DTEABVRA	148	40
DTEASAVL	5A8	4CC
DTEASID	618	
DTEAWRKA	5A8	
DTEECBL1	128	
DTEECBL2	12C	
DTEERA	14C	
DTEERRCT	BB	
DTEERRTM	634	
DTEESXAD	140	
DTEFLAG1	B8	
DTEFLAG2	B9	
DTEFLAG3	BA	
DTEHCT	DC	
DTEID	0	
DTEIDALC	638	1
DTEIDASS	638	D
DTEIDCCF	638	A
DTEIDCDA	638	E
DTEIDCNV	638	6
DTEIDCVR	638	8
DTEIDEOM	638	B
DTEIDIMG	638	0
DTEIDLIM	638	F
DTEIDMIG	638	C
DTEIDOFF	638	7
DTEIDSMF	638	3
DTEIDSPL	638	2
DTEIDSUB	638	9
DTEIDVTM	638	4
DTEIDWTO	638	5
DTEIECB	E0	
DTEIXECB	E0	
DTEJECB	130	
DTEJQE	614	

Table 144. Cross Reference for \$DTE (continued)

Name	Offset	Hex Tag
DTELEN	638	638
DTELEVEL	B4	
DTELPSV	B0	
DTENAME	134	
DTENEXT	BC	
DTEPARM	61C	61C
DTEPARML	61C	
DTEPARM2	61C	620
DTEPCE	D8	
DTEPREV	C0	
DTERTXAD	144	
DTESDECB	5A0	
DTESIZE	B6	
DTESTID	B5	
DTETCB	C4	
DTETECB	110	
DTETRCA	348	
DTETTOKN	C8	
DTETXECB	110	
DTEUSER1	624	
DTEUSER2	628	
DTEUSER3	62C	
DTEUSER4	630	
DTEVERSN	638	4
DTEVRXAD	13C	
DTEWECB	F8	
DTEWORK	638	
DTEWXECB	F8	
DTE1ACTV	B8	80
DTE1AUTO	B8	20
DTE1ECB	B8	4
DTE1PJ2	B8	1
DTE1STAE	B8	10
DTE1SUB0	B8	8
DTE1TERM	B8	40
DTE1XECB	B8	2
DTE2\$CD	B9	10
DTE2CRTM	B9	20
DTE2HXIT	B9	8

Table 144. Cross Reference for \$DTE (continued)

Name	Offset	Hex Tag
DTE2IERR	B9	80
DTE2TRAC	B9	40
DTE3REQD	BA	80
DTE3RTYP	BA	40

\$DTEACCT information

\$DTEACCT programming interface information

\$DTEACCT is a programming interface.

\$DTEACCT heading information

Common name:	HASPACCT subtask DTE work area extension
Macro ID:	\$DTEACCT
DSECT name:	DTE (\$DTEACCT is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DSMFLEN equate for the length of the HASPACCT DTE extension.
Created by:	JES2 initialization (using \$DTEDYN ATTACH service)
Pointed to by:	The \$DTESMF field of the \$HCT data area. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used by the HASPACCT subtask. Other tasks cannot use it.
Function:	Describes the work area extension to the DTE for the HASPACCT subtask. The DTE is the general control block used by JES2 to communicate with its daughter tasks. The JMR buffer work area is used to pass the JES2 JMR record to SMFEXIT IEFUJP and the SMFEWTM service. The work area resides below the 16M line, while the JES2 SMF buffer may reside anywhere.

\$DTEACCT mapping

Table 145. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPACCT DTE WORK AREA EXTENSION
1592	(638)	BITSTRING	1440	DSMFJMR	JMR BUFFER WORK AREA
3032	(BD8)	SIGNED	4	DSMFWRK(5)	5 WORD WORKAREA FOR SMFEWMTM
3052	(BEC)	BITSTRING	4		Reserved for future use
---BLDM \$BLDMSG MF=L Storage for BLDMSG					
3056	(BF0)	SIGNED	4	DSMFBLD(0)	Control block ID
3060	(BF4)	BITSTRING	4		Console ID
3064	(BF8)	ADDRESS	4		Address of the CART
3068	(BFC)	ADDRESS	4		Pointer for JOBID
3072	(C00)	ADDRESS	4		Control block address
3076	(C04)	ADDRESS	4		Display routine address
3080	(C08)	ADDRESS	4	(6)	6 word work area
3104	(C20)	ADDRESS	4		Caller's R11 value
3108	(C24)	BITSTRING	2		ROUT code for Message
3110	(C26)	BITSTRING	2		Not used
3112	(C28)	CHARACTER	4		Message ID
3116	(C2C)	CHARACTER	1		Separator character
3117	(C2D)	ADDRESS	1		Flag byte 1
3118	(C2E)	ADDRESS	1		'DISPER'
3119	(C2F)	ADDRESS	1		Flag byte 2
3120	(C30)	ADDRESS	1		Flag byte 3
3121	(C31)	ADDRESS	1		Severity of message
3122	(C32)	CHARACTER	8		Symbolic name of dest.
3130	(C3A)	BITSTRING	14		Not used
3144	(C48)	ADDRESS	4	(0)	Ensure multiple of 4
3144	(C48)	ADDRESS	2	(0)	
0	(0)	X'610'	0	DSMFLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 146. Cross Reference for \$DTEACCT

Name	Offset	Hex Tag
DSMFBLD	BF0	C2D3C440
DSMFJMR	638	
DSMFLEN	0	610
DSMFWRK	BD8	
DTE	0	

\$DTEALOC information

\$DTEALOC heading information

Common name: HASP Allocation Subtask DTE work area DSECT

Macro ID: \$DTEALOC

DSECT name:	DTE (\$DTEALOC is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DDALLEN equate for the length of an allocation subtask DTE extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTEALOC field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the HASP allocation subtask DTE. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP Dynamic Allocation Subtask DTE work area, \$DTEALOC, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. The Dynamic Allocation Subtask DTE handles dynamic allocation (DYNALLOC) requests from the JES2 main task. The \$ALLOC service, running under the JES2 main task, fills in the DYNALLOC parameter list, then waits for the subtask to become available. When it does, the main task stores the address of the parameter list in the field DTEPARM. The subtask is then awakened and it does the DYNALLOC.

\$DTEALOC mapping

Table 147. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HOSALLOC DTE WORK AREA EXT.
1592	(638)	X'0'	0	DDALLEN	"*-DTEWORK" LENGTH OF WORK AREA

\$DTEASST information

\$DTEASST heading information

Common name:	HASP Spool Migrator Assist Work Area
Macro ID:	\$DTEASST

DSECT name: DTE (\$DTEASST is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: See \$DTE
Key: See \$DTE
Residency: See \$DTE

Size: See the DTELEN equate for the length of the base DTE, and ASTLLEN for the length of a Migrator Assist Allocation DTE extension.

Created by: Created by \$DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.

Pointed to by: The \$DTEASST field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the first HOSASST DTE. See \$DTE for other pointer fields that apply to all DTE types.

Serialization: This work area is used serially by the HOSASST subtask. No special serialization is necessary.

Function: The Spool Assist DTE work area DSECT, \$DTEASST, defines a work area used by the JES2 Migrator Assist subtask (HOSASST). The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDAST in the field DTESTID, indicating this DTE is a Migrator Assist spool DTE.

\$DTEASST mapping

Table 148. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migration assistant Work area
1592	(638)	CHARACTER	1	ASTSTART(0)	Start of Assist mapping
1592	(638)	ADDRESS	4	ASTSTSPL	Address of ECB for subtask to post - informs SPOL PCE request is complete
Migration request flag - only set by SPOL and INIT PCEs. The SPOL PCE waits for ACK of request as does the INIT PCE with one exception below -- ASTRCVMG.					
1596	(63C)	BITSTRING	1	AST1REQU	SPOL PCE and INIT PCE request flags
		.... ....		AST1NORE	"X'00'" No active request
		.... .1..		ASTCREA	"X'04'" Create migration table and MIGR\$ASST mailbox
		.... 1...		ASTINIT	"X'08'" Given source DAS - init the corresponding migration table entry. Entry found via DASEXTNO. See ASTSRDAS below.

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 11..		ASTDLENT	"X'0C'" Given DAS -- delete migr table entry. Delete track level bitmap. See ASTSRDAS below.
		...1		ASTDLALL	"X'10'" Delete all migration table entries and associated track level bitmaps.
		...1 .1..		ASTRCVMG	"X'14'" Assistant subtask has permission to receive and process incoming messages.
<p>The following information must be supplied by SPOL post for specific requests:</p> <p>AST1REQU = ASTCREA (Create migration table and MIGR\$ASST mailbox.</p> <p>-- ASTCRECV - Create called under direction of migration assistant recovery.</p> <p>AST1REQU = ASTINENT (Init migration table entry)</p> <p>-- ASTALLOC - Indication if MAS member is allocated to SRC dataset.</p> <p>-- ASTRECOV - Init has been directed to perform migration assistant recovery. MIGR\$ASST will be created but not cleared. If not ASTRECOV -- MIGR\$ASST is cleared upon creation to clean up any stale messages.</p> <p>-- ASTVOLID - Volume ID</p> <p>-- ASTSRDAS - Source DAS</p> <p>-- ASTTRACS - Track bitmap must support this many tracks.</p> <p>-- ASTENQTK - ISGENQ token</p> <p>-- ASTUCBPT - UCB pointer for volume</p> <p>AST1REQU = ASTDLENT (Delete migr table entry)</p> <p>-- ASTSRDAS - source DAS</p> <p>Creation information</p>					
1597	(63D)	BITSTRING	1	ASTCRTIN	General creation info
		1...		ASCRRECVC	"B'100000000'" Creation called under recovery - do not clear MIGR\$ASST
Initialization and general information					
1598	(63E)	BITSTRING	1	ASTSRCST	General init info
		1...		ASTALLOC	"B'100000000'" Member has dataset allocated.
		.1..		ASTRCMSG	"B'010000000'" Assistant subtask has permission to receive incoming messages
1600	(640)	ADDRESS	4	ASTRECOB	Recovery object address
1604	(644)	BITSTRING	32	ASTENQTK	ISGENQ token
1636	(664)	CHARACTER	6	ASTVOLID	Volume ID
1644	(66C)	SIGNED	4	(0)	Alignment
1644	(66C)	ADDRESS	4	ASTUCBPT	UCB address
1648	(670)	ADDRESS	4	ASTSRDAS	Source DAS address
1652	(674)	SIGNED	4	ASTTRACS	Number of tracks for which track level bitmap must support.
1656	(678)	SIGNED	4	ASTTGBYT	Number of TGM bytes in source at migration start
1660	(67C)	BITSTRING	1	ASTSREXT	Source DAS extent number
<p>Following two fields only set when init with -- assistant recovery -- ASTRECOV above.</p>					
1664	(680)	SIGNED	4	ASMTGSTT	CSA.DASTARTS value
1668	(684)	SIGNED	4	ASMSBTAS	Relative TTTT where TLBM starts on target DS

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Error flag corresponding to SPOL PCE request.					
1672	(688)	BITSTRING	1	AS1ERFL1	Subtask error flag 1 - set by subtask for SPOL PCE information/action.
		1...		AS1ERABN	"B'10000000'" Sub-task ABENDED
		.1..		AS1MAILE	"B'01000000'" MIGR\$ASST mailbox could not be created.
		..1.		AS1TBERR	"B'00100000'" Migration table could not be created.
		...1		AS1BMERR	"B'00010000'" Given a migration - track level bitmap could not be created.
		.... 1...		ASATTACH	"B'00001000'" JESXCF group attach failed
HOSPASST subtask waits on a ECBLIST. During a migration, this subtask exists on every member in MAS. There is one and only one spool assistant subtask per member. This subtask can handle multiple migrations. The ECBlst is as follows:					
1676	(68C)	SIGNED	4	ASECBLST(0)	List of ECBs to wait on
1676	(68C)	ADDRESS	4	ASWORKP	Address of work ECB for assistant subtask. Handles posts from SPOL PCE.
1680	(690)	ADDRESS	4	ASTMBOXP	Address of ECB for JESXCF mail box notification. This ECB receives requests from migration subtask(s). Mailbox name - migr\$asst
1684	(694)	SIGNED	4	ASTMBOX	Mail box ECB
1688	(698)	DBL WORD	8	ASTWRKA	Work area for migrator
Migration assistant mailbox information -- One MIGR\$ASST per MAS member.					
1696	(6A0)	ADDRESS	4	ASMXBUFA	Address of message received
1700	(6A4)	SIGNED	4	ASMXBUFL	Message length
1704	(6A8)	ADDRESS	4	ASMSENDA	Address of send buffer
START OF ASMMIGIO Copy of runtime I/O directives. ASMMIGIO must match DASMIGIO in CSA DAS. The following is used to atomically update DASMIGIO during migration phase transitions. WARNING!!! DASMIGIO and ASMMIGIO definitions MUST stay in sync.					
1708	(6AC)	SIGNED	4	ASMMIGIO(0)	Runtime I/O directives. Area size is denoted by by ASMMIGSZ. This is used to atomically update DASMIGIO during migration phase.
1708	(6AC)	BITSTRING	1	ASMFLAG9	Flag 9
		1...		ASM9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13LMIG permission request" to @Z13LMIG migrator mailbox RN\$<VOLSER>. VOLSER is source DAS - DASVOLID.
		.1..		ASM9MAPD	"B'01000000'" Source DAS is mapped to target and DASMPVAL must used to calculate corresponding track in target.

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1709	(6AD)	ADDRESS	1	ASMMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be e-done. Always captured.
1710	(6AE)	BITSTRING	2	ASMMIGR	Reserved
1710	(6AE)	X'4'	0	ASMMIGSZ	"*-ASMMIGIO" Length of area which must be atomically updated.
END OF ASMMIGIO Too make message processing easier - certain data is extracted from messages and put into work variables.					
1712	(6B0)	ADDRESS	4	ASMXREQA	Address of XREQ received
1716	(6B4)	CHARACTER	16	ASMMKBOX	Mailbox name
1732	(6C4)	CHARACTER	16	ASMMEMNM	JESXCF member name
1748	(6D4)	BITSTRING	8	ASMXTKN	Current XCF message token
1756	(6DC)	CHARACTER	6	ASMVOLID	VOLSER extracted from MSG received
1762	(6E2)	BITSTRING	1	ASMEXTNO	DASEXTNO extracted from MSG received
1763	(6E3)	ADDRESS	1	ASMINFO	XREQINFO extracted from MSG
End of work variables					
1764	(6E4)	BITSTRING	1	ASMAILST	Mailbox status
		1...		ASAS_CRT	"B'10000000'" MIGR\$ASST has been created
1765	(6E5)	CHARACTER	16	ASMIGRAS	
Migration assistant - spool migration table info: -- One per migration assistant.					
1784	(6F8)	ADDRESS	4	ASTTABLE	Address of spool migration table. 253 entries in table. Each table entry may represent a source migrating volume. From a DAS - addressable by DASEXTNO. See \$ASSTTAB for table contents.
1788	(6FC)	SIGNED	4	(10)	Reserved for future use
List form macros for JESXCF services					
1832	(728)	DBL WORD	8	(0)	Alignment
1832	(728)	BITSTRING	160	ASTIXLST	JESXCF list form macros
1992	(7C8)	DBL WORD	8	ASTIXEND(0)	End of list form area
----- IXZXIXAC MF=(L,ASTXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'728'	0	M00M1289	"ASTXIXAC" ++ IXZXIXAC NAME
1832	(728)	DBL WORD	8	ASTXIXAC(0)	++ IXZXIXAC PARM LIST
1832	(728)	BITSTRING	1	ASTXIXAC_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	BITSTRING	1	ASTXIXAC_XSTB	++ INPUT
		1...		ASTXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		ASTXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1840	(730)	BITSTRING	8	ASTXIXAC_XMSGTOKEN	++ XMSGTOKEN

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1848	(738)	ADDRESS	4	ASTXIXAC_XDATA	++ XDATA
1852	(73C)	SIGNED	4	ASTXIXAC_XDATALEN	++ XDATALEN
1856	(740)	SIGNED	4	ASTXIXAC_XUSERRC	++ XUSERRC
1860	(744)	SIGNED	4	ASTXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
1864	(748)	SIGNED	4	ASTXIXAC_XSYSRC	++ XSYSRC
1868	(74C)	SIGNED	4	ASTXIXAC_XSYSRSN	++ XSYSRSN
1872	(750)	BITSTRING	1	ASTXIXAC_XKEYS	++ FIELD_LABEL
		1... ..		ASTXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1.. ..		ASTXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ASTXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ASTXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ASTXIXAC_KEYUSED_SYRSN	"B'00001000'" ++ KEYUSED.SYRSN KEYWORD
1873	(751)	BITSTRING	1	ASTXIXAC_XMSGATTR	++ INPUT
		1... ..		ASTXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ..		ASTXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1873	(751)	X'2A'	0	ASTXIXACL	"*-ASTXIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
1874	(752)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMC MF=(L,ASTXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
1832	(728)	SIGNED	2	M00M1291(0)	IXZXIXMC-1
1832	(728)	DBL WORD	8	ASTXIXMC(0)	++ IXZXIXMC PARM LIST
1832	(728)	BITSTRING	1	ASTXIXMC_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	BITSTRING	1	ASTXIXMC_XSTB	++ INPUT
		1... ..		ASTXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1.. ..		ASTXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1840	(730)	CHARACTER	16	ASTXIXMC_XMBOXNAME	++ XMBOXNAME
1856	(740)	SIGNED	4	ASTXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
1856	(740)	X'1C'	0	ASTXIXMCL	"*-ASTXIXMC" ++ LENGTH OF PLIST
IXZXIXMC-1					
1860	(744)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXAT MF=(L,ASTXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'728'	0	M00M1292	"ASTXIXAT" ++ IXZXIXAT NAME
1832	(728)	DBL WORD	8	ASTXIXAT(0)	++ IXZXIXAT PARM LIST
1832	(728)	BITSTRING	1	ASTXIXAT_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXAT_XEYECATCH	++ CONSTANT

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1839	(72F)	CHARACTER	1	ASTXIXAT_XRSV0001	++ RESERVED
1840	(730)	CHARACTER	8	ASTXIXAT_XGROUP	++
1848	(738)	CHARACTER	16	ASTXIXAT_XMEMBER	++
1864	(748)	CHARACTER	8	ASTXIXAT_XRELEASE	++
1872	(750)	SIGNED	4	ASTXIXAT_XMAINTLVL	++ CONSTANT
1876	(754)	SIGNED	4	ASTXIXAT_XGROUPTOKEN	++
1880	(758)	BITSTRING	1	ASTXIXAT_XFLAG1	++ FIELD_LABEL
		1...		ASTXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		ASTXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		ASTXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		ASTXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		ASTXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		ASTXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		ASTXIXAT_XWHICHJES_J2SP00L	"B'00000010'" ++ XWHICHJES.J2SP00L KEYWORD
1881	(759)	BITSTRING	1	ASTXIXAT_XFLAG2	++ FIELD_LABEL
		1...		ASTXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		ASTXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
1882	(75A)	CHARACTER	2	ASTXIXAT_XRSV0002	++ RESERVED
1884	(75C)	SIGNED	4	ASTXIXAT_XDIAG	++
1888	(760)	CHARACTER	8	ASTXIXAT_XLINKPARMS	++ FIELD_LABEL
1888	(760)	X'40'	0	ASTXIXATL	"*-ASTXIXAT" ++ LENGTH OF PLIST
IXZXIXAT-6					
1896	(768)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMB MF=(L,ASTXIXMB) Create mailbox MACDATE -93/05/10-<1>					
1832	(728)	SIGNED	2	M00M1293(0)	IXZXIXMB-1
1832	(728)	DBL WORD	8	ASTXIXMB(0)	++ IXZXIXMB PARM LIST
1832	(728)	BITSTRING	1	ASTXIXMB_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	CHARACTER	1	ASTXIXMB_XRSV0001	++ RESERVED XRSV0001
1840	(730)	CHARACTER	16	ASTXIXMB_XMBOXNAME	++ XMBOXNAME
1856	(740)	ADDRESS	4	ASTXIXMB_XPOSTXIT	++ XPOSTXIT
1860	(744)	ADDRESS	4	ASTXIXMB_XPOSTDATA	++ XPOSTDATA
1864	(748)	SIGNED	4	ASTXIXMB_XPOSTALET	++ XPOSTALET
1868	(74C)	SIGNED	4	ASTXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
1872	(750)	BITSTRING	1	ASTXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ASTXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ASTXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1872	(750)	X'29'	0	ASTXIXMBL	"*-ASTXIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
1874	(752)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMD MF=(L,ASTXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
1832	(728)	SIGNED	2	M00M1294(0)	IXZXIXMD-1
1832	(728)	DBL WORD	8	ASTXIXMD(0)	++ IXZXIXMD PARM LIST
1832	(728)	BITSTRING	1	ASTXIXMD_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	BITSTRING	1	ASTXIXMD_XSTB	++ INPUT
		1...		ASTXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		ASTXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1840	(730)	CHARACTER	16	ASTXIXMD_XMBOXNAME	++ XMBOXNAME
1856	(740)	SIGNED	4	ASTXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
1856	(740)	X'1C'	0	ASTXIXMDL	"*-ASTXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
1860	(744)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXDT MF=(L,ASTXIXDT) Detach group MACDATE -00/02/02-<1>					
0	(0)	X'728'	0	M00M1295	"ASTXIXDT" ++ IXZXIXDT NAME
1832	(728)	DBL WORD	8	ASTXIXDT(0)	++ IXZXIXDT PARM LIST
1832	(728)	BITSTRING	1	ASTXIXDT_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	CHARACTER	1	ASTXIXDT_XRSV0001	++ RESERVED XRSV0001
1840	(730)	ADDRESS	4	ASTXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
1844	(734)	CHARACTER	8	ASTXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
1844	(734)	X'14'	0	ASTXIXDTL	"*-ASTXIXDT" ++ LENGTH OF PLIST
IXZXIXDT-1					
1852	(73C)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXSM MF=(L,ASTXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'728'	0	M00M1296	"ASTXIXSM" ++ IXZXIXSM NAME
1832	(728)	DBL WORD	8	ASTXIXSM(0)	++ IXZXIXSM PARM LIST
1832	(728)	BITSTRING	1	ASTXIXSM_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
1839	(72F)	BITSTRING	1	ASTXIXSM_XMSGATTR	++ INPUT
		1...		ASTXIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1...		ASTXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1840	(730)	CHARACTER	16	ASTXIXSM_XMBOXNAME	++ XMBOXNAME
1856	(740)	CHARACTER	16	ASTXIXSM_XMEMBER	++ XMEMBER
1872	(750)	ADDRESS	4	ASTXIXSM_XDATA	++ XDATA
1876	(754)	SIGNED	4	ASTXIXSM_XDATALEN	++ XDATALEN
1880	(758)	BITSTRING	8	ASTXIXSM_XREQTOKEN	++ XREQTOKEN
1888	(760)	CHARACTER	16	ASTXIXSM_XREQMBOX	++ XREQMBOX
1904	(770)	SIGNED	4	ASTXIXSM_XDATAALET	++ XDATAALET
1908	(774)	SIGNED	4	ASTXIXSM_XRESPDALT	++ XRESPDALT
1912	(778)	SIGNED	4	ASTXIXSM_XECB	++ XECB
1916	(77C)	SIGNED	4	ASTXIXSM_XEXIT	++ XEXIT
1920	(780)	BITSTRING	8	ASTXIXSM_XCONNECT	++ XCONNECT
1928	(788)	SIGNED	4	ASTXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
1932	(78C)	SIGNED	4	ASTXIXSM_XUSERRC	++ XUSERRC
1936	(790)	SIGNED	4	ASTXIXSM_XRESPDATA	++ XRESPDATA
1940	(794)	SIGNED	4	ASTXIXSM_XRESPDLEN	++ XRESPDLEN
1944	(798)	CHARACTER	4	ASTXIXSM_XRSV00001	++ RESERVED XRSV00001
1948	(79C)	BITSTRING	8	ASTXIXSM_XMSGTOKEN	++ XMSGTOKEN
1956	(7A4)	SIGNED	4	ASTXIXSM_XRIPSIZE	++ XRIPSIZE
1960	(7A8)	BITSTRING	1	ASTXIXSM_XREQTYPE	++ INPUT
	1... ..			ASTXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
	.1.. ..			ASTXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
	..1.			ASTXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
	...1			ASTXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
1961	(7A9)	BITSTRING	1	ASTXIXSM_XSEGTYPE	++ INPUT
	1... ..			ASTXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
	.1.. ..			ASTXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
	..1.			ASTXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
	...1			ASTXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
	.... 1...			ASTXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
1962	(7AA)	BITSTRING	1	ASTXIXSM_XKEYS	++ FIELD_LABEL
	1... ..			ASTXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
	.1.. ..			ASTXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
	..1.			ASTXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
	...1			ASTXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
	.... 1...			ASTXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
	.... .1..			ASTXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD

Table 148. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		ASTXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		.... ...1		ASTXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
1963	(7AB)	BITSTRING	1	ASTXIXSM_XKEYS1	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		ASTXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		ASTXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		ASTXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
1963	(7AB)	X'84'	0	ASTXIXSML	"*-ASTXIXSM" ++ LENGTH OF PLIST
IXZXIXSM-2					
1964	(7AC)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXRM MF=(L,ASTXIXRM) Receive message MACDATE -93/05/10-<1>					
1832	(728)	SIGNED	2	M00M1297(0)	IXZXIXRM-1
1832	(728)	DBL WORD	8	ASTXIXRM(0)	++ IXZXIXRM PARM LIST
1832	(728)	BITSTRING	1	ASTXIXRM_XVERSION	++ INPUT XVERSION
1833	(729)	CHARACTER	6	ASTXIXRM_XYECATCH	++ CONSTANT XYECATCH
1839	(72F)	CHARACTER	1	ASTXIXRM_XRSV0001	++ RESERVED XRSV0001
1840	(730)	CHARACTER	16	ASTXIXRM_XMBOXNAME	++ XMBOXNAME
1856	(740)	ADDRESS	4	ASTXIXRM_XDATA	++ XDATA
1860	(744)	SIGNED	4	ASTXIXRM_XDATALEN	++ XDATALEN
1864	(748)	BITSTRING	8	ASTXIXRM_XMSGTOKEN	++ XMSGTOKEN
1872	(750)	SIGNED	4	ASTXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
1876	(754)	BITSTRING	1	ASTXIXRM_XMSGFETCH	++ INPUT
		1...		ASTXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ASTXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ASTXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ASTXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
1877	(755)	BITSTRING	1	ASTXIXRM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1877	(755)	X'2E'	0	ASTXIXRML	"*-ASTXIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
1878	(756)	ADDRESS	2	(0)	Ensure area fits
1992	(7C8)	X'638'	0	ASTCLEAR	"ASTSTART" Area to be zeroed
1992	(7C8)	X'190'	0	ASTLLEN	"*-DTEWORK" Length of work area

Table 149. Cross Reference for \$DTEASST

Name	Offset	Hex Tag
ASAS_CRT	6E4	80
ASATTACH	688	8
ASCRRECV	63D	80
ASECBLST	68C	
ASMAILST	6E4	
ASMEXTNO	6E2	
ASMFLAG9	6AC	
ASMIGRAS	6E5	E2E8E2D1
ASMINFO	6E3	
ASMMEMNM	6C4	
ASMMIGIO	6AC	
ASMMIGR	6AE	0
ASMMIGSZ	6AE	4
ASMMIGT	6AD	
ASMMKBOX	6B4	
ASMSBTAS	684	
ASMSENDA	6A8	
ASMTGSTT	680	
ASMVOLID	6DC	
ASMXBUFA	6A0	
ASMXBUFL	6A4	
ASMXREQA	6B0	
ASMXTOKN	6D4	
ASM9MAPD	6AC	40
ASM9NMIG	6AC	80
ASTALLOC	63E	80
ASTCLEAR	7C8	638
ASTCREA	63C	4
ASTCRTIN	63D	
ASTDLALL	63C	10
ASTDLENT	63C	C
ASTENQTK	644	
ASTINIT	63C	8
ASTIXEND	7C8	
ASTIXLST	728	
ASTLLEN	7C8	190
ASTMBOX	694	
ASTMBOXP	690	
ASTRCMSG	63E	40

Table 149. Cross Reference for \$DTEASST (continued)

Name	Offset	Hex Tag
ASTRCVMG	63C	14
ASTRECOB	640	
ASTSRCST	63E	
ASTSRDAS	670	
ASTSREXT	67C	
ASTSTART	638	
ASTSTSPL	638	
ASTTABLE	6F8	
ASTTGBYT	678	
ASTTRACS	674	
ASTUCBPT	66C	
ASTVOLID	664	40404040
ASTWRKA	698	0
ASTXIXAC	728	
ASTXIXAC_KEYUSED_DATA	750	80
ASTXIXAC_KEYUSED_DATALEN	750	40
ASTXIXAC_KEYUSED_SYSRC	750	10
ASTXIXAC_KEYUSED_SYSRSN	750	8
ASTXIXAC_KEYUSED_USERRC	750	20
ASTXIXAC_XDATA	738	
ASTXIXAC_XDATALEN	73C	
ASTXIXAC_XEYECATCH	729	
ASTXIXAC_XGROUPTOKEN	744	
ASTXIXAC_XKEYS	750	
ASTXIXAC_XMSGATTR	751	
ASTXIXAC_XMSGATTR_EXPRESS	751	40
ASTXIXAC_XMSGATTR_J3CONNECT	751	80
ASTXIXAC_XMSGTOKEN	730	
ASTXIXAC_XSTB	72F	
ASTXIXAC_XSTB_NO	72F	80
ASTXIXAC_XSTB_YES	72F	40
ASTXIXAC_XSYSRC	748	
ASTXIXAC_XSYSRSN	74C	
ASTXIXAC_XUSERRC	740	
ASTXIXAC_XVERSION	728	
ASTXIXACL	751	2A
ASTXIXAT	728	
ASTXIXAT_XDIAG	75C	
ASTXIXAT_XEYECATCH	729	

Table 149. Cross Reference for \$DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXAT_XFLAG1	758	
ASTXIXAT_XFLAG2	759	
ASTXIXAT_XGROUP	730	
ASTXIXAT_XGROUPTOKEN	754	
ASTXIXAT_XJ3CONNECT_NO	759	80
ASTXIXAT_XJ3CONNECT_YES	759	40
ASTXIXAT_XLINKPARMS	760	
ASTXIXAT_XMAINTLVL	750	
ASTXIXAT_XMEMBER	738	
ASTXIXAT_XRELEASE	748	
ASTXIXAT_XRSV0001	72F	
ASTXIXAT_XRSV0002	75A	
ASTXIXAT_XVERSION	728	
ASTXIXAT_XWHICHJES_COMMON	758	8
ASTXIXAT_XWHICHJES_INIT	758	10
ASTXIXAT_XWHICHJES_JES2	758	80
ASTXIXAT_XWHICHJES_JES3	758	40
ASTXIXAT_XWHICHJES_J2SP00L	758	2
ASTXIXAT_XWHICHJES_J3CIFSS	758	4
ASTXIXAT_XWHICHJES_J3FSS	758	20
ASTXIXATL	760	40
ASTXIXDT	728	
ASTXIXDT_XEYECATCH	729	
ASTXIXDT_XGROUPTOKEN	730	
ASTXIXDT_XLINKPARMS	734	
ASTXIXDT_XRSV0001	72F	
ASTXIXDT_XVERSION	728	
ASTXIXDTL	734	14
ASTXIXMB	728	
ASTXIXMB_XEYECATCH	729	
ASTXIXMB_XGROUPTOKEN	74C	
ASTXIXMB_XMBOXNAME	730	
ASTXIXMB_XPOSTALET	748	
ASTXIXMB_XPOSTDATA	744	
ASTXIXMB_XPOSTXIT	740	
ASTXIXMB_XRSV0001	72F	
ASTXIXMB_XSYSEVENT_NO	750	40
ASTXIXMB_XSYSEVENT_YES	750	80
ASTXIXMB_XSYSEVENTS	750	

Table 149. Cross Reference for \$DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXMB_XVERSION	728	
ASTXIXMBL	750	29
ASTXIXMC	728	
ASTXIXMC_XEYECATCH	729	
ASTXIXMC_XGROUPTOKEN	740	
ASTXIXMC_XMBOXNAME	730	
ASTXIXMC_XSTB	72F	
ASTXIXMC_XSTB_NO	72F	80
ASTXIXMC_XSTB_YES	72F	40
ASTXIXMC_XVERSION	728	
ASTXIXMCL	740	1C
ASTXIXMD	728	
ASTXIXMD_XEYECATCH	729	
ASTXIXMD_XGROUPTOKEN	740	
ASTXIXMD_XMBOXNAME	730	
ASTXIXMD_XSTB	72F	
ASTXIXMD_XSTB_NO	72F	80
ASTXIXMD_XSTB_YES	72F	40
ASTXIXMD_XVERSION	728	
ASTXIXMDL	740	1C
ASTXIXRM	728	
ASTXIXRM_KEYUSED_MSGFETCH	755	80
ASTXIXRM_XDATA	740	
ASTXIXRM_XDATALEN	744	
ASTXIXRM_XEYECATCH	729	
ASTXIXRM_XGROUPTOKEN	750	
ASTXIXRM_XKEYS	755	
ASTXIXRM_XMBOXNAME	730	
ASTXIXRM_XMSGFETCH	754	
ASTXIXRM_XMSGFETCH_ACKS	754	10
ASTXIXRM_XMSGFETCH_ALL	754	80
ASTXIXRM_XMSGFETCH_MESSAGES	754	40
ASTXIXRM_XMSGFETCH_SYSEVENT	754	20
ASTXIXRM_XMSGTOKEN	748	
ASTXIXRM_XRSV0001	72F	
ASTXIXRM_XVERSION	728	
ASTXIXRML	755	2E
ASTXIXSM	728	
ASTXIXSM_KEYUSED_CONNECT	7AA	4

Table 149. Cross Reference for \$DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXSM_KEYUSED_DATAALET	7AB	40
ASTXIXSM_KEYUSED_ECB	7AB	80
ASTXIXSM_KEYUSED_EXIT	7AA	10
ASTXIXSM_KEYUSED_MSGATTR	7AA	1
ASTXIXSM_KEYUSED_MSGTOKEN	7AA	2
ASTXIXSM_KEYUSED_RELEASE_CADS	7AB	20
ASTXIXSM_KEYUSED_REQMBOX	7AA	20
ASTXIXSM_KEYUSED_REQTOKEN	7AA	40
ASTXIXSM_KEYUSED_REQTYPE	7AA	80
ASTXIXSM_KEYUSED_RIPSIZE	7AB	10
ASTXIXSM_KEYUSED_SEGTYPE	7AA	8
ASTXIXSM_XCONNECT	780	
ASTXIXSM_XDATA	750	
ASTXIXSM_XDATAALET	770	
ASTXIXSM_XDATALEN	754	
ASTXIXSM_XECB	778	
ASTXIXSM_XEXIT	77C	
ASTXIXSM_XEYECATCH	729	
ASTXIXSM_XGROUPTOKEN	788	
ASTXIXSM_XKEYS	7AA	
ASTXIXSM_XKEYS1	7AB	
ASTXIXSM_XMBOXNAME	730	
ASTXIXSM_XMEMBER	740	
ASTXIXSM_XMSGATTR	72F	
ASTXIXSM_XMSGATTR_EXPRESS	72F	40
ASTXIXSM_XMSGATTR_J3CONNECT	72F	80
ASTXIXSM_XMSGTOKEN	79C	
ASTXIXSM_XREQMBOX	760	
ASTXIXSM_XREQTOKEN	758	
ASTXIXSM_XREQTYPE	7A8	
ASTXIXSM_XREQTYPE_ASYNC	7A8	80
ASTXIXSM_XREQTYPE_ASYNCACK	7A8	20
ASTXIXSM_XREQTYPE_COMM	7A8	10
ASTXIXSM_XREQTYPE_SYNC	7A8	40
ASTXIXSM_XRESPDALT	774	
ASTXIXSM_XRESPDATA	790	
ASTXIXSM_XRESPDLEN	794	
ASTXIXSM_XRIPSIZE	7A4	
ASTXIXSM_XRSV00001	798	

Table 149. Cross Reference for \$DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXSM_XSEGTYPE	7A9	
ASTXIXSM_XSEGTYPE_ABORT	7A9	8
ASTXIXSM_XSEGTYPE_FIRST	7A9	40
ASTXIXSM_XSEGTYPE_LAST	7A9	10
ASTXIXSM_XSEGTYPE_MIDDLE	7A9	20
ASTXIXSM_XSEGTYPE_SINGLE	7A9	80
ASTXIXSM_XUSERRC	78C	
ASTXIXSM_XVERSION	728	
ASTXIXSML	7AB	84
AST1NORE	63C	0
AST1REQU	63C	
ASWORKP	68C	
AS1BMERR	688	10
AS1ERABN	688	80
AS1ERFL1	688	
AS1MAILE	688	40
AS1TBERR	688	20
DTE	0	
M00M1289	0	728
M00M1291	728	
M00M1292	0	728
M00M1293	728	
M00M1294	728	
M00M1295	0	728
M00M1296	0	728
M00M1297	728	

\$DTECKCF information

\$DTECKCF heading information

Common name:	HASP Checkpoint on CF DTE work area
Macro ID:	\$DTECKCF
DSECT name:	DTE (\$DTECKCF is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4

Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DCCFLEN equate for the length of a checkpoint on CF DTE work area extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTECKCF field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the checkpoint on CF subtask DTEs. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP Checkpoint on CF Subtask DTE work area, \$DTECKCF, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. This subtask interfaces between JES2 and the XES CF support. Each subtask manages the requests for a single CF. They are attached when the checkpoint is allocated (at connect time) and detached when the CF is no longer needed (at checkpoint unallocate). A subtask is used to limit the impact of XES suspending the requester of a service or terminating the connector of a CF.

\$DTECKCF mapping

Table 150. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on CF subtask work area ext.
Performance statistics This area is defined the same in \$DTECKDA, \$CTECKCF and \$CTW. It must follow DTEWORK in both DTE work areas.					
1592	(638)	SIGNED	4	DCCFPSTR(0)	Start of statistics
1592	(638)	DBL WORD	8	DCCFPTIM	Wall clock to complete req
1600	(640)	DBL WORD	8	DCCFPCPU	CPU time to complete req
1608	(648)	SIGNED	4	DCCFPIOC	I/O count for request
1612	(64C)	SIGNED	4	DCCFPCNT	CB count for request
1612	(64C)	X'638'	0	DCCFPERF	"DCCFPSTR,24,C'C'" Field for all stats
End of DTE performance statistics					
1616	(650)	SIGNED	4	DCCFE ECB	Event ECB
1620	(654)	ADDRESS	4	DCFBFLST	Pointer to BUFLIST storage

Table 150. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1624	(658)	ADDRESS	8	DCFCFLST	Pointer to CFLIST
1632	(660)	ADDRESS	8	DCFRDBF1	Pointer to 64K buffer for IXLLSTM READ_LIST requests
1640	(668)	ADDRESS	8	DCFRDBF2	Pointer to second 64K buffer for IXLLSTM READ_LIST requests
1648	(670)	ADDRESS	8	DCFRWTKN	Pointer to storage to hold tokens returned from an IXLLSTM READ or WRITE
1656	(678)	ADDRESS	8	DCFLEID	Pointer to LEIDs
1664	(680)	ADDRESS	8	DCFCFADR	Work areas obtained when structure is connected to
1672	(688)	ADDRESS	8	DCFCFAD2	Work areas based on max checkpoint size
1680	(690)	SIGNED	4	DCFCFSZE	Size of 64 bit work area obtained when structure is connected to
1684	(694)	SIGNED	4	DCFCFSZ2	Size of 64 bit work area based on max checkpoint size
1688	(698)	ADDRESS	4	DCFLAAS	Addr of set of answer areas
1692	(69C)	SIGNED	4	DCFLAASZ	Size of 31 bit LAA work area obtained when structure connected to
1696	(6A0)	ADDRESS	4	DCFLAAFQ	First free LAA work area
1700	(6A4)	SIGNED	4	(5)	Reserved
1720	(6B8)	DBL WORD	8	(0)	Ensure alignment
1720	(6B8)	X'80'	0	DCCFLEN	"*-DTEWORK" Length of work area

Table 151. Cross Reference for \$DTECKCF

Name	Offset	Hex Tag
DCCFE ECB	650	
DCCFLEN	6B8	80
DCCFPCNT	64C	
DCCFPCPU	640	
DCCFPERF	64C	638
DCCFPIOC	648	
DCCFPSTR	638	
DCCFPTIM	638	
DCFBFLST	654	
DCFCFADR	680	
DCFCFAD2	688	
DCFCFLST	658	
DCFCFSZE	690	
DCFCFSZ2	694	
DCFLAAFQ	6A0	
DCFLAAS	698	
DCFLAASZ	69C	
DCFLEID	678	
DCFRDBF1	660	

Table 151. Cross Reference for \$DTECKCF (continued)

Name	Offset	Hex Tag
DCFRDBF2	668	
DCFRWTKN	670	
DTE	0	

\$DTECKDA information

\$DTECKDA heading information

Common name:	HASP Checkpoint on DASD DTE workarea
Macro ID:	\$DTECKDA
DSECT name:	DTE (\$DTECKDA is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DCDALLEN equate for the length of a checkpoint on DASD DTE work area extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTECKDA field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the checkpoint on DASD subtask DTEs. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP Checkpoint on DASD Subtask DTE work area, \$DTECKDA, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. This subtask interfaces between JES2 main task and subtask logic that reads and writes the checkpoint on DASD. Each subtask manages the requests for a single DASD data set. They are attached when the checkpoint is allocated and detached when the data set is no longer needed (at checkpoint unallocate). A subtask is used to better manage multiple parallel I/Os to the DASD checkpoint data set.

\$DTECKDA mapping

Table 152. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on DASD subtask work area ext.
Performance statistics This area is defined the same in \$DTECKDA, \$CTECKCF and \$CTW. It must follow DTEWORK in both DTE work areas.					
1592	(638)	SIGNED	4	DCDAPSTR(0)	Start of statistics
1592	(638)	DBL WORD	8	DCDAPTIM	Wall clock to complete req
1600	(640)	DBL WORD	8	DCDAPCPU	CPU time to complete req
1608	(648)	SIGNED	4	DCDAPIOC	I/O count for request
1612	(64C)	SIGNED	4	DCDAPCNT	CB count for request
1612	(64C)	X'638'	0	DCDAPERF	"DCDAPSTR,24" Field for all statistics
End of DTE performance statistics					
1616	(650)	DBL WORD	8	DCDAWORK	8 byte work area
1624	(658)	BITSTRING	16	DCDAWK16	16 byte work area
1640	(668)	BITSTRING	1	DCDAFLG1	General DTE flag byte
		1...		DCDA1INI	"B'10000000" Subtask initializing
1641	(669)	BITSTRING	1	DCDAFLG2	Footprint
1642	(66A)	SIGNED	2	DCDABNDC	Subtask ABEND count
1644	(66C)	ADDRESS	4	DCDAECBL(0)	ECB list for main wait
1644	(66C)	ADDRESS	4	DCDAWCB@	Work ECB (DTEWECB)
1648	(670)	ADDRESS	4	DCDAECB@	Event ECB (DCDAEECB)
1652	(674)	ADDRESS	4	DCDAIOEL(0)	I/O ECB list
1652	(674)	ADDRESS	4	DCDAICB@(0)	I/O ECB pointers
1676	(68C)	ADDRESS	4		Space for work ECB
1680	(690)	SIGNED	4	DCDAEECB	Event ECB
1688	(698)	DBL WORD	8	DCDALPST	STCK of last POST
1696	(6A0)	DBL WORD	8	DCDALOBT	STCK of last OBTAIN
Function related statistics					
1704	(6A8)	SIGNED	4	DCDAFUNC	Current function
1708	(6AC)	SIGNED	4	DCDAFSAV	Last function
1712	(6B0)	DBL WORD	8	DCDAT1ST	Time DDA_T1IO routine
1720	(6B8)	DBL WORD	8	DCDAT1ND	started and ended
1728	(6C0)	DBL WORD	8	DCDAR2ST	Time DDA_RD2 routine
1736	(6C8)	DBL WORD	8	DCDAR2ND	started and ended
1744	(6D0)	DBL WORD	8	DCDAWRST	Time DDA_WRT routine
1752	(6D8)	DBL WORD	8	DCDAWRND	started and ended
1760	(6E0)	DBL WORD	8	DCDALKST	Time DDA_LOCK routine
1768	(6E8)	DBL WORD	8	DCDALKND	started and ended
1776	(6F0)	DBL WORD	8	DCDAULST	Time DDA_UNLK routine
1784	(6F8)	DBL WORD	8	DCDAULND	started and ended
1792	(700)	DBL WORD	8	DCDAFMST	Time DDA_FMT routine

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1800	(708)	DBL WORD	8	DCDAFMND	started and ended
1808	(710)	DBL WORD	8	DCDAXTST	Time DDA_XTND routine
1816	(718)	DBL WORD	8	DCDAXTND	started and ended
Various data pointers					
1824	(720)	ADDRESS	4	DCDACKG	CKG address
1828	(724)	ADDRESS	4	DCDADEB	Address of DEB for this CKPT
1832	(728)	ADDRESS	4	DCDAUCB	UCB address
1836	(72C)	ADDRESS	4	DCDAUCBX	UCB extension addr (UCBCMEXT)
1840	(730)	CHARACTER	44	DCDADSN	CKPT date set name
1884	(75C)	CHARACTER	6	DCDAVOL	and VOLSER
1890	(762)	BITSTRING	2		Reserved
1892	(764)	SIGNED	4	DCDCMLST(0)	ALIGN ON FULL WORD
1892	(764)	ADDRESS	1		THREE BYTES OF FLAGS
1893	(765)	ADDRESS	1		INDICATING THE FUNC-
1894	(766)	ADDRESS	1		TION TO BE PERFORMED
1895	(767)	ADDRESS	1		NO OPTION THREE
1896	(768)	ADDRESS	4		PARAMETER TWO
1900	(76C)	ADDRESS	4		PARAMETER THREE
1904	(770)	ADDRESS	4		PARAMETER FOUR
1908	(774)	ADDRESS	4	DCDAKAWA	Current KAWA address
1912	(778)	DBL WORD	8	(0)	Double word for DSCB
1912	(778)	BITSTRING	148	DCDADSCB	DSCB from OBTAIN
2060	(80C)	SIGNED	4	DCDAOBEC	Obtain error count
2064	(810)	BITSTRING	120	DCDAMSGW	Message work area
2184	(888)	SIGNED	4	DCDATRKC	Number of tracks/cylenders
2188	(88C)	SIGNED	4	DCDANRTK	Number of 4K records per track
2192	(890)	SIGNED	4	DCDAMSTN	Number of records for the master record
2196	(894)	SIGNED	4	DCDACHLN	Number of CHLOG entries after track 1 data
2200	(898)	SIGNED	4	DCDA4KST	Absolute start TTTT for 4k pages in CKPT
2204	(89C)	SIGNED	4	DCDA4KRC	Start record for 4K pages
2208	(8A0)	BITSTRING	16	DCDARPS	Sector numbers for 4K recs
2224	(8B0)	DBL WORD	8	DCDAEXT(0)	Extent start/end absolute address
2224	(8B0)	BITSTRING	4	DCDALOW	Lower CCcch of extent
2228	(8B4)	BITSTRING	4	DCDAHIGH	Upper CCcch of extent
2232	(8B8)	DBL WORD	8	DCDABS(0)	DS start/end absolute track number
2232	(8B8)	SIGNED	4	DCDALOWA	Start absolute track no.
2236	(8BC)	SIGNED	4	DCDAHIAB	End absolute track number
2240	(8C0)	BITSTRING	1	DCDADEVF	Device flags
	1...			DCDAECKD	"B'10000000'" Device supports ECKD CCWs
	.1..			DCDARDTD	"B'01000000'" Read track data CCW support
	..1.			DCDAWTRD	"B'00100000'" Write trk data CCW support

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DCDAMIDW	"B'00010000'" Device supports MIDAWs
2241	(8C1)	BITSTRING	3	DCDAAPPB	Saved value from DEBAPPB
2244	(8C4)	SIGNED	4	DCDAAXAL	JESxAUX address space ALET
The following are work areas used in building channel programs (routines KIOPAGE)					
2248	(8C8)	DBL WORD	8	DCDAIODA(0)	KIOPAGE work area
2248	(8C8)	ADDRESS	4	DCDACKA	Current CKA address
2252	(8CC)	ADDRESS	4	DCDACCWS	Free pointer in CCW area
2256	(8D0)	ADDRESS	4	DCDACCWD	Free pointer in data area
2260	(8D4)	ADDRESS	4	DCDAMXCC	Max CCW pointer
2264	(8D8)	ADDRESS	4	DCDAMXCD	Max CKD pointer
2268	(8DC)	ADDRESS	4	DCDAMXRG	Max rangelist pointer
2272	(8E0)	SIGNED	4	DCDARCNT	Records in current domain
2276	(8E4)	ADDRESS	4	DCDALOCR	Current locate record data area
2280	(8E8)	BITSTRING	5	DCDACHR(0)	Current CCHHR
2280	(8E8)	BITSTRING	4	DCDACCHH	Current CCHH
2284	(8EC)	BITSTRING	1	DCDAR	and R
2285	(8ED)	BITSTRING	1	DCDAIOF1	I/O flag byte
		1...		DCDA1ADJ	"B'10000000'" Adjacent DASD records flag
		.1..		DCDA1STA	"B'01000000'" Adjacent storage address
2288	(8F0)	SIGNED	4	DCDALSTR	Last record+1 in current CTENT
2292	(8F4)	ADDRESS	4	DCDALSTK	1st byte past last local KIT
Statistics for I/Os					
2296	(8F8)	SIGNED	4	DCDAIOCT	Count of normal I/Os started
2300	(8FC)	SIGNED	4	DCDARTCT	Count of retry I/Os started
2304	(900)	SIGNED	4	DCDARCCT	Count of records processed
2304	(900)	X'8C8'	0	DCDAIOWA	"DCDAIODA,*-DCDAIODA" Equate for work area
2312	(908)	DBL WORD	8	(0)	Align save area
2312	(908)	BITSTRING	144	DCDASAVE	F4SA save area for KIOPAGE
2456	(998)	DBL WORD	8	(0)	Align save area
2456	(998)	BITSTRING	144	DCDAPGSV	F4SA save area for KPGPGSR
2600	(A28)	DBL WORD	8	(0)	Align save area
2600	(A28)	BITSTRING	144	DCDACHKI	F4SA save area for KPGCHKIO
2744	(AB8)	DBL WORD	8	(0)	Align save area
2744	(AB8)	BITSTRING	144	DCDAUNSH	F4SA save area for DDUNSHAR
2888	(B48)	SIGNED	4		Reserved
----- \$BLDMSG MF=L List form of \$BLDMSG					
2892	(B4C)	SIGNED	4	DCDABLDM(0)	Control block ID
2896	(B50)	BITSTRING	4		Console ID
2900	(B54)	ADDRESS	4		Address of the CART
2904	(B58)	ADDRESS	4		Pointer for JOBID

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2908	(B5C)	ADDRESS	4		Control block address
2912	(B60)	ADDRESS	4		Display routine address
2916	(B64)	ADDRESS	4	(6)	6 word work area
2940	(B7C)	ADDRESS	4		Caller's R11 value
2944	(B80)	BITSTRING	2		ROUT code for Message
2946	(B82)	BITSTRING	2		Not used
2948	(B84)	CHARACTER	4		Message ID
2952	(B88)	CHARACTER	1		Separator character
2953	(B89)	ADDRESS	1		Flag byte 1
2954	(B8A)	ADDRESS	1		'DISPER'
2955	(B8B)	ADDRESS	1		Flag byte 2
2956	(B8C)	ADDRESS	1		Flag byte 3
2957	(B8D)	ADDRESS	1		Severity of message
2958	(B8E)	CHARACTER	8		Symbolic name of dest.
2966	(B96)	BITSTRING	14		Not used
2980	(BA4)	ADDRESS	4	(0)	Ensure multiple of 4
2980	(BA4)	ADDRESS	2	(0)	
2984	(BA8)	DBL WORD	8	(0)	Start of ORG area
2984	(BA8)	BITSTRING	256	DCDAORG	Basic work are
----- TRKCALC MF=L TRKCALC work area					
2984	(BA8)	ADDRESS	4	DCDATCAL	DVCT OR UCB ADDR, OR DEVTYPE
2988	(BAC)	BITSTRING	1		FLAG BYTE
2989	(BAD)	BITSTRING	1		RESERVED
2990	(BAE)	ADDRESS	2		TRACK BALANCE
2992	(BB0)	ADDRESS	1		RECORD NUMBER
2993	(BB1)	ADDRESS	1		KEY LENGTH
2994	(BB2)	ADDRESS	2		DATA LENGTH
2994	(BB2)	X'BA8'	0	DCDATRKL	"DCDATCAL,*-DCDATCAL" Work area equate
2996	(BB4)	ADDRESS	2	(0)	Ensure not too long
----- IARV64 MF=(L,DCDAIARV),PLISTVER=MAX IARV64 work area MACDATE -02/08/21-<6>					
0	(0)	X'BA8'	0	M00M1303	"DCDAIARV" ++ IARV64 NAME
2984	(BA8)	DBL WORD	8	DCDAIARV(0)	++ IARV64 PARM LIST
2984	(BA8)	BITSTRING	1	DCDAIARV_XVERSION	++ INPUT XVERSION
2985	(BA9)	BITSTRING	1	DCDAIARV_XREQUEST	++ XREQUEST
2985	(BA9)	X'1'	0	DCDAIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2985	(BA9)	X'2'	0	DCDAIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2985	(BA9)	X'3'	0	DCDAIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2985	(BA9)	X'4'	0	DCDAIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2985	(BA9)	X'5'	0	DCDAIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2985	(BA9)	X'6'	0	DCDAIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2985	(BA9)	X'7'	0	DCDAIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
2985	(BA9)	X'8'	0	DCDAIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2985	(BA9)	X'9'	0	DCDAIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2985	(BA9)	X'A'	0	DCDAIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2985	(BA9)	X'B'	0	DCDAIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2985	(BA9)	X'C'	0	DCDAIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2985	(BA9)	X'D'	0	DCDAIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2985	(BA9)	X'E'	0	DCDAIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2985	(BA9)	X'F'	0	DCDAIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2985	(BA9)	X'10'	0	DCDAIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2985	(BA9)	X'11'	0	DCDAIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2985	(BA9)	X'12'	0	DCDAIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2985	(BA9)	X'13'	0	DCDAIARV_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
2986	(BAA)	BITSTRING 1...	1	DCDAIARV_XFLAGS0 DCDAIARV_XMOTKNSOURCE_SYSTEM	++ FIELD_LABEL "B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1...		DCDAIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		DCDAIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2987	(BAB)	BITSTRING	1	DCDAIARV_XKEY	++
2988	(BAC)	BITSTRING 1... .... .1... .... ..1. .... ...1 1... .... .1..	1	DCDAIARV_XFLAGS1 DCDAIARV_KEYUSED_KEY DCDAIARV_KEYUSED_USERTKN DCDAIARV_KEYUSED_TTOKEN DCDAIARV_KEYUSED_CONVERTSTART DCDAIARV_KEYUSED_GUARDSIZE64 DCDAIARV_KEYUSED_CONVERTSIZE64	++ FIELD_LABEL "B'10000000'" ++ KEYUSED.KEY KEYWORD "B'01000000'" ++ KEYUSED.USERTKN KEYWORD "B'00100000'" ++ KEYUSED.TTOKEN KEYWORD "B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD "B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD "B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		DCDAIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		DCDAIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2989	(BAD)	BITSTRING	1	DCDAIARV_XFLAGS2	++ FIELD_LABEL
		1...		DCDAIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		DCDAIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		DCDAIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		DCDAIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		DCDAIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		DCDAIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		DCDAIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		.... ...1		DCDAIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2990	(BAE)	BITSTRING	1	DCDAIARV_XFLAGS3	++ FIELD_LABEL
		1...		DCDAIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		DCDAIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DCDAIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		DCDAIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		DCDAIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DCDAIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DCDAIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		DCDAIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2991	(BAF)	BITSTRING	1	DCDAIARV_XFLAGS4	++ FIELD_LABEL
		1...		DCDAIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DCDAIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		DCDAIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DCDAIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DCDAIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DCDAIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DCDAIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		DCDAIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2992	(BB0)	DBL WORD	8	DCDAIARV_XSEGMENTS	++
3000	(BB8)	CHARACTER	16	DCDAIARV_XTTOKEN	++
3016	(BC8)	DBL WORD	8	DCDAIARV_XUSERTKN	++
3024	(BD0)	ADDRESS	8	DCDAIARV_XORIGIN	++
3032	(BD8)	ADDRESS	8	DCDAIARV_XRANGLIST	++
3040	(BE0)	ADDRESS	8	DCDAIARV_XMEMOBJSTART	++
3048	(BE8)	SIGNED	4	DCDAIARV_XGUARDSIZE	++
3052	(BEC)	SIGNED	4	DCDAIARV_XCONVERTSIZE	++
3056	(BF0)	SIGNED	4	DCDAIARV_XALETVALUE	++
3060	(BF4)	SIGNED	4	DCDAIARV_XNUMRANGE	++
3064	(BF8)	ADDRESS	4	DCDAIARV_XV64LISTPTR	++
3068	(BFC)	SIGNED	4	DCDAIARV_XV64LISTLENGTH	++
3072	(C00)	DBL WORD	8	DCDAIARV_XCONVERTSTART	++
3080	(C08)	DBL WORD	8	DCDAIARV_XCONVERTSIZE64	++
3088	(C10)	DBL WORD	8	DCDAIARV_XGUARDSIZE64	++
3096	(C18)	CHARACTER	8	DCDAIARV_XUSERTOKEN	++
3104	(C20)	BITSTRING	1	DCDAIARV_XDUMPPRIORITY	++
3105	(C21)	BITSTRING	1	DCDAIARV_XFLAGS5	++ FIELD_LABEL
		1...		DCDAIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DCDAIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DCDAIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DCDAIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DCDAIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		DCDAIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DCDAIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		DCDAIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
3106	(C22)	BITSTRING	1	DCDAIARV_XFLAGS6	++ FIELD_LABEL
		1...		DCDAIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DCDAIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DCDAIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		DCDAIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DCDAIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DCDAIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DCDAIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		DCDAIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3107	(C23)	BITSTRING	1	DCDAIARV_XFLAGS7	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_DUMP	"B'10000000" ++ KEYUSED.DUMP KEYWORD
		.1..		DCDAIARV_KEYUSED_OPTIONVALUE	"B'01000000" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DCDAIARV_KEYUSED_SVCUMPRGN	"B'00100000" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		DCDAIARV_XATTRIBUTE_DEFS	"B'00010000" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DCDAIARV_XATTRIBUTE_OWNERGONE	"B'00001000" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DCDAIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		DCDAIARV_XTRACKINFO_YES	"B'00000010" ++ XTRACKINFO.YES KEYWORD
		.... ...1		DCDAIARV_XUNLOCKED_YES	"B'00000001" ++ XUNLOCKED.YES KEYWORD
3108	(C24)	BITSTRING	1	DCDAIARV_XDUMP	++ XDUMP
3108	(C24)	X'0'	0	DCDAIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
3108	(C24)	X'1'	0	DCDAIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
3108	(C24)	X'2'	0	DCDAIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
3108	(C24)	X'3'	0	DCDAIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
3108	(C24)	X'20'	0	DCDAIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
3108	(C24)	X'21'	0	DCDAIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
3108	(C24)	X'FF'	0	DCDAIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
3109	(C25)	BITSTRING	1	DCDAIARV_XFLAGS8	++ FIELD_LABEL
		1...		DCDAIARV_XPAGEFRAME_SIZE_PAGEABLE1MEG	"B'10000000" ++ XPAGEFRAME_SIZE.PAGEABLE1MEG KEYWORD
		.1..		DCDAIARV_XPAGEFRAME_SIZE_DREF1MEG	"B'01000000" ++ XPAGEFRAME_SIZE.DREF1MEG KEYWORD
		..1.		DCDAIARV_XSADMP_YES	"B'00100000" ++ XSADMP.YES KEYWORD
		...1		DCDAIARV_XSADMP_NO	"B'00010000" ++ XSADMP.NO KEYWORD
		.... 1...		DCDAIARV_XUSE2GT064G_YES	"B'00001000" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		DCDAIARV_XDISCARDPAGES_YES	"B'00000100" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		DCDAIARV_XEXECUTABLE_YES	"B'00000010" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		DCDAIARV_XEXECUTABLE_NO	"B'00000001" ++ XEXECUTABLE.NO KEYWORD
3110	(C26)	BITSTRING	2	DCDAIARV_XOWNERASID	++
3112	(C28)	BITSTRING	1	DCDAIARV_XOPTIONVALUE	++
3113	(C29)	CHARACTER	8	DCDAIARV_XRSV0001	++ RESERVED
3121	(C31)	CHARACTER	8	DCDAIARV_XOWNERJOBNAME	++
3129	(C39)	CHARACTER	7	DCDAIARV_XRSV0004	++ RESERVED
3136	(C40)	ADDRESS	8	DCDAIARV_XDMAPAGETABLE	++

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3144	(C48)	DBL WORD	8	DCDAIARV_XUNITS	++
3152	(C50)	BITSTRING	1	DCDAIARV_XFLAGS9	++ FIELD_LABEL
		1... ..		DCDAIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1... ..		DCDAIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DCDAIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DCDAIARV_XPAGEFRAME_SIZE_1M	"B'00010000'" ++ XPAGEFRAME_SIZE.1M KEYWORD
		.... 1...		DCDAIARV_XPAGEFRAME_SIZE_2G	"B'00001000'" ++ XPAGEFRAME_SIZE.2G KEYWORD
		.... .1..		DCDAIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
3153	(C51)	BITSTRING	1	DCDAIARV_XFLAGS10	++ FIELD_LABEL
		1... ..		DCDAIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1... ..		DCDAIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		DCDAIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		DCDAIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
3154	(C52)	BITSTRING	1	DCDAIARV_XFLAGS11	++ FIELD_LABEL
		1... ..		DCDAIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1... ..		DCDAIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		DCDAIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
3155	(C53)	CHARACTER	5	DCDAIARV_XRSV0005	++ RESERVED
3155	(C53)	X'C58'	0	DCDAIARV_PL_END	"*" ++ END OF BASE PLIST
3016	(BC8)	DBL WORD	8	DCDAIARV_XOUTMOTKN	++
3016	(BC8)	DBL WORD	8	DCDAIARV_XMOTKN	++
3040	(BE0)	ADDRESS	8	DCDAIARV_XINORIGIN	++
3040	(BE0)	ADDRESS	8	DCDAIARV_XINADDR	++
3160	(C58)	X'B0'	0	DCDAIARV_L	"*-DCDAIARV" ++ LENGTH OF PLIST
IARV64-6					
0	(0)	X'B0'	0	DCDAV64L	"*-DCDAORG" Length of IARV64 area
3160	(C58)	ADDRESS	2	(0)	Ensure not too long
----- ISGENQ PLISTVER=1,MF=(L,DCDARSV) ISGENQ work area MACDATE -01/23/13-<2>					
		.... ...1		DCDARSV_XCOND_NO	"X'01' "
		.... ...1.		DCDARSV_XCOND_YES	"X'02' "
		.... ...1		DCDARSV_XREQUEST_OBTAIN	"X'01' "
		.... ...1.		DCDARSV_XREQUEST_CHANGE	"X'02' "
		.... ...11		DCDARSV_XREQUEST_RELEASE	"X'03' "
0	(0)	X'BA8'	0	M00M1305	"DCDARSV" ++ ISGENQ NAME
2984	(BA8)	DBL WORD	8	DCDARSV(0)	++ ISGENQ PARM LIST

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2984	(BA8)	BITSTRING	1	DCDARSV_XVERSION	++ INPUT XVERSION
2985	(BA9)	CHARACTER	1	DCDARSV_XRSV0000	++ RESERVED
2986	(BAA)	BITSTRING	1	DCDARSV_XSCOPE	++ XSCOPE
2986	(BAA)	X'1'	0	DCDARSV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
2986	(BAA)	X'2'	0	DCDARSV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
2986	(BAA)	X'3'	0	DCDARSV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
2986	(BAA)	X'3'	0	DCDARSV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
2987	(BAB)	BITSTRING	1	DCDARSV_XCONTROL	++ XCONTROL
2987	(BAB)	X'1'	0	DCDARSV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
2987	(BAB)	X'2'	0	DCDARSV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
2988	(BAC)	BITSTRING	1	DCDARSV_XFLAGS1	++ FIELD_LABEL
		.1..		DCDARSV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		DCDARSV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		DCDARSV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		DCDARSV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		DCDARSV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		DCDARSV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ...1		DCDARSV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
2989	(BAD)	BITSTRING	1	DCDARSV_XFLAGS2	++ FIELD_LABEL
		1...		DCDARSV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		DCDARSV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		DCDARSV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		DCDARSV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		DCDARSV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		DCDARSV_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		DCDARSV_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
2990	(BAE)	BITSTRING	1	DCDARSV_XFLAGS3	++ FIELD_LABEL
		1...		DCDARSV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2991	(BAF)	BITSTRING.... ...1	1	DCDARSV_XFLAGS4 DCDARSV_XUCB@_DO_NOT_OVERRIDE	++ FIELD_LABEL "B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
2992	(BB0)	ADDRESS	8	DCDARSV_XRESTABLE_ADDR3164	++ ADDR3164
3000	(BB8)	ADDRESS	8	DCDARSV_XENQTOKEN_ADDR3164	++ ADDR3164
3008	(BC0)	ADDRESS	8	DCDARSV_XRETURNTABLE_ADDR3164	
3016	(BC8)	ADDRESS	8	DCDARSV_XENQTOKEN_TBL_ADDR3164	
3024	(BD0)	ADDRESS	8	DCDARSV_XRNAME_ADDR3164	++ ADDR3164
3032	(BD8)	ADDRESS	8	DCDARSV_XANSAREA_ADDR3164	++ ADDR3164
3040	(BE0)	CHARACTER	8	DCDARSV_XQNAME	++
3048	(BE8)	CHARACTER	16	DCDARSV_XOWNINGTTOKEN	++
3064	(BF8)	SIGNED	4	DCDARSV_XRESTABLE_ALET	++ ALET
3068	(BFC)	SIGNED	4	DCDARSV_XENQTOKEN_ALET	++ ALET
3072	(C00)	SIGNED	4	DCDARSV_XRETURNTABLE_ALET	++ ALET
3076	(C04)	SIGNED	4	DCDARSV_XENQTOKEN_TBL_ALET	++ ALET
3080	(C08)	SIGNED	4	DCDARSV_XRNAME_ALET	++ ALET
3084	(C0C)	SIGNED	4	DCDARSV_XANSAREA_ALET	++ ALET
3088	(C10)	SIGNED	4	DCDARSV_XANSLEN	++
3092	(C14)	ADDRESS	4	DCDARSV_XECB@	++
3096	(C18)	ADDRESS	4	DCDARSV_XUCB@	++
3100	(C1C)	BITSTRING	2	DCDARSV_XNUMRES	++
3102	(C1E)	BITSTRING	1	DCDARSV_XRNAMELEN	++
3103	(C1F)	CHARACTER	1	DCDARSV_XRSV0001	++ RESERVED
3104	(C20)	CHARACTER	8	DCDARSV_XRSVNNNN	++ RESERVED
3104	(C20)	X'C28'	0	DCDARSV_PL_END	"*" ++ END OF BASE PLIST
2986	(BAA)	BITSTRING	1	DCDARSV_XSCOPEVAL	++
2987	(BAB)	BITSTRING	1	DCDARSV_XCONTROLVAL	++
3112	(C28)	X'80'	0	DCDARSVL	"*-DCDARSV" ++ LENGTH OF PLIST
ISGENQ-2					
3112	(C28)	ADDRESS	2	(0)	Ensure not too long
2984	(BA8)	SIGNED	4	(0)	Ensure alignment
2984	(BA8)	BITSTRING	16	DCDAPPL	PURGE parameter list
3000	(BB8)	ADDRESS	2	(0)	Ensure not too long
2984	(BA8)	DBL WORD	8	(0)	
2984	(BA8)	BITSTRING	100	DCDAEXDS	\$EXTENDS list form
3084	(C0C)	ADDRESS	2	(0)	Ensure not too long
0	(0)	X'BA8'	0	M00M1307	"DCDAVSRV" ++ IARVSRV NAME
2984	(BA8)	DBL WORD	8	DCDAVSRV(0)	++ IARVSRV PARM LIST
2984	(BA8)	BITSTRING	1	DCDAVSRV_XVERSION	++ INPUT XVERSION
2985	(BA9)	BITSTRING	1	DCDAVSRV_XSERVICE	++ XSERVICE
2985	(BA9)	X'1'	0	DCDAVSRV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
2985	(BA9)	X'2'	0	DCDAVSRV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
2985	(BA9)	X'3'	0	DCDAVSRV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
2985	(BA9)	X'4'	0	DCDAVSRV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD

Table 152. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2985	(BA9)	X'5'	0	DCDAVSRV_SHARE64	"5" ++ XSERVICE.SHARE64 KEYWORD
2985	(BA9)	X'6'	0	DCDAVSRV_UNSHARE64	"6" ++ XSERVICE.UNSHARE64 KEYWORD
2985	(BA9)	X'7'	0	DCDAVSRV_CHANGEACCESS64	"7" ++ XSERVICE.CHANGEACCESS64 KEYWORD
2986	(BAA)	BITSTRING	1	DCDAVSRV_XFLAGS1	++ FIELD_LABEL
		1...		DCDAVSRV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		DCDAVSRV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		DCDAVSRV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		DCDAVSRV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		DCDAVSRV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		DCDAVSRV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		DCDAVSRV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		.... ...1		DCDAVSRV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
2987	(BAB)	BITSTRING	1	DCDAVSRV_XFLAGS2	++ FIELD_LABEL
		1...		DCDAVSRV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
		.1..		DCDAVSRV_XTARGETMAYBEREAD_YES	"B'01000000'" ++ XTARGETMAYBEREAD.YES KEYWORD
		..1.		DCDAVSRV_XMAKETARGETWRITE_YES	"B'00100000'" ++ XMAKETARGETWRITE.YES KEYWORD
		...1		DCDAVSRV_KEYUSED_RANGLIST64	"B'00010000'" ++ KEYUSED.RANGLIST64 KEYWORD
		.... 1...		DCDAVSRV_XSINGLESPACE_YES	"B'00001000'" ++ XSINGLESPACE.YES KEYWORD
		.... .1..		DCDAVSRV_XUNAUTHVIEW_YES	"B'00000100'" ++ XUNAUTHVIEW.YES KEYWORD
2988	(BAC)	SIGNED	4	DCDAVSRV_XNUMRANGE	++
2992	(BB0)	ADDRESS	4	DCDAVSRV_XRANGLIST	++
2992	(BB0)	X'BB4'	0	DCDAVSRV_PL_END	"*" ++ END OF BASE PLIST
2992	(BB0)	ADDRESS	4	DCDAVSRV_XRANGLIST64	++
2996	(BB4)	X'C'	0	DCDAVSRVL	"*-DCDAVSRV" ++ LENGTH OF PLIST
IARVSERV-0					
2996	(BB4)	ADDRESS	2	(0)	Ensure not too long
3240	(CA8)	DBL WORD	8	(0)	Ensure alignment
3240	(CA8)	X'670'	0	DCDALEN	"*-DTEWORK" Length of work area

Table 153. Cross Reference for \$DTECKDA

Name	Offset	Hex Tag
DCDAAPPB	8C1	

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAAXAL	8C4	
DCDABLDM	B4C	C2D3C440
DCDABNDC	66A	
DCDABS	8B8	
DCDACCHH	8E8	
DCDACCWD	8D0	
DCDACCWS	8CC	
DCDACHKI	A28	
DCDACHLN	894	
DCDACHR	8E8	
DCDACKA	8C8	
DCDACKG	720	
DCDADEB	724	
DCDADEVF	8C0	
DCDADSCB	778	
DCDADSN	730	
DCDAECB@	670	
DCDAECBL	66C	
DCDAECKD	8C0	80
DCDAEECB	690	
DCDAEXDS	BA8	0
DCDAEXT	8B0	
DCDAFLG1	668	
DCDAFLG2	669	
DCDAFMND	708	
DCDAFMST	700	
DCDAFSAV	6AC	
DCDAFUNC	6A8	
DCDAHIAB	8BC	
DCDAHIGH	8B4	
DCDAIARV	BA8	
DCDAIARV_KEYUSED_CONVERTSIZE64	BAC	4
DCDAIARV_KEYUSED_CONVERTSTART	BAC	10
DCDAIARV_KEYUSED_DUMP	C23	80
DCDAIARV_KEYUSED_GUARDSIZE64	BAC	8
DCDAIARV_KEYUSED_INORIGIN	C51	80
DCDAIARV_KEYUSED_KEY	BAC	80
DCDAIARV_KEYUSED_MOTKN	BAC	2
DCDAIARV_KEYUSED_OBJECTTYPE	C52	80

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_KEYUSED_OPTIONVALUE	C23	40
DCDAIARV_KEYUSED_OWNERJOBNAME	BAC	1
DCDAIARV_KEYUSED_SENSITIVE	C51	10
DCDAIARV_KEYUSED_SVCDUMPRGN	C23	20
DCDAIARV_KEYUSED_TTOKEN	BAC	20
DCDAIARV_KEYUSED_UNITS	C50	80
DCDAIARV_KEYUSED_USERTKN	BAC	40
DCDAIARV_PL_END	C53	C58
DCDAIARV_XAFFINITY_SYSTEM	BAE	40
DCDAIARV_XALETVALUE	BF0	
DCDAIARV_XAMOUNTSIZE_1MEG	C22	2
DCDAIARV_XAMOUNTSIZE_4K	C22	4
DCDAIARV_XATTRIBUTE_DEFS	C23	10
DCDAIARV_XATTRIBUTE_NOTOWNERGONE	C23	4
DCDAIARV_XATTRIBUTE_OWNERGONE	C23	8
DCDAIARV_XCHANGEACCESS_GLOBAL	BAD	8
DCDAIARV_XCLEAR_NO	BAF	40
DCDAIARV_XCOND_YES	BAD	80
DCDAIARV_XCONTROL_AUTH	BAD	20
DCDAIARV_XCONVERT_FROMGUARD	BAF	2
DCDAIARV_XCONVERT_TOGUARD	BAF	4
DCDAIARV_XCONVERTSIZE	BEC	
DCDAIARV_XCONVERTSIZE64	C08	
DCDAIARV_XCONVERTSTART	C00	
DCDAIARV_XDETACHFIXED_YES	C22	20
DCDAIARV_XDISCARDPAGES_YES	0	4
DCDAIARV_XMAPAGETABLE	C40	
DCDAIARV_XDOAUTHCHECKS_YES	C22	10
DCDAIARV_XDUMP	C24	
DCDAIARV_XDUMP_ALL	C24	FF
DCDAIARV_XDUMP_LIKECSA	C24	3
DCDAIARV_XDUMP_LIKELSQA	C24	21
DCDAIARV_XDUMP_LIKERGN	C24	20
DCDAIARV_XDUMP_LIKESQA	C24	2
DCDAIARV_XDUMP_NO	C24	1
DCDAIARV_XDUMP_NONE	C24	0
DCDAIARV_XDUMPPRIORITY	C20	
DCDAIARV_XDUMPPROTOCOL_YES	C21	80
DCDAIARV_XEXECUTABLE_NO	0	1

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XEXECUTABLE_YES	0	2
DCDAIARV_XFLAGS0	BAA	
DCDAIARV_XFLAGS1	BAC	
DCDAIARV_XFLAGS10	C51	
DCDAIARV_XFLAGS11	C52	
DCDAIARV_XFLAGS2	BAD	
DCDAIARV_XFLAGS3	BAE	
DCDAIARV_XFLAGS4	BAF	
DCDAIARV_XFLAGS5	C21	
DCDAIARV_XFLAGS6	C22	
DCDAIARV_XFLAGS7	C23	
DCDAIARV_XFLAGS8	C25	
DCDAIARV_XFLAGS9	C50	
DCDAIARV_XFPROT_NO	BAD	40
DCDAIARV_XGUARDLOC_HIGH	BAD	10
DCDAIARV_XGUARDSIZE	BE8	
DCDAIARV_XGUARDSIZE64	C10	
DCDAIARV_XINADDR	BE0	
DCDAIARV_XINORIGIN	BE0	
DCDAIARV_XKEEPREAL_NO	BAF	1
DCDAIARV_XKEY	BAB	
DCDAIARV_XLOCALSYSAREA_YES	C22	8
DCDAIARV_XLONG_NO	BAF	80
DCDAIARV_XMATCH_MOTOKEN	BAA	20
DCDAIARV_XMATCH_USERTOKEN	BAE	80
DCDAIARV_XMEMLIMIT_COND	C22	1
DCDAIARV_XMEMLIMIT_NO	C22	40
DCDAIARV_XMEMOBJSTART	BE0	
DCDAIARV_XMOTKN	BC8	
DCDAIARV_XMOTKNCREATOR_SYSTEM	BAA	40
DCDAIARV_XMOTKNSOURCE_SYSTEM	BAA	80
DCDAIARV_XNUMRANGE	BF4	
DCDAIARV_XOBJECTTYPE_POOL	C52	40
DCDAIARV_XOBJECTTYPE_RSMINTERNAL	C52	20
DCDAIARV_XOPTIONVALUE	C28	
DCDAIARV_XORDER_DUMPRIORITY	C21	40
DCDAIARV_XORIGIN	BD0	
DCDAIARV_XOUTMOTKN	BC8	
DCDAIARV_XOWNER_NO	BAE	10

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XOWNERASID	C26	
DCDAIARV_XOWNERCOM_BYASID	C21	1
DCDAIARV_XOWNERCOM_HOME	C21	8
DCDAIARV_XOWNERCOM_PRIMARY	C21	4
DCDAIARV_XOWNERCOM_SYSTEM	C21	2
DCDAIARV_XOWNERJOBNAME	C31	
DCDAIARV_XPAGEFRAMESIZE_ALL	BAD	1
DCDAIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DCDAIARV_XPAGEFRAMESIZE_MAX	BAD	2
DCDAIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	C25	80
DCDAIARV_XPAGEFRAMESIZE_1M	C50	10
DCDAIARV_XPAGEFRAMESIZE_1MEG	BAD	4
DCDAIARV_XPAGEFRAMESIZE_2G	C50	8
DCDAIARV_XRANGLIST	BD8	
DCDAIARV_XREQUEST	BA9	
DCDAIARV_XREQUEST_CHANGEACCESS	BA9	B
DCDAIARV_XREQUEST_CHANGEATTRIBUTE	BA9	13
DCDAIARV_XREQUEST_CHANGEGUARD	BA9	D
DCDAIARV_XREQUEST_COUNTPAGES	BA9	10
DCDAIARV_XREQUEST_DETACH	BA9	3
DCDAIARV_XREQUEST_DISCARDATA	BA9	7
DCDAIARV_XREQUEST_GETCOMMON	BA9	F
DCDAIARV_XREQUEST_GETSHARED	BA9	2
DCDAIARV_XREQUEST_GETSTOR	BA9	1
DCDAIARV_XREQUEST_LIST	BA9	E
DCDAIARV_XREQUEST_PAGEFIX	BA9	4
DCDAIARV_XREQUEST_PAGEIN	BA9	8
DCDAIARV_XREQUEST_PAGEOUT	BA9	6
DCDAIARV_XREQUEST_PAGEUNFIX	BA9	5
DCDAIARV_XREQUEST_PCIEFIX	BA9	11
DCDAIARV_XREQUEST_PCIEUNFIX	BA9	12
DCDAIARV_XREQUEST_PROTECT	BA9	9
DCDAIARV_XREQUEST_SHAREMEMOBJ	BA9	A
DCDAIARV_XREQUEST_UNPROTECT	BA9	C
DCDAIARV_XRSV0001	C29	
DCDAIARV_XRSV0004	C39	
DCDAIARV_XRSV0005	C53	
DCDAIARV_XSADMP_NO	0	10
DCDAIARV_XSADMP_YES	0	20

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XSEGMENTS	BB0	
DCDAIARV_XSENSITIVE_NO	C51	20
DCDAIARV_XSENSITIVE_YES	C51	40
DCDAIARV_XSVCDUMPRGN_ALL	BAE	1
DCDAIARV_XSVCDUMPRGN_NO	BAE	4
DCDAIARV_XTRACKINFO_YES	C23	2
DCDAIARV_XTTOKEN	BB8	
DCDAIARV_XTYPE_DREF	C21	10
DCDAIARV_XTYPE_FIXED	C50	4
DCDAIARV_XTYPE_PAGEABLE	C21	20
DCDAIARV_XUNITS	C48	
DCDAIARV_XUNITSIZE_1M	C50	40
DCDAIARV_XUNITSIZE_2G	C50	20
DCDAIARV_XUNLOCKED_YES	C23	1
DCDAIARV_XUSERTKN	BC8	
DCDAIARV_XUSERTOKEN	C18	
DCDAIARV_XUSE2GT032G_YES	BAE	20
DCDAIARV_XUSE2GT064G_YES	0	8
DCDAIARV_XVERSION	BA8	
DCDAIARV_XVIEW_HIDDEN	BAF	8
DCDAIARV_XVIEW_READONLY	BAF	20
DCDAIARV_XVIEW_SHAREDWRITE	BAF	10
DCDAIARV_XV64COMMON_NO	C22	80
DCDAIARV_XV64LISTLENGTH	BFC	
DCDAIARV_XV64LISTPTR	BF8	
DCDAIARV_XV64SELECT_NO	BAE	8
DCDAIARV_XV64SHARED_NO	BAE	2
DCDAIARVL	C58	B0
DCDAICB@	674	
DCDAIOCT	8F8	
DCDAIODA	8C8	
DCDAIOEL	674	
DCDAIOF1	8ED	
DCDAIOWA	900	8C8
DCDAKAWA	774	
DCDALEN	CA8	670
DCDALKND	6E8	
DCDALKST	6E0	
DCDALOBT	6A0	

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDALOCR	8E4	
DCDALOW	8B0	
DCDALOWA	8B8	
DCDALPST	698	
DCDALSTK	8F4	
DCDALSTR	8F0	
DCDAMIDW	8C0	10
DCDAMSGW	810	
DCDAMSTN	890	
DCDAMXCC	8D4	
DCDAMXCD	8D8	
DCDAMXRG	8DC	
DCDANRTK	88C	
DCDAOBEC	80C	
DCDAORG	BA8	
DCDAPCNT	64C	
DCDAPCPU	640	
DCDAPERF	64C	638
DCDAPGSV	998	
DCDAPIOC	648	
DCDAPPL	BA8	0
DCDAPSTR	638	
DCDAPTIM	638	
DCDAR	8EC	
DCDARCCT	900	
DCDARCNT	8E0	
DCDARDTD	8C0	40
DCDARPS	8A0	
DCDARSV	BA8	
DCDARSV_KEYUSED_CONTROL	BAE	80
DCDARSV_PL_END	C20	C28
DCDARSV_XANSAREA_ADDR3164	BD8	
DCDARSV_XANSAREA_ALET	C0C	
DCDARSV_XANSLEN	C10	
DCDARSV_XCOND_NO	0	1
DCDARSV_XCOND_YES	0	2
DCDARSV_XCONTENTIONACT_FAIL	BAC	20
DCDARSV_XCONTROL	BAB	
DCDARSV_XCONTROL_DO_NOT_OVERRIDE	BAD	10

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDARSV_XCONTROL_EXCLUSIVE	BAB	2
DCDARSV_XCONTROL_SHARED	BAB	1
DCDARSV_XCONTROLVAL	BAB	
DCDARSV_XECB@	C14	
DCDARSV_XENQMAX_NO	BAC	4
DCDARSV_XENQTOKEN_ADDR3164	BB8	
DCDARSV_XENQTOKEN_ALET	BFC	
DCDARSV_XENQTOKENTBL_ADDR3164	BC8	
DCDARSV_XENQTOKENTBL_ALET	C04	
DCDARSV_XFLAGS1	BAC	
DCDARSV_XFLAGS2	BAD	
DCDARSV_XFLAGS3	BAE	
DCDARSV_XFLAGS4	BAF	
DCDARSV_XNUMRES	C1C	
DCDARSV_XOWNINGTTOKEN	BE8	
DCDARSV_XQNAME	BE0	
DCDARSV_XQNAME_DO_NOT_OVERRIDE	BAC	1
DCDARSV_XREQUEST_CHANGE	0	2
DCDARSV_XREQUEST_OBTAIN	0	1
DCDARSV_XREQUEST_RELEASE	0	3
DCDARSV_XRESERVEVOLUME_YES	BAD	80
DCDARSV_XRESLIST_YES	BAC	8
DCDARSV_XRESTABLE_ADDR3164	BB0	
DCDARSV_XRESTABLE_ALET	BF8	
DCDARSV_XRETURNTABLE_ADDR3164	BC0	
DCDARSV_XRETURNTABLE_ALET	C00	
DCDARSV_XRNAME_ADDR3164	BD0	
DCDARSV_XRNAME_ALET	C08	
DCDARSV_XRNAME_DO_NOT_OVERRIDE	BAD	1
DCDARSV_XRNAMELEN	C1E	
DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	BAE	1
DCDARSV_XRNL_DO_NOT_OVERRIDE	BAD	4
DCDARSV_XRNL_NO	BAC	2
DCDARSV_XRSVNNNN	C20	
DCDARSV_XRSV0000	BA9	
DCDARSV_XRSV0001	C1F	
DCDARSV_XSCOPE	BAA	
DCDARSV_XSCOPE_DO_NOT_OVERRIDE	BAD	8
DCDARSV_XSCOPE_STEP	BAA	1

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDARSV_XSCOPE_SYSPLEX	BAA	3
DCDARSV_XSCOPE_SYSTEM	BAA	2
DCDARSV_XSCOPE_SYSTEMS	BAA	3
DCDARSV_XSCOPEVAL	BAA	
DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	BAD	2
DCDARSV_XSYNCHRES_NO	BAD	20
DCDARSV_XSYNCHRES_YES	BAD	40
DCDARSV_XTEST_YES	BAC	40
DCDARSV_XUCB@	C18	
DCDARSV_XUCB@_DO_NOT_OVERRIDE	BAF	1
DCDARSV_XVERSION	BA8	
DCDARSV_XWAITTYPE_ECB	BAC	10
DCDARSVL	C28	80
DCDARTCT	8FC	
DCDAR2ND	6C8	
DCDAR2ST	6C0	
DCDASAVE	908	
DCDATCAL	BA8	
DCDATRKC	888	
DCDATRKL	BB2	BA8
DCDAT1ND	6B8	
DCDAT1ST	6B0	
DCDAUCB	728	
DCDAUCBX	72C	
DCDAULND	6F8	
DCDAULST	6F0	
DCDAUNSH	AB8	
DCDAVOL	75C	
DCDAVSRV	BA8	
DCDAVSRV_CHANGEACCESS	BA9	3
DCDAVSRV_CHANGEACCESS64	BA9	7
DCDAVSRV_COPYNOW	BAA	2
DCDAVSRV_KEYUSED_RANGLIST64	BAB	10
DCDAVSRV_PL_END	BB0	BB4
DCDAVSRV_RETAIN_YES	BAA	1
DCDAVSRV_SHARE	BA9	1
DCDAVSRV_SHARESEG	BA9	4
DCDAVSRV_SHARE64	BA9	5
DCDAVSRV_TARGET_VIEW_LS	BAA	8

Table 153. Cross Reference for \$DTECKDA (continued)

Name	Offset	Hex Tag
DCDAVSRV_TARGET_VIEW_NA	BAA	4
DCDAVSRV_TARGET_VIEW_RO	BAA	80
DCDAVSRV_TARGET_VIEW_SW	BAA	40
DCDAVSRV_TARGET_VIEW_TW	BAA	10
DCDAVSRV_TARGET_VIEW_UW	BAA	20
DCDAVSRV_UNSHARE	BA9	2
DCDAVSRV_UNSHARE64	BA9	6
DCDAVSRV_XFLAGS1	BAA	
DCDAVSRV_XFLAGS2	BAB	
DCDAVSRV_XMAKETARGETWRITE_YES	BAB	20
DCDAVSRV_XNUMRANGE	BAC	
DCDAVSRV_XPARTIALPAGE_YES	BAB	80
DCDAVSRV_XRANGLIST	BB0	
DCDAVSRV_XRANGLIST64	BB0	
DCDAVSRV_XSERVICE	BA9	
DCDAVSRV_XSINGLESPACE_YES	BAB	8
DCDAVSRV_XTARGETMAYBEREAD_YES	BAB	40
DCDAVSRV_XUNAUTHVIEW_YES	BAB	4
DCDAVSRV_XVERSION	BA8	
DCDAVSRVL	BB4	C
DCDAV64L	0	B0
DCDAWCB@	66C	
DCDAWK16	658	
DCDAWORK	650	
DCDAWRND	6D8	
DCDAWRST	6D0	
DCDAWTRD	8C0	20
DCDAXTND	718	
DCDAXTST	710	
DCDA1ADJ	8ED	80
DCDA1INI	668	80
DCDA1STA	8ED	40
DCDA4KRC	89C	
DCDA4KST	898	
DCDCMLST	764	
DTE	0	
M00M1303	0	BA8
M00M1305	0	BA8
M00M1307	0	BA8

\$DTECKVR information

\$DTECKVR heading information

Common name:	HASP Checkpoint Version DTE work area
Macro ID:	\$DTECKVR
DSECT name:	DTE (\$DTECKVR is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DCKVLEN equate for the length of a checkpoint version DTE work area extension.
Created by:	n/a Created by \$DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTECKVR field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the checkpoint versions DTE. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP Checkpoint Version/APPLCOPY Subtask DTE work area, \$DTECKVR, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. This subtask maintains one or more versions of the checkpoint data set for use by authorized programs. When attached, it determines which of the two modes of checkpoint maintenance are in operation. In a Checkpoint Version, a data space is established and versions are created and maintained. In an Application Copy (APPLCOPY), the checkpoint is serviced in extended common or private storage. Both types are serviced by the same subtask.

\$DTECKVR mapping

Table 154. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint Version subtask work area ext.

Table 154. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1592	(638)	DBL WORD	8	DCKVTSMP	Time of last 'full' sampling (1st 8 of STCKE)
1592	(638)	X'8'	0	DCKVLEN	"*-DTEWORK" LENGTH OF WORK AREA

\$DTECNV information

\$DTECNV programming interface information

The following field is **NOT** programming interface information:

- DCNVDEBS

\$DTECNV heading information

Common name:	JCL Conversion subtask DTE work area
Macro ID:	\$DTECNV
DSECT name:	DTE (\$DTECNV is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DCNVLEN equate for the length of a JCL conversion DTE extension.
Created by:	\$DTEDYN ATTACH, called from the JCL conversion JES2 processor to ATTACH its associated JCL conversion subtask. The subtask (and DTE) definitions are defined in the \$DTETAB tables.
Pointed to by:	The JPCEDTE field of the associated JCL conversion \$PCE control block. The \$DTECNVT pointer in the \$HCT control block, pointing into the \$DTEORG/\$DTELAST chain, to the first JCL conversion \$DTE control block. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used serially by the JCL-conversion processor and its associated subtask. Other tasks can not use it. The chain fields should only be managed by the JES2 main task \$DTEDYN and subtask RAS facilities.

Function:

The JCL-conversion subtask DTE work area DSECT, \$DTECNV, describes the work area extension to the DTE for the JCL-conversion subtask. The mapping defines the fields after label DTEWORK.

There are one or more JCL-conversion processors, defined by \$PCE control blocks, in a JES2 address space. Each one attaches a subtask. The JES2 \$DTEDYN service used for the ATTACH creates a DTE, mapped by the \$DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to manage and communicate with its daughter tasks.

\$DTECNV mapping

Table 155. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP CONVERSION SUBTASK WORK AREA
1592	(638)	ADDRESS	4	DCNVHCCT	HCCT address
1596	(63C)	ADDRESS	4	DCNVCIP	CIPARM parm area address
1600	(640)	SIGNED	4	DCNVC IPL	and ALET to access
1604	(644)	ADDRESS	4	DCNVC IW	31 bit CI work area address
1608	(648)	ADDRESS	4	DCNVC IWB	24 bit CI work area address
1612	(64C)	ADDRESS	4	DCNVC ICB	CICB for owning addr space (zero if JES2 subtask)
1616	(650)	SIGNED	4	DCNVSAVE (15)	ESTAE REGISTER SAVE AREA
1676	(68C)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1680	(690)	ADDRESS	4	DCNVJCTA	Address of JCT buffer (See DCNVXJCT below for use in EXIT 6)
1680	(690)	X'5C'	0	DCNVLEN	"*-DTEWORK" LENGTH OF THE CNVT DTE DSECT

Table 156. Structure DCNVPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DCNVPARM	, EXIT 6 parameter list
0	(0)	ADDRESS	4	DCNVUWAA	Address of user work area
4	(4)	ADDRESS	4	DCNVP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
8	(8)	ADDRESS	4	DCNVDTEA	Address of DTE
12	(C)	ADDRESS	4	DCNVXJCT	Address of JCT buffer
16	(10)	ADDRESS	4	DCNVCNMB	Address of converter message buffer

Table 157. Cross Reference for \$DTECNV

Name	Offset	Hex Tag
DCNVCICB	64C	
DCNVCIP	63C	
DCNVC IPL	640	
DCNVC IW	644	
DCNVC IWB	648	

Table 157. Cross Reference for \$DTECNV (continued)

Name	Offset	Hex Tag
DCNVCNMB	10	
DCNVDTEA	8	
DCNVHCCT	638	
DCNVJCTA	690	
DCNVLEN	690	5C
DCNVPARM	0	
DCNVP2A	4	
DCNVSARE	650	
DCNVSJBP	68C	
DCNVUWAA	0	
DCNVXJCT	C	
DTE	0	

\$DTEEOM information

\$DTEEOM heading information

Common name:	HASP End of Memory DTE work area
Macro ID:	\$DTEEOM
DSECT name:	DTE (\$DTEEOM is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the EMSLEN equate for the length of a End of Memory DTE work area extension.
Created by:	Created by \$DTEDYN ATTACH during EOM PCE initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTEEOM field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the End of Memory subtask DTEs. EOMDTE of the \$EOMWORK data area See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.

Function:

The HASP End of Memory DTE work area, \$DTEEOM, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.

This subtask deals with SJBs on the End-of-Memory queue. JES2 resource cleanup is performed here. The SJB is placed on the work queue for this DTE by MVS EOM SSI support.

\$DTEEOM mapping

Table 158. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	
1592	(638)	ADDRESS	4	EMSSJB	Address of SJB
1596	(63C)	ADDRESS	4	EMSPCE	Address of our PCE
ISGENQ list forms and ENQ TOKENs MACDATE -01/23/13-<2>					
		.... ..1		EMSXENQ_XCOND_NO	"X'01' "
		.... ..1.		EMSXENQ_XCOND_YES	"X'02' "
		.... ..1		EMSXENQ_XREQUEST_OBTAIN	"X'01' "
		.... ..1.		EMSXENQ_XREQUEST_CHANGE	"X'02' "
		.... ..11		EMSXENQ_XREQUEST_RELEASE	"X'03' "
0	(0)	X'640'	0	M00M1294	"EMSXENQ" ++ ISGENQ NAME
1600	(640)	DBL WORD	8	EMSXENQ(0)	++ ISGENQ PARM LIST
1600	(640)	BITSTRING	1	EMSXENQ_XVERSION	++ INPUT XVERSION
1601	(641)	CHARACTER	1	EMSXENQ_XRSV0000	++ RESERVED
1602	(642)	BITSTRING	1	EMSXENQ_XSCOPE	++ XSCOPE
1602	(642)	X'1'	0	EMSXENQ_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
1602	(642)	X'2'	0	EMSXENQ_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
1602	(642)	X'3'	0	EMSXENQ_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
1602	(642)	X'3'	0	EMSXENQ_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
1603	(643)	BITSTRING	1	EMSXENQ_XCONTROL	++ XCONTROL
1603	(643)	X'1'	0	EMSXENQ_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
1603	(643)	X'2'	0	EMSXENQ_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
1604	(644)	BITSTRING	1	EMSXENQ_XFLAGS1	++ FIELD_LABEL
		.1..		EMSXENQ_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		EMSXENQ_XCONTENTIONACT_FAIL	
					"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		EMSXENQ_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		EMSXENQ_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		EMSXENQ_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		EMSXENQ_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ..1		EMSXENQ_XQNAME_DO_NOT_OVERRIDE	
					"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
1605	(645)	BITSTRING	1	EMSXENQ_XFLAGS2	++ FIELD_LABEL

Table 158. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		EMSXENQ_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1.. ..		EMSXENQ_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		EMSXENQ_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		EMSXENQ_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		EMSXENQ_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		EMSXENQ_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		EMSXENQ_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		EMSXENQ_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
1606	(646)	BITSTRING	1	EMSXENQ_XFLAGS3	++ FIELD_LABEL
		1... ..		EMSXENQ_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		EMSXENQ_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
1607	(647)	BITSTRING	1	EMSXENQ_XFLAGS4	++ FIELD_LABEL
		.... ...1		EMSXENQ_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
1608	(648)	ADDRESS	8	EMSXENQ_XRESTABLE_ADDR3164	++ ADDR3164
1616	(650)	ADDRESS	8	EMSXENQ_XENQTOKEN_ADDR3164	++ ADDR3164
1624	(658)	ADDRESS	8	EMSXENQ_XRETURNTABLE_ADDR3164	
1632	(660)	ADDRESS	8	EMSXENQ_XENQTOKENTBL_ADDR3164	
1640	(668)	ADDRESS	8	EMSXENQ_XRNAME_ADDR3164	++ ADDR3164
1648	(670)	ADDRESS	8	EMSXENQ_XANSAREA_ADDR3164	++ ADDR3164
1656	(678)	CHARACTER	8	EMSXENQ_XQNAME	++
1664	(680)	CHARACTER	16	EMSXENQ_XOWNINGTTOKEN	++
1680	(690)	SIGNED	4	EMSXENQ_XRESTABLE_ALET	++ ALET
1684	(694)	SIGNED	4	EMSXENQ_XENQTOKEN_ALET	++ ALET
1688	(698)	SIGNED	4	EMSXENQ_XRETURNTABLE_ALET	++ ALET
1692	(69C)	SIGNED	4	EMSXENQ_XENQTOKENTBL_ALET	++ ALET
1696	(6A0)	SIGNED	4	EMSXENQ_XRNAME_ALET	++ ALET
1700	(6A4)	SIGNED	4	EMSXENQ_XANSAREA_ALET	++ ALET
1704	(6A8)	SIGNED	4	EMSXENQ_XANSLEN	++
1708	(6AC)	ADDRESS	4	EMSXENQ_XECB@	++
1712	(6B0)	ADDRESS	4	EMSXENQ_XUCB@	++
1716	(6B4)	BITSTRING	2	EMSXENQ_XNUMRES	++
1718	(6B6)	BITSTRING	1	EMSXENQ_XRNAMELEN	++

Table 158. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1719	(6B7)	CHARACTER	1	EMSXENQ_XRSV0001	++ RESERVED
1720	(6B8)	CHARACTER	8	EMSXENQ_XRSVNNNN	++ RESERVED
1720	(6B8)	X'6C0'	0	EMSXENQ_PL_END	"*" ++ END OF BASE PLIST
1602	(642)	BITSTRING	1	EMSXENQ_XSCOPEVAL	++
1603	(643)	BITSTRING	1	EMSXENQ_XCONTROLVAL	++
1728	(6C0)	X'80'	0	EMSXENQL	"*-EMSXENQ" ++ LENGTH OF PLIST
ISGENQ-2					
1728	(6C0)	BITSTRING	32	EMSSVJET	SVJLOCK ENQ token
1760	(6E0)	DBL WORD	8	(0)	Ensure alignment
1760	(6E0)	X'A8'	0	EMSLN	"*-DTEWORK" Length of work area

Table 159. Cross Reference for \$DTEEOM

Name	Offset	Hex Tag
DTE	0	
EMSLN	6E0	A8
EMSPCE	63C	
EMSSJB	638	
EMSSVJET	6C0	
EMSXENQ	640	
EMSXENQ_KEYUSED_CONTROL	646	80
EMSXENQ_PL_END	6B8	6C0
EMSXENQ_XANSAREA_ADDR3164	670	
EMSXENQ_XANSAREA_ALET	6A4	
EMSXENQ_XANSLEN	6A8	
EMSXENQ_XCOND_NO	0	1
EMSXENQ_XCOND_YES	0	2
EMSXENQ_XCONTENTIONACT_FAIL	644	20
EMSXENQ_XCONTROL	643	
EMSXENQ_XCONTROL_DO_NOT_OVERRIDE	645	10
EMSXENQ_XCONTROL_EXCLUSIVE	643	2
EMSXENQ_XCONTROL_SHARED	643	1
EMSXENQ_XCONTROLVAL	643	
EMSXENQ_XECB@	6AC	
EMSXENQ_XENQMAX_NO	644	4
EMSXENQ_XENQTOKEN_ADDR3164	650	
EMSXENQ_XENQTOKEN_ALET	694	
EMSXENQ_XENQTOKENTBL_ADDR3164	660	
EMSXENQ_XENQTOKENTBL_ALET	69C	
EMSXENQ_XFLAGS1	644	

Table 159. Cross Reference for \$DTEEOM (continued)

Name	Offset	Hex Tag
EMSXENQ_XFLAGS2	645	
EMSXENQ_XFLAGS3	646	
EMSXENQ_XFLAGS4	647	
EMSXENQ_XNUMRES	6B4	
EMSXENQ_XOWNINGTTOKEN	680	
EMSXENQ_XQNAME	678	
EMSXENQ_XQNAME_DO_NOT_OVERRIDE	644	1
EMSXENQ_XREQUEST_CHANGE	0	2
EMSXENQ_XREQUEST_OBTAIN	0	1
EMSXENQ_XREQUEST_RELEASE	0	3
EMSXENQ_XRESERVEVOLUME_YES	645	80
EMSXENQ_XRESLIST_YES	644	8
EMSXENQ_XRESTABLE_ADDR3164	648	
EMSXENQ_XRESTABLE_ALET	690	
EMSXENQ_XRETURNTABLE_ADDR3164	658	
EMSXENQ_XRETURNTABLE_ALET	698	
EMSXENQ_XRNAME_ADDR3164	668	
EMSXENQ_XRNAME_ALET	6A0	
EMSXENQ_XRNAME_DO_NOT_OVERRIDE	645	1
EMSXENQ_XRNAMELEN	6B6	
EMSXENQ_XRNAMELEN_DO_NOT_OVERRIDE	646	1
EMSXENQ_XRNL_DO_NOT_OVERRIDE	645	4
EMSXENQ_XRNL_NO	644	2
EMSXENQ_XRSVNNNN	6B8	
EMSXENQ_XRSV0000	641	
EMSXENQ_XRSV0001	6B7	
EMSXENQ_XSCOPE	642	
EMSXENQ_XSCOPE_DO_NOT_OVERRIDE	645	8
EMSXENQ_XSCOPE_STEP	642	1
EMSXENQ_XSCOPE_SYSPLEX	642	3
EMSXENQ_XSCOPE_SYSTEM	642	2
EMSXENQ_XSCOPE_SYSTEMS	642	3
EMSXENQ_XSCOPEVAL	642	
EMSXENQ_XSYNCHRES_DO_NOT_OVERRIDE	645	2
EMSXENQ_XSYNCHRES_NO	645	20
EMSXENQ_XSYNCHRES_YES	645	40
EMSXENQ_XTEST_YES	644	40
EMSXENQ_XUCB@	6B0	
EMSXENQ_XUCB@_DO_NOT_OVERRIDE	647	1

Table 159. Cross Reference for \$DTEEOM (continued)

Name	Offset	Hex Tag
EMSXENQ_XVERSION	640	
EMSXENQ_XWAITTYPE_ECB	644	10
EMSXENQL	6C0	80
M00M1294	0	640

\$DTEIMG information

\$DTEIMG programming interface information

\$DTEIMG is a programming interface.

\$DTEIMG heading information

Common name:	HASPIMAG subtask DTE Work Area
Macro ID:	\$DTEIMG
DSECT name:	DTE (\$DTEIMG is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: See \$DTE Key: See \$DTE Residency: See \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and DIMGLEN for the length of a HASPIMAG subtask DTE extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	DIMG origin begins at the DTE work area extension field DTEWORK. The HASPIMAG DTE chain head (\$DTEIMAG) is located in the HCT. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This work area is used serially by the HASPIMAG subtask. No special serialization is necessary.
Function:	\$DTEIMG maps DTE work area extension for HASPIMAG subtasks. The mapping defines the fields after label DTEWORK.

\$DTEIMG mapping

Table 160. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPIMAG DTE WORK AREA EXTENSION
1592	(638)	CHARACTER	8	DIMGNAME	NAME OF LOADED MODULE
1592	(638)	X'63B'	0	DIMGBYT3	"DIMGNAME+3" IMAGE NAME PREFIX BYTE
1600	(640)	SIGNED	4	DIMGDCB	ADDRESS OF IMAGELIB DCB
1604	(644)	SIGNED	4	DIMGBFAD	BUFFER ADDRESS FOR ESTAE
1608	(648)	SIGNED	4	DIMGABCC	ABEND COMP CODE FOR RETRY
1612	(64C)	SIGNED	4	DIMGSDCB	ADDRESS OF PRT DCB FOR SETPRT
1616	(650)	CHARACTER	80	DIMGMSG	MESSAGE AREA
1696	(6A0)	BITSTRING	1	DIMGFLG1	IMAGE LOADER FLAG BYTE
1700	(6A4)	ADDRESS	4	DIMGLOAD	ADDRESS OF EP OR DE PARAMETER
1704	(6A8)	ADDRESS	4		DCB ADDRESS PARAMETER
1708	(6AC)	ADDRESS	1		PARAMETER LIST FORMAT NUMBER
1709	(6AD)	ADDRESS	1		RESERVED
1710	(6AE)	BITSTRING	1		OPTIONS
1711	(6AF)	BITSTRING	1		OPTIONS
1712	(6B0)	ADDRESS	4		EXPLICIT LOAD, LOADPT, EXTINFO
1712	(6B0)	X'10'	0	DIMGLEN	"*-DIMGLOAD" Length of parm list
	1...			DIMG1ABD	"B'10000000'" IMAGE LOADER ABEND FLAG
	.1...			DIMG1DEL	"B'01000000'" DELETE RTN FLAG IN ESTAE
1712	(6B0)	X'7C'	0	DIMGLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 161. Cross Reference for \$DTEIMG

Name	Offset	Hex	Tag
DIMGABCC	648		
DIMGBFAD	644		
DIMGBYT3	638		63B
DIMGDCB	640		
DIMGFLG1	6A0		
DIMGLEN	6B0		7C
DIMGLEN	6B0		10
DIMGLOAD	6A4		
DIMGMSG	650		
DIMGNAME	638		
DIMGSDCB	64C		
DIMG1ABD	6B0		80
DIMG1DEL	6B0		40
DTE	0		

\$DTELIM information

\$DTELIM heading information

Common name:	HASP Resource Limits DTE Work Area
Macro ID:	\$DTELIM
DSECT name:	DTE (\$DTELIM is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DLIMLEN equate for the length of a Resource Limits DTE work area extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 Main Task initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTELIM field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the Resource Limits subtask DTEs. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the LIMITS subtask. Only one request may be processed at one time.
Function:	The HASP Resource Limits DTE work area, \$DTELIM, defines the \$DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. This subtask deals with resource limits and rates

\$DTELIM mapping

Table 162. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	
1592	(638)	CHARACTER	1	LIMSTART(0)	Start of LIM mapping
1592	(638)	ADDRESS	4	LIMPSTMN	Address of XECB subtask will post when work is complete.
1596	(63C)	BITSTRING	1	LIMFLAG1	Flags
		1...		LIM1BLD	"B'10000000'" \$LIMITS built this run
		.1..		LIM1CDCC	"B'01000000'" LIM CDCT CREATED this run
		..1.		LIM1MASV	"B'00100000'" LIM CDCT used for MASVIEW

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		LIM1TIMR	"B'00001000'" Gen timer pop this run
		.... .1..		LIM1MAIN	"B'00000100'" Main task req this run
		.... ..1.		LIM1COPY	"B'00000010'" SSI request this run
		.... 1111		LIM1PMSK	"B'00001111'" Mask of processing options that can occur
1597	(63D)	BITSTRING	1	LIMREQST	\$CMDLIMIT COM PCE request
		.... ....		LIMRNONE	"X'00'" No active request code
		.... .1..		LIMRDSPL	"X'04'" Create temp display CB
		.... 1...		LIMRUPDT	"X'08'" Update LIMITS control block data
1598	(63E)	SIGNED	2	LIMRECCT	Count of recovery attempts
1600	(640)	ADDRESS	4	LIMRSCWA	Address of SCWA for command request (LIMRDSPL)
1604	(644)	ADDRESS	4	LIMRHCT	Address of HCT
1608	(648)	ADDRESS	4	LIMRHCCT	Address of HCCT
1612	(64C)	SIGNED	4	LIMTGAVL	Copy of CCTTGAVL
1616	(650)	SIGNED	4	LIMJOAVL	Copy of CCTJOAVL
1620	(654)	ADDRESS	4	LIMSAVE	Address of save area used by called routine
1624	(658)	ADDRESS	4	LIMWMQA	Ptr and size of area used
1628	(65C)	SIGNED	4	LIMWMQL	for IWNWSYSQ calls
<p>HASPLIM subtask waits on a ECBLIST. This subtask has the responsibility of calculating various resource allocation information for the system and active jobs. The ECBs in the list funnel both:</p> <ul style="list-style-type: none"> -- Requests made of the subtask (via main task) -- and acknowledgements of requests which the HASPLIM subtask has outstanding. <p>This subtask is driven by the main task. Start of ECB list</p>					
1632	(660)	SIGNED	4	LIMECBL(0)	List of ECBs to wait on
1632	(660)	ADDRESS	4	LIMMAINT	Address of work ECB. Handles posts/requests from main task PCE.
1636	(664)	ADDRESS	4	LIMHEARP	Address of ECB for heart beat timer. Used to detect when to collate and calculate resource LIMITS data.
1640	(668)	ADDRESS	4	LIMPR LIM	Address of ECB for SSI 71 PRLIMIT request to copy LIMITS data.
<p>End of ECB list HASPLIM timer stuff</p>					
1644	(66C)	SIGNED	4	LIMGENE	ECB - LIMITS calculation general purpose timer
1648	(670)	SIGNED	4	LIMGENID	STIMERM ID=id-area of general purpose timer
1652	(674)	SIGNED	4	LIMHEARE	ECB - Heart beat timer
1656	(678)	SIGNED	4	LIMHEARI	STIMERM ID=id-area of heart beat timer
1660	(67C)	SIGNED	4	LIMPR LIE	ECB - PRLIMIT copy data req

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
End timer stuff LIMITS Subtask Data Request Queue Head and Tail designations for a queue of requests to the Limits subtask for a copy of the LIMITS CB. Requesters fill out a LIMCOPY request block, passing the address of storage where the data is copied, and FIFOENQ the block onto the request queue below and post the Limits subtask.					
1664	(680)	ADDRESS	4	LIMCHEAD	Head/Tail of
1668	(684)	ADDRESS	4	LIMCTAIL	LIMCOPY elements
1672	(688)	ADDRESS	4	LIMCLAST	Last LIMCOPY processed
HASPLIM Performance Statistics					
1676	(68C)	CHARACTER	8	LIMPLABL	Label for PERFDATA record
1684	(694)	SIGNED	4	LIMPRC28	Count of lock conflicts encountered by \$ARTERAT
1688	(698)	SIGNED	4	LIMPBLDC	BLDTENT invocation count
1692	(69C)	BITSTRING	4		Reserved
1696	(6A0)	DBL WORD	8	LIMPPRFS(0)	Perf stats for SUBSPERF
1696	(6A0)	DBL WORD	8	LIMPQTIM	Last req queue time (micro)
1704	(6A8)	DBL WORD	8	LIMPRTIM	Last req run time (micro)
1712	(6B0)	DBL WORD	8	LIMPCTIM	Last req CPU time (micro)
LIMITS Control Block work areas					
1720	(6B8)	ADDRESS	8	LIMITSCB	Address of buffer work area
1728	(6C0)	DBL WORD	8	LIMITSSZ	Number of 4K pages in area
1736	(6C8)	DBL WORD	8	LIMWTKN	IARV64 memory token
1744	(6D0)	DBL WORD	8	LIMWORK	General work area
1752	(6D8)	DBL WORD	8	LIMWRKA	Work area 1
1760	(6E0)	SIGNED	4	LIMWRKB	Work area 2
1764	(6E4)	ADDRESS	4	LIMPRAOB	Address of PRAOBJ copy in memory
1768	(6E8)	ADDRESS	8	LIMHIGHJ	Highest JQE address (CTENT)
1776	(6F0)	BITSTRING	2	LIMJQELN	Length of a JQE
1778	(6F2)	BITSTRING	2	LIMJQXLN	Length of a JQX
1780	(6F4)	BITSTRING	1	LIMJQEIN	Indicators from the job, to be saved in LIMTFLG1
		1...		LIMJQEXE	"B'10000000" Job is executing
		.1..		LIMJQNOT	"B'01000000" Job not executing on this member
		..1.		LIMJQTC0	"B'00100000" Job total resource count is zero
		...1		LIMTJQT0	"B'00010000" Job resource allocation rate is zero
		.... 1...		LIMJQLVL	"B'00001000" Job is executing on a downlevel member (and will not report the job)
1781	(6F5)	BITSTRING	1	LIMFLAG2	Processing flags
		1...		LIM2CNT	"B'10000000" Processing count tables
		.1..		LIM2RAT	"B'01000000" Processing rate tables
		..1.		LIM2PFC	"B'00100000" Processing perf counters

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1782	(6F6)	BITSTRING	1	LIMDIAGF	Diagnostics flags
		1...		LIMDBLDT	"B'10000000'" Issue BLDTENT events
		.1..		LIMDCPUD	"B'01000000'" Issue CPUDELTA events
		..1.		LIMDLOCK	"B'00100000'" Issue job level lock conflict events
1783	(6F7)	BITSTRING	1	LIMFLAG3	HASPLIM Subtask flags - do not reset
		1...		LIM3SYNC	"B'10000000'" LCDCTCPY set up for synch (use OIL/NIL to update)
1784	(6F8)	BITSTRING	1	LIMFLAG4	Resource limits flags
		1...		LIM4RCTG	"B'10000000'" Recalculate TG limits
		.1..		LIM4PSTG	"B'01000000'" POST TG rsrc event ECB
		..1.		LIM4RCJO	"B'00100000'" Recalculate JOE limits
		...1		LIM4PSJO	"B'00010000'" POST JOE rsrc event ECB
		.... 1...		LIM4SJUP	"B'00001000'" Skip JOE usage update
		.... ...1		LIM4RACT	"B'00000001'" Jobs found impacted by resource action
1785	(6F9)	BITSTRING	7		Reserved
1792	(700)	SIGNED	4	LIMTJQEC	In-use JQE count loop cnt1
1796	(704)	SIGNED	4	LIMTGNBR	Track groups work area
1800	(708)	SIGNED	4	LIMTHTIM	LIMITS heartbeat timer value
1804	(70C)	SIGNED	4	LIMTDELT	LIMITS CPUDELTA EVENT level
1808	(710)	ADDRESS	4	LIMTJQAA	Addr of last JQA acquired
1812	(714)	SIGNED	4	LIMTJQAL	ALET of last JQA acquired
The following fields track information for a copy of the LIMITS control block that is passed to the CDCT SYNCH service to update the LIM CDCT.					
1816	(718)	ADDRESS	8	LCDCTCPY	Address of LIMITS CB copy
1824	(720)	DBL WORD	8	LCDCTSSZ	Number of 4K pages in area
1832	(728)	DBL WORD	8	LCDCTTKN	IARV64 memory token
The following work fields are used as loop control protection, to set an upper limit of using NEXT addresses to look for the next element in a chain.					
1840	(730)	SIGNED	4	LIMBLCP1	Loop control protection 1
1844	(734)	SIGNED	4	LIMBLCP2	Loop control protection 2
1848	(738)	SIGNED	4	LIMBLCP3	Loop control protection 3
1852	(73C)	SIGNED	4	LIMBLCP4	Loop control protection 4
1856	(740)	SIGNED	4	LIMBLOV1	Loop overflow detected 1
1860	(744)	SIGNED	4	LIMBLOV2	Loop overflow detected 2
1864	(748)	SIGNED	4	LIMBLOV3	Loop overflow detected 3
1868	(74C)	SIGNED	4	LIMBLOV4	Loop overflow detected 4
The fields after LIMCALCR represent the "parameter list" required by CALCRATE to provide its linear regression calculations					
1872	(750)	DBL WORD	8	LIMCALCR(0)	Ensure alignment
1872	(750)	BITSTRING	16	LIMCNVLA	STCKCONV work area - Latest history TOD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1888	(760)	BITSTRING	16	LIMCNVOL	STCKCONV work area - Oldest history TOD
1904	(770)	BITSTRING	8	LIMSTCK	STCK work area
1912	(778)	DBL WORD	8	LIMSTODD	Sum of TOD deltas
1920	(780)	DBL WORD	8	LIMSTODS	Sum of TOD delta squares
1928	(788)	DBL WORD	8	LIMSRESC	Sum of resource counts
1936	(790)	DBL WORD	8	LIMSTRES	Sum of TOD delta times resource count
1944	(798)	DBL WORD	8	LIMYINTR	Y intercept of resource count axis
1952	(7A0)	DBL WORD	8	LIMSLOPE	Slope of linear regr line
1960	(7A8)	SIGNED	4	LIMTOTEN	Total entries tabulated
1960	(7A8)	X'5C'	0	LIMCALCI	"*-LIMCALCR" Length of LIMCALCR parms to initialize
1964	(7AC)	SIGNED	4	LIMRESMX	Resource maximum count
1968	(7B0)	BITSTRING	1	LIMRESTY	Resource type assoc with LIMCALCR data
1969	(7B1)	BITSTRING	3		Reserved
1969	(7B1)	X'64'	0	LIMCALCL	"*-LIMCALCR" Length of LIMCALCR parms
MACDATE = 08/19/88					
1972	(7B4)	BITSTRING	24	LIMSTMST	REMOTE STIMER SET PARM LIST
1972	(7B4)	X'18'	0	LIMSTMSL	"*-LIMSTMST" List form length
Address and copy of DSERV area from the \$DSERV call					
1996	(7CC)	ADDRESS	4	LIMDSERA	Addr of DSERV area
2000	(7D0)	BITSTRING	1	LIMDSRPL	DSERV area
Register save areas for BLDTENT routine					
2296	(8F8)	SIGNED	8	LIMDSAVE(16)	Save area for 64 bit regs
2424	(978)	ADDRESS	4	LIMDARSV(16)	Save area for 16 ARs
List form macros for JESXCF and other services					
2488	(9B8)	DBL WORD	8	(0)	
2488	(9B8)	BITSTRING	256	LIMIXLST	JESXCF list form macros
2744	(AB8)	DBL WORD	8	LIMIXEND(0)	End of list form area
----- IXZXIXAT MF=(L,LIMXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'9B8'	0	M00M1298	"LIMXIXAT" ++ IXZXIXAT NAME
2488	(9B8)	DBL WORD	8	LIMXIXAT(0)	++ IXZXIXAT PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXAT_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXAT_XEYECATCH	++ CONSTANT
2495	(9BF)	CHARACTER	1	LIMXIXAT_XRSV0001	++ RESERVED
2496	(9C0)	CHARACTER	8	LIMXIXAT_XGROUP	++
2504	(9C8)	CHARACTER	16	LIMXIXAT_XMEMBER	++
2520	(9D8)	CHARACTER	8	LIMXIXAT_XRELEASE	++
2528	(9E0)	SIGNED	4	LIMXIXAT_XMAINTLVL	++ CONSTANT
2532	(9E4)	SIGNED	4	LIMXIXAT_XGROUPTOKEN	++

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2536	(9E8)	BITSTRING	1	LIMXIXAT_XFLAG1	++ FIELD_LABEL
		1... ..		LIMXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1.. ..		LIMXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		LIMXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		LIMXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		LIMXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		LIMXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		LIMXIXAT_XWHICHJES_J2SP00L	"B'00000010'" ++ XWHICHJES.J2SP00L KEYWORD
2537	(9E9)	BITSTRING	1	LIMXIXAT_XFLAG2	++ FIELD_LABEL
		1... ..		LIMXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1.. ..		LIMXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
2538	(9EA)	CHARACTER	2	LIMXIXAT_XRSV0002	++ RESERVED
2540	(9EC)	SIGNED	4	LIMXIXAT_XDIAG	++
2544	(9F0)	CHARACTER	8	LIMXIXAT_XLINKPARMS	++ FIELD_LABEL
2544	(9F0)	X'40'	0	LIMXIXATL	"*-LIMXIXAT" ++ LENGTH OF PLIST
IXZXIXAT-6					
2552	(9F8)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXAC MF=(L,LIMXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'9B8'	0	M00M1300	"LIMXIXAC" ++ IXZXIXAC NAME
2488	(9B8)	DBL WORD	8	LIMXIXAC(0)	++ IXZXIXAC PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXAC_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2495	(9BF)	BITSTRING	1	LIMXIXAC_XSTB	++ INPUT
		1... ..		LIMXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1.. ..		LIMXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2496	(9C0)	BITSTRING	8	LIMXIXAC_XMSGTOKEN	++ XMSGTOKEN
2504	(9C8)	ADDRESS	4	LIMXIXAC_XDATA	++ XDATA
2508	(9CC)	SIGNED	4	LIMXIXAC_XDATALEN	++ XDATALEN
2512	(9D0)	SIGNED	4	LIMXIXAC_XUSERRC	++ XUSERRC
2516	(9D4)	SIGNED	4	LIMXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2520	(9D8)	SIGNED	4	LIMXIXAC_XSYSRC	++ XSYSRC
2524	(9DC)	SIGNED	4	LIMXIXAC_XSYSRSN	++ XSYSRSN
2528	(9E0)	BITSTRING	1	LIMXIXAC_XKEYS	++ FIELD_LABEL
		1... ..		LIMXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1.. ..		LIMXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		LIMXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1		LIMXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		LIMXIXAC_KEYUSED_SYSRN	"B'00001000'" ++ KEYUSED.SYSRN KEYWORD
2529	(9E1)	BITSTRING	1	LIMXIXAC_XMSGATTR	++ INPUT
		1...		LIMXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		LIMXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2529	(9E1)	X'2A'	0	LIMXIXACL	"*-LIMXIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
2530	(9E2)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMC MF=(L,LIMXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2530	(9E2)	SIGNED	2	M00M1301(0)	IXZXIXMC-1
2536	(9E8)	DBL WORD	8	LIMXIXMC(0)	++ IXZXIXMC PARM LIST
2536	(9E8)	BITSTRING	1	LIMXIXMC_XVERSION	++ INPUT XVERSION
2537	(9E9)	CHARACTER	6	LIMXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2543	(9EF)	BITSTRING	1	LIMXIXMC_XSTB	++ INPUT
		1...		LIMXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		LIMXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2544	(9F0)	CHARACTER	16	LIMXIXMC_XMBOXNAME	++ XMBOXNAME
2560	(A00)	SIGNED	4	LIMXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2560	(A00)	X'1C'	0	LIMXIXMCL	"*-LIMXIXMC" ++ LENGTH OF PLIST
IXZXIXMC-1					
2564	(A04)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMB MF=(L,LIMXIXMB) Create mailbox MACDATE -93/05/10-<1>					
2488	(9B8)	SIGNED	2	M00M1302(0)	IXZXIXMB-1
2488	(9B8)	DBL WORD	8	LIMXIXMB(0)	++ IXZXIXMB PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXMB_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2495	(9BF)	CHARACTER	1	LIMXIXMB_XRSV0001	++ RESERVED XRSV0001
2496	(9C0)	CHARACTER	16	LIMXIXMB_XMBOXNAME	++ XMBOXNAME
2512	(9D0)	ADDRESS	4	LIMXIXMB_XPOSTXIT	++ XPOSTXIT
2516	(9D4)	ADDRESS	4	LIMXIXMB_XPOSTDATA	++ XPOSTDATA
2520	(9D8)	SIGNED	4	LIMXIXMB_XPOSTALET	++ XPOSTALET
2524	(9DC)	SIGNED	4	LIMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2528	(9E0)	BITSTRING	1	LIMXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		LIMXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		LIMXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2528	(9E0)	X'29'	0	LIMXIXMBL	"*-LIMXIXMB" ++ LENGTH OF PLIST

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
IXZXIXMB-1					
2530	(9E2)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMD MF=(L,LIMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2488	(9B8)	SIGNED	2	M00M1303(0)	IXZXIXMD-1
2488	(9B8)	DBL WORD	8	LIMXIXMD(0)	++ IXZXIXMD PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXMD_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2495	(9BF)	BITSTRING	1	LIMXIXMD_XSTB	++ INPUT
		1...		LIMXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		LIMXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2496	(9C0)	CHARACTER	16	LIMXIXMD_XMBOXNAME	++ XMBOXNAME
2512	(9D0)	SIGNED	4	LIMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2512	(9D0)	X'1C'	0	LIMXIXMDL	"*-LIMXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
2516	(9D4)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXDT MF=(L,LIMXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
0	(0)	X'9B8'	0	M00M1304	"LIMXIXDT" ++ IXZXIXDT NAME
2488	(9B8)	DBL WORD	8	LIMXIXDT(0)	++ IXZXIXDT PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXDT_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
2495	(9BF)	CHARACTER	1	LIMXIXDT_XRSV0001	++ RESERVED XRSV0001
2496	(9C0)	ADDRESS	4	LIMXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
2500	(9C4)	CHARACTER	8	LIMXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
2500	(9C4)	X'14'	0	LIMXIXDTL	"*-LIMXIXDT" ++ LENGTH OF PLIST
IXZXIXDT-1					
2508	(9CC)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXRM MF=(L,LIMXIXRM) Receive message MACDATE -93/05/10-<1>					
2488	(9B8)	SIGNED	2	M00M1305(0)	IXZXIXRM-1
2488	(9B8)	DBL WORD	8	LIMXIXRM(0)	++ IXZXIXRM PARM LIST
2488	(9B8)	BITSTRING	1	LIMXIXRM_XVERSION	++ INPUT XVERSION
2489	(9B9)	CHARACTER	6	LIMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2495	(9BF)	CHARACTER	1	LIMXIXRM_XRSV0001	++ RESERVED XRSV0001
2496	(9C0)	CHARACTER	16	LIMXIXRM_XMBOXNAME	++ XMBOXNAME
2512	(9D0)	ADDRESS	4	LIMXIXRM_XDATA	++ XDATA
2516	(9D4)	SIGNED	4	LIMXIXRM_XDATALEN	++ XDATALEN
2520	(9D8)	BITSTRING	8	LIMXIXRM_XMSGTOKEN	++ XMSGTOKEN
2528	(9E0)	SIGNED	4	LIMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2532	(9E4)	BITSTRING	1	LIMXIXRM_XMSGFETCH	++ INPUT

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		LIMXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		LIMXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		LIMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		LIMXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2533	(9E5)	BITSTRING	1	LIMXIXRM_XKEYS	++ FIELD_LABEL
		1...		LIMXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2533	(9E5)	X'2E'	0	LIMXIXRML	"*-LIMXIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
2534	(9E6)	ADDRESS	2	(0)	Ensure area fits
----- IWMWSYSQ MF=(L,LIMWSYSQ) Query system information MACDATE -06/06/22-<3>					
0	(0)	X'9B8'	0	M00M1306	"LIMWSYSQ" ++ IWMWSYSQ NAME
2488	(9B8)	DBL WORD	8	LIMWSYSQ(0)	++ IWMWSYSQ PARM LIST
2488	(9B8)	CHARACTER	4	LIMWSYSQ_XACRO	++ CONSTANT
2492	(9BC)	BITSTRING	1	LIMWSYSQ_XVERSION	++ INPUT XVERSION
2493	(9BD)	CHARACTER	1	LIMWSYSQ_XRSV001	++ RESERVED
2494	(9BE)	BITSTRING	2	LIMWSYSQ_XPLISTLEN	++ INPUT
2496	(9C0)	SIGNED	4	LIMWSYSQ_XANSLEN	++
2500	(9C4)	SIGNED	4	LIMWSYSQ_XQUERYLEN	++
2504	(9C8)	CHARACTER	4	LIMWSYSQ_XRSV002	++ RESERVED
2508	(9CC)	ADDRESS	4	LIMWSYSQ_XSYSINFO_BLOCK	++
2512	(9D0)	CHARACTER	4	LIMWSYSQ_XRSV003	++ RESERVED
2516	(9D4)	CHARACTER	4	LIMWSYSQ_XRSV004	++ RESERVED
2520	(9D8)	BITSTRING	1	LIMWSYSQ_XSCQ_OPTIONS	++ FIELD_LABEL
		1...		LIMWSYSQ_XEXTENDED_DATA_YES	"B'10000000'" ++ XEXTENDED_DATA.YES KEYWORD
2521	(9D9)	CHARACTER	3	LIMWSYSQ_XRSV005	++ RESERVED
2521	(9D9)	X'24'	0	LIMWSYSQL	"*-LIMWSYSQ" ++ LENGTH OF PLIST
IWMWSYSQ-3					
2524	(9DC)	SIGNED	4	LIMWQQRY	Space for QRYLEN=
2528	(9E0)	SIGNED	4	LIMWQRC	Space for RETCODE=
2532	(9E4)	SIGNED	4	LIMWQRSN	Space for RSNCODE=
2536	(9E8)	ADDRESS	2	(0)	Ensure area fits
----- IARV64 MF=(L,LIMIR64L),PLISTVER=MAX IARV64 list form MACDATE -02/08/21-<6>					
0	(0)	X'9B8'	0	M00M1307	"LIMIR64L" ++ IARV64 NAME
2488	(9B8)	DBL WORD	8	LIMIR64L(0)	++ IARV64 PARM LIST

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2488	(9B8)	BITSTRING	1	LIMIR64L_XVERSION	++ INPUT XVERSION
2489	(9B9)	BITSTRING	1	LIMIR64L_XREQUEST	++ XREQUEST
2489	(9B9)	X'1'	0	LIMIR64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2489	(9B9)	X'2'	0	LIMIR64L_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2489	(9B9)	X'3'	0	LIMIR64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2489	(9B9)	X'4'	0	LIMIR64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2489	(9B9)	X'5'	0	LIMIR64L_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2489	(9B9)	X'6'	0	LIMIR64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2489	(9B9)	X'7'	0	LIMIR64L_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
2489	(9B9)	X'8'	0	LIMIR64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2489	(9B9)	X'9'	0	LIMIR64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2489	(9B9)	X'A'	0	LIMIR64L_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2489	(9B9)	X'B'	0	LIMIR64L_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2489	(9B9)	X'C'	0	LIMIR64L_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2489	(9B9)	X'D'	0	LIMIR64L_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2489	(9B9)	X'E'	0	LIMIR64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2489	(9B9)	X'F'	0	LIMIR64L_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2489	(9B9)	X'10'	0	LIMIR64L_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2489	(9B9)	X'11'	0	LIMIR64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2489	(9B9)	X'12'	0	LIMIR64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2489	(9B9)	X'13'	0	LIMIR64L_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
2490	(9BA)	BITSTRING	1	LIMIR64L_XFLAGS0	++ FIELD_LABEL
		1...		LIMIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		LIMIR64L_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		LIMIR64L_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2491	(9BB)	BITSTRING	1	LIMIR64L_XKEY	++
2492	(9BC)	BITSTRING	1	LIMIR64L_XFLAGS1	++ FIELD_LABEL
		1...		LIMIR64L_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		LIMIR64L_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		LIMIR64L_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		LIMIR64L_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		LIMIR64L_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		LIMIR64L_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		LIMIR64L_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		LIMIR64L_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2493	(9BD)	BITSTRING	1	LIMIR64L_XFLAGS2	++ FIELD_LABEL
		1...		LIMIR64L_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		LIMIR64L_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		LIMIR64L_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		LIMIR64L_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		LIMIR64L_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		LIMIR64L_XPAGEFRAME_SIZE_1MEG	"B'00000100'" ++ XPAGEFRAME_SIZE.1MEG KEYWORD
		.... ..1.		LIMIR64L_XPAGEFRAME_SIZE_MAX	"B'00000010'" ++ XPAGEFRAME_SIZE.MAX KEYWORD
		.... ...1		LIMIR64L_XPAGEFRAME_SIZE_ALL	"B'00000001'" ++ XPAGEFRAME_SIZE.ALL KEYWORD
2494	(9BE)	BITSTRING	1	LIMIR64L_XFLAGS3	++ FIELD_LABEL
		1...		LIMIR64L_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		LIMIR64L_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		LIMIR64L_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		LIMIR64L_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		LIMIR64L_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		LIMIR64L_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		LIMIR64L_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		LIMIR64L_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2495	(9BF)	BITSTRING	1	LIMIR64L_XFLAGS4	++ FIELD_LABEL
		1...		LIMIR64L_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		LIMIR64L_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		LIMIR64L_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		LIMIR64L_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		LIMIR64L_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		LIMIR64L_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		LIMIR64L_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		LIMIR64L_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2496	(9C0)	DBL WORD	8	LIMIR64L_XSEGMENTS	++
2504	(9C8)	CHARACTER	16	LIMIR64L_XTTOKEN	++
2520	(9D8)	DBL WORD	8	LIMIR64L_XUSERTKN	++
2528	(9E0)	ADDRESS	8	LIMIR64L_XORIGIN	++
2536	(9E8)	ADDRESS	8	LIMIR64L_XRANGLIST	++
2544	(9F0)	ADDRESS	8	LIMIR64L_XMEMOBJSTART	++
2552	(9F8)	SIGNED	4	LIMIR64L_XGUARDSIZE	++
2556	(9FC)	SIGNED	4	LIMIR64L_XCONVERTSIZE	++
2560	(A00)	SIGNED	4	LIMIR64L_XALETVALUE	++
2564	(A04)	SIGNED	4	LIMIR64L_XNUMRANGE	++
2568	(A08)	ADDRESS	4	LIMIR64L_XV64LISTPTR	++
2572	(A0C)	SIGNED	4	LIMIR64L_XV64LISTLENGTH	++
2576	(A10)	DBL WORD	8	LIMIR64L_XCONVERTSTART	++
2584	(A18)	DBL WORD	8	LIMIR64L_XCONVERTSIZE64	++
2592	(A20)	DBL WORD	8	LIMIR64L_XGUARDSIZE64	++
2600	(A28)	CHARACTER	8	LIMIR64L_XUSERTOKEN	++
2608	(A30)	BITSTRING	1	LIMIR64L_XDUMPPRIORITY	++
2609	(A31)	BITSTRING	1	LIMIR64L_XFLAGS5	++ FIELD_LABEL
		1...		LIMIR64L_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		LIMIR64L_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		LIMIR64L_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		LIMIR64L_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		LIMIR64L_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		LIMIR64L_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		LIMIR64L_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		LIMIR64L_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2610	(A32)	BITSTRING	1	LIMIR64L_XFLAGS6	++ FIELD_LABEL
		1...		LIMIR64L_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		LIMIR64L_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		LIMIR64L_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		LIMIR64L_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		LIMIR64L_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		LIMIR64L_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		LIMIR64L_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		LIMIR64L_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2611	(A33)	BITSTRING	1	LIMIR64L_XFLAGS7	++ FIELD_LABEL
		1...		LIMIR64L_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		LIMIR64L_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		LIMIR64L_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		LIMIR64L_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		LIMIR64L_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		LIMIR64L_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		LIMIR64L_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		LIMIR64L_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2612	(A34)	BITSTRING	1	LIMIR64L_XDUMP	++ XDUMP
2612	(A34)	X'0'	0	LIMIR64L_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
2612	(A34)	X'1'	0	LIMIR64L_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2612	(A34)	X'2'	0	LIMIR64L_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2612	(A34)	X'3'	0	LIMIR64L_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2612	(A34)	X'20'	0	LIMIR64L_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2612	(A34)	X'21'	0	LIMIR64L_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2612	(A34)	X'FF'	0	LIMIR64L_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2613	(A35)	BITSTRING	1	LIMIR64L_XFLAGS8	++ FIELD_LABEL
		1...		LIMIR64L_XPAGEFRAME_SIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAME_SIZE.PAGEABLE1MEG KEYWOR
		.1..		LIMIR64L_XPAGEFRAME_SIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAME_SIZE.DREF1MEG KEYWORD
		..1.		LIMIR64L_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		LIMIR64L_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		LIMIR64L_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		LIMIR64L_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		LIMIR64L_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		LIMIR64L_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2614	(A36)	BITSTRING	2	LIMIR64L_XOWNERASID	++
2616	(A38)	BITSTRING	1	LIMIR64L_XOPTIONVALUE	++
2617	(A39)	CHARACTER	8	LIMIR64L_XRSV0001	++ RESERVED
2625	(A41)	CHARACTER	8	LIMIR64L_XOWNERJOBNAME	++
2633	(A49)	CHARACTER	7	LIMIR64L_XRSV0004	++ RESERVED
2640	(A50)	ADDRESS	8	LIMIR64L_XMAPAGETABLE	++
2648	(A58)	DBL WORD	8	LIMIR64L_XUNITS	++
2656	(A60)	BITSTRING	1	LIMIR64L_XFLAGS9	++ FIELD_LABEL
		1...		LIMIR64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		LIMIR64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		LIMIR64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		LIMIR64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		LIMIR64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		LIMIR64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2657	(A61)	BITSTRING	1	LIMIR64L_XFLAGS10	++ FIELD_LABEL
		1...		LIMIR64L_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		LIMIR64L_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		LIMIR64L_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		LIMIR64L_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
2658	(A62)	BITSTRING	1	LIMIR64L_XFLAGS11	++ FIELD_LABEL
		1...		LIMIR64L_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1..		LIMIR64L_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		LIMIR64L_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
2659	(A63)	CHARACTER	5	LIMIR64L_XRSV0005	++ RESERVED
2659	(A63)	X'A68'	0	LIMIR64L_PL_END	"*" ++ END OF BASE PLIST
2520	(9D8)	DBL WORD	8	LIMIR64L_XOUTMOTKN	++
2520	(9D8)	DBL WORD	8	LIMIR64L_XMOTKN	++
2544	(9F0)	ADDRESS	8	LIMIR64L_XINORIGIN	++
2544	(9F0)	ADDRESS	8	LIMIR64L_XINADDR	++
2664	(A68)	X'B0'	0	LIMIR64LL	"*-LIMIR64L" ++ LENGTH OF PLIST
IARV64-6					
2664	(A68)	ADDRESS	8	LIMIRNGL(0)	Range list for PAGEFIX

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2664	(A68)	ADDRESS	8	LIMIRNGA	Address of area to fix
2672	(A70)	DBL WORD	8	LIMIRNGP	Number of pages to fix
2672	(A70)	X'9B8'	0	LIMIAR64	"LIMIR64L,*-LIMIR64L" IARV64 MF=L symbol/length
2680	(A78)	ADDRESS	2	(0)	Ensure area fits
----- STCKCONV MF=L STCKCONV list form MACDATE 05/30/98					
2488	(9B8)	SIGNED	4	LIMLISTF(0)	
2488	(9B8)	BITSTRING	28		
----- CONVTOD MF=L CONVTOD list form MACDATE 05/30/98					
2488	(9B8)	SIGNED	4	(0)	
2488	(9B8)	BITSTRING	32		
2488	(9B8)	CHARACTER	256	LIMWTOTX	Work area for messages
2744	(AB8)	X'638'	0	LIMCLEAR	"LIMSTART" Area to be zeroed
2744	(AB8)	DBL WORD	8	(0)	Ensure alignment
2744	(AB8)	X'480'	0	DLIMLEN	"*-DTEWORK" Length of work area

Table 163. Cross Reference for \$DTE LIM

Name	Offset	Hex Tag
DLIMLEN	AB8	480
DTE	0	
LCDCTCPY	718	
LCDCTSSZ	720	
LCDCTTKN	728	
LIMBLCP1	730	
LIMBLCP2	734	
LIMBLCP3	738	
LIMBLCP4	73C	
LIMBLOV1	740	
LIMBLOV2	744	
LIMBLOV3	748	
LIMBLOV4	74C	
LIMCALCI	7A8	5C
LIMCALCL	7B1	64
LIMCALCR	750	
LIMCHEAD	680	
LIMCLAST	688	
LIMCLEAR	AB8	638
LIMCNVLA	750	0
LIMCNVOL	760	0

Table 163. Cross Reference for \$DTELM (continued)

Name	Offset	Hex Tag
LIMCTAIL	684	
LIMDARSV	978	
LIMDBLDT	6F6	80
LIMDCPUD	6F6	40
LIMDIAGF	6F6	
LIMDLOCK	6F6	20
LIMDSAVE	8F8	
LIMDSERA	7CC	
LIMDSRPL	7D0	
LIMECBL	660	
LIMFLAG1	63C	
LIMFLAG2	6F5	
LIMFLAG3	6F7	
LIMFLAG4	6F8	
LIMGENE	66C	
LIMGENID	670	
LIMHEARE	674	
LIMHEARI	678	
LIMHEARP	664	
LIMHIGHJ	6E8	
LIMIAR64	A70	9B8
LIMIRNGA	A68	
LIMIRNGL	A68	
LIMIRNGP	A70	
LIMIR64L	9B8	
LIMIR64L_KEYUSED_CONVERTSIZE64	9BC	4
LIMIR64L_KEYUSED_CONVERTSTART	9BC	10
LIMIR64L_KEYUSED_DUMP	A33	80
LIMIR64L_KEYUSED_GUARDSIZE64	9BC	8
LIMIR64L_KEYUSED_INORIGIN	A61	80
LIMIR64L_KEYUSED_KEY	9BC	80
LIMIR64L_KEYUSED_MOTKN	9BC	2
LIMIR64L_KEYUSED_OBJECTTYPE	A62	80
LIMIR64L_KEYUSED_OPTIONVALUE	A33	40
LIMIR64L_KEYUSED_OWNERJOBNAME	9BC	1
LIMIR64L_KEYUSED_SENSITIVE	A61	10
LIMIR64L_KEYUSED_SVCUMPRGN	A33	20
LIMIR64L_KEYUSED_TTOKEN	9BC	20
LIMIR64L_KEYUSED_UNITS	A60	80

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMIR64L_KEYUSED_USERTKN	9BC	40
LIMIR64L_PL_END	A63	A68
LIMIR64L_XAFFINITY_SYSTEM	9BE	40
LIMIR64L_XALETVALUE	A00	
LIMIR64L_XAMOUNTSIZE_1MEG	A32	2
LIMIR64L_XAMOUNTSIZE_4K	A32	4
LIMIR64L_XATTRIBUTE_DEFS	A33	10
LIMIR64L_XATTRIBUTE_NOTOWNERGONE	A33	4
LIMIR64L_XATTRIBUTE_OWNERGONE	A33	8
LIMIR64L_XCHANGEACCESS_GLOBAL	9BD	8
LIMIR64L_XCLEAR_NO	9BF	40
LIMIR64L_XCOND_YES	9BD	80
LIMIR64L_XCONTROL_AUTH	9BD	20
LIMIR64L_XCONVERT_FROMGUARD	9BF	2
LIMIR64L_XCONVERT_TOGUARD	9BF	4
LIMIR64L_XCONVERTSIZE	9FC	
LIMIR64L_XCONVERTSIZE64	A18	
LIMIR64L_XCONVERTSTART	A10	
LIMIR64L_XDETACHFIXED_YES	A32	20
LIMIR64L_XDISCARDPAGES_YES	0	4
LIMIR64L_XMAPAGETABLE	A50	
LIMIR64L_XDOAUTHCHECKS_YES	A32	10
LIMIR64L_XDUMP	A34	
LIMIR64L_XDUMP_ALL	A34	FF
LIMIR64L_XDUMP_LIKECSA	A34	3
LIMIR64L_XDUMP_LIKELSQA	A34	21
LIMIR64L_XDUMP_LIKERGN	A34	20
LIMIR64L_XDUMP_LIKESQA	A34	2
LIMIR64L_XDUMP_NO	A34	1
LIMIR64L_XDUMP_NONE	A34	0
LIMIR64L_XDUMPPRIORITY	A30	
LIMIR64L_XDUMPPROTOCOL_YES	A31	80
LIMIR64L_XEXECUTABLE_NO	0	1
LIMIR64L_XEXECUTABLE_YES	0	2
LIMIR64L_XFLAGS0	9BA	
LIMIR64L_XFLAGS1	9BC	
LIMIR64L_XFLAGS10	A61	
LIMIR64L_XFLAGS11	A62	
LIMIR64L_XFLAGS2	9BD	

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMIR64L_XFLAGS3	9BE	
LIMIR64L_XFLAGS4	9BF	
LIMIR64L_XFLAGS5	A31	
LIMIR64L_XFLAGS6	A32	
LIMIR64L_XFLAGS7	A33	
LIMIR64L_XFLAGS8	A35	
LIMIR64L_XFLAGS9	A60	
LIMIR64L_XFPROT_NO	9BD	40
LIMIR64L_XGUARDLOC_HIGH	9BD	10
LIMIR64L_XGUARDSIZE	9F8	
LIMIR64L_XGUARDSIZE64	A20	
LIMIR64L_XINADDR	9F0	
LIMIR64L_XINORIGIN	9F0	
LIMIR64L_XKEEPREAL_NO	9BF	1
LIMIR64L_XKEY	9BB	
LIMIR64L_XLOCALSYSAREA_YES	A32	8
LIMIR64L_XLONG_NO	9BF	80
LIMIR64L_XMATCH_MOTOKEN	9BA	20
LIMIR64L_XMATCH_USERTOKEN	9BE	80
LIMIR64L_XMEMLIMIT_COND	A32	1
LIMIR64L_XMEMLIMIT_NO	A32	40
LIMIR64L_XMEMOBJSTART	9F0	
LIMIR64L_XMOTKN	9D8	
LIMIR64L_XMOTKNCREATOR_SYSTEM	9BA	40
LIMIR64L_XMOTKNSOURCE_SYSTEM	9BA	80
LIMIR64L_XNUMRANGE	A04	
LIMIR64L_XOBJECTTYPE_POOL	A62	40
LIMIR64L_XOBJECTTYPE_RSMINTERNAL	A62	20
LIMIR64L_XOPTIONVALUE	A38	
LIMIR64L_XORDER_DUMPPRIORITY	A31	40
LIMIR64L_XORIGIN	9E0	
LIMIR64L_XOUTMOTKN	9D8	
LIMIR64L_XOWNER_NO	9BE	10
LIMIR64L_XOWNERASID	A36	
LIMIR64L_XOWNERCOM_BYASID	A31	1
LIMIR64L_XOWNERCOM_HOME	A31	8
LIMIR64L_XOWNERCOM_PRIMARY	A31	4
LIMIR64L_XOWNERCOM_SYSTEM	A31	2
LIMIR64L_XOWNERJOBNAME	A41	

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMIR64L_XPAGEFRAMESIZE_ALL	9BD	1
LIMIR64L_XPAGEFRAMESIZE_DREF1MEG	0	40
LIMIR64L_XPAGEFRAMESIZE_MAX	9BD	2
LIMIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	A35	80
LIMIR64L_XPAGEFRAMESIZE_1M	A60	10
LIMIR64L_XPAGEFRAMESIZE_1MEG	9BD	4
LIMIR64L_XPAGEFRAMESIZE_2G	A60	8
LIMIR64L_XRANGLIST	9E8	
LIMIR64L_XREQUEST	9B9	
LIMIR64L_XREQUEST_CHANGEACCESS	9B9	B
LIMIR64L_XREQUEST_CHANGEATTRIBUTE	9B9	13
LIMIR64L_XREQUEST_CHANGEGUARD	9B9	D
LIMIR64L_XREQUEST_COUNTPAGES	9B9	10
LIMIR64L_XREQUEST_DETACH	9B9	3
LIMIR64L_XREQUEST_DISCARDATA	9B9	7
LIMIR64L_XREQUEST_GETCOMMON	9B9	F
LIMIR64L_XREQUEST_GETSHARED	9B9	2
LIMIR64L_XREQUEST_GETSTOR	9B9	1
LIMIR64L_XREQUEST_LIST	9B9	E
LIMIR64L_XREQUEST_PAGEFIX	9B9	4
LIMIR64L_XREQUEST_PAGEIN	9B9	8
LIMIR64L_XREQUEST_PAGEOUT	9B9	6
LIMIR64L_XREQUEST_PAGEUNFIX	9B9	5
LIMIR64L_XREQUEST_PCIEFIX	9B9	11
LIMIR64L_XREQUEST_PCIEUNFIX	9B9	12
LIMIR64L_XREQUEST_PROTECT	9B9	9
LIMIR64L_XREQUEST_SHAREMEMOBJ	9B9	A
LIMIR64L_XREQUEST_UNPROTECT	9B9	C
LIMIR64L_XRSV0001	A39	
LIMIR64L_XRSV0004	A49	
LIMIR64L_XRSV0005	A63	
LIMIR64L_XSADMP_NO	0	10
LIMIR64L_XSADMP_YES	0	20
LIMIR64L_XSEGMENTS	9C0	
LIMIR64L_XSENSITIVE_NO	A61	20
LIMIR64L_XSENSITIVE_YES	A61	40
LIMIR64L_XSVCDUMPRGN_ALL	9BE	1
LIMIR64L_XSVCDUMPRGN_NO	9BE	4
LIMIR64L_XTRACKINFO_YES	A33	2

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMIR64L_XTTOKEN	9C8	
LIMIR64L_XTYPE_DREF	A31	10
LIMIR64L_XTYPE_FIXED	A60	4
LIMIR64L_XTYPE_PAGEABLE	A31	20
LIMIR64L_XUNITS	A58	
LIMIR64L_XUNITSIZE_1M	A60	40
LIMIR64L_XUNITSIZE_2G	A60	20
LIMIR64L_XUNLOCKED_YES	A33	1
LIMIR64L_XUSERTKN	9D8	
LIMIR64L_XUSERTOKEN	A28	
LIMIR64L_XUSE2GT032G_YES	9BE	20
LIMIR64L_XUSE2GT064G_YES	0	8
LIMIR64L_XVERSION	9B8	
LIMIR64L_XVIEW_HIDDEN	9BF	8
LIMIR64L_XVIEW_READONLY	9BF	20
LIMIR64L_XVIEW_SHAREDWRITE	9BF	10
LIMIR64L_XV64COMMON_NO	A32	80
LIMIR64L_XV64LISTLENGTH	A0C	
LIMIR64L_XV64LISTPTR	A08	
LIMIR64L_XV64SELECT_NO	9BE	8
LIMIR64L_XV64SHARED_NO	9BE	2
LIMIR64LL	A68	B0
LIMITSCB	6B8	
LIMITSSZ	6C0	
LIMIXEND	AB8	
LIMIXLST	9B8	
LIMJOAVL	650	
LIMJQEIN	6F4	
LIMJQELN	6F0	
LIMJQEXE	6F4	80
LIMJQLVL	6F4	8
LIMJQNOT	6F4	40
LIMJQTC0	6F4	20
LIMJQXLN	6F2	
LIMLISTF	9B8	
LIMMAINT	660	
LIMPBLDC	698	
LIMPCTIM	6B0	
LIMPLABL	68C	

Table 163. Cross Reference for \$DTELM (continued)

Name	Offset	Hex Tag
LIMPPRFS	6A0	
LIMPQTIM	6A0	
LIMPRA0B	6E4	
LIMPRC28	694	
LIMPRLIE	67C	
LIMPRLIM	668	
LIMPRTIM	6A8	
LIMPSTMN	638	
LIMRDSPL	63D	4
LIMRECCT	63E	
LIMREQST	63D	0
LIMRESMX	7AC	
LIMRESTY	7B0	
LIMRHCCT	648	
LIMRHCT	644	
LIMRNONE	63D	0
LIMRSCWA	640	
LIMRUPDT	63D	8
LIMSAVE	654	
LIMSLOPE	7A0	
LIMSRESC	788	
LIMSTART	638	
LIMSTCK	770	0
LIMSTMSL	7B4	18
LIMSTMST	7B4	0
LIMSTODD	778	
LIMSTODS	780	
LIMSTRES	790	
LIMTDELT	70C	
LIMTGAVL	64C	
LIMTGNBR	704	
LIMTHTIM	708	
LIMTJQAA	710	
LIMTJQAL	714	
LIMTJQEC	700	
LIMTJQT0	6F4	10
LIMTOTEN	7A8	
LIMWMQA	658	
LIMWMQL	65C	

Table 163. Cross Reference for \$DTELM (continued)

Name	Offset	Hex Tag
LIMWORK	6D0	
LIMWQQR	9DC	
LIMWQRC	9E0	
LIMWQRSN	9E4	
LIMWRKA	6D8	0
LIMWRKB	6E0	
LIMWSYSQ	9B8	
LIMWSYSQ_XACRO	9B8	
LIMWSYSQ_XANSLEN	9C0	
LIMWSYSQ_XEXTENDED_DATA_YES	9D8	80
LIMWSYSQ_XPLISTLEN	9BE	
LIMWSYSQ_XQUERYLEN	9C4	
LIMWSYSQ_XRSV001	9BD	
LIMWSYSQ_XRSV002	9C8	
LIMWSYSQ_XRSV003	9D0	
LIMWSYSQ_XRSV004	9D4	
LIMWSYSQ_XRSV005	9D9	
LIMWSYSQ_XSCQ_OPTIONS	9D8	
LIMWSYSQ_XSYSINFO_BLOCK	9CC	
LIMWSYSQ_XVERSION	9BC	
LIMWSYSQL	9D9	24
LIMWTKN	6C8	
LIMWTOTX	9B8	
LIMXIXAC	9B8	
LIMXIXAC_KEYUSED_DATA	9E0	80
LIMXIXAC_KEYUSED_DATALEN	9E0	40
LIMXIXAC_KEYUSED_SYSRC	9E0	10
LIMXIXAC_KEYUSED_SYSRN	9E0	8
LIMXIXAC_KEYUSED_USERRC	9E0	20
LIMXIXAC_XDATA	9C8	
LIMXIXAC_XDATALEN	9CC	
LIMXIXAC_XEYECATCH	9B9	
LIMXIXAC_XGROUPTOKEN	9D4	
LIMXIXAC_XKEYS	9E0	
LIMXIXAC_XMSGATTR	9E1	
LIMXIXAC_XMSGATTR_EXPRESS	9E1	40
LIMXIXAC_XMSGATTR_J3CONNECT	9E1	80
LIMXIXAC_XMSGTOKEN	9C0	
LIMXIXAC_XSTB	9BF	

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMXIXAC_XSTB_NO	9BF	80
LIMXIXAC_XSTB_YES	9BF	40
LIMXIXAC_XSYSRC	9D8	
LIMXIXAC_XSYSRSN	9DC	
LIMXIXAC_XUSERRC	9D0	
LIMXIXAC_XVERSION	9B8	
LIMXIXACL	9E1	2A
LIMXIXAT	9B8	
LIMXIXAT_XDIAG	9EC	
LIMXIXAT_XEYECATCH	9B9	
LIMXIXAT_XFLAG1	9E8	
LIMXIXAT_XFLAG2	9E9	
LIMXIXAT_XGROUP	9C0	
LIMXIXAT_XGROUPTOKEN	9E4	
LIMXIXAT_XJ3CONNECT_NO	9E9	80
LIMXIXAT_XJ3CONNECT_YES	9E9	40
LIMXIXAT_XLINKPARMS	9F0	
LIMXIXAT_XMAINTLVL	9E0	
LIMXIXAT_XMEMBER	9C8	
LIMXIXAT_XRELEASE	9D8	
LIMXIXAT_XRSV0001	9BF	
LIMXIXAT_XRSV0002	9EA	
LIMXIXAT_XVERSION	9B8	
LIMXIXAT_XWHICHJES_COMMON	9E8	8
LIMXIXAT_XWHICHJES_INIT	9E8	10
LIMXIXAT_XWHICHJES_JES2	9E8	80
LIMXIXAT_XWHICHJES_JES3	9E8	40
LIMXIXAT_XWHICHJES_J2SP00L	9E8	2
LIMXIXAT_XWHICHJES_J3CIFSS	9E8	4
LIMXIXAT_XWHICHJES_J3FSS	9E8	20
LIMXIXATL	9F0	40
LIMXIXDT	9B8	
LIMXIXDT_XEYECATCH	9B9	
LIMXIXDT_XGROUPTOKEN	9C0	
LIMXIXDT_XLINKPARMS	9C4	
LIMXIXDT_XRSV0001	9BF	
LIMXIXDT_XVERSION	9B8	
LIMXIXDTL	9C4	14
LIMXIXMB	9B8	

Table 163. Cross Reference for \$DTELM (continued)

Name	Offset	Hex Tag
LIMXIXMB_XEYECATCH	9B9	
LIMXIXMB_XGROUPTOKEN	9DC	
LIMXIXMB_XMBOXNAME	9C0	
LIMXIXMB_XPOSTALET	9D8	
LIMXIXMB_XPOSTDATA	9D4	
LIMXIXMB_XPOSTXIT	9D0	
LIMXIXMB_XRSV0001	9BF	
LIMXIXMB_XSYSEVENT_NO	9E0	40
LIMXIXMB_XSYSEVENT_YES	9E0	80
LIMXIXMB_XSYSEVENTS	9E0	
LIMXIXMB_XVERSION	9B8	
LIMXIXMBL	9E0	29
LIMXIXMC	9E8	
LIMXIXMC_XEYECATCH	9E9	
LIMXIXMC_XGROUPTOKEN	A00	
LIMXIXMC_XMBOXNAME	9F0	
LIMXIXMC_XSTB	9EF	
LIMXIXMC_XSTB_NO	9EF	80
LIMXIXMC_XSTB_YES	9EF	40
LIMXIXMC_XVERSION	9E8	
LIMXIXMCL	A00	1C
LIMXIXMD	9B8	
LIMXIXMD_XEYECATCH	9B9	
LIMXIXMD_XGROUPTOKEN	9D0	
LIMXIXMD_XMBOXNAME	9C0	
LIMXIXMD_XSTB	9BF	
LIMXIXMD_XSTB_NO	9BF	80
LIMXIXMD_XSTB_YES	9BF	40
LIMXIXMD_XVERSION	9B8	
LIMXIXMDL	9D0	1C
LIMXIXRM	9B8	
LIMXIXRM_KEYUSED_MSGFETCH	9E5	80
LIMXIXRM_XDATA	9D0	
LIMXIXRM_XDATALEN	9D4	
LIMXIXRM_XEYECATCH	9B9	
LIMXIXRM_XGROUPTOKEN	9E0	
LIMXIXRM_XKEYS	9E5	
LIMXIXRM_XMBOXNAME	9C0	
LIMXIXRM_XMSGFETCH	9E4	

Table 163. Cross Reference for \$DTELIM (continued)

Name	Offset	Hex Tag
LIMXIXRM_XMSGFETCH_ACKS	9E4	10
LIMXIXRM_XMSGFETCH_ALL	9E4	80
LIMXIXRM_XMSGFETCH_MESSAGES	9E4	40
LIMXIXRM_XMSGFETCH_SYSEVENT	9E4	20
LIMXIXRM_XMSGTOKEN	9D8	
LIMXIXRM_XRSV0001	9BF	
LIMXIXRM_XVERSION	9B8	
LIMXIXRML	9E5	2E
LIMYINTR	798	
LIM1BLD	63C	80
LIM1CDCC	63C	40
LIM1COPY	63C	2
LIM1MAIN	63C	4
LIM1MASV	63C	20
LIM1PMSK	63C	F
LIM1TIMR	63C	8
LIM2CNT	6F5	80
LIM2PFC	6F5	20
LIM2RAT	6F5	40
LIM3SYNC	6F7	80
LIM4PSJ0	6F8	10
LIM4PSTG	6F8	40
LIM4RACT	6F8	1
LIM4RCJ0	6F8	20
LIM4RCTG	6F8	80
LIM4SJUP	6F8	8
M00M1298	0	9B8
M00M1300	0	9B8
M00M1301	9E2	
M00M1302	9B8	
M00M1303	9B8	
M00M1304	0	9B8
M00M1305	9B8	
M00M1306	0	9B8
M00M1307	0	9B8

\$DTEMIGR information

\$DTEMIGR heading information

Common name:	HASP Spool Migrator DTE Work Area
Macro ID:	\$DTEMIGR
DSECT name:	DTE (\$DTEMIGR is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: See \$DTE Key: See \$DTE Residency: See \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and MGRLEN for the length of a Spool Migrator Work Area DTE Extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 spool migration. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTEMIG field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the first HOSMIGR DTE. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This work area is used serially by the owning HOSMIGR subtask. No special serialization is necessary at this time.
Function:	The Spool Migrator DTE work area DSECT, \$DTEMIGR, defines a work area used a JES2 Spool Migrator Subtask (HOSMIGR). The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDMGR in the field DTESTID, indicating this DTE is a Spool Migrator Subtask DTE.

\$DTEMIGR mapping

Table 164. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migrator work area
1592	(638)	CHARACTER	1	MGRSTART(0)	Start of MGR mapping
1592	(638)	ADDRESS	4	MGPSTSPL	Address of XECB subtask will post when work is complete.

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SPOL PCE drives the migration: Migration request flag - only set by SPOL PCE The SPOL PCE waits for the following operations to complete. Each should be very quick. -- Migration initialization -- Migration cancel start -- Migration un-initiation but not: -- Perform phase 1 (SPOL PCE monitors completion) -- Perform phase 2 " " " -- Migration cancel (SPOL PCE monitors completion)					
1596	(63C)	BITSTRING	1	MGR1REQU	Migration request
		.... ....		MGR1NORE	"X'00'" No active request
		.... .1..		MGR1INIT	"X'04'" Migration initialization
		.... 1...		MGR1PHA1	"X'08'" Perform phase 1
		.... 11..		MGR1PHA2	"X'0C'" Perform phase 2
		...1		MGR1UNIN	"X'10'" Migration un-initialization
		...1 .1..		MGR1CANC	"X'14'" Migration cancel
Subtask error flag 1: Set by migrator subtask. for interpretation by SPOL PCE.					
1597	(63D)	BITSTRING	1	MG1ERFL1	Subtask error flag 1 - set by subtask for SPOL information/action.
		1...		MG1ERABN	"B'10000000'" Sub-task ABENDED
		.1..		MG1MGBAD	"B'01000000'" MG\$VOLSER mailbox could not be created.
		..1.		MG1RNBAD	"B'00100000'" RN\$VOLSER mailbox could not be created.
		...1		MG1BITMB	"B'00010000'" Track level bitmap(s) could not be created.
		.... 1...		MGATTACH	"B'00001000'" Attach of unique XCF group failed.
HOSPMIGR subtask waits on a ECBLIST. This subtask has the responsibility of moving data from source to target. The ECBs in the list funnel both: -- Requests made of the subtask (via SPOL PCE) -- and acknowledgements of requests which the HOSPMIGR subtask has outstanding. This subtask is driven by the SPOL PCE and the migration state kept in the source DAS. Start of ECB list					
1600	(640)	SIGNED	4	MGECBLST(0)	List of ECBs to wait on
1600	(640)	ADDRESS	4	MGSPOLP	Address of work ECB. Handles posts/ requests from SPOL PCE.
1604	(644)	SIGNED	4	MGECBLS2(0)	Start ECB for cancel
1604	(644)	ADDRESS	4	MGGENERP	Address of ECB for general timer. Posted when set time interval expires.
1608	(648)	ADDRESS	4	MGHEARTP	Address of ECB for heart beat timer. Used to broadcast migrator info on a timely basis and check for excessive waits.
1612	(64C)	ADDRESS	4	MGMGVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from spool assistant subtasks. Mail box name - MG\$VOLSER.

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1616	(650)	ADDRESS	4	MGRNVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from MAS member runtime I/O. Mailbox name - RN\$VOLSER.
1620	(654)	ADDRESS	4	MGRNIOP	Address of ECB for I/O I/O completion processing. This ECB is posted when a call to MIGRCOPY is needed.
1624	(658)	ADDRESS	4	MGRNXRQP	Address of ECB for I/O permission completion. This ECB is posted when an XREQ is added to the completed XREQ queue.
End of ECB list					
1628	(65C)	BITSTRING	4	MGRNOCMP	Current "memb active table" used to track acknowledgements from migration assistant members. Used to track ACKS for following phase transitions. -- Start phase 1 -- Start phase 2 -- End migration -- Cancel migration
1632	(660)	BITSTRING	4	MGRMGSTS	Current "memb active table" used to broadcast migr status message to migration assistants
1636	(664)	BITSTRING	4	MGACTIONPY	Copy of original "member @Z21AQ active table" used to @Z21AQ broadcast messages to migration assistants. Used for DIAG.
1640	(668)	SIGNED	4	MSEXITID	Unique exit ID for \$MSTNTFY service
HOSPMIGR timer stuff					
1644	(66C)	SIGNED	4	MSEXENERE	ECB - Phase 1 and cancel general purpose timer
1648	(670)	SIGNED	4	MSEXNEID	STIMER ID=id-area of general purpose timer
1652	(674)	SIGNED	4	MSEXEARTE	ECB - Heart beat timer
1656	(678)	SIGNED	4	MSEXEARID	STIMER ID=id-area of heart beat timer
End timer stuff					
1660	(67C)	SIGNED	4	(0)	Ensure alignment
1664	(680)	DBL WORD	8	MGRWRKA	Work area 1
1672	(688)	SIGNED	4	MGRWRKB	Work area 2
1676	(68C)	ADDRESS	4	MGRSMOJB	Temporary holding area for migration object address
Following is used to cut selective WTO when source and/or target datasets are lost during phase 1 or phase 2 processing.					
1680	(690)	BITSTRING	1	MGPATHL	Path lost indicator
		1... ..		MGPATHS	"B'10000000" Path to SRC dataset lost
		.1.. ..		MGPATHT	"B'01000000" Path to TARG dataset lost
		..1.		MGPERRR	"B'00100000" Recovery TLBM read error
		...1		MGPWTLB	"B'00010000" TLBM write error
1681	(691)	BITSTRING	3		Reserved for future use

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Excessive wait accumulator - 1/100 sec granularity					
1684	(694)	SIGNED	2	MGEWAIT	Wait time
1686	(696)	BITSTRING	2		Reserved for future use
1688	(698)	SIGNED	4	(7)	Reserved for future use
Migration specific information (General info)					
1716	(6B4)	BITSTRING	1	MGRFLG3	Migration specifics
		1...		MGR3MER	"B'10000000" Migration is a merge
		.1..		MGR3MOV	"B'01000000" Migration is a move
		..1.		MGRNOCA	"B'00100000" Migration cannot be cancelled.
		...1		MGR3CANC	"B'00010000" Migration is being cancelled.
		.... 1...		MGR3CACK	"B'00001000" Cancel ACK has been recv'ed from all assistants.
Phase 1 status flags - phase 1 is complete when all conditions are satisfied.					
1717	(6B5)	BITSTRING	1	MGRFLG4	Phase 1 status flags
		1...		MGR4COPY	"B'10000000" Source to target copy is complete
		.1..		MGR4PH1A	"B'01000000" All migration assistants have acknowledge start of phase 1 processing
		..1.		MGR4WAIS	"B'00100000" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
Phase 2 status flags - phase 2 is complete when all conditions are satisfied.					
1718	(6B6)	BITSTRING	1	MGRFLG5	Phase 2 status flags
		1...		MGR5PH2A	"B'10000000" All migration assistants have acknowledged start of phase 2 processing
		.1..		MGR5CATC	"B'01000000" Source to target catchup is complete
		..1.		MGR5COMP	"B'00100000" All migration assistants have acknowledged successful migration completion.
		...1		MGR5CLER	"B'00010000" RN\$VOLSER mailbox has been cleared in SMGPHAS2 and/or SMGCANCE subroutine.
		.... 1...		MGR5WAIT	"B'00001000" Phase 2 final wait is complete.
		.... .1..		MGR5WAIS	"B'00000100" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		.... ..1.		MGR5TSET	"B'00000010" Phase 2 final timer has been set.
		.... ...1		MGR5TLBM	"B'00000001" TLBM has been written

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Phase 2 status flag - second status flag all conditions are satisfied.					
1719	(6B7)	BITSTRING	1	MGRFLG52	Phase 2 - second status flg
		1...		MGR52PER	"B'10000000" Permanent I/O error was was encountered and WTOR presented to operator. ForceComplete was selected so do not ask user again.
		.1..		MGR5CACK	"B'01000000" Phase 2 was called in recovery/resume mode and determined migration is not cancellable. Phase 2 resumes operation
Cancellation status flags - cancellation is complete when all conditions are satisfied.					
1720	(6B8)	BITSTRING	1	MGRFLG6	Phase 1 status flags
		1...		MGR6TSET	"B'10000000" Cancel final timer has been set.
1721	(6B9)	BITSTRING	1	MGRPERCE	Percent complete
Source dataset information -- Set by SPOL PCE after HOSPMIGR is attached and before subtask initiation request. -- Move and merge.					
1722	(6BA)	CHARACTER	6	MGRSRVOL	Source volser
1728	(6C0)	BITSTRING	1	MGRSREXT	Binary extent number
1732	(6C4)	SIGNED	4	(0)	Ensure alignment
1732	(6C4)	BITSTRING	1	MGRSRDEB	Source DEB
1732	(6C4)	X'6C4'	0	MGRSRDBB	"MGRSRDEB,DEBBASIZ" DEB basic
1732	(6C4)	X'6E4'	0	MGRSRDBE	"MGRSRDEB+DEBBASIZ,DEBEXLEN" Single DA extent
1780	(6F4)	BITSTRING	64	MGRSRRPS	RPS Table for source
1844	(734)	ADDRESS	4	MGRSRDAS	Source DAS address
Bitmap information for source dataset. -- The following fields are set during subtask initiation. -- Valid for move and merge. Bitmaps. - Phase 1 bitmap denotes which tracks need be migrated from source to target. Bitmap is primed by with used tracks by SPOL PCE in DAS7SET2 (move) or DAS7SET3 (merge). This map is used for initial source to target copy. 1 bit -> 1 track. - Runtime bitmap - used to tally which tracks have changed since the migration begin. Map is used in phase 2 in determining which tracks must be re-migrated or caught up.					
1848	(738)	DBL WORD	8	(0)	Ensure alignment
1848	(738)	ADDRESS	8	MGRSBITA	Address of phase 1 bitmap in 64 bit private.
1856	(740)	ADDRESS	8	MGRSBITB	Address of runtime bitmap in 64 bit private.
1864	(748)	SIGNED	4	MGRSBTRK	Track capacity of bitmap
1868	(74C)	SIGNED	4	MGRSBITR	Number of records needed to store the track level bitmap (MGRSBITB)
1872	(750)	SIGNED	4	MGRNUMRQ	Total number of tracks which must be migrated for this migration.

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1876	(754)	SIGNED	4	MGRNUMMG	Number of tracks that have been migrated
1880	(758)	SIGNED	4	MGRMIGRC	Number of tracks required on target dataset to house master level bitmap and other migrator recovery data.
1884	(75C)	SIGNED	4	MGRSBTAS	Relative track at which the track level bitmap starts on target volume
1888	(760)	ADDRESS	4	MGRBMHDR	Header areas for runtime bitmap (one entry per record written to SP00L)
1892	(764)	SIGNED	4	MGRBMHDL	Length of MGRBMHDR workarea
Source dataset track level information. All fields are relevant for move and merge.					
1896	(768)	SIGNED	4	(0)	Ensure alignment
1896	(768)	SIGNED	4	MGASRCST	Absolute track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1900	(76C)	SIGNED	4	MGRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing.
1904	(770)	SIGNED	4	MGASRCHI	Highwater track - last ABSOLUTE source track which needs to be written. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1908	(774)	SIGNED	4	MGRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
1912	(778)	SIGNED	4	MGRSRTRC	Tracks per cylinder
Source DAS TG information - Move and Merge					
1916	(77C)	SIGNED	4	MGRSRBYT	Original number of source TGM bytes.
1920	(780)	SIGNED	4	MGRHITG	Source DAS TG associated with highwater mark.
Source DAS record level information - Move and merge.					
1924	(784)	SIGNED	4	MGRSRECT	Number of records per track
Other source dataset information					
1928	(788)	BITSTRING	1	MGRSRINF	Info
		1... ..		MGRALLOC	"B'10000000" Migrator allocated SRC DAS dataset in phase DAS7SET1. Will need to be deallocated in phase DAS7CLUP (backout or non-backout caller). Set by SPOL PCE during phase DAS7SET1.
		.1..		MGRSRREL	"B'01000000" Source DAS addressing type is relative. If not set then type is absolute.
		..1.		MGRSECKD	"B'00100000" Extent is on ECKD device
		...1		MGRSRDTD	"B'00010000" Extent supports read track data CCW

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		MGRSWTRD	"B'00001000'" Extent supports write track data CCW
Following fields are used if the source dataset must be deallocated in phase DAS7CLU1. This would be required if the source DAS was inactive state. This state is denoted by MGRSRINF = MGRALLOC.					
129	(789)	BITSTRING	32	MGRENQTK	ISGENQ token - Set by SPOL PCE - phase DAS7SET1.
164	(7AC)	SIGNED	4	(0)	Ensure alignment
End of source dataset information Target dataset information -- Move and merge. SPOL PCE sets all target information before phase 1 start. Set at size verification time in phase DAS7SET2 or DAS7SET3.					
164	(7AC)	CHARACTER	6	MGRTGVOL	Target volser. Set by SPOL PCE after HOSPMIGR is attached.
170	(7B2)	BITSTRING	1	MGRTGEXT	BINARY EXTENT NUMBER
172	(7B4)	SIGNED	4	(0)	Ensure alignment DATA CONTROL BLOCK
172	(7B4)	SIGNED	4	MGRDCBMF(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
172	(7B4)	ADDRESS	4		DCBE ADDRESS
176	(7B8)	BITSTRING	12		FDAD, DVTBL
188	(7C4)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
192	(7C8)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
193	(7C9)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
196	(7CC)	ADDRESS	2		BUFL, BUFFER LENGTH
198	(7CE)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
200	(7D0)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
204	(7D4)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
205	(7D5)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
208	(7D8)	BITSTRING	1		RECFM (RECORD FORMAT)
209	(7D9)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
2012	(7DC)	CHARACTER	8		DDNAME
2020	(7E4)	BITSTRING	1		OFLGS (OPEN FLAGS)
2021	(7E5)	BITSTRING	1		IFLGS (IOS FLAGS)
2022	(7E6)	BITSTRING	2		MACR (MACRO FORMAT)
DATA CONTROL BLOCK EXTENSION.					
2024	(7E8)	SIGNED	4	MGRDCBE(0)	0 Alignment and identifier
2028	(7EC)	SIGNED	2		4 DCBE V0 length, min is 56'
2030	(7EE)	BITSTRING	2		6 Reserved, should be zero
2032	(7F0)	ADDRESS	4		8 0 if not open, OPEN points to DCB
2036	(7F4)	BITSTRING	4		C Disk address of current member
2040	(7F8)	BITSTRING	1		10 Flags set by system
2041	(7F9)	BITSTRING	1		11 Flags set by user

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2042	(7FA)	SIGNED	2		12 Number of stripes if extended format
2044	(7FC)	BITSTRING	1		14 Flags set by user
2045	(7FD)	BITSTRING	1		15 Flags
2046	(7FE)	BITSTRING	2		16 Reserved
2048	(800)	BITSTRING	4		18 Reserved
2052	(804)	ADDRESS	4		1C Block size
2056	(808)	BITSTRING	8		20 Reserved & number of blocks in ds
2064	(810)	ADDRESS	4		28 End of data routine address or 0
2068	(814)	ADDRESS	4		2C I/O error routine (synchronous) or 0
2072	(818)	BITSTRING	4		30 Reserved, should be zero
2076	(81C)	SIGNED	2		34 tape files written before sync
2078	(81E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
2078	(81E)	X'7B4'	0	MGRDCB	"MGRDCBMF,*-MGRDCBMF" DCB/DCBE length
2080	(820)	BITSTRING	1	MRTGDEB	Target DEB. Set by SPOL PCE when available.
2080	(820)	X'820'	0	MRTGDEB	"MRTGDEB,DEBBASIZ" DEB basic
2080	(820)	X'840'	0	MRTGDEB	"MRTGDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2128	(850)	BITSTRING	64	MRTGRPS	RPS Table for this device Set by SPOL PCE when available.
Target dataset track level information. All fields are relevant for move and merge.					
2192	(890)	SIGNED	4	MGATGSTR	Absolute track at which target dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2196	(894)	SIGNED	4	MGATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2200	(898)	SIGNED	4	MRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2204	(89C)	SIGNED	4	MRTGTRK	Number of tracks in target dataset. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2208	(8A0)	SIGNED	4	MRTGTRC	Tracks per cylinder
2212	(8A4)	SIGNED	4	MRTDAST	Target DASSTRK value
Target TGM information					
2216	(8A8)	SIGNED	4	MGATGTTG	Tracks per TG. Set by SPOL PCE in DAS7SET2 or DAS7SET3. Valid for move and merge.
2220	(8AC)	SIGNED	4	MRTGTG	Number of TGs in target
2224	(8B0)	SIGNED	4	MRTGBYT	Number of bytes in target TGM. Only move.
2228	(8B4)	SIGNED	4	MRTGSTT	Start TG reserved in target DAS TGM for pending migration. This is one based. Valid for merge only.

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2232	(8B8)	SIGNED	4	MGRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
Target DAS record level information - Move and merge.					
2236	(8BC)	SIGNED	4	MGRTRACT	Number of records per track
Other target dataset information					
2240	(8C0)	BITSTRING	1	MGRTGINF	Info
		1...		MGRTECKD	"B'10000000'" Extent is on ECKD device
		.1..		MGRTRDTD	"B'01000000'" Extent supports read track data CCW
		..1.		MGRTWTRD	"B'00100000'" Extent supports write track data CCW
		...1		MGRTSRPS	"B'00010000'" Device supports RPS
End of target dataset information Migration recovery section - these fields are set by MIGRRECV (Migration recovery) and DADMSET1 in recovery mode. MIGRRECV calls DADMSET1 to jump start the recovery. Mailbox discussion: MG\$VOLSER and RN\$VOLSER - Normal migration - when creating mailboxes - both are cleared to assure we don't pickup stale messages. - Recovery -- FULL-RECOVERY (see below). This would be single member warm OR hot start. Here we do not clear these mailboxes since our member was the original migrator. -- MIGRATOR-RECOVERY (see below). Our member is becoming the migrator on behalf of another member. Such as migrator-takeover. Here we clear the mailboxes to assure no stale messages.					
2241	(8C1)	BITSTRING	1	MGRRECOV	Info
		1...		MGMEMREC	"B'10000000'" Migration recovery is being performed.
		.1..		MGMEMCAN	"B'01000000'" Recovery action is to cancel current phase - represented by SRC DAS7PHAS.
		..1.		MGFULL	"B'00100000'" FULL-RECOVERY. Given source DAS - our member becomes migrator and our migration assistant is also initialized.
		...1		MGMIGRAT	"B'00010000'" MIGRATOR-RECOVERY. Given source DAS our member becomes migrator. Our migration assistant is OK.
		.... 1...		MGASSIST	"B'00001000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
		.... .1..		MGABEND	"B'00000100'" Migrator DTE ABEND recovery
End - Migration recovery section Subtask status If subtask I/O error - then MGRSERR is set so SPOL PCE subroutine DADMPHA1 or DASMPHA2 may cut the appropriate message.					
2242	(8C2)	BITSTRING	1	MGRSERR	Phase 1-2 subtask error id

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Migration subtask work state. MGR3TSTAT is current work being performed by the subtask - this is more granular than MGR1REQU. Some of these states may be materializable via the \$DSPL command. Only set by the subtask and may be interpreted by SPOL PCE. Some general statements here: need not be repeated below: -- When subtask sends messages to migration assistants the MGMECUR - current members up table is used on the broadcast message. -- The MIGR\$ASST mailbox is used to send broadcast messages to migration assistant subtask(s). -- When waiting for ACKS from spool assistant subtask -- the migration subtask waits on MG\$VOLSER mailbox.</p>					
2243	(8C3)	BITSTRING	1	MGR3STAT	Current subtask work state
		.... ....		MGR3NOST	"X'00'" No active state.
		.... .1..		MGR3INIT	"X'04'" Migration initiation: Migration subtask is creating source level track bitmaps, MG\$VOLSER and RN\$VOLSER mailboxes.
		.... 1...		MGR3AWP1	"X'08'" Migration initiation complete -- awaiting start of phase 1 from SPOL PCE.
		.... 11..		MGR3AW01	"X'0C'" Phase 1: start Broadcast phase 1 start message to all migration assistants. Actively handling I/O permission requests.
		...1		MGR3COPY	"X'10'" Phase 1: copy All phase 1 ACKs were received. Performing source to target dataset copy. Actively handling I/O permission requests.
		...1 .1..		MGR3AWP2	"X'14'" Subtask has completed phase 1 and is waiting for start of phase 2. SPOL PCE will eventually request phase 2 start. Subtask is still actively processing "I/O permission" requests
		...1 1...		MGR3PER2	"X'18'" Phase 2: Cancellable Broadcast phase 2 start message to all migration assistants. Waiting ACKs. Not processing I/O permission messages.
		...1 11..		MGR3PERN	"X'1C'" Phase 2: Non-cancellable All ACKs received - subtask is performing copy catch-up and handling I/O permission messages.
		..1.		MGR3ENDR	"X'20'" Migration end message has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..1. .1..		MGR3ENDC	"X'24'" Migration end complete Subtask waiting for request from SPOL PCE.
		..1. 1...		MGR3REQC	"X'28'" Migrator has run into an error and migration must be cancelled. Awaiting SPOL PCE to initiate cancel.
		..1. 11..		MGR3CNCL	"X'2C'" Migration cancel msg has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..11		MGR3CNCM	"X'30'" Migration cancellation complete. Subtask waiting for request from SPOL PCE.

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..11 .1..		MGR3P2CM	"X'34'" Phase2 complete
		..11 1...		MGR3UNIT	"X'38'" Migration termination: Track bitmaps, MG\$VOLSER and RN\$VOLSER mailboxes are deallocated.
End Subtask status Migration copy service work areas					
2248	(8C8)	ADDRESS	8	MGRIBUFR	Address of buffer work area
2256	(8D0)	DBL WORD	8	MGRIBUFP	Number of 4K pages in area
2264	(8D8)	DBL WORD	8	MGRIWTKN	IARV64 memory token
2272	(8E0)	SIGNED	4	MGRIBUFC	Number of buffers built
2276	(8E4)	SIGNED	4	MGR131WL	Length of 31 bit CCW area
2280	(8E8)	ADDRESS	4	MGR124WK	24 bit I/O work area
2284	(8EC)	BITSTRING	1	MGRIFLG1	Migration copy I/O flags
		1...		MGR11SRC	"B'10000000'" I/O error on source
		.1..		MGR11TRG	"B'01000000'" I/O error on target
2285	(8ED)	BITSTRING	3		Reserved
Buffers move from the free chain, to the active read chain when EXCP read is started. When read completed they are moved to the pending write chain. Once the the EXCP write is started, the buffer moves to the write chain. Once the write completes it is returned to the free chain.					
2288	(8F0)	ADDRESS	8	MGRIFREE	Free track buffers
2296	(8F8)	ADDRESS	8	MGRIREAD	Active read buffers
2304	(900)	ADDRESS	8	MGRIPEND	Pending write buffers
2312	(908)	ADDRESS	8	MGRIWRT	Active write buffers
2320	(910)	ADDRESS	4	MGRIBATI	Address of BAT(s) for read
2324	(914)	ADDRESS	4	MGRIBATO	Address of BAT(s) for write
2328	(918)	ADDRESS	8	MGRIBITM	Current bit map to use
2336	(920)	SIGNED	4	MGRILTRK	Last track read (-1=>done)
2344	(928)	DBL WORD	8	MGR1WORK	General work area
2352	(930)	SIGNED	4	MGRIECB	I/O request ECB (Call MIGRCOPY when posted)
Write track level bitmap (MIGRTLW) work areas					
2356	(934)	ADDRESS	4	MGRWBSTR	Work area used by service
2360	(938)	SIGNED	4	MGRWBSTL	Length of work area
I/O permission XREQ queues New XREQs permission requests should be added to MGR1XRQW using \$FIFOENQ (CHAIN=XRETCHAN-XREQ). These are processed by MIGRCOPY (moved to the MGR1XRQA stack while active). Once the I/O completes, the XREQs are added to the MGR1XRQC and MGR1XRQE ECB is posted. XREQs on the MGR1XRQC queue should be removed with \$FIFODEQ (CHAIN=XRETCHAN-XREQ) and ACKed using JESXCF.					
2368	(940)	DBL WORD	8	MGR1XRQW(0)	XREQs pending
2368	(940)	ADDRESS	4	MGR1XRQF	chain
2372	(944)	ADDRESS	4	MGR1XRQB	(managed by \$FIFOENQ)
2376	(948)	ADDRESS	4	MGR1XRQA	XREQs active in I/O

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2384	(950)	DBL WORD	8	MGRIXRQC(0)	Completed XREQ
2384	(950)	ADDRESS	4	MGRIXRCF	chain
2388	(954)	ADDRESS	4	MGRIXRCB	(managed by \$FIFOENQ)
2392	(958)	SIGNED	4	MGRIXRQE	Completed XREQ ECB
Mailbox information: MG\$VOLSER: Spool migration mail box - handles ACKS from migrations subtasks and also other information sent during phase 1 and 2. Note: VOLSER uniquely ties this mailbox to a migration. One per migration. RN\$VOLSER: Runtime mailbox - RN\$VOLSER -- Handles runtime "IO permission" requests in phase 1 and 2. Note: VOLSER uniquely identifies this mailbox from a migration perspective.					
2396	(95C)	BITSTRING	1	MGMAILST	Mailbox info
		1...		MGMG_CRT	"B'10000000'" MG\$VOLSER has been created
		.1..		MGRN_CRT	"B'01000000'" RN\$VOLSER has been created
		..1.		MGATTH	"B'00100000'" Migrator performed attach of unique XCF group and must also perform detach
2397	(95D)	CHARACTER	16	MGMGVOLS	Note: last 6 characters must be volser name.
2413	(96D)	CHARACTER	16	MGRNTIME	Note: last 6 characters must be volser name.
2429	(97D)	CHARACTER	8	MGGROUP	Note: migration XCF group name. Note: XXX is source DASEXTNO in printable decimal.
2437	(985)	CHARACTER	16	MGRMEMNM	Member name - used for attach of XCF group
2456	(998)	SIGNED	4	MGJDIAG	JESXCF service diag area
2460	(99C)	ADDRESS	4	MGGRPTKN	JESXCF group token used for MG\$VOLSER and RN\$VOLSER mailbox creation
2464	(9A0)	SIGNED	4	MGRBOX1	ECB - MG\$VOLSER mailbox.
2468	(9A4)	SIGNED	4	MGRBOX2	ECB - RN\$VOLSER mailbox.
2472	(9A8)	ADDRESS	4	MGRSEDA	Address of send buffer used for \$XBCAST and also "I/O permission" message ACK response.
2476	(9AC)	SIGNED	4	MGRSEDL	Length of message to send
2480	(9B0)	ADDRESS	4	MGRXBUFA	Address of received data
2484	(9B4)	SIGNED	4	MGRXBUFL	Received message length
2488	(9B8)	ADDRESS	4	MGRASSN	Address of send buffer for MIGR\$ASST mailbox.
2492	(9BC)	SIGNED	4	MGR#IOCM	When subroutine SMGIOPER is called this is the maximum number of I/O permission messages to process.
2496	(9C0)	ADDRESS	1	MGRBTYPE	Broadcast type See \$XREQ - XREQINFO XREQPHA1 - phase 1 start XREQPHA2 - phase 2 start XREQCNCL - cancel complete XREQEND - end migration
2504	(9C8)	DBL WORD	8	MGRXTOKN	Current XCF message token
MACDATE = 08/19/88					

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2512	(9D0)	BITSTRING	24	MGRSTMST	REMOTE STIMERM SET PARM LIST
2512	(9D0)	X'18'	0	MGRSTMSL	"*-MGRSTMST" List form length
Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)					
2536	(9E8)	BITSTRING	1	MGRMFPRM	SPMINIFM parameter list
Migration timing/count statistics Phase specific times (micro-seconds) and counts					
2568	(A08)	DBL WORD	8	MGRTINTT	Init phase time (micro)
2576	(A10)	DBL WORD	8	MGRTSETT	Setup phase time (micro)
2584	(A18)	DBL WORD	8	MGRTCPYT	Copy phase time (micro)
2592	(A20)	SIGNED	4	MGRTCPYC	Copy phase track count
2596	(A24)	SIGNED	4	MGRTCPYM	Copy phase message count
2600	(A28)	DBL WORD	8	MGRTCUPT	Catchup phase time (micro)
2608	(A30)	SIGNED	4	MGRTCUPC	Catchup phase track count
2612	(A34)	SIGNED	4	MGRTCUPM	Catchup phase message count
2616	(A38)	DBL WORD	8	MGR TCLNT	Cleanup phase time (micro)
2624	(A40)	DBL WORD	8	MGR TNEWT	STCK time migration started
2632	(A48)	DBL WORD	8	MGR TOVRT	Overall time for migration (SMCNEW to success msg)
2640	(A50)	DBL WORD	8	MGR TSTRT(2)	Current phase start STCKE
2656	(A60)	SIGNED	4	MGR TMSGC	I/O permission msg count
2660	(A64)	SIGNED	4		Reserved
List form macros for JESXCF and other services					
2664	(A68)	DBL WORD	8	(0)	
2664	(A68)	BITSTRING	200	MGRXIXLST	JESXCF list form macros
2864	(B30)	DBL WORD	8	MGRXIXEND(0)	End of list form area
----- IXZXIXAT MF=(L,MGRXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'A68'	0	M00M1302	"MGRXIXAT" ++ IXZXIXAT NAME
2664	(A68)	DBL WORD	8	MGRXIXAT(0)	++ IXZXIXAT PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXAT_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXAT_XEYECATCH	++ CONSTANT
2671	(A6F)	CHARACTER	1	MGRXIXAT_XRSV0001	++ RESERVED
2672	(A70)	CHARACTER	8	MGRXIXAT_XGROUP	++
2680	(A78)	CHARACTER	16	MGRXIXAT_XMEMBER	++
2696	(A88)	CHARACTER	8	MGRXIXAT_XRELEASE	++
2704	(A90)	SIGNED	4	MGRXIXAT_XMAINTLVL	++ CONSTANT
2708	(A94)	SIGNED	4	MGRXIXAT_XGROUPTOKEN	++
2712	(A98)	BITSTRING	1	MGRXIXAT_XFLAG1	++ FIELD_LABEL
	1...			MGRXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
	.1...			MGRXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		MGRXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		MGRXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		MGRXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		MGRXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		MGRXIXAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
2713	(A99)	BITSTRING	1	MGRXIXAT_XFLAG2	++ FIELD_LABEL
		1...		MGRXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		MGRXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
2714	(A9A)	CHARACTER	2	MGRXIXAT_XRSV0002	++ RESERVED
2716	(A9C)	SIGNED	4	MGRXIXAT_XDIAG	++
2720	(AA0)	CHARACTER	8	MGRXIXAT_XLINKPARMS	++ FIELD_LABEL
2720	(AA0)	X'40'	0	MGRXIXATL	"*-MGRXIXAT" ++ LENGTH OF PLIST
IXZXIXAT-6					
2728	(AA8)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXAC MF=(L,MGRXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'A68'	0	M00M1304	"MGRXIXAC" ++ IXZXIXAC NAME
2664	(A68)	DBL WORD	8	MGRXIXAC(0)	++ IXZXIXAC PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXAC_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXAC_XYEYCATCH	++ CONSTANT XYEYCATCH
2671	(A6F)	BITSTRING	1	MGRXIXAC_XSTB	++ INPUT
		1...		MGRXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2672	(A70)	BITSTRING	8	MGRXIXAC_XMSGTOKEN	++ XMSGTOKEN
2680	(A78)	ADDRESS	4	MGRXIXAC_XDATA	++ XDATA
2684	(A7C)	SIGNED	4	MGRXIXAC_XDATALEN	++ XDATALEN
2688	(A80)	SIGNED	4	MGRXIXAC_XUSERRC	++ XUSERRC
2692	(A84)	SIGNED	4	MGRXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2696	(A88)	SIGNED	4	MGRXIXAC_XSYSRC	++ XSYSRC
2700	(A8C)	SIGNED	4	MGRXIXAC_XSYSRSN	++ XSYSRSN
2704	(A90)	BITSTRING	1	MGRXIXAC_XKEYS	++ FIELD_LABEL
		1...		MGRXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		MGRXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		MGRXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		MGRXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		MGRXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2705	(A91)	BITSTRING	1	MGRXIXAC_XMSGATTR	++ INPUT

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		MGRXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		MGRXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2705	(A91)	X'2A'	0	MGRXIXACL	"*-MGRXIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
2706	(A92)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMC MF=(L,MGRXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2706	(A92)	SIGNED	2	M00M1305(0)	IXZXIXMC-1
2712	(A98)	DBL WORD	8	MGRXIXMC(0)	++ IXZXIXMC PARM LIST
2712	(A98)	BITSTRING	1	MGRXIXMC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	MGRXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	MGRXIXMC_XSTB	++ INPUT
		1...		MGRXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	MGRXIXMC_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	MGRXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	MGRXIXMCL	"*-MGRXIXMC" ++ LENGTH OF PLIST
IXZXIXMC-1					
2740	(AB4)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMB MF=(L,MGRXIXMB) Create mailbox MACDATE -93/05/10-<1>					
2664	(A68)	SIGNED	2	M00M1306(0)	IXZXIXMB-1
2664	(A68)	DBL WORD	8	MGRXIXMB(0)	++ IXZXIXMB PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXMB_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	CHARACTER	1	MGRXIXMB_XRSV0001	++ RESERVED XRSV0001
2672	(A70)	CHARACTER	16	MGRXIXMB_XMBOXNAME	++ XMBOXNAME
2688	(A80)	ADDRESS	4	MGRXIXMB_XPOSTXIT	++ XPOSTXIT
2692	(A84)	ADDRESS	4	MGRXIXMB_XPOSTDATA	++ XPOSTDATA
2696	(A88)	SIGNED	4	MGRXIXMB_XPOSTALET	++ XPOSTALET
2700	(A8C)	SIGNED	4	MGRXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2704	(A90)	BITSTRING	1	MGRXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		MGRXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		MGRXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2704	(A90)	X'29'	0	MGRXIXMBL	"*-MGRXIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
2706	(A92)	ADDRESS	2	(0)	Ensure area fits

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
----- IXZXIXMD MF=(L,MGRXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2664	(A68)	SIGNED	2	M00M1307(0)	IXZXIXMD-1
2664	(A68)	DBL WORD	8	MGRXIXMD(0)	++ IXZXIXMD PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXMD_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	BITSTRING	1	MGRXIXMD_XSTB	++ INPUT
		1...		MGRXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1...		MGRXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2672	(A70)	CHARACTER	16	MGRXIXMD_XMBOXNAME	++ XMBOXNAME
2688	(A80)	SIGNED	4	MGRXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2688	(A80)	X'1C'	0	MGRXIXMDL	"*-MGRXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
2692	(A84)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXDT MF=(L,MGRXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
0	(0)	X'A68'	0	M00M1308	"MGRXIXDT" ++ IXZXIXDT NAME
2664	(A68)	DBL WORD	8	MGRXIXDT(0)	++ IXZXIXDT PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXDT_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	CHARACTER	1	MGRXIXDT_XRSV0001	++ RESERVED XRSV0001
2672	(A70)	ADDRESS	4	MGRXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
2676	(A74)	CHARACTER	8	MGRXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
2676	(A74)	X'14'	0	MGRXIXDTL	"*-MGRXIXDT" ++ LENGTH OF PLIST
IXZXIXDT-1					
2684	(A7C)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXRM MF=(L,MGRXIXRM) Receive message MACDATE -93/05/10-<1>					
2664	(A68)	SIGNED	2	M00M1309(0)	IXZXIXRM-1
2664	(A68)	DBL WORD	8	MGRXIXRM(0)	++ IXZXIXRM PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXRM_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	CHARACTER	1	MGRXIXRM_XRSV0001	++ RESERVED XRSV0001
2672	(A70)	CHARACTER	16	MGRXIXRM_XMBOXNAME	++ XMBOXNAME
2688	(A80)	ADDRESS	4	MGRXIXRM_XDATA	++ XDATA
2692	(A84)	SIGNED	4	MGRXIXRM_XDATALEN	++ XDATALEN
2696	(A88)	BITSTRING	8	MGRXIXRM_XMSGTOKEN	++ XMSGTOKEN
2704	(A90)	SIGNED	4	MGRXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2708	(A94)	BITSTRING	1	MGRXIXRM_XMSGFETCH	++ INPUT
		1...		MGRXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1...		MGRXIXRM_XMSGFETCH_MESSAGES	

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'01000000'" ++ XMSGFETC.MESSAGES KEYWORD
		...1.		MGRIXRM_XMSGFETC_SYSEVENT	
					"B'00100000'" ++ XMSGFETC.SYSEVENT KEYWORD
		...1		MGRIXRM_XMSGFETC_ACKS	
					"B'00010000'" ++ XMSGFETC.ACKS KEYWORD
2709	(A95)	BITSTRING	1	MGRIXRM_XKEYS	++ FIELD_LABEL
		1...		MGRIXRM_KEYUSED_MSGFETC	
					"B'10000000'" ++ KEYUSED.MSGFETC KEYWORD
2709	(A95)	X'2E'	0	MGRIXRML	"*-MGRIXRM" ++ LENGTH OF PLIST
IXZXIRM-1					
2710	(A96)	ADDRESS	2	(0)	Ensure area fits
----- IARV64 MF=(L,MGRIR64L),PLISTVER=MAX IARV64 list form MACDATE -02/08/21-<6>					
0	(0)	X'A68'	0	M00M1310	"MGRIR64L" ++ IARV64 NAME
2664	(A68)	DBL WORD	8	MGRIR64L(0)	++ IARV64 PARM LIST
2664	(A68)	BITSTRING	1	MGRIR64L_XVERSION	++ INPUT XVERSION
2665	(A69)	BITSTRING	1	MGRIR64L_XREQUEST	++ XREQUEST
2665	(A69)	X'1'	0	MGRIR64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2665	(A69)	X'2'	0	MGRIR64L_XREQUEST_GETSHARED	
					"2" ++ XREQUEST.GETSHARED KEYWORD
2665	(A69)	X'3'	0	MGRIR64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2665	(A69)	X'4'	0	MGRIR64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2665	(A69)	X'5'	0	MGRIR64L_XREQUEST_PAGEUNFIX	
					"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2665	(A69)	X'6'	0	MGRIR64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2665	(A69)	X'7'	0	MGRIR64L_XREQUEST_DISCARDATA	
					"7" ++ XREQUEST.DISCARDATA KEYWORD
2665	(A69)	X'8'	0	MGRIR64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2665	(A69)	X'9'	0	MGRIR64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2665	(A69)	X'A'	0	MGRIR64L_XREQUEST_SHAREMEMOBJ	
					"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2665	(A69)	X'B'	0	MGRIR64L_XREQUEST_CHANGEACCESS	
					"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2665	(A69)	X'C'	0	MGRIR64L_XREQUEST_UNPROTECT	
					"12" ++ XREQUEST.UNPROTECT KEYWORD
2665	(A69)	X'D'	0	MGRIR64L_XREQUEST_CHANGEGUARD	
					"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2665	(A69)	X'E'	0	MGRIR64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2665	(A69)	X'F'	0	MGRIR64L_XREQUEST_GETCOMMON	
					"15" ++ XREQUEST.GETCOMMON KEYWORD
2665	(A69)	X'10'	0	MGRIR64L_XREQUEST_COUNTPAGES	
					"16" ++ XREQUEST.COUNTPAGES KEYWORD
2665	(A69)	X'11'	0	MGRIR64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2665	(A69)	X'12'	0	MGRIR64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2665	(A69)	X'13'	0	MGRIR64L_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
2666	(A6A)	BITSTRING	1	MGRIR64L_XFLAGS0	++ FIELD_LABEL
		1...		MGRIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		MGRIR64L_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		MGRIR64L_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2667	(A6B)	BITSTRING	1	MGRIR64L_XKEY	++
2668	(A6C)	BITSTRING	1	MGRIR64L_XFLAGS1	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		MGRIR64L_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		MGRIR64L_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		MGRIR64L_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		MGRIR64L_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		MGRIR64L_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		MGRIR64L_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		MGRIR64L_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2669	(A6D)	BITSTRING	1	MGRIR64L_XFLAGS2	++ FIELD_LABEL
		1...		MGRIR64L_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		MGRIR64L_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		MGRIR64L_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		MGRIR64L_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		MGRIR64L_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		MGRIR64L_XPAGEFRAME_SIZE_1MEG	"B'00000100'" ++ XPAGEFRAME.SIZE.1MEG KEYWORD
		.... ..1.		MGRIR64L_XPAGEFRAME_SIZE_MAX	"B'00000010'" ++ XPAGEFRAME.SIZE.MAX KEYWORD
		.... ...1		MGRIR64L_XPAGEFRAME_SIZE_ALL	

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'00000001'" ++ XPAGEFRAME.SIZE.ALL KEYWORD
2670	(A6E)	BITSTRING	1	MGRIR64L_XFLAGS3	++ FIELD_LABEL
		1...		MGRIR64L_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		MGRIR64L_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		MGRIR64L_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		MGRIR64L_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		MGRIR64L_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		MGRIR64L_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		MGRIR64L_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		MGRIR64L_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2671	(A6F)	BITSTRING	1	MGRIR64L_XFLAGS4	++ FIELD_LABEL
		1...		MGRIR64L_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		MGRIR64L_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		MGRIR64L_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		MGRIR64L_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		MGRIR64L_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		MGRIR64L_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		MGRIR64L_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		MGRIR64L_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2672	(A70)	DBL WORD	8	MGRIR64L_XSEGMENTS	++
2680	(A78)	CHARACTER	16	MGRIR64L_XTTOKEN	++
2696	(A88)	DBL WORD	8	MGRIR64L_XUSERTKN	++
2704	(A90)	ADDRESS	8	MGRIR64L_XORIGIN	++
2712	(A98)	ADDRESS	8	MGRIR64L_XRANGLIST	++
2720	(AA0)	ADDRESS	8	MGRIR64L_XMEMOBJSTART	++
2728	(AA8)	SIGNED	4	MGRIR64L_XGUARDSIZE	++
2732	(AAC)	SIGNED	4	MGRIR64L_XCONVERTSIZE	++
2736	(AB0)	SIGNED	4	MGRIR64L_XALETVALUE	++
2740	(AB4)	SIGNED	4	MGRIR64L_XNUMRANGE	++
2744	(AB8)	ADDRESS	4	MGRIR64L_XV64LISTPTR	++
2748	(ABC)	SIGNED	4	MGRIR64L_XV64LISTLENGTH	++
2752	(AC0)	DBL WORD	8	MGRIR64L_XCONVERTSTART	++
2760	(AC8)	DBL WORD	8	MGRIR64L_XCONVERTSIZE64	++
2768	(AD0)	DBL WORD	8	MGRIR64L_XGUARDSIZE64	++
2776	(AD8)	CHARACTER	8	MGRIR64L_XUSERTOKEN	++
2784	(AE0)	BITSTRING	1	MGRIR64L_XDUMPPRIORITY	++
2785	(AE1)	BITSTRING	1	MGRIR64L_XFLAGS5	++ FIELD_LABEL

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		MGRIR64L_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		MGRIR64L_XORDER_DUMPRIORITY	"B'01000000'" ++ XORDER.DUMPRIORITY KEYWORD
		..1.		MGRIR64L_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		MGRIR64L_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		MGRIR64L_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		MGRIR64L_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		MGRIR64L_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		MGRIR64L_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2786	(AE2)	BITSTRING	1	MGRIR64L_XFLAGS6	++ FIELD_LABEL
		1...		MGRIR64L_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		MGRIR64L_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		MGRIR64L_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		MGRIR64L_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		MGRIR64L_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		MGRIR64L_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		MGRIR64L_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		MGRIR64L_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2787	(AE3)	BITSTRING	1	MGRIR64L_XFLAGS7	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		MGRIR64L_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		MGRIR64L_KEYUSED_SVCUMPRGN	"B'00100000'" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		MGRIR64L_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		MGRIR64L_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		MGRIR64L_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		MGRIR64L_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		MGRIR64L_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2788	(AE4)	BITSTRING	1	MGRIR64L_XDUMP	++ XDUMP
2788	(AE4)	X'0'	0	MGRIR64L_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2788	(AE4)	X'1'	0	MGRIR64L_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2788	(AE4)	X'2'	0	MGRIR64L_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2788	(AE4)	X'3'	0	MGRIR64L_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2788	(AE4)	X'20'	0	MGRIR64L_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2788	(AE4)	X'21'	0	MGRIR64L_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2788	(AE4)	X'FF'	0	MGRIR64L_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2789	(AE5)	BITSTRING	1	MGRIR64L_XFLAGS8	++ FIELD_LABEL
		1...		MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		MGRIR64L_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		MGRIR64L_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		MGRIR64L_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		MGRIR64L_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		MGRIR64L_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		MGRIR64L_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
2790	(AE6)	BITSTRING	2	MGRIR64L_XOWNERASID	++
2792	(AE8)	BITSTRING	1	MGRIR64L_XOPTIONVALUE	++
2793	(AE9)	CHARACTER	8	MGRIR64L_XRSV0001	++ RESERVED
2801	(AF1)	CHARACTER	8	MGRIR64L_XOWNERJOBNAME	++
2809	(AF9)	CHARACTER	7	MGRIR64L_XRSV0004	++ RESERVED
2816	(B00)	ADDRESS	8	MGRIR64L_XDMAPAGETABLE	++
2824	(B08)	DBL WORD	8	MGRIR64L_XUNITS	++
2832	(B10)	BITSTRING	1	MGRIR64L_XFLAGS9	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		MGRIR64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		MGRIR64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		MGRIR64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		MGRIR64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		MGRIR64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2833	(B11)	BITSTRING	1	MGRIR64L_XFLAGS10	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		MGRIR64L_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		MGRIR64L_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		MGRIR64L_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
2834	(B12)	BITSTRING	1	MGRIR64L_XFLAGS11	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_OBJECTTYPE	

Table 164. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1..		MGRIR64L_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1.		MGRIR64L_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
2835	(B13)	CHARACTER	5	MGRIR64L_XRSV0005	++ RESERVED
2835	(B13)	X'B18'	0	MGRIR64L_PL_END	"*" ++ END OF BASE PLIST
2696	(A88)	DBL WORD	8	MGRIR64L_XOUTMOTKN	++
2696	(A88)	DBL WORD	8	MGRIR64L_XMOTKN	++
2720	(AA0)	ADDRESS	8	MGRIR64L_XINORIGIN	++
2720	(AA0)	ADDRESS	8	MGRIR64L_XINADDR	++
2840	(B18)	X'B0'	0	MGRIR64LL	"*-MGRIR64L" ++ LENGTH OF PLIST
IARV64-6					
2840	(B18)	ADDRESS	8	MGRIRNGL(0)	Range list for PAGEFIX
2840	(B18)	ADDRESS	8	MGRIRNGA	Address of area to fix
2848	(B20)	DBL WORD	8	MGRIRNGP	Number of pages to fix
2848	(B20)	X'A68'	0	MGRIR64	"MGRIR64L,*-MGRIR64L" IARV64 MF=L symbol/length
2856	(B28)	ADDRESS	2	(0)	Ensure area fits
2864	(B30)	X'638'	0	MGRCLEAR	"MGRSTART" Area to be zeroed
2864	(B30)	X'4F8'	0	MGRLLLEN	"*-DTEWORK" Length of work area

Table 165. Cross Reference for \$DTEMIGR

Name	Offset	Hex Tag
DTE	0	
MGABEND	8C1	4
MGACTCPY	664	
MGASRCHI	770	
MGASRCST	768	
MGASSIST	8C1	8
MGATGSTR	890	
MGATGTTG	8A8	
MGATGWRT	894	
MGATTACH	63D	8
MGATTH	95C	20
MGECBLST	640	
MGECBLS2	644	
MGWAIT	694	
MGEXITID	668	
MGFULL	8C1	20
MGGENEID	670	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGGENERE	66C	
MGGENERP	644	
MGGROUP	97D	E2E8E2D4
MGGRPTKN	99C	
MGHEARID	678	
MGHEARTE	674	
MGHEARTP	648	
MGJDIAG	998	
MGMAILST	95C	
MGMEMCAN	8C1	40
MGMEMREC	8C1	80
MGMG_CRT	95C	80
MGMGVOLP	64C	
MGMGVOLS	95D	E2E8E2D1
MGMIGRAT	8C1	10
MGPATHL	690	
MGPATHS	690	80
MGPATHT	690	40
MGPRERR	690	20
MGPSTSPL	638	
MGPWTLB	690	10
MGR#IOCM	9BC	
MGRALLOC	788	80
MGRASSSN	9B8	
MGRBMHDL	764	
MGRBMHDR	760	
MGRBOX1	9A0	
MGRBOX2	9A4	
MGRBTYPE	9C0	
MGRCLEAR	B30	638
MGRDCB	81E	7B4
MGRDCBE	7E8	C4C3C2C5
MGRDCBMF	7B4	
MGRENQTK	789	
MGRFLG3	6B4	
MGRFLG4	6B5	
MGRFLG5	6B6	
MGRFLG52	6B7	
MGRFLG6	6B8	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRHITG	780	
MGRIR64	B20	A68
MGRIBATI	910	
MGRIBATO	914	
MGRIBITM	918	
MGRIBUFC	8E0	
MGRIBUFP	8D0	
MGRIBUFR	8C8	
MGRIECB	930	
MGRIFLG1	8EC	
MGRIFREE	8F0	
MGRILTRK	920	
MGRIPEND	900	
MGRIREAD	8F8	
MGRIRNGA	B18	
MGRIRNGL	B18	
MGRIRNGP	B20	
MGRIR64L	A68	
MGRIR64L_KEYUSED_CONVERTSIZE64	A6C	4
MGRIR64L_KEYUSED_CONVERTSTART	A6C	10
MGRIR64L_KEYUSED_DUMP	AE3	80
MGRIR64L_KEYUSED_GUARDSIZE64	A6C	8
MGRIR64L_KEYUSED_INORIGIN	B11	80
MGRIR64L_KEYUSED_KEY	A6C	80
MGRIR64L_KEYUSED_MOTKN	A6C	2
MGRIR64L_KEYUSED_OBJECTTYPE	B12	80
MGRIR64L_KEYUSED_OPTIONVALUE	AE3	40
MGRIR64L_KEYUSED_OWNERJOBNAME	A6C	1
MGRIR64L_KEYUSED_SENSITIVE	B11	10
MGRIR64L_KEYUSED_SVCDUMPRGN	AE3	20
MGRIR64L_KEYUSED_TTOKEN	A6C	20
MGRIR64L_KEYUSED_UNITS	B10	80
MGRIR64L_KEYUSED_USERTKN	A6C	40
MGRIR64L_PL_END	B13	B18
MGRIR64L_XAFFINITY_SYSTEM	A6E	40
MGRIR64L_XALETVALUE	AB0	
MGRIR64L_XAMOUNTSIZE_1MEG	AE2	2
MGRIR64L_XAMOUNTSIZE_4K	AE2	4
MGRIR64L_XATTRIBUTE_DEFS	AE3	10

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XATTRIBUTE_NOTOWNERGONE	AE3	4
MGRIR64L_XATTRIBUTE_OWNERGONE	AE3	8
MGRIR64L_XCHANGEACCESS_GLOBAL	A6D	8
MGRIR64L_XCLEAR_NO	A6F	40
MGRIR64L_XCOND_YES	A6D	80
MGRIR64L_XCONTROL_AUTH	A6D	20
MGRIR64L_XCONVERT_FROMGUARD	A6F	2
MGRIR64L_XCONVERT_TOGUARD	A6F	4
MGRIR64L_XCONVERTSIZE	AAC	
MGRIR64L_XCONVERTSIZE64	AC8	
MGRIR64L_XCONVERTSTART	AC0	
MGRIR64L_XDETACHFIXED_YES	AE2	20
MGRIR64L_XDISCARDPAGES_YES	0	4
MGRIR64L_XMAPAGETABLE	B00	
MGRIR64L_XDOAUTHCHECKS_YES	AE2	10
MGRIR64L_XDUMP	AE4	
MGRIR64L_XDUMP_ALL	AE4	FF
MGRIR64L_XDUMP_LIKECSA	AE4	3
MGRIR64L_XDUMP_LIKELSQA	AE4	21
MGRIR64L_XDUMP_LIKERGN	AE4	20
MGRIR64L_XDUMP_LIKESQA	AE4	2
MGRIR64L_XDUMP_NO	AE4	1
MGRIR64L_XDUMP_NONE	AE4	0
MGRIR64L_XDUMPPRIORITY	AE0	
MGRIR64L_XDUMPPROTOCOL_YES	AE1	80
MGRIR64L_XEXECUTABLE_NO	0	1
MGRIR64L_XEXECUTABLE_YES	0	2
MGRIR64L_XFLAGS0	A6A	
MGRIR64L_XFLAGS1	A6C	
MGRIR64L_XFLAGS10	B11	
MGRIR64L_XFLAGS11	B12	
MGRIR64L_XFLAGS2	A6D	
MGRIR64L_XFLAGS3	A6E	
MGRIR64L_XFLAGS4	A6F	
MGRIR64L_XFLAGS5	AE1	
MGRIR64L_XFLAGS6	AE2	
MGRIR64L_XFLAGS7	AE3	
MGRIR64L_XFLAGS8	AE5	
MGRIR64L_XFLAGS9	B10	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XFPROT_NO	A6D	40
MGRIR64L_XGUARDLOC_HIGH	A6D	10
MGRIR64L_XGUARDSIZE	AA8	
MGRIR64L_XGUARDSIZE64	AD0	
MGRIR64L_XINADDR	AA0	
MGRIR64L_XINORIGIN	AA0	
MGRIR64L_XKEEPREAL_NO	A6F	1
MGRIR64L_XKEY	A6B	
MGRIR64L_XLOCALSYSAREA_YES	AE2	8
MGRIR64L_XLONG_NO	A6F	80
MGRIR64L_XMATCH_MOTOKEN	A6A	20
MGRIR64L_XMATCH_USERTOKEN	A6E	80
MGRIR64L_XMEMLIMIT_COND	AE2	1
MGRIR64L_XMEMLIMIT_NO	AE2	40
MGRIR64L_XMEMOBJSTART	AA0	
MGRIR64L_XMOTKN	A88	
MGRIR64L_XMOTKNCREATOR_SYSTEM	A6A	40
MGRIR64L_XMOTKNSOURCE_SYSTEM	A6A	80
MGRIR64L_XNUMRANGE	AB4	
MGRIR64L_XOBJECTTYPE_POOL	B12	40
MGRIR64L_XOBJECTTYPE_RSMINTERNAL	B12	20
MGRIR64L_XOPTIONVALUE	AE8	
MGRIR64L_XORDER_DUMPPRIORITY	AE1	40
MGRIR64L_XORIGIN	A90	
MGRIR64L_XOUTMOTKN	A88	
MGRIR64L_XOWNER_NO	A6E	10
MGRIR64L_XOWNERASID	AE6	
MGRIR64L_XOWNERCOM_BYASID	AE1	1
MGRIR64L_XOWNERCOM_HOME	AE1	8
MGRIR64L_XOWNERCOM_PRIMARY	AE1	4
MGRIR64L_XOWNERCOM_SYSTEM	AE1	2
MGRIR64L_XOWNERJOBNAME	AF1	
MGRIR64L_XPAGEFRAMESIZE_ALL	A6D	1
MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	0	40
MGRIR64L_XPAGEFRAMESIZE_MAX	A6D	2
MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	AE5	80
MGRIR64L_XPAGEFRAMESIZE_1M	B10	10
MGRIR64L_XPAGEFRAMESIZE_1MEG	A6D	4
MGRIR64L_XPAGEFRAMESIZE_2G	B10	8

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XRANGLIST	A98	
MGRIR64L_XREQUEST	A69	
MGRIR64L_XREQUEST_CHANGEACCESS	A69	B
MGRIR64L_XREQUEST_CHANGEATTRIBUTE	A69	13
MGRIR64L_XREQUEST_CHANGEGUARD	A69	D
MGRIR64L_XREQUEST_COUNTPAGES	A69	10
MGRIR64L_XREQUEST_DETACH	A69	3
MGRIR64L_XREQUEST_DISCARDATA	A69	7
MGRIR64L_XREQUEST_GETCOMMON	A69	F
MGRIR64L_XREQUEST_GETSHARED	A69	2
MGRIR64L_XREQUEST_GETSTOR	A69	1
MGRIR64L_XREQUEST_LIST	A69	E
MGRIR64L_XREQUEST_PAGEFIX	A69	4
MGRIR64L_XREQUEST_PAGEIN	A69	8
MGRIR64L_XREQUEST_PAGEOUT	A69	6
MGRIR64L_XREQUEST_PAGEUNFIX	A69	5
MGRIR64L_XREQUEST_PCIEFIX	A69	11
MGRIR64L_XREQUEST_PCIEUNFIX	A69	12
MGRIR64L_XREQUEST_PROTECT	A69	9
MGRIR64L_XREQUEST_SHAREMEMOBJ	A69	A
MGRIR64L_XREQUEST_UNPROTECT	A69	C
MGRIR64L_XRSV0001	AE9	
MGRIR64L_XRSV0004	AF9	
MGRIR64L_XRSV0005	B13	
MGRIR64L_XSADMP_NO	0	10
MGRIR64L_XSADMP_YES	0	20
MGRIR64L_XSEGMENTS	A70	
MGRIR64L_XSENSITIVE_NO	B11	20
MGRIR64L_XSENSITIVE_YES	B11	40
MGRIR64L_XSVCDUMPRGN_ALL	A6E	1
MGRIR64L_XSVCDUMPRGN_NO	A6E	4
MGRIR64L_XTRACKINFO_YES	AE3	2
MGRIR64L_XTTOKEN	A78	
MGRIR64L_XTYPE_DREF	AE1	10
MGRIR64L_XTYPE_FIXED	B10	4
MGRIR64L_XTYPE_PAGEABLE	AE1	20
MGRIR64L_XUNITS	B08	
MGRIR64L_XUNITSIZE_1M	B10	40
MGRIR64L_XUNITSIZE_2G	B10	20

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XUNLOCKED_YES	AE3	1
MGRIR64L_XUSERTKN	A88	
MGRIR64L_XUSERTOKEN	AD8	
MGRIR64L_XUSE2GT032G_YES	A6E	20
MGRIR64L_XUSE2GT064G_YES	0	8
MGRIR64L_XVERSION	A68	
MGRIR64L_XVIEW_HIDDEN	A6F	8
MGRIR64L_XVIEW_READONLY	A6F	20
MGRIR64L_XVIEW_SHAREDWRITE	A6F	10
MGRIR64L_XV64COMMON_NO	AE2	80
MGRIR64L_XV64LISTLENGTH	ABC	
MGRIR64L_XV64LISTPTR	AB8	
MGRIR64L_XV64SELECT_NO	A6E	8
MGRIR64L_XV64SHARED_NO	A6E	2
MGRIR64LL	B18	B0
MGRIWORK	928	
MGRIWRIT	908	
MGRIWTKN	8D8	
MGRIXEND	B30	
MGRIXLST	A68	
MGRIXRCB	954	
MGRIXRCF	950	
MGRIXRQA	948	
MGRIXRQB	944	
MGRIXRQC	950	
MGRIXRQE	958	
MGRIXRQF	940	
MGRIXRQW	940	
MGRI1SRC	8EC	80
MGRI1TRG	8EC	40
MGRI24WK	8E8	
MGRI31WL	8E4	
MGRLLN	B30	4F8
MGRMEMNM	985	
MGRMFPRM	9E8	
MGRMGSTS	660	
MGRMIGRC	758	
MGRN_CRT	95C	40
MGRNIOP	654	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRNOCA	6B4	20
MGRNOCMP	65C	
MGRNTIME	96D	E2E8E2D1
MGRNUMMG	754	
MGRNUMRQ	750	
MGRNVOLP	650	
MGRNXRQP	658	
MGRPERCE	6B9	
MGRRECOV	8C1	
MGRSBITA	738	
MGRSBITB	740	
MGRSBITR	74C	
MGRSBTAS	75C	
MGRSBTRK	748	
MGRSECKD	788	20
MGRSEDA	9A8	
MGRSEDL	9AC	
MGRSERR	8C2	
MGRSRBYT	77C	
MGRSRCST	76C	
MGRSRDAS	734	
MGRSRDBB	6C4	6C4
MGRSRDBE	6C4	6E4
MGRSRDEB	6C4	
MGRSRDTD	788	10
MGRSRECT	784	
MGRSREXT	6C0	0
MGRSRINF	788	
MGRSRREL	788	40
MGRSRRPS	6F4	0
MGRSRTRC	778	
MGRSRTRK	774	
MGRSRVOL	6BA	
MGRSTART	638	
MGRSTMSL	9D0	18
MGRSTMST	9D0	0
MGRSWTRD	788	8
MGRTCLNT	A38	
MGRTCPYC	A20	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRTCPYM	A24	
MGRTCPYT	A18	
MGRTCUPC	A30	
MGRTCUPM	A34	
MGRTCUPT	A28	
MGRTDAST	8A4	
MGRTECKD	8C0	80
MGRTGBYT	8B0	
MGRTGDBB	820	820
MGRTGDBE	820	840
MGRTGDEB	820	
MGRTGENT	8B8	
MGRTGEXT	7B2	0
MGRTGINF	8C0	
MGRTGRPS	850	0
MGRTGSTT	8B4	
MGRGTGTG	8AC	
MGRTGTRC	8A0	
MGRTGTRK	89C	
MRTGVOL	7AC	
MRTGWRT	898	
MRTINTT	A08	
MRTMSGC	A60	
MRTNEWT	A40	
MRTOVRT	A48	
MRTDRTD	8C0	40
MRTRECT	8BC	
MRTSETT	A10	
MRTSRPS	8C0	10
MRTSTRT	A50	
MRTWTRD	8C0	20
MGRWBSTL	938	
MGRWBSTR	934	
MGRWRKA	680	0
MGRWRKB	688	
MGRXBUFA	9B0	
MGRXBUFL	9B4	
MGRXIXAC	A68	
MGRXIXAC_KEYUSED_DATA	A90	80

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXAC_KEYUSED_DATALEN	A90	40
MGRXIXAC_KEYUSED_SYSRC	A90	10
MGRXIXAC_KEYUSED_SYSRSN	A90	8
MGRXIXAC_KEYUSED_USERRC	A90	20
MGRXIXAC_XDATA	A78	
MGRXIXAC_XDATALEN	A7C	
MGRXIXAC_XEYECATCH	A69	
MGRXIXAC_XGROUPTOKEN	A84	
MGRXIXAC_XKEYS	A90	
MGRXIXAC_XMSGATTR	A91	
MGRXIXAC_XMSGATTR_EXPRESS	A91	40
MGRXIXAC_XMSGATTR_J3CONNECT	A91	80
MGRXIXAC_XMSGTOKEN	A70	
MGRXIXAC_XSTB	A6F	
MGRXIXAC_XSTB_NO	A6F	80
MGRXIXAC_XSTB_YES	A6F	40
MGRXIXAC_XSYSRC	A88	
MGRXIXAC_XSYSRSN	A8C	
MGRXIXAC_XUSERRC	A80	
MGRXIXAC_XVERSION	A68	
MGRXIXACL	A91	2A
MGRXIXAT	A68	
MGRXIXAT_XDIAG	A9C	
MGRXIXAT_XEYECATCH	A69	
MGRXIXAT_XFLAG1	A98	
MGRXIXAT_XFLAG2	A99	
MGRXIXAT_XGROUP	A70	
MGRXIXAT_XGROUPTOKEN	A94	
MGRXIXAT_XJ3CONNECT_NO	A99	80
MGRXIXAT_XJ3CONNECT_YES	A99	40
MGRXIXAT_XLINKPARMS	AA0	
MGRXIXAT_XMAINTLVL	A90	
MGRXIXAT_XMEMBER	A78	
MGRXIXAT_XRELEASE	A88	
MGRXIXAT_XRSV0001	A6F	
MGRXIXAT_XRSV0002	A9A	
MGRXIXAT_XVERSION	A68	
MGRXIXAT_XWHICHJES_COMMON	A98	8
MGRXIXAT_XWHICHJES_INIT	A98	10

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXAT_XWHICHJES_JES2	A98	80
MGRXIXAT_XWHICHJES_JES3	A98	40
MGRXIXAT_XWHICHJES_J2SP00L	A98	2
MGRXIXAT_XWHICHJES_J3CIFSS	A98	4
MGRXIXAT_XWHICHJES_J3FSS	A98	20
MGRXIXATL	AA0	40
MGRXIXDT	A68	
MGRXIXDT_XEYECATCH	A69	
MGRXIXDT_XGROUPTOKEN	A70	
MGRXIXDT_XLINKPARMS	A74	
MGRXIXDT_XRSV0001	A6F	
MGRXIXDT_XVERSION	A68	
MGRXIXDTL	A74	14
MGRXIXMB	A68	
MGRXIXMB_XEYECATCH	A69	
MGRXIXMB_XGROUPTOKEN	A8C	
MGRXIXMB_XMBOXNAME	A70	
MGRXIXMB_XPOSTALET	A88	
MGRXIXMB_XPOSTDATA	A84	
MGRXIXMB_XPOSTXIT	A80	
MGRXIXMB_XRSV0001	A6F	
MGRXIXMB_XSYSEVENT_NO	A90	40
MGRXIXMB_XSYSEVENT_YES	A90	80
MGRXIXMB_XSYSEVENTS	A90	
MGRXIXMB_XVERSION	A68	
MGRXIXMBL	A90	29
MGRXIXMC	A98	
MGRXIXMC_XEYECATCH	A99	
MGRXIXMC_XGROUPTOKEN	AB0	
MGRXIXMC_XMBOXNAME	AA0	
MGRXIXMC_XSTB	A9F	
MGRXIXMC_XSTB_NO	A9F	80
MGRXIXMC_XSTB_YES	A9F	40
MGRXIXMC_XVERSION	A98	
MGRXIXMCL	AB0	1C
MGRXIXMD	A68	
MGRXIXMD_XEYECATCH	A69	
MGRXIXMD_XGROUPTOKEN	A80	
MGRXIXMD_XMBOXNAME	A70	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXMD_XSTB	A6F	
MGRXIXMD_XSTB_NO	A6F	80
MGRXIXMD_XSTB_YES	A6F	40
MGRXIXMD_XVERSION	A68	
MGRXIXMDL	A80	1C
MGRXIXRM	A68	
MGRXIXRM_KEYUSED_MSGFETCH	A95	80
MGRXIXRM_XDATA	A80	
MGRXIXRM_XDATALEN	A84	
MGRXIXRM_XEYECATCH	A69	
MGRXIXRM_XGROUPTOKEN	A90	
MGRXIXRM_XKEYS	A95	
MGRXIXRM_XMBOXNAME	A70	
MGRXIXRM_XMSGFETCH	A94	
MGRXIXRM_XMSGFETCH_ACKS	A94	10
MGRXIXRM_XMSGFETCH_ALL	A94	80
MGRXIXRM_XMSGFETCH_MESSAGES	A94	40
MGRXIXRM_XMSGFETCH_SYSEVENT	A94	20
MGRXIXRM_XMSGTOKEN	A88	
MGRXIXRM_XRSV0001	A6F	
MGRXIXRM_XVERSION	A68	
MGRXIXRML	A95	2E
MGRXTOKN	9C8	
MGR1CANC	63C	14
MGR1INIT	63C	4
MGR1NORE	63C	0
MGR1PHA1	63C	8
MGR1PHA2	63C	C
MGR1REQU	63C	0
MGR1UNIN	63C	10
MGR3AWP1	8C3	8
MGR3AWP2	8C3	14
MGR3AW01	8C3	C
MGR3CACK	6B4	8
MGR3CANC	6B4	10
MGR3CNCL	8C3	2C
MGR3CNCM	8C3	30
MGR3COPY	8C3	10
MGR3ENDC	8C3	24

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
MGR3ENDR	8C3	20
MGR3INIT	8C3	4
MGR3MER	6B4	80
MGR3MOV	6B4	40
MGR3NOST	8C3	0
MGR3PERN	8C3	1C
MGR3PER2	8C3	18
MGR3P2CM	8C3	34
MGR3REQC	8C3	28
MGR3STAT	8C3	0
MGR3UNIT	8C3	38
MGR4COPY	6B5	80
MGR4PH1A	6B5	40
MGR4WAIS	6B5	20
MGR5CACK	6B7	40
MGR5CATC	6B6	40
MGR5CLER	6B6	10
MGR5COMP	6B6	20
MGR5PH2A	6B6	80
MGR5TLBM	6B6	1
MGR5TSET	6B6	2
MGR5WAIS	6B6	4
MGR5WAIT	6B6	8
MGR52PER	6B7	80
MGR6TSET	6B8	80
MGSPOLP	640	
MGSRMOBJ	68C	
MG1BITMB	63D	10
MG1ERABN	63D	80
MG1ERFL1	63D	
MG1MGBAD	63D	40
MG1RNBAD	63D	20
M00M1302	0	A68
M00M1304	0	A68
M00M1305	A92	
M00M1306	A68	
M00M1307	A68	
M00M1308	0	A68
M00M1309	A68	

Table 165. Cross Reference for \$DTEMIGR (continued)

Name	Offset	Hex Tag
M00M1310	0	A68

\$DTEOFF information

\$DTEOFF programming interface information

\$DTEOFF is a programming interface.

\$DTEOFF heading information

Common name:	Spool Offload subtask DTE Work Area
Macro ID:	\$DTEOFF
DSECT name:	DTE (\$DTEOFF is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DOFWLEN equate for the length of a Spool offload DTE extension.
Created by:	\$DTE DYN ATTACH, called from the Spool Offload I/O manager JES2 processor to ATTACH the Spool Offload subtask for the Spool Offload in response to a \$S command against a drained device. The subtask (and DTE) definitions are defined in the \$DTETAB tables.
Pointed to by:	The \$DTEOFF field of the \$HCT data area points into the \$DTEORG/\$DTELAST chain, to the first Spool Offload \$DTE control block. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used by the Spool-offload subtask. Other tasks can not use it.

Function:

The Spool-offload subtask DTE work area DSECT, \$DTEOFF, describes the work area extension to the DTE for that kind of subtask. The mapping defines the fields after label DTEWORK.

There is one Spool Offload I/O Manager PCE (defined by \$PCE control block) in a JES2 address space. This \$PCE attaches a spool offload subtask for each Spool Offload Device that is started via the \$S command. The JES2 \$DTEDYN service used for the ATTACH creates a DTE, mapped by the \$DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to communicate with its daughter tasks.

\$DTEOFF mapping

Table 166. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPOFF DTE WORK AREA EXTENSION
1592	(638)	DBL WORD	8	DOFWSTRT(0)	
1592	(638)	X'4'	0	DOFOPENR	"04" SUB-TASK REQUEST CODE FOR OPEN
1592	(638)	X'8'	0	DOFCLOSR	"08" SUB-TASK REQUEST CODE FOR CLOSE
1592	(638)	X'C'	0	DOFCHEKR	"12" SUB-TASK REQUEST CODE FOR CHECK DATA CONTROL BLOCK
1592	(638)	SIGNED	4	DOFDCBST(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1592	(638)	ADDRESS	4		
1596	(63C)	BITSTRING	12		FDAD, DVTBL
1608	(648)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1612	(64C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1613	(64D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1616	(650)	ADDRESS	2		BUFL, BUFFER LENGTH
1618	(652)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1620	(654)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1624	(658)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1625	(659)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1628	(65C)	BITSTRING	1		RECFM (RECORD FORMAT)
1629	(65D)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1632	(660)	CHARACTER	8		DDNAME
1640	(668)	BITSTRING	1		OFLGS (OPEN FLAGS)
1641	(669)	BITSTRING	1		IFLGS (IOS FLAGS)
1642	(66A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1644	(66C)	BITSTRING	1		OPTCD, OPTION CODES
1645	(66D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1648	(670)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1652	(674)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1654	(676)	ADDRESS	2		

Table 166. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1656	(678)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1660	(67C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1664	(680)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/ WRITES
1665	(681)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1668	(684)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1672	(688)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1674	(68A)	ADDRESS	2		LRECL
1676	(68C)	ADDRESS	4		CNTRL, NOTE, POINT
1676	(68C)	X'638'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB
DATA CONTROL BLOCK EXTENSION.					
1680	(690)	SIGNED	4	DOFDCBES(0)	0 Alignment and identifier
1684	(694)	SIGNED	2		4 DCBE V0 length, min is 56'
1686	(696)	BITSTRING	2		6 Reserved, should be zero
1688	(698)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1692	(69C)	BITSTRING	4		C Disk address of current member
1696	(6A0)	BITSTRING	1		10 Flags set by system
1697	(6A1)	BITSTRING	1		11 Flags set by user
1698	(6A2)	SIGNED	2		12 Number of stripes if extended format
1700	(6A4)	BITSTRING	1		14 Flags set by user
1701	(6A5)	BITSTRING	1		15 Flags
1702	(6A6)	BITSTRING	2		16 Reserved
1704	(6A8)	BITSTRING	4		18 Reserved
1708	(6AC)	SIGNED	4		1C Block size
1712	(6B0)	BITSTRING	8		20 Reserved & number of blocks in ds
1720	(6B8)	ADDRESS	4		28 End of data routine address or 0
1724	(6BC)	ADDRESS	4		2C I/O error routine (synchronous) or 0
1728	(6C0)	BITSTRING	4		30 Reserved, should be zero
1732	(6C4)	SIGNED	2		34 tape files written before sync
1734	(6C6)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
1734	(6C6)	X'690'	0	DOFDCBE	"DOFDCBES,*-DOFDCBES" DEFINE BASE, LENGTH OF DCBE
1736	(6C8)	SIGNED	4	DOFDECB	EVENT CONTROL BLOCK
1740	(6CC)	BITSTRING	1		TYPE FIELD
1741	(6CD)	BITSTRING	1		TYPE FIELD
1742	(6CE)	ADDRESS	2		LENGTH
1744	(6D0)	ADDRESS	4		DCB ADDRESS
1748	(6D4)	ADDRESS	4		AREA ADDRESS
1752	(6D8)	ADDRESS	4		RECORD POINTER WORD

Table 166. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
OFFLOAD DATA SET HEADER RECORD					
1756	(6DC)	BITSTRING	80	DOFHDBUF	OFFLOAD DATASET HEADER RECORD
1756	(6DC)	ADDRESS	1	DOFHVRSN	VERSION NUMBER
1756	(6DC)	X'2'	0	DOFHVRS1	"2" Current version number
1757	(6DD)	BITSTRING	3		RESERVED
1760	(6E0)	SIGNED	4	DOFHTIME	TIME VERIFICATION STAMP
1764	(6E4)	SIGNED	4	DOFHDATE	DATE VERIFICATION STAMP
1768	(6E8)	CHARACTER	8	DOFHNODE	Node name offload done on
1768	(6E8)	X'14'	0	DOFHDLEN	"*-DOFHVRSN" Length of header record
1776	(6F0)	ADDRESS	2	(0)	Generate assembly error if remapping is larger than base area
1776	(6F0)	SIGNED	4	(0)	
1776	(6F0)	ADDRESS	1	DOFABND	FLAGS FOR ESTAEX
1777	(6F1)	ADDRESS	1		SECOND FLAG BYTE
1778	(6F2)	ADDRESS	1		THIRD FLAG BYTE
1779	(6F3)	ADDRESS	1		VERSION NUMBER
1780	(6F4)	ADDRESS	4		TOKEN VALUE AREA
1784	(6F8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
1788	(6FC)	ADDRESS	4		ALET FOR PARM LIST
1792	(700)	ADDRESS	4		FOUR BYTE EXIT ADDR
DYNAMIC ALLOCATE PARAMETER LIST					
1796	(704)	ADDRESS	4	DOFDAST	
1800	(708)	ADDRESS	1	DOFDARB	LENGTH OF RB
1801	(709)	ADDRESS	1		ALLOCATE VERB CODE
1802	(70A)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1804	(70C)	SIGNED	2	DOFDAERR(2)	ERROR AND INFO CODE
1808	(710)	ADDRESS	4	DOFDATPP	POINTER TO TU POINTERS
1812	(714)	ADDRESS	4		RESERVED
1816	(718)	ADDRESS	1	(4)	FLAGS 2 FIELD
1820	(71C)	ADDRESS	4	DOFDATP1	
1824	(720)	ADDRESS	4	DOFDATP2	
1828	(724)	ADDRESS	4	DOFDATP3	
1832	(728)	ADDRESS	4	DOFDATP4	
1836	(72C)	ADDRESS	4	DOFDATP5	
1840	(730)	ADDRESS	4	DOFDATP6	
1844	(734)	ADDRESS	4	DOFDATP7	
1848	(738)	ADDRESS	4	DOFDATP8	
1852	(73C)	ADDRESS	4	DOFDATP9	
1856	(740)	ADDRESS	4	DOFDATPA	
1860	(744)	ADDRESS	4	DOFDATPB	
1864	(748)	ADDRESS	2	DOFDATU1	DSN=
1870	(74E)	CHARACTER	44	DOFDADSN	.....
1914	(77A)	ADDRESS	2	DOFDATU2	
1920	(780)	BITSTRING	1	DOFDADSP	DISP=OLD

Table 166. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1921	(781)	ADDRESS	2	DOFDATU3	RETURN DD NAME
1927	(787)	CHARACTER	8	DOFDADDN	
1935	(78F)	ADDRESS	2	DOFDATU4	UNITCT=
1941	(795)	ADDRESS	1	DOFDAUCT	NN
1942	(796)	ADDRESS	2	DOFDATU5	DISP=CATLG
1949	(79D)	ADDRESS	2	DOFDATU6(3)	UNIT=
1955	(7A3)	CHARACTER	8	DOFDAUNI	NAME (FROM XDCTUNIT)
1963	(7AB)	ADDRESS	2	DOFDATU7(3)	VOLUME COUNT
1969	(7B1)	ADDRESS	1	DOFDAVOL	MAXIMUM VOLUMES = 255
1970	(7B2)	ADDRESS	2	DOFDATU8(3)	LABEL=
1976	(7B8)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1977	(7B9)	ADDRESS	2	DOFDATU9(3)	RETENTION PERIOD
1983	(7BF)	ADDRESS	2	DOFDARPD	IN DAYS
1985	(7C1)	ADDRESS	2	DOFDATUA(2)	SAF PROTECTION OPTION
1989	(7C5)	ADDRESS	2	DOFDATUB(2)	UNIT=(,DEFER)
1993	(7C9)	CHARACTER	1	DOFDATNN(0)	End of text units
DYNAMIC UN-ALLOCATE PARAMETER LIST					
1996	(7CC)	ADDRESS	4	DOFDUST	
2000	(7D0)	ADDRESS	1	DOFDURB	LENGTH OF RB
2001	(7D1)	ADDRESS	1		UNALLOCATE VERB CODE
2002	(7D2)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
2004	(7D4)	SIGNED	2	(2)	ERROR AND INFO CODE
2008	(7D8)	ADDRESS	4	DOFDUTPP	POINTER TO TU POINTERS
2012	(7DC)	ADDRESS	4		RESERVED
2016	(7E0)	ADDRESS	1	(4)	FLAGS 2 FIELD
2020	(7E4)	ADDRESS	4	DOFDUTP1	
2024	(7E8)	ADDRESS	2	DOFDUTU1	DD NAME
2030	(7EE)	CHARACTER	8	DOFUDDN	
2040	(7F8)	SIGNED	4	DOFOPRM(0)	ALIGN LIST TO WORD
2040	(7F8)	ADDRESS	1		Option byte
2041	(7F9)	ADDRESS	3		DCB or ACB address
2044	(7FC)	SIGNED	4	DOFABDCC	ABEND COMPLETION CODE
2048	(800)	ADDRESS	4	DOFDCTPT	POINTER TO DCT FOR RECOVERY
2052	(804)	SIGNED	4	DOFWTECB	
Pseudo-buffer area for SYNAD/EODAD exits to use for 80-byte header of offload data set. DOFFLAG maps to SPBFLAG1; DOFSYBUF is the origin which corresponds to the start of the buffer.					
2056	(808)	BITSTRING	1	DOFFLAG	FLAG FOR SYNAD ROUTINE
		1...		DOFSYNAD	"B'10000000" I/O ERROR HAS OCCURED
		.1..		DOFEODAD	"B'01000000" END OF DATA HAS OCCURED
2056	(808)	X'7E6'	0	DOFSYBUF	"DOFFLAG-(SPBFLAG1-BFPDSECT)" Beginning of pseudo-buffer
2057	(809)	BITSTRING	3		Reserved for future use

Table 166. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Work area for messages issued from the offload subtask					
2060	(80C)	SIGNED	4	(0)	
2060	(80C)	SIGNED	4	DOFMSG(0)	
2060	(80C)	ADDRESS	2		TEXT LENGTH
2062	(80E)	BITSTRING	2		MCSFLAGS
2064	(810)	ADDRESS	4		MESSAGE TEXT ADDRESS
2068	(814)	ADDRESS	1		VERSION LEVEL
2069	(815)	BITSTRING	1		MISCELLANEOUS FLAGS
2070	(816)	ADDRESS	1		REPLY LENGTH
2071	(817)	ADDRESS	1		LENGTH OF WPX
2072	(818)	BITSTRING	2		EXTENDED MCS FLAGS
2074	(81A)	ADDRESS	2		RESERVED
2076	(81C)	ADDRESS	4		REPLY BUFFER ADDRESS
2080	(820)	ADDRESS	4		REPLY ECB ADDRESS
2084	(824)	ADDRESS	4		CONNECT ID
2088	(828)	BITSTRING	2		DESCRIPTOR CODES
2090	(82A)	ADDRESS	2		RESERVED
2092	(82C)	BITSTRING	16		
2108	(83C)	BITSTRING	2		MESSAGE TYPE
2110	(83E)	ADDRESS	2		MESSAGE'S PRIORITY
2112	(840)	CHARACTER	8		JOB ID
2120	(848)	CHARACTER	8		JOB NAME
2128	(850)	CHARACTER	8		RETRIEVAL KEY
2136	(858)	ADDRESS	4		TOKEN FOR DOM
2140	(85C)	ADDRESS	4		CONSOLE ID
2144	(860)	CHARACTER	8		SYSTEM NAME
2152	(868)	CHARACTER	8		CONSOLE NAME
2160	(870)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
2164	(874)	ADDRESS	4		CART ADDRESS
2168	(878)	ADDRESS	4		WSPARM ADDRESS
2168	(878)	X'70'	0	DOFMSGAL	"*-DOFMSGA"
2172	(87C)	ADDRESS	2	DOFMSGGL	
2174	(87E)	CHARACTER	100	DOFMSG	
2174	(87E)	X'2AA'	0	DOFWLEN	"*-DOFWSTRT"

Table 167. Cross Reference for \$DTEOFF

Name	Offset	Hex	Tag
DOFABDCC	7FC		
DOFABND	6F0		
DOFCHEKR	638		C
DOFCLOSR	638		8
DOFDADDN	787		

Table 167. Cross Reference for \$DTEOFF (continued)

Name	Offset	Hex Tag
DOFDADSN	74E	
DOFDADSP	780	1
DOFDAERR	70C	0
DOFDALBL	7B8	
DOFDARB	708	
DOFDARPD	7BF	
DOFDAST	704	
DOFDATNN	7C9	
DOFDATPA	740	
DOFDATPB	744	
DOFDATPP	710	
DOFDATP1	71C	
DOFDATP2	720	
DOFDATP3	724	
DOFDATP4	728	
DOFDATP5	72C	
DOFDATP6	730	
DOFDATP7	734	
DOFDATP8	738	
DOFDATP9	73C	
DOFDATUA	7C1	
DOFDATUB	7C5	
DOFDATU1	748	
DOFDATU2	77A	
DOFDATU3	781	
DOFDATU4	78F	
DOFDATU5	796	
DOFDATU6	79D	
DOFDATU7	7AB	
DOFDATU8	7B2	
DOFDATU9	7B9	
DOFDAUCT	795	
DOFDAUNI	7A3	
DOFDAVOL	7B1	
DOFDCB	68C	638
DOFDCBE	6C6	690
DOFDCBES	690	C4C3C2C5
DOFDCBST	638	
DOFDCTPT	800	

Table 167. Cross Reference for \$DTEOFF (continued)

Name	Offset	Hex Tag
DOFDECB	6C8	0
DOFDUDDN	7EE	
DOFDURB	7D0	
DOFDUST	7CC	
DOFDUTPP	7D8	
DOFDUTP1	7E4	
DOFDUTU1	7E8	
DOFEODAD	808	40
DOFFLAG	808	0
DOFHDATE	6E4	0
DOFHDBUF	6DC	0
DOFHDLEN	6E8	14
DOFHNODE	6E8	40404040
DOFHTIME	6E0	0
DOFHVRSN	6DC	
DOFHVRS1	6DC	2
DOFMSG	87E	40404040
DOFMSGA	80C	
DOFMSGAL	878	70
DOFMSGL	87C	
DOFOPENR	638	4
DOFOPRM	7F8	
DOFSYBUF	808	7E6
DOFSYNAD	808	80
DOFWLEN	87E	2AA
DOFWSTRT	638	
DOFWTECB	804	0
DTE	0	

\$DTESPL information

\$DTESPL programming interface information

The following field is **NOT** programming interface information:

- SPLSTWA

\$DTESPL heading information

Common name: HASP Dynamic Spool Allocation DTE Work Area

Macro ID: \$DTESPL

DSECT name: DTE (\$DTESPL is part of the DTE DSECT)

Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: See \$DTE Key: See \$DTE Residency: See \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and DSPLLEN for the length of a Dynamic Spool Allocation DTE extension.
Created by:	Created by \$DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.
Pointed to by:	The \$DTESPOL field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the first HOSPOOL DTE. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This work area is used serially by the HOSPOOL subtask. No special serialization is necessary.
Function:	The Spool Allocation DTE work area DSECT, \$DTESPOL, defines a work area used by the JES2 Dynamic Spool Allocation subtask (HOSPOOL). The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDSPL in the field DTESTID, indicating this DTE is a Dynamic Spool Allocation DTE.

\$DTESPL mapping

Table 168. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP SPOOL ALLOCATION WORK AREA
1592	(638)	CHARACTER	1	SPLSTART(0)	Start of SPL mapping
1592	(638)	ADDRESS	4	SPLUCBPT	UCB address
1596	(63C)	ADDRESS	4	SPLFCBA	Address of ECB for subtask
1600	(640)	ADDRESS	4	SPLTGMA	Volume TGM work area
1604	(644)	BITSTRING	32	SPLNQTK	ISGENQ token
1636	(664)	ADDRESS	4	SPLSTWA	Address subtask work area
1640	(668)	SIGNED	4	(10)	Reserved for future use
1640	(668)	X'58'	0	SPLNCLEA	"*-SPLUCBPT" Length to be *not* zeroed
1680	(690)	CHARACTER	1	SPLCSTRT(0)	Fields to be zeroed
1680	(690)	BITSTRING	1	SPLFLG1	REQUEST FLAG BYTE
		1...		SPL1FMT	"B'10000000'" Volume to be formatted
		.1..		SPL1NFMT	"B'01000000'" Volume not to be formatted

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SPL1MFMF	"B'00100000'" Vol to be mini-formatted
		...1		SPL1UNAL	"B'00010000'" Volume to be unallocated
		.... 1...		SPL1ALLO	"B'00001000'" Volume to be allocated
		.... .1..		SPL1BAD	"B'00000100'" Task attached for BADTRACK
		.... ..1.		SPL1WFMF	"B'00000010'" Volume was formatted
1681	(691)	BITSTRING	1	SPLFLG2	ERROR FLAG BYTE
		1...		SPL20BT	"B'10000000'" OBTAIN error
		.1..		SPL2FMT	"B'01000000'" I/O error during formatting
		..1.		SPL2RDER	"B'00100000'" SPOOL read or block length error
		...1		SPL2UNAL	"B'00010000'" Dynamic allocate error
		.... 1...		SPL2ABND	"B'00001000'" Sub-task ABENDED
		.... .1..		SPL2DVTP	"B'00000100'" DEVTYPE error
		.... ..1.		SPL2EXT	"B'00000010'" Extent size limited to 64K tracks due to number of records per track exceeds 15.
		.... ...1		SPL2SIZE	"B'00000001'" Data set size error
1682	(692)	BITSTRING	1	SPLFLG3	Subtask status flags
		1...		SPL3TGBG	"B'10000000'" Formatting 1st trk in TG
		.1..		SPL3ECKD	"B'01000000'" This is ECKD device
		..1.		SPL3RDTD	"B'00100000'" Extent supports read track data CCW
		...1		SPL3WTRD	"B'00010000'" Extent supports write track data CCW
		.... 1...		SPL3RELT	"B'00001000'" Volume using relative addressing
		.... .1..		SPL3LGDS	"B'00000100'" Volume using large data set addressing
		.... ..1.		SPL3NLGD	"B'00000010'" Not all members support large data sets
		.... ...1		SPL3RPS	"B'00000001'" Extent supports RPS
1683	(693)	BITSTRING	1	SPLFLG4	Additional ERROR flag byte
		1...		SPL4ENQF	"B'10000000'" Exclusive ENQ unable to be obtained
		.1..		SPL4UCBF	"B'01000000'" UCINFO macro failed
		..1.		SPL4CDRF	"B'00100000'" IOSCDR macro failed
		...1		SPL4NNED	"B'00010000'" No NED found
		.... 1...		SPL4DIAG	"B'00001000'" DIAGNOSE inst error
		.... .1..		SPL4NQSK	"B'00000100'" ENQ bypassed due to minor name construction problem(warm start only)
		.... ..1.		SPL4LSPA	"B'00000010'" LSPACE error - Error obtaining information on largest extent available
		.... ...1		SPL4LIMT	"B'00000001'" Spool dataset extent size exceeds 1,048,575 track limit

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1684	(694)	SIGNED	4	SPLNUMTC	\$\$SPL and this field contains the number of cylinders or tracks requested for a new volume if the \$\$SPL SPACE parm was specified
1688	(698)	BITSTRING	1	SPLFLG5	Additional flag byte
		1...		SPL5MAX	"B'10000000'" MAX - \$\$SPL and MAX has been specified on SPACE keyword parm
		.1..		SPL5CYLS	"B'01000000'" CYL - \$\$SPL and CYL has been specified on SPACE keyword parm
		..1.		SPL5TRKS	"B'00100000'" TRK - \$\$SPL and TRK has been specified on SPACE keyword parm
		...1		SPL5DSET	"B'00010000'" The spool subtask HOSPOOL created a spool dataset for this volume.
		.... .1..		SPL5MIDA	"B'00000100'" The extent supports MIDAWs
		.... ..1.		SPL5LARG	"B'00000010'" Non-LARGEDS is NOT option if records per track > 15. For move migration - handles difference in recs per track geometry when source is on 3380 and target is on 3390 and BUFSIZE is certain value.
1689	(699)	BITSTRING	1	SPLFLG6	Additional ERROR flag byte WARNING!! only used for spool subtask errors - SPLFLG2 also reflects subtask errors.
		1...		SPL6TRKG	"B'10000000'" Spool extent is too small
		.1..		SPL6DSNL	"B'01000000'" Non-standard DSNAM requested in z2 mode
		..1.		SPL6XTER	"B'00100000'" Extend spool failure
1690	(69A)	BITSTRING	1	SPLFLG7	Additional request flg byte
		1...		SPL7XTND	"B'10000000'" The HOSPOOL subtask request is EXTEND SPOOL
		.1..		SPL7ENQ	"B'01000000'" The SPOOL ENQ is held
1691	(69B)	BITSTRING	1		Ensure alignment
1692	(69C)	SIGNED	4	SPLURC	UCBINFO return code
1696	(6A0)	SIGNED	4	SPLURSN	UCBINFO reason code
1700	(6A4)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1704	(6A8)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1708	(6AC)	SIGNED	4	SPLDYNRB(0)	Dynamic allocate req block
1728	(6C0)	SIGNED	4	(0)	Ensure alignment
1728	(6C0)	BITSTRING	36	SPLDYRBX	Request block extension
1764	(6E4)	SIGNED	4	(0)	Ensure alignment
1764	(6E4)	ADDRESS	4	SPLDYMPA	Address of DYNALLOC alloc error message parameter list
1768	(6E8)	ADDRESS	4	SPLDMSG1	Address of returned MSG #1 for DYNALLOC failure
1772	(6EC)	ADDRESS	4	SPLDMSG2	Address of returned MSG #2 for DYNALLOC failure
1776	(6F0)	BITSTRING	540	SPLDYMSP	The parm list + returned formatted messages area
2316	(90C)	SIGNED	4	SPLDBTER	Obtain error return code
2320	(910)	ADDRESS	4	SPLTEXT(0)	LIST OF TEXT UNIT POINTERS
2320	(910)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT
2324	(914)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAM TEXT UNIT

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2328	(918)	ADDRESS	4	SPLUDSPA(0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCATION REQUESTS
2328	(918)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
2332	(91C)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
2336	(920)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
End of text unit pointers common for both deallocation and allocation.					
2340	(924)	ADDRESS	4	SPLEASTA	Pointer to EAS storage indicator. Valid for allocation DISP=(old/new)
Following text unit pointers are only valid for allocation (disp=new).					
2344	(928)	ADDRESS	4	SPLTRKNA	Pointer to track requested text unit
2348	(92C)	ADDRESS	4	SPLNUMTA	Pointer to number of units requested - text unit
2352	(930)	ADDRESS	4	SPLCONTA	Pointer to contiguous storage requested - text unit
2356	(934)	ADDRESS	4	SPLDKEPA	Pointer to data space disposition (KEEP) - TEXT unit
2360	(938)	ADDRESS	4	SPLDSORA	Pointer to DSORG requested text unit
2364	(93C)	ADDRESS	4	SPLDSTYA	Pointer to data set type specification
2368	(940)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
2374	(946)	CHARACTER	8	SPLDDNAM	DDNAME
2382	(94E)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
2388	(954)	CHARACTER	44	SPLDSNAM	DSNAME
2432	(980)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
2438	(986)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
2444	(98C)	BITSTRING	6	SPLUNTXT	UNIT TEXT
2450	(992)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
2458	(99A)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
2465	(9A1)	BITSTRING	4	SPLTRACK	Tracks requested text
2469	(9A5)	BITSTRING	9	SPLNUMTK	Number units requested text
2478	(9AE)	BITSTRING	7	SPLCONTX	Contig storage request text
2485	(9B5)	BITSTRING	8	SPLDSORT	Data set organization text
2493	(9BD)	BITSTRING	7	SPLDSKEP	Data set disp (KEEP) text
2500	(9C4)	BITSTRING	7	SPLDSTYP	Data set type = basic or large format
2507	(9CB)	BITSTRING	7	SPLEASTX	Data set may or may not reside in EAS storage
2516	(9D4)	SIGNED	4	SPLCMLST(4)	CAMLST FOR OBTAIN
2536	(9E8)	DBL WORD	8	SPLDSCB(0)	OBTAIN WORK AREA
2684	(A7C)	BITSTRING	1	SPLINEAS	Indication that all or at least a portion of the extent resides in EAV - EAS storage.
		1...		SPLEAS	"B'10000000'" Yes - in EAS
2685	(A7D)	BITSTRING	3		Reserved for future use
2688	(A80)	SIGNED	4	(0)	Ensure alignment
2688	(A80)	CHARACTER	8	SPLSTRCC(0)	VOLUME'S FIRST EXTENT

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2688	(A80)	SIGNED	2	SPLWLIM(2)	LOWER CCcch of 1st extent Note: stored in absolute format
2692	(A84)	SIGNED	2	SPLUPLIM(2)	UPPER CCcch of 1st extent Note: stored in absolute format
2696	(A88)	SIGNED	4	SPLCRC	IOSCDR return code
2700	(A8C)	SIGNED	4	SPLCRSN	IOSCDR reason code
<p>SPLABS is the absolute start and end track returned from allocating a spool data set. SPLTRK is the 2 byte track range that is to be placed in the DAS. SPLTRK are relative track numbers if SPL3RELT is on, otherwise they are absolute track numbers. if relative addresses are used, the low track is always 1. SPLSTRK is the value to add to a relative track address to get an absolute track address. If absolute addressing is being used, SPLSTRK is zero. (You can always add SPLSTRK to a track address to obtain an absolute track address).</p>					
2704	(A90)	DBL WORD	8	SPLABS(0)	DS start/end absolute track
2704	(A90)	SIGNED	4	SPLOWABS	Start absolute track no.
2708	(A94)	SIGNED	4	SPLUPABS	End absolute track number
2712	(A98)	DBL WORD	8	SPLTRK(0)	SPOOL start and end track
2712	(A98)	SIGNED	4	SPLOWTRK	Start track value
2716	(A9C)	SIGNED	4	SPLUPTRK	End track value
2720	(AA0)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
2724	(AA4)	BITSTRING	48	SPLIOBE	Reserve space for IOB extension
2772	(AD4)	SIGNED	4	(0)	Ensure word alignment
2772	(AD4)	BITSTRING	48	SPLIEDB	Reserve space for I/O error data block
2820	(B04)	BITSTRING	1	SPLDEB	SPOOL DEB address
2820	(B04)	X'B04'	0	SPLDEBB	"SPLDEB,DEBBASIZ" DEB basic
2820	(B04)	X'B24'	0	SPLDEBE	"SPLDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2868	(B34)	ADDRESS	4	SPLNVL	NVL address (during init)
2872	(B38)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
2876	(B3C)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
2880	(B40)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
2882	(B42)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
2884	(B44)	SIGNED	4	SPLINTRK	Expected number of tracks or zero (set from DAS on warm start)
2888	(B48)	SIGNED	4	SPLNMTRK	Number of tracks in extent
2892	(B4C)	SIGNED	4	SPLNOBYM	Number of bytes in TGM
2896	(B50)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
2900	(B54)	SIGNED	4	SPLMAXTG	Copy of \$NUMTG from HCT
2904	(B58)	ADDRESS	4	SPLFMTWA	SPFORMAT work area address
2908	(B5C)	SIGNED	4	SPLFMTWL	SPFORMAT work area size
2912	(B60)	ADDRESS	4	SPLFMTWD	Work area data section ptr
2916	(B64)	ADDRESS	4	SPLFMTDA	Format buffer write area
2920	(B68)	DBL WORD	8	SPLCCWS(0)	CCWS FOR READ COUNT-KEY-DATA
2920	(B68)	DBL WORD	8	SPLCCW1	1ST CCW
2928	(B70)	DBL WORD	8	SPLCCW2	2ND CCW

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2936	(B78)	DBL WORD	8	SPLCCW3	3RD CCW
2944	(B80)	DBL WORD	8	SPLRDCT	READ-IN AREA
2952	(B88)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD
Fields used as input to SPFORMAT					
2960	(B90)	DBL WORD	8	(0)	Alignment
2960	(B90)	CHARACTER	7	SPLFMSTR	MBBCCHH of the first/only track to be formatted
2967	(B97)	CHARACTER	1		Reserved
2968	(B98)	CHARACTER	7	SPLFMEND	MMBCCHH of last track to be formatted.
2975	(B9F)	CHARACTER	1		Reserved
Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)					
2976	(BA0)	BITSTRING	1	SPLMFPRM	SPMINIFM parameter list
SPLOUTP and SPLOUTPL describe an output area used by the UCINFO and IOSCDR macros.					
3008	(BC0)	ADDRESS	4	SPLOUTP	Address of output area
3012	(BC4)	SIGNED	4	SPLOUTPL	Length of output area
3016	(BC8)	SIGNED	4	SPLCDRAS	Size of IOSCDR output area necessary
3020	(BCC)	SIGNED	4	SPLDIAGR	DIAGNOSE return code
3024	(BD0)	BITSTRING	1	SPLCHPID	CHPID used for IOSCDR
3025	(BD1)	BITSTRING	3		Reserved for future use
3028	(BD4)	SIGNED	4	(4)	Reserved for future use
3048	(BE8)	DBL WORD	8	(0)	
3048	(BE8)	BITSTRING	1	SPLXDS	\$EXTENDS list form
3048	(BE8)	X'64'	0	SPLXDLN	"*-SPLXDS" Length of parm list
3148	(C4C)	SIGNED	4	SPLMXTRK	Maximum number of tracks allowed in a SPOOL.
3152	(C50)	BITSTRING	1	SPLEXTNO	Extent number
3153	(C51)	CHARACTER	1		Reserved for alignment
MACDATE -01/22/01-<1>					
0	(0)	X'C58'	0	M00M1311	"SPLCAPU" ++ IOSCAPU NAME
3160	(C58)	DBL WORD	8	SPLCAPU(0)	++ IOSCAPU PARM LIST
3160	(C58)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
3161	(C59)	BITSTRING	1	SPLCAPU_XFLAGS1	++ FIELD_LABEL
	1... ..			SPLCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
	.1..			SPLCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
	..1.			SPLCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
	...1			SPLCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
	.... 1...			SPLCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD

Table 168. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		SPLCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
3162	(C5A)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
3164	(C5C)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
3168	(C60)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR
3172	(C64)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
3173	(C65)	BITSTRING	1	SPLCAPU_XMASK	++ FIELD_LABEL
		1...		SPLCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		SPLCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		SPLCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		SPLCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
3174	(C66)	BITSTRING	2	SPLCAPU_XASID	++ XASID
3176	(C68)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
3176	(C68)	X'20'	0	SPLCAPUL	"*-SPLCAPU" ++ LENGTH OF PLIST
IOSCAPU-1					
0	(0)	X'9E8'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'A38'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK AREAS
0	(0)	X'A42'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
3192	(C78)	DBL WORD	8	(0)	EST DOUBLE WORD ALIGNMENT
3192	(C78)	X'690'	0	SPLCLEAR	"SPLCSTRT" Area to be zeroed
3192	(C78)	X'5E8'	0	SPLCLRLN	"*-SPLCSTRT" Length of area to clear
3192	(C78)	X'640'	0	DSPLLEN	"*-DTEWORK" Length of work area

Table 169. Cross Reference for \$DTESPL

Name	Offset	Hex Tag
DSPLLEN	C78	640
DTE	0	
M00M1311	0	C58
SPLABS	A90	
SPLCAPU	C58	
SPLCAPU_KEYUSED_ASID	C59	10
SPLCAPU_KEYUSED_CAPTOACT	C59	20
SPLCAPU_KEYUSED_CAPTPTR	C59	4
SPLCAPU_KEYUSED_CAPTUCB	C59	80
SPLCAPU_KEYUSED_UCAPTUCB	C59	40
SPLCAPU_KEYUSED_UCBPTR	C59	8
SPLCAPU_XASID	C66	
SPLCAPU_XCAPTCOM_NEVER	C65	10
SPLCAPU_XCAPTCOM_YES	C65	20
SPLCAPU_XCAPTPTR	C60	

Table 169. Cross Reference for \$DTESPL (continued)

Name	Offset	Hex Tag
SPLCAPU_XFLAGS1	C59	
SPLCAPU_XLASTING_YES	C65	40
SPLCAPU_XMASK	C65	
SPLCAPU_XMSIFREE_YES	C65	80
SPLCAPU_XRESERVED1	C5A	
SPLCAPU_XRESERVED2	C64	
SPLCAPU_XRESERVED3	C68	
SPLCAPU_XUCBPTR	C5C	
SPLCAPU_XVERSION	C58	
SPLCAPUL	C68	20
SPLCC	0	A42
SPLCCWS	B68	
SPLCCW1	B68	
SPLCCW2	B70	
SPLCCW3	B78	
SPLCDRAS	BC8	
SPLCFLDS	B88	
SPLCHAIN	6A4	
SPLCHPID	BD0	
SPLCLEAR	C78	690
SPLCLRLN	C78	5E8
SPLCMLST	9D4	
SPLCONTA	930	
SPLCONTX	9AE	
SPLCRC	A88	
SPLCRSN	A8C	
SPLCSTRT	690	
SPLDDNAM	946	
SPLDDTA	910	
SPLDDTXT	940	
SPLDEB	B04	
SPLDEBB	B04	B04
SPLDEBE	B04	B24
SPLDIAGR	BCC	
SPLDKEPA	934	
SPLDMSG1	6E8	
SPLDMSG2	6EC	
SPLDPTXT	99A	
SPLDSCB	9E8	

Table 169. Cross Reference for \$DTESPL (continued)

Name	Offset	Hex Tag
SPLDSKEP	9BD	
SPLDSNAM	954	
SPLDSNTA	914	
SPLDSORA	938	
SPLDSORT	9B5	
SPLDSPTA	920	
SPLDSTXT	94E	
SPLDSTYA	93C	
SPLDSTYP	9C4	
SPLDYMPA	6E4	
SPLDYMSP	6F0	
SPLDYNAL	6A8	
SPLDYNRB	6AC	
SPLDYRBX	6C0	
SPLEAS	A7C	80
SPLEASTA	924	
SPLEASTX	9CB	
SPLECBA	63C	
SPLENQTK	644	
SPLEXDLN	BE8	64
SPLEXDS	BE8	0
SPLEXTNO	C50	
SPLFLG1	690	
SPLFLG2	691	
SPLFLG3	692	
SPLFLG4	693	
SPLFLG5	698	
SPLFLG6	699	
SPLFLG7	69A	
SPLFMEND	B98	
SPLFMSTR	B90	
SPLFMTDA	B64	
SPLFMTWA	B58	
SPLFMTWD	B60	
SPLFMTWL	B5C	
SPLIEDB	AD4	
SPLINEAS	A7C	
SPLINTRK	B44	
SPLIOBE	AA4	

Table 169. Cross Reference for \$DTESPL (continued)

Name	Offset	Hex Tag
SPLMAXTG	B54	
SPLMFPRM	BA0	
SPLMSG	0	9E8
SPLMXTRK	C4C	
SPLNCLEA	668	58
SPLNMTRK	B48	
SPLNOBYM	B4C	
SPLNORTK	B40	
SPLNOTGP	B42	
SPLNUMTA	92C	
SPLNUMTC	694	
SPLNUMTG	B50	
SPLNUMTK	9A5	
SPLNVL	B34	
SPLOBTER	90C	
SPLOUTP	BC0	
SPLOUTPL	BC4	
SPLWABS	A90	
SPLWLIM	A80	
SPLWTRK	A98	
SPLRDCT	B80	
SPLSTART	638	
SPLSTRCC	A80	
SPLSTRK	AA0	
SPLSTWA	664	
SPLTCBPT	B38	
SPLTEXT	910	
SPLTGMA	640	
SPLTKCYL	B3C	
SPLTRACK	9A1	
SPLTRK	A98	
SPLTRKNA	928	
SPLUCBPT	638	
SPLUDSPA	918	
SPLUNIT	992	
SPLUNITA	91C	
SPLUNTXT	98C	
SPLUPABS	A94	
SPLUPLIM	A84	

Table 169. Cross Reference for \$DTESPL (continued)

Name	Offset	Hex Tag
SPLUPTRK	A9C	
SPLURC	69C	
SPLURSN	6A0	
SPLVLTXT	980	
SPLVOLID	986	
SPLVOLTA	918	
SPLWORK	0	A38
SPL1ALLO	690	8
SPL1BAD	690	4
SPL1FMT	690	80
SPL1MFMT	690	20
SPL1NFMT	690	40
SPL1UNAL	690	10
SPL1WFMT	690	2
SPL2ABND	691	8
SPL2DVTP	691	4
SPL2EXT	691	2
SPL2FMT	691	40
SPL20BT	691	80
SPL2RDER	691	20
SPL2SIZE	691	1
SPL2UNAL	691	10
SPL3ECKD	692	40
SPL3LGDS	692	4
SPL3NLGD	692	2
SPL3RDTD	692	20
SPL3RELT	692	8
SPL3RPS	692	1
SPL3TGBG	692	80
SPL3WTRD	692	10
SPL4CDRF	693	20
SPL4DIAG	693	8
SPL4ENQF	693	80
SPL4LIMT	693	1
SPL4LSPA	693	2
SPL4NNED	693	10
SPL4NQSK	693	4
SPL4UCBF	693	40
SPL5CYLS	698	40

Table 169. Cross Reference for \$DTESPL (continued)

Name	Offset	Hex Tag
SPL5DSET	698	10
SPL5LARG	698	2
SPL5MAX	698	80
SPL5MIDA	698	4
SPL5TRKS	698	20
SPL6DSNL	699	40
SPL6TRKG	699	80
SPL6XTER	699	20
SPL7ENQ	69A	40
SPL7XTND	69A	80

\$DTESUBS information

\$DTESUBS programming interface information

\$DTESUBS is a programming interface.

\$DTESUBS heading information

Common name: HASPSUBS DTE Work Area Extension

Macro ID: \$DTESUBS

DSECT name: DTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: DTE
Offset: DTEID
Length: L'DTEID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual in 24 bit storage, real in 31 bit storage in the JES2 address space

Size: See DSUBLEN

Created by: \$DTEDYNA service in HASPDYN

Pointed to by: \$DTEGSUB field of the HCT data area
DTENEXT field of the DTE data area
DTEPREV field of the DTE data area
SBWQORG field of the STWORK data area
DSUBNXT field of the DTE data area

Serialization: None required

Function: The \$DTESUBS DSECT maps the work area extension for the HASPSUBS subtask(s).

\$DTESUBS mapping

Table 170. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPSUBS DTE work area ext
1592	(638)	BITSTRING	1	DSUBFLG1	Flags
		1...		DSUB1NSQ	"B'10000000" SQD invalid or unavailable
		.1..		DSUB1DEC	"B'01000000" Subtask count decremented
1593	(639)	BITSTRING	3		Reserved
1596	(63C)	ADDRESS	4	DSUBSQD	Address of work SQD
1600	(640)	ADDRESS	4	DSUBNXT	Address of next subtask in chain
1604	(644)	ADDRESS	4	DSUBSAVE	Address of save area used by called routine
Subtask VRA and recovery fields.					
1608	(648)	ADDRESS	4		Reserved
1612	(64C)	SIGNED	2	DSUBABND	Subtask abend count
1614	(64E)	BITSTRING	2		Reserved
1616	(650)	CHARACTER	8	DSUBRNAM	Routine name
1624	(658)	ADDRESS	4	DSUBCLRA	\$SUBIT caller address
1628	(65C)	CHARACTER	8	DSUBMOD	\$SUBIT caller module name
1636	(664)	SIGNED	4	DSUBOFF	\$SUBIT caller offset
1640	(668)	BITSTRING	1	DSUBFOOT	Subtask footprint flag byte
		1...		DSUBFTWK	"B'10000000" Set prior to obtaining work
		.1..		DSUBFTST	"B'01000000" Set prior to processing request
		..1.		DSUBFTCL	"B'00100000" Set prior to calling routine
		...1		DSUBFTRC	"B'00010000" Set following return from routine
		.... 1...		DSUBFTPS	"B'00001000" Set following caller post
		.... .1..		DSUBFTSQ	"B'00000100" Set prior to subtask queuing
		.... ..1.		DSUBFTWT	"B'00000010" Set prior to subtask wait
1641	(669)	BITSTRING	7		Reserved
1648	(670)	DBL WORD	8	DSUBPRFS(0)	Perf stats for SUBSPERF
1648	(670)	DBL WORD	8	DSUBQTIM	Last SQD queue time (micro)
1656	(678)	DBL WORD	8	DSUBRTIM	Last SQD run time (micro)
1664	(680)	DBL WORD	8	DSUBCTIM	Last SQD CPU time (micro)
1672	(688)	DBL WORD	8		Reserved
MACRO-DATE = 03/16/2015					
1680	(690)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1680	(690)	X'690'	0	DSUBDEQL	"*" X02113
1680	(690)	ADDRESS	1		PELLAST flag byte. X02113
1681	(691)	ADDRESS	1		PELMILEN - RNAME length.
1682	(692)	BITSTRING	1		

Table 170. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
PELFLAG - flag byte 2.					
1683	(693)	ADDRESS	1		PELRET - return code byte.
1684	(694)	ADDRESS	4		QNAME ADDRESS
1688	(698)	ADDRESS	4		RNAME ADDRESS
1688	(698)	X'690'	0	DSUBDQLS	"DSUBDEQL,*-DSUBDEQL" DEQ list form symbol
1696	(6A0)	DBL WORD	8	(0)	Align
1696	(6A0)	X'68'	0	DSUBLEN	"*-DTEWORK" HASPSUBS work area length

Table 171. Cross Reference for \$DTESUBS

Name	Offset	Hex	Tag
DSUBABND	64C		
DSUBCLRA	658		
DSUBCTIM	680		
DSUBDEQL	690		690
DSUBDQLS	698		690
DSUBFLG1	638		
DSUBFOOT	668		
DSUBFTCL	668		20
DSUBFTPS	668		8
DSUBFTRC	668		10
DSUBFTSQ	668		4
DSUBFTST	668		40
DSUBFTWK	668		80
DSUBFTWT	668		2
DSUBLEN	6A0		68
DSUBMOD	65C		
DSUBNXT	640		
DSUBOFF	664		
DSUBPRFS	670		
DSUBQTIM	670		
DSUBRNAM	650		
DSUBRTIM	678		
DSUBSAVE	644		
DSUBSQD	63C		
DSUB1DEC	638		40
DSUB1NSQ	638		80
DTE	0		

\$DTEVTAM information

\$DTEVTAM programming interface information

\$DTEVTAM is a programming interface.

\$DTEVTAM heading information

Common name:	HASPV TAM subtask DTE work area extension
Macro ID:	\$DTEVTAM
DSECT name:	DTE (\$DTEVTAM is part of the DTE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage attributes:	Subpool: see \$DTE Key: see \$DTE Residency: see \$DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DVTMLen equate for the length of a VTAM DTE extension.
Created by:	\$DTE DYN ATTACH, called from JES2 initialization processing to ATTACH the DTEs to be associated with a LOGON device. The subtask (and DTE) definitions are defined in the \$DTE TAB tables.
Pointed to by:	The \$DTEVTM pointer in the \$HCT control block, pointing into the \$DTEORG/\$DTE LAST chain, to the first VTAM \$DTE control block. See \$DTE for other pointer fields that apply to all DTE types.
Serialization:	This work area is used serially by the HASPV TAM subtask. No special serialization is necessary. The chain fields should only be managed by the JES2 main task \$DTE DYN and subtask RAS facilities.
Function:	This DSECT maps the DTE work area extension for HASPV TAM subtask. The work area is used to pass parameters to VTAM.

\$DTEVTAM mapping

Table 172. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPV TAM DTE WORK AREA EXTENSION
1592	(638)	ADDRESS	1	DVTMPWDL	LENGTH OF NODE PASSWORD
1593	(639)	CHARACTER	8	DVTMPSWD	NODE PASSWORD
1601	(641)	ADDRESS	1	DVTMAPNL	LENGTH OF APPL NAME

Table 172. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1602	(642)	CHARACTER	8	DVTMAPLN	APPL NAME
1602	(642)	X'12'	0	DVTMLN	"*-DTEWORK" LENGTH OF WORK AREA

\$DTEWTO information

\$DTEWTO programming interface information

The following fields are **NOT** programming interface information:

- CSACID
- CSACIDCH

\$DTEWTO heading information

Common name: HASPWTO Subtask DTE Work Area Extension (DWTO)

Macro ID: \$DTEWTO

DSECT name: DTE (\$DTEWTO is part of the DTE DSECT)

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4

Storage attributes: Subpool: see \$DTE
Key: see \$DTE
Residency: see \$DTE

Size: See the DTELEN equate for the length of the base DTE, and the DWTOLEN equate for the length of a WTO DTE extension.

Created by: \$DTEDYN ATTACH called during JES2 initialization. The subtask (and DTE) definitions are defined by the \$DTETAB definitions.

Pointed to by: The \$DTEWTO field of the \$HCT data area points into \$DTEORG/\$DTELAST chain to the one WTO DTE. See \$DTE for other pointer fields that apply to all DTE types.

Serialization: This area is used serially by callers using \$WTO \$CWTO, or \$BLDMSG (under the main task) and by the HASPWTO subtask. Fields that should be used only by the main task begin at label CSARDWRK.

Function: The Write To Operator subtask DTE work area DSECT, \$DTEWTO, describes the work area extension to the DTE for that subtask. The mapping defines the fields after label DTEWORK. The \$DTEWTO area is used by the write-to-operator routine running under the JES2 main task. It is also used by the one (and only one) HASPWTO subtask.

\$DTEWTO mapping

Table 173. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPCON DTE WORK AREA EXT
1592	(638)	ADDRESS	4	CSACONWQ	HASPCON subtask work queue
NORMAL WTO FORMAT					
1600	(640)	DBL WORD	8	CSA(0)	
1600	(640)	SIGNED	4	CSAWTOL(0)	
1600	(640)	ADDRESS	2		TEXT LENGTH
1602	(642)	BITSTRING	2		MCSFLAGS
1604	(644)	CHARACTER	53		
1729	(6C1)	ADDRESS	1		VERSION LEVEL
1730	(6C2)	BITSTRING	1		MISCELLANEOUS FLAGS
1731	(6C3)	ADDRESS	1		REPLY LENGTH
1732	(6C4)	ADDRESS	1		LENGTH OF WPX
1733	(6C5)	BITSTRING	2		EXTENDED MCS FLAGS
1735	(6C7)	ADDRESS	2		RESERVED
1737	(6C9)	ADDRESS	4		REPLY BUFFER ADDRESS
1741	(6CD)	ADDRESS	4		REPLY ECB ADDRESS
1745	(6D1)	ADDRESS	4		CONNECT ID
1749	(6D5)	BITSTRING	2		DESCRIPTOR CODES
1751	(6D7)	ADDRESS	2		RESERVED
1753	(6D9)	BITSTRING	16		
1769	(6E9)	BITSTRING	2		MESSAGE TYPE
1771	(6EB)	ADDRESS	2		MESSAGE'S PRIORITY
1773	(6ED)	CHARACTER	8		JOB ID
1781	(6F5)	CHARACTER	8		JOB NAME
1789	(6FD)	CHARACTER	8		RETRIEVAL KEY
1797	(705)	ADDRESS	4		TOKEN FOR DOM
1801	(709)	ADDRESS	4		CONSOLE ID
1805	(70D)	CHARACTER	8		SYSTEM NAME
1813	(715)	CHARACTER	8		CONSOLE NAME
1821	(71D)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1825	(721)	ADDRESS	4		CART ADDRESS
1829	(725)	ADDRESS	4		WSPARM ADDRESS
1829	(725)	X'729'	0	CSAWPXEN	"*" END OF WPX
Extensions for MLWTO. These must IMMEDIATELY follow the WPX (generated by the WTO list form)					
1833	(729)	ADDRESS	2	CSALINET	LINE TYPE FIELD
1835	(72B)	BITSTRING	1	CSALAREA	AREA ID
1836	(72C)	BITSTRING	1	CSALNUM	NUMBER OF LINES
1836	(72C)	X'72D'	0	CSAMLEND	"*" End of MLWTO extensions
Map the fields prior to and including the message text					
1600	(640)	SIGNED	2	CSAMSGL	MESSAGE LENGTH + 4

Table 173. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1602	(642)	SIGNED	2	CSAMCS	MCS FLAGS
1604	(644)	CHARACTER	125	CSAMSG	TEXT
1604	(644)	X'81'	0	CSASLEN	"*-CSAMSG" STANDARD WTO LENGTH
1604	(644)	X'6C1'	0	CSATRAIL	"*" START OF TRAILER FIELDS
1604	(644)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRAIL" Length of WPX plus MLWTO extensions
End of WPL parameter list area					
1840	(730)	SIGNED	4	(0)	Full word align
1840	(730)	CHARACTER	8	CSAJOBID	Job ID
1848	(738)	CHARACTER	8	CSAJOBNM	Job name
1856	(740)	CHARACTER	8	CSAKEY	Retrieval key (PCE name)
1864	(748)	BITSTRING	3	CSANFM(0)	SYSTEM ID OF SENDER
1864	(748)	BITSTRING	2		NODE NUMBER
1866	(74A)	BITSTRING	1		NODE QUALIFIER
1867	(74B)	BITSTRING	1		RESERVED
1868	(74C)	ADDRESS	4	CSACIDCH	CID (connect id) chain
1872	(750)	ADDRESS	4	CSACID	CID for current CMB
1876	(754)	ADDRESS	4	CSACMB	Current CMB
Workarea for HASPCON PCE level service routines					
1880	(758)	BITSTRING	2	CSARDWRK	LOGICAL ROUTING WORK AREA
1882	(75A)	ADDRESS	1	CSAW(4)	
1898	(76A)	BITSTRING	8		
1898	(76A)	X'2A'	0	CSAWLEN	"*-CSAW"
1924	(784)	BITSTRING	1	DWTOFLG1	Flags
		1...		DWT01WAT	"B'10000000'" \$WAIT tolerated by caller
MGCRE work area					
1928	(788)	DBL WORD	8	(0)	Alignment
1928	(788)	SIGNED	2	CSAMGMF(0)	MGCRE PARAMTER LIST
1928	(788)	ADDRESS	1		FLAG FIELD '00'
1929	(789)	ADDRESS	1		RESERVED
1930	(78A)	BITSTRING	1		FLAG FIELD
1931	(78B)	BITSTRING	1		FLAG FIELD 2
1932	(78C)	CHARACTER	5		CONTROL BLOCK ACRONYM 'MGCRE'
1937	(791)	ADDRESS	1		VERSION LEVEL
1938	(792)	BITSTRING	1		FLAG FIELD 3
1939	(793)	ADDRESS	1		RESERVED
1940	(794)	ADDRESS	4		ADDRESS OF THE COMMAND TEXT
1944	(798)	ADDRESS	4		TOKEN
1948	(79C)	CHARACTER	8		CONSOLE NAME
1956	(7A4)	ADDRESS	4		CONSOLE ID
1960	(7A8)	BITSTRING	1		COMMAND DISPOSITION
1961	(7A9)	BITSTRING	2		COMMAND AUTHORITY LEVEL

Table 173. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1963	(7AB)	BITSTRING	1		RESERVED
1964	(7AC)	BITSTRING	8		COMMAND AND RESPOSE TOKEN
1972	(7B4)	BITSTRING	8		SYSTEM NAME
1980	(7BC)	ADDRESS	4		UTOKEN ADDRESS
1984	(7C0)	BITSTRING	4		RESERVED
1984	(7C0)	X'788'	0	CSAMGMFL	"CSAMGMF,*-CSAMGMF" MGCRC list form
1988	(7C4)	SIGNED	2	CSAMGCLN	Command text length
1990	(7C6)	CHARACTER	126	CSAMGCMD	Command text
2120	(848)	DBL WORD	8	(0)	
2120	(848)	X'210'	0	DWTOLN	"*-DTEWORK" LENGTH OF WORK AREA

Table 174. Cross Reference for \$DTEWTO

Name	Offset	Hex Tag
CSA	640	
CSACID	750	
CSACIDCH	74C	
CSACMB	754	
CSACONWQ	638	
CSAJOBID	730	40404040
CSAJOBNM	738	40404040
CSAKEY	740	40404040
CSALAREA	72B	0
CSALINET	729	
CSALNUM	72C	1
CSALSIZ	644	6C
CSAMCS	642	
CSAMGCLN	7C4	
CSAMGCMD	7C6	
CSAMGMF	788	
CSAMGMFL	7C0	788
CSAMLEND	72C	72D
CSAMSG	644	
CSAMSGL	640	
CSANFM	748	
CSARDWRK	758	0
CSASLEN	644	81
CSATRIL	644	6C1
CSAW	75A	
CSAWLEN	76A	2A
CSAWPXEN	725	729

Table 174. Cross Reference for \$DTEWTO (continued)

Name	Offset	Hex Tag
CSAWTOL	640	
DTE	0	
DWTOFLG1	784	
DWTOLEN	848	210
DWT01WAT	784	80

\$DWA information

\$DWA heading information

Common name:	HASP \$DILBERT Work Area
Macro ID:	\$DWA
DSECT name:	DWA
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	DWAEYE Offset: DWAEYE-DWA Length: L'DWAEYE
Storage attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See DWASIZE
Created by:	\$DILBERT service
Pointed to by:	Field \$DILHEAD in the \$HCT data area Field \$DILTAIL in the \$HCT data area Field DWANEXT in the \$DWA data area Field DWAPREV in the \$DWA data area Field DWANXTEL in the \$DWA data area Field DWAPRVEL in the \$DWA data area
Serialization:	None Required
Function:	Represent requests made using the \$DILBERT macro instruction that specifies a routine to be called when the BERT lock for a specific job is released.

\$DWA mapping

Table 175. Structure DWA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DWA	, HASP \$DILBERT Work Area
0	(0)	CHARACTER	4	DWAEYE	Eyecatcher
4	(4)	BITSTRING	1	DWATYPE	Type
5	(5)	BITSTRING	1	DWAPFLG1	Flags See \$DILFLG1 in \$PARMLST
6	(6)	BITSTRING	1	DWAPFLG2	Flags See \$DILFLG2 in \$PARMLST

Table 175. Structure DWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	BITSTRING	1	DWAFLAG9	Internal flags
		1...		DWA9QUED	"B'10000000'" DWA was queued
Backend processing is required when the processing at the end of calling the processing routine which was required to update the BERTs would have required a \$WAIT in \$DOGBERT.					
		.1..		DWA9BEND	"B'01000000'" Backend processing req.
		..1.		DWA9NBRT	"B'00100000'" Failed ... BERT shortage
		...1		DWA9PROS	"B'00010000'" DWA being processed now
		.... 1...		DWA9SPEC	"B'00001000'" Use SPECIAL=YES
		.... .1..		DWA9HEAD	"B'00000100'" Head of side queue
		.... ..1.		DWA9INDI	"B'00000010'" Indirect call to routine
		.... ...1		DWA9UNCO	"B'00000001'" Backend processing is for unconditional return
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	ADDRESS	8	DWAPARM0	Parameter for register 0
24	(18)	SIGNED	4	DWAPRMA1	Parameter for AR1
28	(1C)	ADDRESS	4	DWARTN	Address of routine
32	(20)	BITSTRING	4	DWAIMMED	Immediate instruction to executed
36	(24)	ADDRESS	4	DWAPCE	Address of PCE to \$POST
40	(28)	ADDRESS	4	DWACALR	Address of \$DILBERT caller (for diagnostic purposes)
44	(2C)	SIGNED	4	DWASTCK	Time of \$DILBERT call (for diagnostic purposes)
48	(30)	ADDRESS	4	DWANXTEL	Next DWA for element (side queue pointer)
52	(34)	ADDRESS	4	DWAPRVEL	Previous DWA for element (side queue pointer)
56	(38)	SIGNED	4	DWAORG(0)	Common origin
Parameters common to TYPE=JQE and TYPE=JOE					
56	(38)	SIGNED	4	DWAOFF	JQE/JOE Offset
60	(3C)	ADDRESS	4	DWAART	Address of JQA/JOA
64	(40)	SIGNED	4	DWABERTS	BERTs required to process
68	(44)	SIGNED	4	DWABSTCK	TOD last time we tried
72	(48)	ADDRESS	4	DWAPCEJQ	Save caller's PCEJQE
76	(4C)	ADDRESS	3	DWAJOJQ0	Associated JQE index for the DWA.
Parameters specific to TYPE=JQE					
79	(4F)	ADDRESS	1	DWADOGJ	ACTION
80	(50)	ADDRESS	1	(5)	
85	(55)	ADDRESS	2		
87	(57)	BITSTRING	4	DWAJBKEY	Job Key for JQE DWAs.
Parameters specific to TYPE=JOE					

Table 175. Structure DWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
79	(4F)	ADDRESS	1	(2)	
81	(51)	ADDRESS	1	(4)	
85	(55)	ADDRESS	4		
89	(59)	CHARACTER	12	DWAJOEID	JOE ID block (JOENAME, JOEID1, JOEID2) for JOE DWAs.
End of DWA					
104	(68)	DBL WORD	8	(0)	Ensure doubleword size
104	(68)	X'68'	0	DWASIZE	"*-DWA" Length of DWA

Table 176. Cross Reference for \$DWA

Name	Offset	Hex Tag
DWA	0	
DWAART	3C	
DWABERTS	40	
DWABSTCK	44	
DWACALR	28	
DWADOGJ	4F	
DWAEYE	0	
DWAFLAG9	7	
DWAIMMED	20	
DWAJBKEY	57	
DWAJOEID	59	
DWAJOJQ0	4C	
DWANEXT	8	
DWANXTEL	30	
DWAOFF	38	
DWAORG	38	
DWAPARM0	10	
DWAPCE	24	
DWAPCEJQ	48	
DWAPFLG1	5	
DWAPFLG2	6	
DWAPREV	C	
DWAPRMA1	18	
DWAPRVEL	34	
DWARTN	1C	
DWASIZE	68	68
DWASTCK	2C	
DWATYPE	4	
DWA9BEND	7	40

Table 176. Cross Reference for \$DWA (continued)

Name	Offset	Hex Tag
DWA9HEAD	7	4
DWA9INDI	7	2
DWA9NBRT	7	20
DWA9PROS	7	10
DWA9QUED	7	80
DWA9SPEC	7	8
DWA9UNCO	7	1

\$EDSWORK information

\$EDSWORK heading information

Common name:	JES2 Email Delivery Services PCE work area
Macro ID:	\$EDSWORK
DSECT name:	PCE (\$EDSWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol EPWWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$EDSPCE field of the \$HCT data area. See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Email Delivery Services processor and by its support routines. \$EDSWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$EDSWORK are actually part of PCE DSECT, but only map PCEs with the value PCEEDSID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$EDSWORK mapping

Table 177. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	1	EPWFLAG1	Flags:
		1...		EPW1PCEF	"B'10000000'" EDS PCE failed on this member
		.1..		EPW1SHUT	"B'01000000'" Shutdown post was done
		..1.		EPW1JOBW	"B'00100000'" Waiting for a JQE
		...1		EPW1STIM	"B'00010000'" Shutdown timer running
337	(151)	BITSTRING	1		Reserved
338	(152)	SIGNED	2	EPWERCNT	Error count
340	(154)	BITSTRING	2	EPWPLIDX	Idx of last ESQ for spooler task
342	(156)	BITSTRING	2	EPWSNIDX	Idx of last ESQ for sender task
344	(158)	SIGNED	4	EPWPLRQN	Spooler task request count
348	(15C)	SIGNED	4	EPWSNRQN	Sender task request count
352	(160)	SIGNED	4	EPWSNQRN	Sender task queued request count
356	(164)	BITSTRING	4		Reserved
360	(168)	BITSTRING	16	EPWTCBT	TCB token
376	(178)	BITSTRING	6	EPWMQTR	Work area for MQTR
382	(17E)	BITSTRING	2		Reserved
384	(180)	BITSTRING	12	EPWSHTQE	Shutdown delay TQE
396	(18C)	BITSTRING	132	EPWJQEW	JQE build area
528	(210)	DBL WORD	8	(0)	Force alignment
528	(210)	X'C0'	0	EPWWKSIZ	"*-PCEWORK" Length of EDS PCE

Table 178. Cross Reference for \$EDSWORK

Name	Offset	Hex	Tag
EPWERCNT	152		
EPWFLAG1	150		
EPWJQEW	18C		
EPWMQTR	178		
EPWPLIDX	154		
EPWPLRQN	158		
EPWSHTQE	180		
EPWSNIDX	156		
EPWSNQRN	160		
EPWSNRQN	15C		
EPWTCBT	168		
EPWWKSIZ	210		C0
EPW1JOBW	150		20
EPW1PCEF	150		80
EPW1SHUT	150		40
EPW1STIM	150		10

Table 178. Cross Reference for \$EDSWORK (continued)

Name	Offset	Hex Tag
PCE	0	

\$ENFPARM information

\$ENFPARM heading information

Common name:	ENF parameter list required for the ENFREQ macro
Macro ID:	\$ENFPARM
DSECT name:	ENFPARM
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: 241 Key: 1 Residency: Any
Size:	See ENFPSIZE
Created by:	JES2
Pointed to by:	Address contained in a register for use with the ENFREQ service
Serialization:	None
Function:	Maps the list form of the ENFREQ parameter list as well as storage for the ENFPTR field required by the ENFREQ macro.

\$ENFPARM mapping

Table 179. Structure ENFPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENFPARM	DSECT for ENF parms
0	(0)	ADDRESS	4	ENFPPTR	Area for ENFPTR - required by ENFREQ macro
4	(4)	SIGNED	4	ENFPENF(0)	START OF ENF PARAMETER LIST
4	(4)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
6	(6)	ADDRESS	2		REQUESTED ENF ACTION
8	(8)	ADDRESS	4		EVENT CODE
12	(C)	ADDRESS	1		FLAG FIELD
13	(D)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
14	(E)	ADDRESS	1		KEY FOR FREEPRM
15	(F)	ADDRESS	1		SUBPOOL FOR FREEPRM
16	(10)	ADDRESS	4		QUALIFIER
20	(14)	ADDRESS	4		EXIT ROUTINE ADDRESS
24	(18)	ADDRESS	4		Address of caller's parameters
28	(1C)	ADDRESS	4		TOKEN
32	(20)	ADDRESS	4		Length of caller's parameters

Table 179. Structure ENFPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
36	(24)	ADDRESS	2		VERSION OF PARM LIST
38	(26)	ADDRESS	2		RESERVED FIELD
40	(28)	ADDRESS	4		RETURN ADDRESS
44	(2C)	CHARACTER	8		ESTABLISHER NAME
52	(34)	CHARACTER	8		LISTEN EXIT NAME
60	(3C)	ADDRESS	4		LISTENER NUMBER (RETURNED)
64	(40)	CHARACTER	4		SPECIAL EXIT RETURN CODE
68	(44)	BITSTRING	32		Bit-mapped qualifier
100	(64)	ADDRESS	1		Flag byte
101	(65)	BITSTRING	3		Reserved
104	(68)	ADDRESS	4		Reserved
108	(6C)	CHARACTER	8		XCFFILTERGROUP name
116	(74)	BITSTRING	16		Reserved
132	(84)	CHARACTER	20		Additional space
132	(84)	X'98'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

Table 180. Structure ENF790

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENF790	, DSECT for HASP790 message
0	(0)	CHARACTER	8	ENF7EYE	Eye catcher
8	(8)	SIGNED	4	ENF7RC	ENF RC from ENFREQ
12	(C)	SIGNED	4	ENF7COUN	Number of messages
16	(10)	SIGNED	4	ENF7TIME	Seconds since last issued
16	(10)	X'14'	0	ENF7SIZE	"*-ENF790" Length of HASP790 work area

Table 181. Cross Reference for \$ENFPARM

Name	Offset	Hex	Tag
ENFPARM	0		
ENFPENF	4		
ENFPPTR	0		
ENFPSIZE	84		98
ENF7COUN	C		
ENF7EYE	0		C8C1E2D7
ENF7RC	8		
ENF7SIZE	10		14
ENF7TIME	10		
ENF790	0		

\$ENFWORK information

\$ENFWORK programming interface information

\$ENFWORK is a programming interface.

\$ENFWORK heading information

Common name:	HASP ENF LISTEN Processor
Macro ID:	\$ENFWORK
DSECT name:	PCE (\$ENFWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol ENNPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$ENFPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first ENF LISTEN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 ENF LISTEN Processor and by its support routines and exits. \$ENFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$ENFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEENFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$ENFWORK mapping

Table 182. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	SIGNED	4	ENNALET	ALET for EVT data space
344	(158)	DBL WORD	8	(0)	
344	(158)	BITSTRING	16	ENNTQE	TQE for deregistration wait
360	(168)	DBL WORD	8	(0)	
360	(168)	BITSTRING	320	ENNPARGS	EVT parameter data
680	(2A8)	BITSTRING	4	ENNWmask	Work mask for XCF messaging
684	(2AC)	BITSTRING	4		Reserved
688	(2B0)	DBL WORD	8	(0)	Force double-word alignment
688	(2B0)	X'160'	0	ENNPCEWS	"*-PCEWORK" Length of \$ENF PCE

Table 183. Cross Reference for \$ENFWORK

Name	Offset	Hex Tag
ENNALET	150	
ENNPARGS	168	
ENNPCEWS	2B0	160
ENNTQE	158	
ENNWMASK	2A8	
PCE	0	

\$ENGETWK information

\$ENGETWK programming interface information

\$ENGETWK is a programming interface.

\$ENGETWK heading information

Common name:	JES2 encryption service work area imbedded in various PCE work areas. Assumes GET object.
Macro ID:	\$ENGETWK
DSECT name:	ENGETWK
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	none
Storage attributes:	Subpool: See pertinent PCEs Key: See pertinent PCEs Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage.
Size:	See ENCLLEN
Created by:	
Pointed to by:	Imbedded in the pertinent PCEs.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a PRPU , NST and NJT processors and by its supported routines and exits.

\$ENGETWK mapping

Table 184. Structure ENGETWK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENGETWK	Encryption work area
Field and flags maintained by common services \$MGENCRY and \$MGUNALO in HASPSRIC.					
0	(0)	BITSTRING	1	ENCMGREQ	Request flag for \$MGENCRY
1	(1)	BITSTRING	1	ENCESTA1	Compress/Encrypt state flag

Table 184. Structure ENGETWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ENCNACTI	"B'10000000'" Oper=setup was successfully performed for this PDDb and oper=cleanup must be performed when finished.
		.1..		ENCALL64	"B'01000000'" IARV64 storage acquired for obj and ENCENOBJ contains address of. This storage will be acquired once and used for various PDDBs.
		..1.		ENCBUFFR	"B'00100000'" Denote oper=getrec buffer obtained and ENCINBUF contains address of.
		...1		ENCNOBUF	"B'00010000'" Do not acquire 32 K work buffer
		.... 1...		ENCDSSETB	"B'00001000'" DSET buffer obtained and ENCDSETA contains address
		.... .1..		ENCSubER	"B'00000100'" \$SUBIT call failed
2	(2)	BITSTRING	1	ENCEFLG1	Processing flags
		1...		ENC1NPCE	"B'10000000'" Non-PCE request
		.1..		ENC1ICSF	"B'01000000'" Req ICSF authorization ck
3	(3)	BITSTRING	6		Reserved/alignment
16	(10)	DBL WORD	8	ENDDOUBLE	Work area
24	(18)	SIGNED	8	ENCBSG1	Encryption obj segment cnt
32	(20)	DBL WORD	8	ENCWORK	Work field
40	(28)	ADDRESS	8	ENCENOBJ	Encryption object addr
48	(30)	ADDRESS	4	ENCDSSETA	Address of buffer for DSET - data set level info
52	(34)	ADDRESS	4	ENCINBUF	Address of output buffer for oper=GETREC().
56	(38)	SIGNED	4	ENCINLEN	Length of oper=GETREC() buffer
60	(3C)	BITSTRING	1	ENCTYPE	Current PDDb/data set is 0 - not compressed nor encrypted 1 - Compressed 2 - Encrypted 3 - Both Used on oper=setup()
61	(3D)	BITSTRING	3		Reserved/alignment
Flags and fields used by common service GETRECL0 located in HASPSERV.					
64	(40)	BITSTRING	1	ENCEGETL	GETRECL0 flag subroutine
		1...		ENCEDATA	"B'10000000'" Data block is being filled by GETRECL0 (Fill mode)
		.1..		ENCCONSU	"B'01000000'" Dataset LRC passed to GETRECL0 has been consumed
		..1.		ENCNUINP	"B'00100000'" Ignore NULL on input
		...1		ENCNUOUT	"B'00010000'" Ignore NULL on output
		.... 1...		ENCREPOS	"B'00001000'" Repositioning request
		.... .1..		ENCRSCSR	"B'00000100'" Reset cursor on primeblk
65	(41)	BITSTRING	3		Reserved/alignment
68	(44)	SIGNED	4	ENCRTEXT	Length of record text. Only text and no CCTL. Used to build LRC returned on RC=0.
72	(48)	ADDRESS	4	ENCSTEXT	STEXT address related to ENCDSETA
76	(4C)	SIGNED	4	ENCLTEXT	LTEXT related to ENCDSETA

Table 184. Structure ENGETWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	ADDRESS	8	ENCDBADR	Address of data blk to fill - only relevant when ENCEGETL-> ENCEDATA. Note: data block is owned by the object.
88	(58)	ADDRESS	8	ENCNXTBY	Next byte to fill in data block - only relevant when ENCEGETL-> ENCEDATA.
96	(60)	ADDRESS	4	ENCLRCA	Saved address of LRC pertaining to record in SPOOL data set containing data blocks.
100	(64)	SIGNED	4	ENCRECL	Length of record returned from subroutine GETRECL. Could contain CCTL and value is used to build LRC returned on RC=0.
104	(68)	BITSTRING	1	ENCCC	Carriage control flag returned oper=getrec.
105	(69)	CHARACTER	17	ENCWRINF	Record information save area - contains LRC returned from oper=getrec.
122	(7A)	BITSTRING	2		Reserved/alignment
124	(7C)	SIGNED	4	ENCCAKEY	Caller key used on oper= getrec
128	(80)	BITSTRING	257	ENCBLRLC	LRC built from flag returned in rec_info by oper=getrec() Large enough to contain 3 byte LRC plus largest non-span record - 254. Required for NST and NJT.
385	(181)	BITSTRING	3		Reserved/alignment
388	(184)	BITSTRING	1	ENLRCLCN	Length of LRC built
389	(185)	BITSTRING	1	ENCGETRF	Copy of GETRFLG
390	(186)	BITSTRING	6		Reserved alignment
Fields unique to HASCNJJT - subroutine NJMENCER					
396	(18C)	CHARACTER	8	ENJOBID	Job ID
404	(194)	CHARACTER	8	ENJOBNAM	Job name
412	(19C)	CHARACTER	44	ENDATNAM	Dataset name
456	(1C8)	CHARACTER	8	ENDDNAME	DD name
464	(1D0)	CHARACTER	8	ENJOENAM	JOE name
472	(1D8)	CHARACTER	8	ENDENNAM	Device name
480	(1E0)	SIGNED	2	ENJOEGR1	JOE group ID #1
482	(1E2)	SIGNED	2	ENJOEGR2	JOE group ID #2
484	(1E4)	BITSTRING	1	ENGETFG1	NJMENCER input flag byte
		1...		ENG1JOED	"B'10000000" Ind JOE fields passed
		.1...		ENG1DEVN	"B'01000000" Ind device name passed
485	(1E5)	BITSTRING	1		Reserved alignment
Fields unique to HASPNJT - subroutine NJTDATA					
486	(1E6)	BITSTRING	6	ENMQTR	MQTR related to current SYSIN IOT/ Pddb
492	(1EC)	BITSTRING	2		Reserved alignment
494	(1EE)	BITSTRING	4	ENNJTKEY	Dataset key related to SYSIN dataset
500	(1F4)	ADDRESS	4	ENCIOTBF	Address of buffer containing IOT related to SYSIN dataset.
504	(1F8)	BITSTRING	6	ENIOTMQ	MQTR of last IOT read

Table 184. Structure ENGETWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
510	(1FE)	BITSTRING	1	ENNJTFL1	Flag
		1...		ENNJTBUF	"B'10000000'" Buffer ENCIOTBF contains IOT related to SYSIN dataset processing
		.1...		ENROCALL	"B'01000000'" If on the routine NJTSYSIN must be called
		..1.		ENSYISIN	"B'00100000'" Processing SYSIN or instream data set
Subit/call return area used by the following service routines - \$MGENCRY, \$MGUNALO and \$MGCLEAN.					
511	(1FF)	BITSTRING	9	ENSUBRTN	
512	(200)	SIGNED	4	ENCRTCOD	Return code from routine
516	(204)	SIGNED	4	ENCREASO	Reason code from routine
520	(208)	BITSTRING	1	ENOPERAT	If oper=() routine returned non-zero RC then this field identifies operation. See ENCOPER in in IAZENOBJ for operation equates
521	(209)	BITSTRING	7		Reserved/alignment
521	(209)	X'210'	0	ENCELEN	"*-ENGETWK" Length of \$ENGETWK

Table 185. Cross Reference for \$ENGETWK

Name	Offset	Hex	Tag
ENCALL64	1		40
ENCBLLRC	80		
ENCBUFFR	1		20
ENCCAKEY	7C		
ENCCC	68		
ENCCONSU	40		40
ENCDBADR	50		
ENCDDSETA	30		
ENCDDSETB	1		8
ENCDDWORK	20		
ENCEDATA	40		80
ENCEFLG1	2		
ENCEGETL	40		
ENCELEN	209		210
ENCENOBJ	28		
ENCESTA1	1		
ENCGETRF	185		
ENCINBUF	34		
ENCINLEN	38		
ENCIOTBF	1F4		
ENCLRCA	60		
ENCLTEXT	4C		

Table 185. Cross Reference for \$ENGETWK (continued)

Name	Offset	Hex Tag
ENCMGREQ	0	
ENCNACTI	1	80
ENCNOBUF	1	10
ENCNUINP	40	20
ENCNUOUT	40	10
ENCNXTBY	58	
ENCOBSG1	18	
ENCREASO	204	
ENCRECL	64	
ENCREPOS	40	8
ENCRSCSR	40	4
ENCRTCOD	200	
ENCRTEXT	44	
ENCSTEXT	48	
ENCSUBER	1	4
ENCTYPE	3C	
ENCWRINF	69	
ENC1ICSF	2	40
ENC1NPCE	2	80
ENDATNAM	19C	
ENDDNAME	1C8	
ENDENAM	1D8	
ENDDOUBLE	10	
ENGETFG1	1E4	
ENGETWK	0	
ENG1DEVN	1E4	40
ENG1JOED	1E4	80
ENIOTMQ	1F8	
ENJOBNAM	194	
ENJOBNIID	18C	
ENJOEGR1	1E0	
ENJOEGR2	1E2	
ENJOENAM	1D0	
ENLRCLN	184	
ENMQTR	1E6	
ENNJTBUF	1FE	80
ENNJTFL1	1FE	
ENNJTKEY	1EE	
ENOPERAT	208	

Table 185. Cross Reference for \$ENGETWK (continued)

Name	Offset	Hex Tag
ENROCALL	1FE	40
ENSUBRTN	1FF	
ENSYISIN	1FE	20

\$ENMSGWK information

\$ENMSGWK programming interface information

\$ENMSGWK is a programming interface.

\$ENMSGWK heading information

Common name: Work area for building messages to report encryption errors.

Macro ID: \$ENMSGWK

DSECT name: ENMSGWK

Owning component: JES2 (SC1BH)

Eye-catcher ID: none

Storage attributes: Subpool: See pertinent PCEs
Key: See pertinent PCEs
Residency: See \$PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage.

Size: See ENMSGWKL

Created by: Various \$PCEs

Pointed to by: None

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a PRPU, NST and NJT processors and by its supported routines and exits.

\$ENMSGWK mapping

Table 186. Structure ENMSGWK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENMSGWK	, Encrypt error message parms
The following fields must be supplied by the caller of \$BLDMSG.					
0	(0)	SIGNED	4	ENMRETC	Retcode to interpret
4	(4)	SIGNED	4	ENMRSNCD	Rsncode to interpret
8	(8)	BITSTRING	1	ENMFLAG1	Source of error
		1... ..		ENMF1SUB	"B'10000000'" \$SUBIT error
		.1... ..		ENMF1MGE	"B'01000000'" \$MGENCRY error
		..1.		ENMF1GET	"B'00100000'" GET (decryption) error

Table 186. Structure ENMSGWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ENMF1PUT	"B'00010000'" PUT (encryption) error
		.... 1...		ENMF10TH	"B'00001000'" Generic encrypted dataset error
		.... .1..		ENMF1ENC	"B'00000100'" ENCRYPTV error
		.... ..1.		ENMF1WAR	"B'00000010'" ENCRYPTV warning
9	(9)	BITSTRING	1	ENMFLAG2	Additional indicators
		1...		ENMF2DEV	"B'10000000'" A device name was supplied in ENMDEVN
		.1..		ENMF2JOE	"B'01000000'" JOE data supplied for msg
10	(A)	BITSTRING	2		Reserved
12	(C)	CHARACTER	8	ENMJOBID	Job ID
20	(14)	CHARACTER	8	ENMJOBNM	Job name
28	(1C)	CHARACTER	44	ENMDSNAM	Dataset name
72	(48)	CHARACTER	8	ENMDDNAM	DD name
80	(50)	CHARACTER	8	ENMDEVN	Device name
88	(58)	CHARACTER	8	ENMJOENM	Output group name
96	(60)	SIGNED	2	ENMJOEI1	Output group ID 1
98	(62)	SIGNED	2	ENMJOEI2	Output group ID 2

The following field is set by the PREENMSG prescan exit routine to display an appropriate error message based on the supplied return and reason codes.

100	(64)	CHARACTER	4	ENMDEVON	Set to ' ON ' if a device name was provided
104	(68)	BITSTRING	1	ENMDTEXT	Reason text indicator
104	(68)	X'1'	0	ENMDSERV	"1" Encryption service error
104	(68)	X'2'	0	ENMDKMF	"2" KMF flag does not allow rewrap under CPACF
104	(68)	X'3'	0	ENMDSAF1	"3" SAF profile does not allow rewrap under CPACF
104	(68)	X'4'	0	ENMDSAF2	"4" SAF profile does not allow protected key return
104	(68)	X'5'	0	ENMDISFH	"5" Insufficient hardware
104	(68)	X'6'	0	ENMDUNDK	"6" Undefined key label
104	(68)	X'7'	0	ENMDRAC1	"7" RACF denied access to an ICSF service
104	(68)	X'8'	0	ENMDRAC2	"8" RACF denied access to a key label
104	(68)	X'9'	0	ENMDICSF	"9" Other ICSF error
104	(68)	X'A'	0	ENMDVERV	"10" Incorrect verification value
104	(68)	X'B'	0	ENMDVERE	"11" Encrypted verification token token mismatch
104	(68)	X'C'	0	ENMDST64	"12" Failed to get 64-bit stg
104	(68)	X'D'	0	ENMDSUBI	"13" \$SUBIT failure
104	(68)	X'E'	0	ENMDMGEN	"14" Unknown return code from \$MGENCRY
104	(68)	X'F'	0	ENMDMOTH	"15" Generic encrypted dataset error
104	(68)	X'10'	0	ENMDAES9	"16" Key associated with key not AES-256 - for 1199 msg
104	(68)	X'10'	0	ENMDNOCO	"16" Warning, compress not avail

Table 186. Structure ENMSGWK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
104	(68)	X'11'	0	ENMDNOEC	"17" Warning, no encryption/comp
104	(68)	X'12'	0	ENMDDLIG	"18" Warning, DSKEYLBL ignored
104	(68)	X'13'	0	ENMDOUTC	"19" Warning, compress not avail for outclass request
104	(68)	X'14'	0	ENMDAES	"20" Key associated with key not AES-256 - for 1198 msg
104	(68)	X'18'	0	ENMDARCK	"24" Key associated with key label was archived
105	(69)	BITSTRING	3		Reserved
List form area for \$BLDMSG MF=(E,ENCGBLDM)					
112	(70)	DBL WORD	8	(0)	Alignment
112	(70)	SIGNED	4	ENMBLDM(0)	Control block ID
116	(74)	BITSTRING	4		Console ID
120	(78)	ADDRESS	4		Address of the CART
124	(7C)	ADDRESS	4		Pointer for JOBID
128	(80)	ADDRESS	4		Control block address
132	(84)	ADDRESS	4		Display routine address
136	(88)	ADDRESS	4	(6)	6 word work area
160	(A0)	ADDRESS	4		Caller's R11 value
164	(A4)	BITSTRING	2		ROUT code for Message
166	(A6)	BITSTRING	2		Not used
168	(A8)	CHARACTER	4		Message ID
172	(AC)	CHARACTER	1		Separator character
173	(AD)	ADDRESS	1		Flag byte 1
174	(AE)	ADDRESS	1		'DISPER'
175	(AF)	ADDRESS	1		Flag byte 2
176	(B0)	ADDRESS	1		Flag byte 3
177	(B1)	ADDRESS	1		Severity of message
178	(B2)	CHARACTER	8		Symbolic name of dest.
186	(BA)	BITSTRING	14		Not used
200	(C8)	ADDRESS	4	(0)	Ensure multiple of 4
200	(C8)	ADDRESS	2	(0)	
0	(0)	X'58'	0	ENMBLDM	"*-ENMBLDM" Length of \$BLDMSG parm list
0	(0)	X'C8'	0	ENMSGWKL	"*-ENMSGWK" Length of DSECT

Table 187. Cross Reference for \$ENMSGWK

Name	Offset	Hex Tag
ENMBLDM	70	C2D3C440
ENMBLDM	0	58
ENMDAES	68	14
ENMDAES9	68	10
ENMDARCK	68	18
ENMDDLIG	68	12

Table 187. Cross Reference for \$ENMSGWK (continued)

Name	Offset	Hex Tag
ENMDDNAM	48	
ENMDEVN	50	
ENMDEVON	64	
ENMDICSF	68	9
ENMDISFH	68	5
ENMDKMF	68	2
ENMDMGEN	68	E
ENMDMOTH	68	F
ENMDNOCO	68	10
ENMDNOEC	68	11
ENMDOUTC	68	13
ENMDRAC1	68	7
ENMDRAC2	68	8
ENMDSAF1	68	3
ENMDSAF2	68	4
ENMDSERV	68	1
ENMDSNAM	1C	
ENMDST64	68	C
ENMDSUBI	68	D
ENMDTEXT	68	
ENMDUNDK	68	6
ENMDVERE	68	B
ENMDVERV	68	A
ENMFLAG1	8	
ENMFLAG2	9	
ENMF1ENC	8	4
ENMF1GET	8	20
ENMF1MGE	8	40
ENMF10TH	8	8
ENMF1PUT	8	10
ENMF1SUB	8	80
ENMF1WAR	8	2
ENMF2DEV	9	80
ENMF2JOE	9	40
ENMJOBID	C	
ENMJOBNM	14	
ENMJOEI1	60	
ENMJOEI2	62	
ENMJOENM	58	

Table 187. Cross Reference for \$ENMSGWK (continued)

Name	Offset	Hex Tag
ENMRETC	0	
ENMRSNCD	4	
ENMSGWK	0	
ENMSGWKL	0	C8

\$ENPUTWK information

\$ENPUTWK programming interface information

\$ENPUTWK is a programming interface.

\$ENPUTWK heading information

Common name:	JES2 encryption service work area in support of oper=putrec. This area contains all information related to a record to be written to a PUT encryption/compress object via oper=putrec.
Macro ID:	\$ENPUTWK
DSECT name:	ENPUTWK
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	none
Storage attributes:	Subpool: See pertinent PCEs Key: See pertinent PCEs Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage.
Size:	See ENPULEN
Created by:	
Pointed to by:	Imbedded in the pertinent PCEs.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a NSR.

\$ENPUTWK mapping

Table 188. Structure ENPUTWK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENPUTWK	Encryption work area
Fields and flags					
0	(0)	ADDRESS	4	SROBJTX@	Address of record text to deposit in record output buffer
4	(4)	SIGNED	4	SROBJTLN	Length of record text to moved to record output buffer
8	(8)	SIGNED	4	SROBJLRE	Given record - LRECL
12	(C)	SIGNED	4	SROBJDLN	Given record - current length in output buffer

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	SROBJNXT	Given record - next byte to populate in output buffer
20	(14)	BITSTRING	1	SROBJFL1	Flag
		1...		SROBJFCR	"B'10000000'" Current rec has carriage control
21	(15)	BITSTRING	1	SROBJCAR	Carriage control char
22	(16)	BITSTRING	1	SROBJLRC	Start of LRC
23	(17)	BITSTRING	1	SROBJFLG	LRC flag byte
List form macros for IARV64					
24	(18)	DBL WORD	8	(0)	
----- IARV64 MF=(L,ENPUT64L),PLISTVER=MAX IARV64 list form MACDATE -02/08/21-<6>					
0	(0)	X'18'	0	M00M1306	"ENPUT64L" ++ IARV64 NAME
24	(18)	DBL WORD	8	ENPUT64L(0)	++ IARV64 PARM LIST
24	(18)	BITSTRING	1	ENPUT64L_XVERSION	++ INPUT XVERSION
25	(19)	BITSTRING	1	ENPUT64L_XREQUEST	++ XREQUEST
25	(19)	X'1'	0	ENPUT64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
25	(19)	X'2'	0	ENPUT64L_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
25	(19)	X'3'	0	ENPUT64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
25	(19)	X'4'	0	ENPUT64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
25	(19)	X'5'	0	ENPUT64L_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
25	(19)	X'6'	0	ENPUT64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
25	(19)	X'7'	0	ENPUT64L_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
25	(19)	X'8'	0	ENPUT64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
25	(19)	X'9'	0	ENPUT64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
25	(19)	X'A'	0	ENPUT64L_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
25	(19)	X'B'	0	ENPUT64L_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
25	(19)	X'C'	0	ENPUT64L_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
25	(19)	X'D'	0	ENPUT64L_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
25	(19)	X'E'	0	ENPUT64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
25	(19)	X'F'	0	ENPUT64L_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
25	(19)	X'10'	0	ENPUT64L_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
25	(19)	X'11'	0	ENPUT64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
25	(19)	X'12'	0	ENPUT64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
25	(19)	X'13'	0	ENPUT64L_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
26	(1A)	BITSTRING	1	ENPUT64L_XFLAGS0	++ FIELD_LABEL
		1... ..		ENPUT64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1.. ..		ENPUT64L_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		ENPUT64L_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
27	(1B)	BITSTRING	1	ENPUT64L_XKEY	++
28	(1C)	BITSTRING	1	ENPUT64L_XFLAGS1	++ FIELD_LABEL
		1... ..		ENPUT64L_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1.. ..		ENPUT64L_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		ENPUT64L_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		ENPUT64L_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		ENPUT64L_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		ENPUT64L_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		ENPUT64L_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		ENPUT64L_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
29	(1D)	BITSTRING	1	ENPUT64L_XFLAGS2	++ FIELD_LABEL
		1... ..		ENPUT64L_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1.. ..		ENPUT64L_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		ENPUT64L_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		ENPUT64L_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		ENPUT64L_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		ENPUT64L_XPAGEFRAME_SIZE_1MEG	"B'00000100'" ++ XPAGEFRAME_SIZE.1MEG KEYWORD
		.... ..1.		ENPUT64L_XPAGEFRAME_SIZE_MAX	"B'00000010'" ++ XPAGEFRAME_SIZE.MAX KEYWORD
		.... ...1		ENPUT64L_XPAGEFRAME_SIZE_ALL	"B'00000001'" ++ XPAGEFRAME_SIZE.ALL KEYWORD

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
30	(1E)	BITSTRING	1	ENPUT64L_XFLAGS3	++ FIELD_LABEL
		1...		ENPUT64L_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		ENPUT64L_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		ENPUT64L_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1		ENPUT64L_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		ENPUT64L_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		ENPUT64L_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		ENPUT64L_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		ENPUT64L_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
31	(1F)	BITSTRING	1	ENPUT64L_XFLAGS4	++ FIELD_LABEL
		1...		ENPUT64L_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		ENPUT64L_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		ENPUT64L_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		ENPUT64L_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		ENPUT64L_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		ENPUT64L_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		ENPUT64L_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		ENPUT64L_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
32	(20)	DBL WORD	8	ENPUT64L_XSEGMENTS	++
40	(28)	CHARACTER	16	ENPUT64L_XTOKEN	++
56	(38)	DBL WORD	8	ENPUT64L_XUSERTKN	++
64	(40)	ADDRESS	8	ENPUT64L_XORIGIN	++
72	(48)	ADDRESS	8	ENPUT64L_XRANGLIST	++
80	(50)	ADDRESS	8	ENPUT64L_XMEMOBJSTART	++
88	(58)	SIGNED	4	ENPUT64L_XGUARDSIZE	++
92	(5C)	SIGNED	4	ENPUT64L_XCONVERTSIZE	++
96	(60)	SIGNED	4	ENPUT64L_XALETVALUE	++
100	(64)	SIGNED	4	ENPUT64L_XNUMRANGE	++
104	(68)	ADDRESS	4	ENPUT64L_XV64LISTPTR	++
108	(6C)	SIGNED	4	ENPUT64L_XV64LISTLENGTH	++
112	(70)	DBL WORD	8	ENPUT64L_XCONVERTSTART	++
120	(78)	DBL WORD	8	ENPUT64L_XCONVERTSIZE64	++
128	(80)	DBL WORD	8	ENPUT64L_XGUARDSIZE64	++
136	(88)	CHARACTER	8	ENPUT64L_XUSERTOKEN	++
144	(90)	BITSTRING	1	ENPUT64L_XDUMPPRIORITY	++
145	(91)	BITSTRING	1	ENPUT64L_XFLAGS5	++ FIELD_LABEL
		1...		ENPUT64L_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		ENPUT64L_XORDER_DUMPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		ENPUT64L_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		ENPUT64L_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		ENPUT64L_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		ENPUT64L_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		ENPUT64L_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		ENPUT64L_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
146	(92)	BITSTRING	1	ENPUT64L_XFLAGS6	++ FIELD_LABEL
		1...		ENPUT64L_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		ENPUT64L_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		ENPUT64L_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		ENPUT64L_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		ENPUT64L_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		ENPUT64L_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		ENPUT64L_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		ENPUT64L_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
147	(93)	BITSTRING	1	ENPUT64L_XFLAGS7	++ FIELD_LABEL
		1...		ENPUT64L_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		ENPUT64L_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		ENPUT64L_KEYUSED_SVCUMPRGN	"B'00100000'" ++ KEYUSED.SVCUMPRGN KEYWORD
		...1		ENPUT64L_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		ENPUT64L_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		ENPUT64L_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		ENPUT64L_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		ENPUT64L_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
148	(94)	BITSTRING	1	ENPUT64L_XDUMP	++ XDUMP
148	(94)	X'0'	0	ENPUT64L_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
148	(94)	X'1'	0	ENPUT64L_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
148	(94)	X'2'	0	ENPUT64L_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
148	(94)	X'3'	0	ENPUT64L_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
148	(94)	X'20'	0	ENPUT64L_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
148	(94)	X'21'	0	ENPUT64L_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
148	(94)	X'FF'	0	ENPUT64L_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
149	(95)	BITSTRING	1	ENPUT64L_XFLAGS8	++ FIELD_LABEL
		1...		ENPUT64L_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWORD
		.1..		ENPUT64L_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1.		ENPUT64L_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1		ENPUT64L_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		ENPUT64L_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		ENPUT64L_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		ENPUT64L_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		ENPUT64L_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
150	(96)	BITSTRING	2	ENPUT64L_XOWNERASID	++
152	(98)	BITSTRING	1	ENPUT64L_XOPTIONVALUE	++
153	(99)	CHARACTER	8	ENPUT64L_XRSV0001	++ RESERVED
161	(A1)	CHARACTER	8	ENPUT64L_XOWNERJOBNAME	++
169	(A9)	CHARACTER	7	ENPUT64L_XRSV0004	++ RESERVED
176	(B0)	ADDRESS	8	ENPUT64L_XDMAPAGETABLE	++
184	(B8)	DBL WORD	8	ENPUT64L_XUNITS	++
192	(C0)	BITSTRING	1	ENPUT64L_XFLAGS9	++ FIELD_LABEL
		1...		ENPUT64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		ENPUT64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		ENPUT64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		ENPUT64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		ENPUT64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		ENPUT64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
193	(C1)	BITSTRING	1	ENPUT64L_XFLAGS10	++ FIELD_LABEL
		1...		ENPUT64L_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1..		ENPUT64L_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1.		ENPUT64L_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1		ENPUT64L_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
194	(C2)	BITSTRING	1	ENPUT64L_XFLAGS11	++ FIELD_LABEL
		1...		ENPUT64L_KEYUSED_OBJECTTYPE	

Table 188. Structure ENPUTWK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
	.1..			ENPUT64L_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
	..1.			ENPUT64L_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
195	(C3)	CHARACTER	5	ENPUT64L_XRSV0005	++ RESERVED
195	(C3)	X'C8'	0	ENPUT64L_PL_END	"*" ++ END OF BASE PLIST
56	(38)	DBL WORD	8	ENPUT64L_XOUTMOTKN	++
56	(38)	DBL WORD	8	ENPUT64L_XMOTKN	++
80	(50)	ADDRESS	8	ENPUT64L_XINORIGIN	++
80	(50)	ADDRESS	8	ENPUT64L_XINADDR	++
200	(C8)	X'B0'	0	ENPUT64LL	"*-ENPUT64L" ++ LENGTH OF PLIST
IARV64-6					
0	(0)	X'18'	0	ENPUTR64	"ENPUT64L,*-ENPUT64L" IARV64 MF=L length
0	(0)	X'C8'	0	ENPULEN	"*-ENPUTWK" Length of \$ENPUTWK

Table 189. Cross Reference for \$ENPUTWK

Name	Offset	Hex Tag
ENPULEN	0	C8
ENPUTR64	0	18
ENPUTWK	0	
ENPUT64L	18	
ENPUT64L_KEYUSED_CONVERTSIZE64	1C	4
ENPUT64L_KEYUSED_CONVERTSTART	1C	10
ENPUT64L_KEYUSED_DUMP	93	80
ENPUT64L_KEYUSED_GUARDSIZE64	1C	8
ENPUT64L_KEYUSED_INORIGIN	C1	80
ENPUT64L_KEYUSED_KEY	1C	80
ENPUT64L_KEYUSED_MOTKN	1C	2
ENPUT64L_KEYUSED_OBJECTTYPE	C2	80
ENPUT64L_KEYUSED_OPTIONVALUE	93	40
ENPUT64L_KEYUSED_OWNERJOBNAME	1C	1
ENPUT64L_KEYUSED_SENSITIVE	C1	10
ENPUT64L_KEYUSED_SVCDUMPRGN	93	20
ENPUT64L_KEYUSED_TTOKEN	1C	20
ENPUT64L_KEYUSED_UNITS	C0	80
ENPUT64L_KEYUSED_USERTKN	1C	40
ENPUT64L_PL_END	C3	C8
ENPUT64L_XAFFINITY_SYSTEM	1E	40

Table 189. Cross Reference for \$ENPUTWK (continued)

Name	Offset	Hex Tag
ENPUT64L_XALETVALUE	60	
ENPUT64L_XAMOUNTSIZE_1MEG	92	2
ENPUT64L_XAMOUNTSIZE_4K	92	4
ENPUT64L_XATTRIBUTE_DEFS	93	10
ENPUT64L_XATTRIBUTE_NOTOWNERGONE	93	4
ENPUT64L_XATTRIBUTE_OWNERGONE	93	8
ENPUT64L_XCHANGEACCESS_GLOBAL	1D	8
ENPUT64L_XCLEAR_NO	1F	40
ENPUT64L_XCOND_YES	1D	80
ENPUT64L_XCONTROL_AUTH	1D	20
ENPUT64L_XCONVERT_FROMGUARD	1F	2
ENPUT64L_XCONVERT_TOGUARD	1F	4
ENPUT64L_XCONVERTSIZE	5C	
ENPUT64L_XCONVERTSIZE64	78	
ENPUT64L_XCONVERTSTART	70	
ENPUT64L_XDETACHFIXED_YES	92	20
ENPUT64L_XDISCARDPAGES_YES	0	4
ENPUT64L_XDMAPAGETABLE	B0	
ENPUT64L_XDOAUTHCHECKS_YES	92	10
ENPUT64L_XDUMP	94	
ENPUT64L_XDUMP_ALL	94	FF
ENPUT64L_XDUMP_LIKECSA	94	3
ENPUT64L_XDUMP_LIKELSQA	94	21
ENPUT64L_XDUMP_LIKERGN	94	20
ENPUT64L_XDUMP_LIKESQA	94	2
ENPUT64L_XDUMP_NO	94	1
ENPUT64L_XDUMP_NONE	94	0
ENPUT64L_XDUMPPRIORITY	90	
ENPUT64L_XDUMPPROTOCOL_YES	91	80
ENPUT64L_XEXECUTABLE_NO	0	1
ENPUT64L_XEXECUTABLE_YES	0	2
ENPUT64L_XFLAGS0	1A	
ENPUT64L_XFLAGS1	1C	
ENPUT64L_XFLAGS10	C1	
ENPUT64L_XFLAGS11	C2	
ENPUT64L_XFLAGS2	1D	
ENPUT64L_XFLAGS3	1E	
ENPUT64L_XFLAGS4	1F	
ENPUT64L_XFLAGS5	91	

Table 189. Cross Reference for \$ENPUTWK (continued)

Name	Offset	Hex Tag
ENPUT64L_XFLAGS6	92	
ENPUT64L_XFLAGS7	93	
ENPUT64L_XFLAGS8	95	
ENPUT64L_XFLAGS9	C0	
ENPUT64L_XFPROT_NO	1D	40
ENPUT64L_XGUARDLOC_HIGH	1D	10
ENPUT64L_XGUARDSIZE	58	
ENPUT64L_XGUARDSIZE64	80	
ENPUT64L_XINADDR	50	
ENPUT64L_XINORIGIN	50	
ENPUT64L_XKEEPREAL_NO	1F	1
ENPUT64L_XKEY	1B	
ENPUT64L_XLOCALSYSAREA_YES	92	8
ENPUT64L_XLONG_NO	1F	80
ENPUT64L_XMATCH_MOTOKEN	1A	20
ENPUT64L_XMATCH_USERTOKEN	1E	80
ENPUT64L_XMEMLIMIT_COND	92	1
ENPUT64L_XMEMLIMIT_NO	92	40
ENPUT64L_XMEMOBJSTART	50	
ENPUT64L_XMOTKN	38	
ENPUT64L_XMOTKNCREATOR_SYSTEM	1A	40
ENPUT64L_XMOTKNSOURCE_SYSTEM	1A	80
ENPUT64L_XNUMRANGE	64	
ENPUT64L_XOBJECTTYPE_POOL	C2	40
ENPUT64L_XOBJECTTYPE_RSMINTERNAL	C2	20
ENPUT64L_XOPTIONVALUE	98	
ENPUT64L_XORDER_DUMPPRIORITY	91	40
ENPUT64L_XORIGIN	40	
ENPUT64L_XOUTMOTKN	38	
ENPUT64L_XOWNER_NO	1E	10
ENPUT64L_XOWNERASID	96	
ENPUT64L_XOWNERCOM_BYASID	91	1
ENPUT64L_XOWNERCOM_HOME	91	8
ENPUT64L_XOWNERCOM_PRIMARY	91	4
ENPUT64L_XOWNERCOM_SYSTEM	91	2
ENPUT64L_XOWNERJOBNAME	A1	
ENPUT64L_XPAGEFRAMESIZE_ALL	1D	1
ENPUT64L_XPAGEFRAMESIZE_DREF1MEG	0	40
ENPUT64L_XPAGEFRAMESIZE_MAX	1D	2

Table 189. Cross Reference for \$ENPUTWK (continued)

Name	Offset	Hex Tag
ENPUT64L_XPAGEFRAMESIZE_PAGEABLE1MEG	95	80
ENPUT64L_XPAGEFRAMESIZE_1M	C0	10
ENPUT64L_XPAGEFRAMESIZE_1MEG	1D	4
ENPUT64L_XPAGEFRAMESIZE_2G	C0	8
ENPUT64L_XRANGLIST	48	
ENPUT64L_XREQUEST	19	
ENPUT64L_XREQUEST_CHANGEACCESS	19	B
ENPUT64L_XREQUEST_CHANGEATTRIBUTE	19	13
ENPUT64L_XREQUEST_CHANGEGUARD	19	D
ENPUT64L_XREQUEST_COUNTPAGES	19	10
ENPUT64L_XREQUEST_DETACH	19	3
ENPUT64L_XREQUEST_DISCARDATA	19	7
ENPUT64L_XREQUEST_GETCOMMON	19	F
ENPUT64L_XREQUEST_GETSHARED	19	2
ENPUT64L_XREQUEST_GETSTOR	19	1
ENPUT64L_XREQUEST_LIST	19	E
ENPUT64L_XREQUEST_PAGEFIX	19	4
ENPUT64L_XREQUEST_PAGEIN	19	8
ENPUT64L_XREQUEST_PAGEOUT	19	6
ENPUT64L_XREQUEST_PAGEUNFIX	19	5
ENPUT64L_XREQUEST_PCIEFIX	19	11
ENPUT64L_XREQUEST_PCIEUNFIX	19	12
ENPUT64L_XREQUEST_PROTECT	19	9
ENPUT64L_XREQUEST_SHAREMEMOBJ	19	A
ENPUT64L_XREQUEST_UNPROTECT	19	C
ENPUT64L_XRSV0001	99	
ENPUT64L_XRSV0004	A9	
ENPUT64L_XRSV0005	C3	
ENPUT64L_XSADMP_NO	0	10
ENPUT64L_XSADMP_YES	0	20
ENPUT64L_XSEGMENTS	20	
ENPUT64L_XSENSITIVE_NO	C1	20
ENPUT64L_XSENSITIVE_YES	C1	40
ENPUT64L_XSVCDUMPRGN_ALL	1E	1
ENPUT64L_XSVCDUMPRGN_NO	1E	4
ENPUT64L_XTRACKINFO_YES	93	2
ENPUT64L_XTTOKEN	28	
ENPUT64L_XTYPE_DREF	91	10
ENPUT64L_XTYPE_FIXED	C0	4

Table 189. Cross Reference for \$ENPUTWK (continued)

Name	Offset	Hex Tag
ENPUT64L_XTYPE_PAGEABLE	91	20
ENPUT64L_XUNITS	B8	
ENPUT64L_XUNITSIZE_1M	C0	40
ENPUT64L_XUNITSIZE_2G	C0	20
ENPUT64L_XUNLOCKED_YES	93	1
ENPUT64L_XUSERTKN	38	
ENPUT64L_XUSERTOKEN	88	
ENPUT64L_XUSE2GT032G_YES	1E	20
ENPUT64L_XUSE2GT064G_YES	0	8
ENPUT64L_XVERSION	18	
ENPUT64L_XVIEW_HIDDEN	1F	8
ENPUT64L_XVIEW_READONLY	1F	20
ENPUT64L_XVIEW_SHAREDWRITE	1F	10
ENPUT64L_XV64COMMON_NO	92	80
ENPUT64L_XV64LISTLENGTH	6C	
ENPUT64L_XV64LISTPTR	68	
ENPUT64L_XV64SELECT_NO	1E	8
ENPUT64L_XV64SHARED_NO	1E	2
ENPUT64LL	C8	B0
M00M1306	0	18
SROBJCAR	15	
SROBJDLN	C	
SROBJFCR	14	80
SROBJFLG	17	
SROBJFL1	14	
SROBJLRC	16	
SROBJLRE	8	
SROBJNXT	10	
SROBJTLN	4	
SROBJTX@	0	

\$EOMWORK information

\$EOMWORK heading information

Common name:	JES2 End of Memory PCE Work Area
Macro ID:	\$EOMWORK
DSECT name:	PCE (\$EOMWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)

Eye-catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage attributes: Subpool: See \$PCE
Key: See \$PCE
Residency: See \$PCE

Size: See symbol EOMPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$EOMPCE field of the \$HCT data area
The EMSPCE field of the \$DTEEOM data area
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 End of Memory Processor. \$EOMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$EOMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEEOMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$EOMWORK mapping

Table 190. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	ADDRESS	4	EOMDTE	Address of our EOMDTE
340	(154)	BITSTRING	4		Reserved for future use
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	X'8'	0	EOMPCEWL	"*-PCEWORK" Length of misc PCE work area

\$ERA information

\$ERA programming interface information

The following field is **NOT** programming interface information:

- ERAPRE

\$ERA heading information

Common name: JES2 Error Recovery Area
Macro ID: \$ERA
DSECT name: ERA

Owning component: JES2 (SC1BH)

Eye-catcher ID: ERA
Offset: ERAERAID-ERA
Length: L'ERAERAID

Storage attributes: Subpool: 0, Also refer to \$DTE and \$TRCA
Key: 1, Also refer to \$DTE and \$TRCA
Residency: Anywhere. Also refer to the \$DTE and \$TRCA in which an \$ERA is imbedded.

Size: See ERALENG

Created by: \$ANALYZE routine in HASPTERM getmains an \$ERA.
An emergency \$ERA exists as part of the \$TRCA.
An \$ERA is also created as part of the \$DTE.

Pointed to by: ERAPREV field of the \$ERA data area
PCEERA field of the \$PCE data area
PREERA field of the \$PRE data area
SPNERA field of the \$SPNWORK data area
TRCAERA field of the \$TRCA data area

Serialization: Fields are serialized implicitly, by being changeable by only one task, either the JES2 main task or a JES2 subtask.

Function: Provides work areas and communication fields required for processing abends in the JES2 address space and possible later recovery.
The \$ERA is imbedded in the \$DTE at field DTEERA for use in a subtask. An emergency \$ERA is imbedded in the \$TRCA at field TRCAEERA. The \$ERA is also getmained separately from other control blocks.

\$ERA mapping

Table 191. Structure ERA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ERA	HASP ERROR RECOVERY AREA
0	(0)	CHARACTER	4	ERAERAID	EBCDIC ID - 'ERA '
0	(0)	X'0'	0	ERAVN	"0" VERSION NUMBER CURRENTLY 0
4	(4)	ADDRESS	1	ERAERAVN	CONTROL BLOCK VERSION NUMBER
5	(5)	BITSTRING	1	ERAFLAGS	FLAGS - SEE BELOW
6	(6)	BITSTRING	2		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	ERADOMID	DOM ID OF HASP095
12	(C)	ADDRESS	4	ERAERPL	IF HASP CAT. ERROR ERPL ADDRESS - OTHERWISE 0
16	(10)	SIGNED	4	ERACODE	CATASTROPHIC ERROR REASON CODE
ERROR LOCATION AND ENVIRONMENT INFORMATION SECTION					
20	(14)	ADDRESS	4	ERAFADDR	FAILING ADDR FOR ERROR
24	(18)	SIGNED	4	ERAJLMOD(0)	MODMAP-STYLE ENTRY, JES2 LMOD
40	(28)	SIGNED	4	ERAELMOD(0)	MODMAP-STYLE ENTRY, ERROR LMOD

Table 191. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	SIGNED	4	ERAESECT(0)	MODMAP-STYLE ENTRY, ERROR CSECT
72	(48)	SIGNED	8	ERAESRGS(3)	REGS 0,1,2 ON ENTRY TO \$ABEND
72	(48)	X'48'	0	ERAESR60	"ERAESRGS,8" 64 bit R0 on entry to ESTAE
72	(48)	X'4C'	0	ERAESRG0	"ERAESR60+4,4" 31 bit R0 on entry
72	(48)	X'50'	0	ERAESR61	"ERAESRGS+8,8" 64 bit R1 on entry to ESTAE
72	(48)	X'54'	0	ERAESRG1	"ERAESR61+4,4" 31 bit R1 on entry
72	(48)	X'54'	0	ERASDWA	"ERAESRG1,4,C'A'" ADDRESS OF SDWA
72	(48)	X'54'	0	ERAESR62	"ERAESRGS+12,8" 64 bit R2 on entry to ESTAE
72	(48)	X'58'	0	ERAESRG2	"ERAESR62+4,4" 31 bit R2 on entry
96	(60)	CHARACTER	8	ERAMODN	Mod name for event record
104	(68)	CHARACTER	8	ERAMODO	Mod offset for event record
112	(70)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
116	(74)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED- OTHERWISE 0
120	(78)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
124	(7C)	ADDRESS	4	ERACPCE	VALUE OF \$CURPCE AT TIME OF ERR
128	(80)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA
\$SETRP SECTION - FOLLOWING FIELDS SET BY \$SETRP - DEFAULT VALUES ESTABLISHED IN \$RETRY FRONTEND					
130	(82)	BITSTRING	1	ERASETRP	OPTION - I.E. RESUME, TERMINATE, OR PERCOLATE
131	(83)	BITSTRING	1	ERADTEF1	Subtask recovery flag 1 (can be modified in \$STABEND VRA exit)
		1...		ERADF1MG	"B'10000000" Suppress messages for error (HASP078/HASP088)
		.1..		ERADF1DU	"B'01000000" Suppress SDUMP for error
		..1.		ERADF1QU	"B'00100000" Quiet SETRP for recovery (RECORD=NO)
		...1		ERADF1NC	"B'00010000" Do not count as an error for threshold processing
132	(84)	ADDRESS	4	ERARZOOM	ADDRESS OF POINT OF RESUMPTION (FROM RESUME=)
END OF \$SETRP SECTION END OF \$SETRP SECTION REGISTER SECTION - - ON ENTRY TO PROCESSOR RECOVERY ROUTINE ERAREGS REGISTERS ARE AS THEY WERE AT TIME OF ERROR. IF \$ERROR, ANY REGISTERS WIPED OUT BY \$ERROR HAVE BEEN RESET TO VALUES PRIOR TO EXECUTION OF THE \$ERROR MACRO. (NOTE THAT THESE REGISTER VALUES ARE FROM SDWASRSV AS OPPOSED TO SDWAGRSV) - ON RETURN TO \$RETRY FROM PROCESSOR RECOVERY ROUTINE, IF \$SETRP RESUME= IS SPECIFIED, THESE VALUES (ERAREGS) DETERMINE THE REGISTER CONTENTS AT POINT OF RESUMPTION, WITH THE EXCEPTION OF R11 (ALWAYS R11), R13 (ALWAYS PCE ADDRESS) AND R15 (ADDRESS OF POINT OF RESUMPTION)					
136	(88)	BITSTRING	64	ERACREGS	COPY OF REGISTER VALUES PLACED IN ERAREGS IN \$ABEND, REGARDLESS OF CHANGES TO ERAREGS BY RTNS
200	(C8)	BITSTRING	64	ERACHRGs	High halves of ERACREGS
264	(108)	BITSTRING	64	ERAREGS	Register save area

Table 191. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
264	(108)	SIGNED	4	ERAREG0	REGISTER 0
268	(10C)	SIGNED	4	ERAREG1	REGISTER 1
272	(110)	SIGNED	4	ERAREG2	REGISTER 2
276	(114)	SIGNED	4	ERAREG3	REGISTER 3
280	(118)	SIGNED	4	ERAREG4	REGISTER 4
284	(11C)	SIGNED	4	ERAREG5	REGISTER 5
288	(120)	SIGNED	4	ERAREG6	REGISTER 6
292	(124)	SIGNED	4	ERAREG7	REGISTER 7
296	(128)	SIGNED	4	ERAREG8	REGISTER 8
300	(12C)	SIGNED	4	ERAREG9	REGISTER 9
304	(130)	SIGNED	4	ERAREG10	REGISTER 10
308	(134)	SIGNED	4	ERAREG11	REGISTER 11
312	(138)	SIGNED	4	ERAREG12	REGISTER 12
316	(13C)	SIGNED	4	ERAREG13	REGISTER 13
320	(140)	SIGNED	4	ERAREG14	REGISTER 14
324	(144)	SIGNED	4	ERAREG15	REGISTER 15
328	(148)	BITSTRING	64	ERAHRGS	High half reg save area
328	(148)	SIGNED	4	ERAHRG0	High half register 0
332	(14C)	SIGNED	4	ERAHRG1	High half register 1
336	(150)	SIGNED	4	ERAHRG2	High half register 2
340	(154)	SIGNED	4	ERAHRG3	High half register 3
344	(158)	SIGNED	4	ERAHRG4	High half register 4
348	(15C)	SIGNED	4	ERAHRG5	High half register 5
352	(160)	SIGNED	4	ERAHRG6	High half register 6
356	(164)	SIGNED	4	ERAHRG7	High half register 7
360	(168)	SIGNED	4	ERAHRG8	High half register 8
364	(16C)	SIGNED	4	ERAHRG9	High half register 9
368	(170)	SIGNED	4	ERAHRG10	High half register 10
372	(174)	SIGNED	4	ERAHRG11	High half register 11
376	(178)	SIGNED	4	ERAHRG12	High half register 12
380	(17C)	SIGNED	4	ERAHRG13	High half register 13
384	(180)	SIGNED	4	ERAHRG14	High half register 14
388	(184)	SIGNED	4	ERAHRG15	High half register 15
392	(188)	BITSTRING	64	ERAAREGS	Access register save area
392	(188)	SIGNED	4	ERAAR0	Access Register 0
396	(18C)	SIGNED	4	ERAAR1	Access Register 1
400	(190)	SIGNED	4	ERAAR2	Access Register 2
404	(194)	SIGNED	4	ERAAR3	Access Register 3
408	(198)	SIGNED	4	ERAAR4	Access Register 4
412	(19C)	SIGNED	4	ERAAR5	Access Register 5
416	(1A0)	SIGNED	4	ERAAR6	Access Register 6
420	(1A4)	SIGNED	4	ERAAR7	Access Register 7
424	(1A8)	SIGNED	4	ERAAR8	Access Register 8
428	(1AC)	SIGNED	4	ERAAR9	Access Register 9
432	(1B0)	SIGNED	4	ERAAR10	Access Register 10

Table 191. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
436	(1B4)	SIGNED	4	ERAAR11	Access Register 11
440	(1B8)	SIGNED	4	ERAAR12	Access Register 12
444	(1BC)	SIGNED	4	ERAAR13	Access Register 13
448	(1C0)	SIGNED	4	ERAAR14	Access Register 14
452	(1C4)	SIGNED	4	ERAAR15	Access Register 15
456	(1C8)	BITSTRING	8	ERAPSW	Last JES2 related PSW
464	(1D0)	BITSTRING	1	ERAINCD	Interrupt code (second byte)
465	(1D1)	BITSTRING	1	ERAILC	Instruction length count
466	(1D2)	BITSTRING	2		Reserved
472	(1D8)	ADDRESS	8	ERATEA	Translation exception addr
480	(1E0)	ADDRESS	8	ERABEA	Breaking event address
488	(1E8)	ADDRESS	4	ERAREGRB	RB that contains JES2 regs (points to RB prefix)
492	(1EC)	ADDRESS	4	ERAJQE	Related JQE address
496	(1F0)	BITSTRING	12		Reserved for future use
508	(1FC)	SIGNED	4	(0)	ROUND TO FULLWORD
508	(1FC)	X'1FC'	0	ERALENG	"*-ERA" LENGTH (ROUNDED TO FULLWORD)
ERAFLAGS BIT DEFINITIONS					
	1... ..			ERAEMERG	"X'80'" EMERGENCY ERA, DONT'T FREEMAIN
	.1.. ..			ERAXMS	"X'40'" HOME ASID NOT PRIMARY AT ERROR
	..1.			ERAFRBLC	"X'20'" ERAFADDR CAME FROM \$RBFADDR
	...1			ERACSAM	"X'10'" LOAD MODULE WITH ERROR IN CSA
	.... 1...			ERAARMOD	"X'08'" ASC=ARMODE at time of ABEND
	.... .1..			ERAS1J2M	"X'04'" 1st JES2 modules found in HASP088 message traceback
	.... ..1.			ERARSVF6	"X'02'" RESERVED FOR FUTURE USE
	.... ...1			ERARSVF7	"X'01'" RESERVED FOR FUTURE USE
ERASETRP BIT DEFINITIONS					
	1... ..			ERATRPTM	"X'80'" TERMINATE
	.1.. ..			ERATRPC	"X'40'" PERCOLATE
	..1.			ERATRPRE	"X'20'" RESUME
	...1			ERAHVRGS	"X'10'" ERA HAS REGS (ON IF SDWA EXISTS)
	.... 1...			ERATRPR0	"X'08'" RESERVED FOR FUTURE USE
	.... .1..			ERATRPR1	"X'04'" RESERVED FOR FUTURE USE
	.... ..1.			ERATRPR2	"X'02'" RESERVED FOR FUTURE USE
	.... ...1			ERATRPR3	"X'01'" RESERVED FOR FUTURE USE

Table 192. Cross Reference for \$ERA

Name	Offset	Hex Tag
ERA	0	
ERAAREGS	188	
ERAARMOD	1FC	8

Table 192. Cross Reference for \$ERA (continued)

Name	Offset	Hex Tag
ERAAR0	188	
ERAAR1	18C	
ERAAR10	1B0	
ERAAR11	1B4	
ERAAR12	1B8	
ERAAR13	1BC	
ERAAR14	1C0	
ERAAR15	1C4	
ERAAR2	190	
ERAAR3	194	
ERAAR4	198	
ERAAR5	19C	
ERAAR6	1A0	
ERAAR7	1A4	
ERAAR8	1A8	
ERAAR9	1AC	
ERABEA	1E0	
ERACHRGs	C8	
ERACODE	10	
ERACPCE	7C	
ERACREGs	88	
ERACsAM	1FC	10
ERADF1DU	83	40
ERADF1MG	83	80
ERADF1NC	83	10
ERADF1QU	83	20
ERADOMID	8	
ERADTEF1	83	
ERAELMOD	28	
ERAEMERG	1FC	80
ERAERAID	0	C5D9C140
ERAERAVN	4	
ERAERPL	C	
ERAECT	38	
ERAESRGs	48	
ERAESRG0	48	4C
ERAESRG1	48	54
ERAESRG2	48	58
ERAESR60	48	48

Table 192. Cross Reference for \$ERA (continued)

Name	Offset	Hex Tag
ERAESR61	48	50
ERAESR62	48	54
ERAFADDR	14	
ERAFLAGS	5	
ERAFRBLC	1FC	20
ERAHRGS	148	
ERAHRG0	148	
ERAHRG1	14C	
ERAHRG10	170	
ERAHRG11	174	
ERAHRG12	178	
ERAHRG13	17C	
ERAHRG14	180	
ERAHRG15	184	
ERAHRG2	150	
ERAHRG3	154	
ERAHRG4	158	
ERAHRG5	15C	
ERAHRG6	160	
ERAHRG7	164	
ERAHRG8	168	
ERAHRG9	16C	
ERAHVRGS	1FC	10
ERAILC	1D1	
ERAINCD	1D0	
ERAJLMOD	18	
ERAJQE	1EC	
ERALENG	1FC	1FC
ERAMODN	60	
ERAMODO	68	
ERAPRE	70	
ERAPRECT	80	
ERAPREV	74	
ERAPSVAD	78	
ERAPSW	1C8	
ERAREGRB	1E8	
ERAREGS	108	
ERAREG0	108	
ERAREG1	10C	

Table 192. Cross Reference for \$ERA (continued)

Name	Offset	Hex Tag
ERAREG10	130	
ERAREG11	134	
ERAREG12	138	
ERAREG13	13C	
ERAREG14	140	
ERAREG15	144	
ERAREG2	110	
ERAREG3	114	
ERAREG4	118	
ERAREG5	11C	
ERAREG6	120	
ERAREG7	124	
ERAREG8	128	
ERAREG9	12C	
ERARSVF6	1FC	2
ERARSVF7	1FC	1
ERARZOOM	84	
ERASDWA	48	54
ERASETRP	82	
ERAS1J2M	1FC	4
ERATEA	1D8	
ERATRPPC	1FC	40
ERATRPRE	1FC	20
ERATRPR0	1FC	8
ERATRPR1	1FC	4
ERATRPR2	1FC	2
ERATRPR3	1FC	1
ERATRPTM	1FC	80
ERAVN	0	0
ERAXMS	1FC	40

\$ERPL information

\$ERPL heading information

Common name: \$ERROR parameter list
Macro ID: \$ERPL
DSECT name: ERPL
Owning component: JES2 (SC1BH)

Eye-catcher ID:	none
Storage attributes:	Subpool: The subpool of the associated code module Key: The key of the associated code module Residency: The residency is that of the associated code module. Virtual and real storage may be above or below 16M, in the private storage of a JES2 or FSS address space, or in common storage.
Size:	See the ERPLLENG equate.
Created by:	ERPLs are created during an assembly of a module, in the expansion of a \$ERROR macro. A table of fixed ERPLs is also defined in the JES2 main task's ABEND routine, representing system ABENDs (e.g SOCx).
Pointed to by:	The way that ERPL is pointed to depends on the environment (JES2, USER, SUBTASK or FSS). - During an ABEND initiated by a \$ERROR macro in the JES2 assembly environment, the \$ERRERPL field of the HCT control block points to the associated ERPL. - During an ABEND initiated by a \$ERROR macro in the USER or SUBTASK environment, the ERPL is expanded immediately after the ABEND macro expansion. Its address is therefore located from the ABEND SDWA control block's SDWANXT2 field. - While processing an error in a \$ERROR macro in the FSS assembly environment, \$ERROR expands to a call of the error processing routine instead of an ABEND. The ERPL is the call parameter list, in register 14.
Serialization:	ERPLs are assembled into modules, and are read-only,
Function:	Two types of ERPLs exist: those generated by the \$ERROR macro in the JES2, USER, SUBTASK and FSS assembly environments and those that are fixed. The first type of ERPL is a parameter list generated by the \$ERROR macro that describes an error situation in which JES2 code recognizes the error and chooses to issue an ABEND. Recovery of the task may or may not be attempted, depending on the situation. The ERPL defines the JES2 error code, message text describing the error, and flags. The second type of ERPL is a fixed ERPL defined to the JES2 main task ESTAE routine that maps certain well known system errors, such as SOCx ABENDs.

\$ERPL mapping

Table 193. Structure ERPL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ERPL	HASP \$ERROR PARM LIST DSECT
0	(0)	CHARACTER	4	ERPLCODE	\$ERROR CODE, W/O '\$', LEFT JUSTIFIED
4	(4)	CHARACTER	8	ERPLMOD	Module with \$ERROR
12	(C)	CHARACTER	8	ERPLSEQ	SEQ number of \$ERROR
20	(14)	BITSTRING	1	ERPLFLG2	Flags
		1...		ERPLDAFT	"B'10000000" AFTOKEN specified for dump

Table 193. Structure ERPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1...		ERPLDAFF	"B'01000000" AFFIELD specified for dump
		..1.		ERPLDMAS	"B'00100000" Dump all MAS members
		...1		ERPLNDMP	"B'00010000" Take no SDUMP
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	BITSTRING	1	ERPLFLAG	FLAGS
		1...		ERPLTXTF	"X'80'" IF ON THIS ERPL HAS TEXT, ELSE ERPLTEXT CONTAINS ADDR. OF ERPL CONTAINING TEXT
		.1...		ERPLTERM	"X'40'" TERMINATE, IF ON RECOVERY ATTEMPTS NOT PERMITTED
		..1.		ERPLRIPL	"X'20'" INDICATES AN ERROR REQUIRING RE-IPL
		...1		ERPLTREG	"X'10'" On indicates R0 at ABEND has addr of error text
		.... 1...		ERPLDIS	"X'08'" \$DISTERR in disguise
		.... .1..		ERPLRVO	"X'04'" RECVOPTS was specified
		.... ..1.		ERPLHCT	"X'02'" On indicates that \$ERREOPT has addr of RECVOPTS
		.... ...1		ERPLPERC	"X'01'" PERCOLATE requested
The next two fields must be in this order					
23	(17)	SIGNED	1	ERPLTXTL	LENGTH OF TEXT IF ANY, ELSE UNUSED
24	(18)	ADDRESS	4	ERPLTEXT	ADDR. OF ERPL CONTAINING TEXT, OR TEXT, DEPENDING ON ERPLTXTF (NO ALIGNMENT IS INTENTIONAL)
The next field is only here if ERPLRVO is on. If ERPLTEXT contains text, this field, if specified, immediately follows that text.					
28	(1C)	CHARACTER	8	ERPLRCVO	RECVOPTS to use in recovery
28	(1C)	X'24'	0	ERPLLENG	"*-ERPL" LENGTH OF ERPL

Table 194. Structure DISTITLE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DISTITLE	
0	(0)	SIGNED	1	DISDMPL	Length of title
1	(1)	CHARACTER	26	DISTEXT	Fixed message
27	(1B)	CHARACTER	8	DISSYM	Symbol of disastrous error
27	(1B)	X'22'	0	DISTLEN	"*-DISTEXT" Length of title

Table 195. Cross Reference for \$ERPL

Name	Offset	Hex Tag
DISDMPL	0	
DISSYM	1B	
DISTEXT	1	
DISTITLE	0	
DISTLEN	1B	22

Table 195. Cross Reference for \$ERPL (continued)

Name	Offset	Hex Tag
ERPL	0	
ERPLCODE	0	
ERPLDAFF	14	40
ERPLDAFT	14	80
ERPLDIS	16	8
ERPLDMAS	14	20
ERPLFLAG	16	
ERPLFLG2	14	
ERPLHCT	16	2
ERPLLENG	1C	24
ERPLMOD	4	
ERPLNDMP	14	10
ERPLPERC	16	1
ERPLRCVO	1C	
ERPLRIPL	16	20
ERPLRVO	16	4
ERPLSEQ	C	
ERPLTERM	16	40
ERPLTEXT	18	
ERPLTREG	16	10
ERPLTXTF	16	80
ERPLTXTL	17	

\$ERRTAB information

\$ERRTAB heading information

Common name:	Error count table
Macro ID:	\$ERRTAB
DSECT name:	ERRTAB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'\$\$ERRTAB' Offset: 0 Length: 8
Storage attributes:	Subpool: 0 Key: 1 Residency: 31 bit storage
Size:	See ERRTABLN for the length of the table used by the JES2 main task.

Created by: During initialization in private storage.

Pointed to by: \$ERRTABA field of the \$HCT data area

Serialization: None.

Function: Provides data for monitor subtask about the various error types and their corresponding counts

\$ERRTAB mapping

Table 196. Structure ERRTAB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ERRTAB	Error count table
0	(0)	CHARACTER	8	ERRTABID	ERRTAB Eyecatcher
8	(8)	SIGNED	4	ERRTABLN	Error table size
12	(C)	BITSTRING	1	ERRTNENT	Number of entries
16	(10)	SIGNED	4	ERRFRST(0)	Start of element array
16	(10)	X'10'	0	ERRPRFX	"*-ERRTAB" Length of prefix

Table 197. Structure ERRELE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ERRELE	Element of array
0	(0)	CHARACTER	8	ERRNAME	Name of error
8	(8)	SIGNED	4	ERRCOUNT	Count of errors
12	(C)	ADDRESS	1	ERRCATGR	Category of errors defined in \$RVSTACK
16	(10)	SIGNED	4	(0)	
16	(10)	X'10'	0	ERRENTSZ	"*-ERRELE" Length of one entry

Table 198. Cross Reference for \$ERRTAB

Name	Offset	Hex	Tag
ERRCATGR	C		
ERRCOUNT	8		
ERRELE	0		
ERRENTSZ	10		10
ERRFRST	10		
ERRNAME	0		
ERRPRFX	10		10
ERRTAB	0		
ERRTABID	0	5B5BC5D9	
ERRTABLN	8		
ERRTNENT	C		

\$EVT information

\$EVT programming interface information

\$EVT is a programming interface.

\$EVT heading information

Common name:	HASP ENF LISTEN Event DSECT
Macro ID:	\$EVT
DSECT name:	EVT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'EVT ' Offset: EVTID-EVT Length: L'EVTID
Storage attributes:	Subpool: n/a Key: 1 Residency: jesxEVT data space
Size:	See EVTLEN
Created by:	HASCENF
Pointed to by:	CCTENFQH field of the \$HCCT data area CCTENFQT field of the \$HCCT data area EVTNEXT field of the \$EVT data area EVT PREV field of the \$EVT data area
Serialization:	-The EVTs chained from the HCCT are serialized using the \$FIFOENQ and \$FIFODEQ services.
Function:	The EVT defines ENF LISTEN events which have been queued, by the ENF LISTEN exits in HASCENF, for processing by the JES2 main task.

\$EVT mapping

Table 199. Structure EVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVT	
0	(0)	CHARACTER	4	EVTID	EVT identifier
4	(4)	ADDRESS	1	EVTVRSN	Current version in storage
4	(4)	X'1'	0	EVTCURVN	"1" Current version number
5	(5)	BITSTRING	1	EVTFLAG1	EVT flags
		1... ..		EVT1GETM	"B'10000000'" EVTPARMS contains a pointer to CSA containing EVT data
6	(6)	SIGNED	2	EVTTYPE	Type - for a branch table
6	(6)	X'0'	0	EVT41GL	"0" Event type 41 - WLMENF12
6	(6)	X'4'	0	EVT41CP	"4" Event type 41 - WLMENF22
6	(6)	X'8'	0	EVT46	"8" Event type 46 - OMVS active
6	(6)	X'C'	0	EVT53	"12" Event type 53 - Time offset

Table 199. Structure EVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'10'	0	EVT56RST	"16" Event type 56 - Reset job
6	(6)	X'14'	0	EVT56RGQ	"20" Event type 56 - Reg. queue
6	(6)	X'18'	0	EVT57CM	"24" Event type 57 - Command
6	(6)	X'1C'	0	EVT57RV	"28" Event type 57 - Recovery
6	(6)	X'20'	0	EVT58JU	"32" Event type 58 - JOE update
6	(6)	X'24'	0	EVT58	"36" Event type 58 - Data set
6	(6)	X'28'	0	EVT62	"40" Event type 62 - RACF SETR
6	(6)	X'2C'	0	EVT70	"44" Event type 70 - Job status
6	(6)	X'30'	0	EVT86	"48" Event type 86 - Compliance
8	(8)	ADDRESS	4	EVTNEXT	Next EVT on queue
12	(C)	ADDRESS	4	EVT PREV	Previous EVT on Q

Event parameters as passed to LISTEN exit

16	(10)	DBL WORD	8	EVT PARMS(0)	Event Parameters
16	(10)	ADDRESS	4	EVTCDATA	Address when data is in CSA
16	(10)	CHARACTER	4		Event 41 parameters
16	(10)	CHARACTER	84		Event 56 parameters
16	(10)	CHARACTER	48		Event 57 parameters
16	(10)	CHARACTER	24		Event 62 parameters
16	(10)	CHARACTER	320		Event 58
16	(10)	CHARACTER	216		70
16	(10)	BITSTRING	8		Event 53
16	(10)	BITSTRING	284		Event 86
336	(150)	X'140'	0	EVT PARML	"*-EVT PARMS" Length of largest parms
336	(150)	DBL WORD	8	(0)	Round length to double word
336	(150)	X'150'	0	EVT LENG	"*-EVT" EVT Length

Table 200. Cross Reference for \$EVT

Name	Offset	Hex Tag
EVT	0	
EVTCDATA	10	
EVTCURVN	4	1
EVTFLAG1	5	
EVTID	0	
EVTLENG	150	150
EVTNEXT	8	
EVT PARML	150	140
EVT PARMS	10	
EVT PREV	C	
EVTTYPE	6	
EVT VRSN	4	
EVT1GETM	5	80
EVT41CP	6	4

Table 200. Cross Reference for \$EVT (continued)

Name	Offset	Hex Tag
EVT41GL	6	0
EVT46	6	8
EVT53	6	C
EVT56RGQ	6	14
EVT56RST	6	10
EVT57CM	6	18
EVT57RV	6	1C
EVT58	6	24
EVT58JU	6	20
EVT62	6	28
EVT70	6	2C
EVT86	6	30

\$EZA information

\$EZA programming interface information

\$EZA is a programming interface.

\$EZA heading information

Common name:	EZASMI work areas
Macro ID:	\$EZA
DSECT name:	EZA
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	EZA Offset: EZAID Length: 4
Storage attributes:	Subpool: 0 Key: 1 Residency: VIRTUAL - anywhere REAL - anywhere
Size:	See SCKLEN
Created by:	Jes2 initialization
Pointed to by:	\$EZAADDR field of the HCT data area
Serialization:	JES2 main task
Function:	Work areas for TCP/IP functions from JES2 main task

\$EZA mapping

Table 201. Structure EZA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EZA	EZASMI work area DSECT
0	(0)	CHARACTER	4	EZAID	Control block identifier
0	(0)	X'1'	0	EZAVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	EZAVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	DBL WORD	8	(0)	
8	(8)	BITSTRING	8	EZAGBL	Global work area for the JES2 address space
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	176	EZATASK	Task work area for the JES2 Main Task
192	(C0)	DBL WORD	8	(0)	
192	(C0)	SIGNED	2	EZAMXSOC	Max sockets value
194	(C2)	SIGNED	2		Reserved
196	(C4)	SIGNED	4	EZAMXSNO	Max socket number
200	(C8)	SIGNED	4	EZAERRNO	ERRNO value
204	(CC)	SIGNED	4	EZARETCD	RETCD value
208	(D0)	SIGNED	4	EZADUBER	ERRNO value for DUBJOBPERM
212	(D4)	SIGNED	4	EZADUBRT	RETCD value for DUBJOBPERM
216	(D8)	SIGNED	2	EZAIPLNG	Length value
218	(DA)	BITSTRING	1	EZAFLAG1	Flags
	1...			EZA1RCOV	"B'10000000" Recovery recursion flag
	.1...			EZA1DUBP	"B'01000000" JES2 dubbed permanent process
	..1.			EZA1ENF	"B'00100000" ENF 46 received
219	(DB)	BITSTRING	133	EZAWIPAD	Work area for IP address
352	(160)	DBL WORD	8	(0)	
352	(160)	BITSTRING	256	EZAWORK	Working storage
608	(260)	DBL WORD	8	(0)	
608	(260)	X'260'	0	EZALENTH	"*-EZA" IP address for socket

Table 202. Cross Reference for \$EZA

Name	Offset	Hex Tag
EZA	0	
EZADUBER	D0	
EZADUBRT	D4	
EZAERRNO	C8	
EZAFLAG1	DA	
EZAGBL	8	
EZAID	0	
EZAIPLNG	D8	
EZALENTH	260	260
EZAMXSNO	C4	
EZAMXSOC	C0	

Table 202. Cross Reference for \$EZA (continued)

Name	Offset	Hex Tag
EZARETCD	CC	
EZATASK	10	
EZAVRNUM	0	1
EZAVRSN	4	
EZAWIPAD	DB	
EZAWORK	160	
EZA1DUBP	DA	40
EZA1ENF	DA	20
EZA1RCOV	DA	80

\$FCLWORK information

\$FCLWORK heading information

Common name:	JES2 FSS Cleanup on EOM PCE Work Area
Macro ID:	\$FCLWORK
DSECT name:	PCE (\$FCLWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol FCLPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$FCLPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 FSS Cleanup on EOM Processor and by its support routines and exits. \$FCLWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$FCLWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEFCLID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$FCLWORK mapping

Table 203. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	DBL WORD	8	(0)	Force double-word alignment
336	(150)	X'0'	0	FCLPCEWS	"*-PCEWORK" Length of work area

\$FRDR information

\$FRDR heading information

Common name:	File reader work area
Macro ID:	\$FRDR
DSECT name:	FRDR FRDR24
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	FRDR FR24 Offset: FRDID-FRDR FR24ID-FR24 Length: L'FRDID L'FR24ID
Storage attributes:	Subpool: 0 Key: 1 Residency: Main data area (FRDR) is in 31 bit virtual storage in the JES2 address space. The FRDR24 is located in 24 bit virtual storage in the JES2 address space due to I/O data area restrictions. There is no restriction on the real storage associated with the data area (can be in 64 bit storage)
Size:	See FRDLEN/FR24LEN
Created by:	HASPIRMA during JES2 initialization
Pointed to by:	SBTFRDR field of the SBMT data area
Serialization:	Normal PCE dispatch serialization
Function:	Contains the 24 bit data areas needed by the JES2 file read support. It is mostly used in a general purpose subtask to read a member from a DD (SUBMITLIB or POLICYLIB).

\$FRDR mapping

Table 204. Structure FRDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRDR	File reader work area
0	(0)	CHARACTER	4	FRDID	Control block id
4	(4)	ADDRESS	4	FRDOWNER	Address of "owning" control block
8	(8)	ADDRESS	4	FRD24A	Address of 24 bit work area

Input areas that should be set by the caller of the file reader services.

Table 204. Structure FRDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
12	(C)	CHARACTER	8	FRDONAME	Name of owning function
Input console ID and CART for any messages.					
20	(14)	CHARACTER	4	FRDUCMID	4-byte MCS console id
24	(18)	CHARACTER	8	FRDCART	Command and response token
Input to the file reader OPEN service (FRDROpen).					
32	(20)	ADDRESS	4	FRDPADDD	Address of PAD to open
36	(24)	CHARACTER	8	FRDMEMBR	Name of member being read
44	(2C)	SIGNED	4	(10)	Reserved for future use
Output areas that are set by various file reader services Output from the OPEN service (FRDROpen).					
84	(54)	CHARACTER	88	FRDFROM	Data set name/path member is from
172	(AC)	CHARACTER	8	FRDPNAME	PAD name for messages
PADE fields for the data set that contained requested member					
180	(B4)	BITSTRING	1	FRDRFLGS	Copy of PADEFLG1
181	(B5)	BITSTRING	1	FRDRECFM	Data set RECFM (adjusted)
182	(B6)	SIGNED	2	FRDLRECL	Data set LRECL
184	(B8)	SIGNED	2	FRDBLKSZ	Data set BLKSIZE
186	(BA)	BITSTRING	1	FRDORCFM	Original RECFM
187	(BB)	BITSTRING	1		Reserved
188	(BC)	SIGNED	4	(10)	Reserved for future use
Work areas used by the file reader services Buffers used by READ service (FRDRREAD).					
228	(E4)	ADDRESS	4	FRDBUFR	Address of buffer passed to READ
232	(E8)	ADDRESS	4	FRDBUFLN	and returned used length
236	(EC)	ADDRESS	4	FRDBFEND	Pointer to 1 past buffer end
240	(F0)	ADDRESS	4	FRDRECAD	Address of next record in FRDBUFR
MF=L data areas					
244	(F4)	SIGNED	4	FRDOP(0)	ALIGN LIST TO WORD
244	(F4)	ADDRESS	1		Option byte
245	(F5)	ADDRESS	3		Reserved
248	(F8)	ADDRESS	4		DCB or ACB address
248	(F8)	X'F4'	0	FRDOPEN	"FRDOP,*-FRDOP"
252	(FC)	SIGNED	4	FRDCL(0)	ALIGN LIST TO FULLWORD
252	(FC)	ADDRESS	1		OPTION BYTE
253	(FD)	ADDRESS	3		RESERVED BYTES
256	(100)	ADDRESS	4		DCB OR ACB ADDRESS
256	(100)	X'FC'	0	FRDCLOSE	"FRDCL,*-FRDCL"
260	(104)	BITSTRING	8		BLDL Prefix area
268	(10C)	BITSTRING	1	FRDBLDL	BLDL parm list area

Table 204. Structure FRDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
----- \$BLDMSG MF=L List form of \$BLDMSG					
340	(154)	SIGNED	4	FRDBLMSG(0)	Control block ID
344	(158)	BITSTRING	4		Console ID
348	(15C)	ADDRESS	4		Address of the CART
352	(160)	ADDRESS	4		Pointer for JOBID
356	(164)	ADDRESS	4		Control block address
360	(168)	ADDRESS	4		Display routine address
364	(16C)	ADDRESS	4	(6)	6 word work area
388	(184)	ADDRESS	4		Caller's R11 value
392	(188)	BITSTRING	2		ROUT code for Message
394	(18A)	BITSTRING	2		Not used
396	(18C)	CHARACTER	4		Message ID
400	(190)	CHARACTER	1		Separator character
401	(191)	ADDRESS	1		Flag byte 1
402	(192)	ADDRESS	1		'DISPER'
403	(193)	ADDRESS	1		Flag byte 2
404	(194)	ADDRESS	1		Flag byte 3
405	(195)	ADDRESS	1		Severity of message
406	(196)	CHARACTER	8		Symbolic name of dest.
414	(19E)	BITSTRING	14		Not used
428	(1AC)	ADDRESS	4	(0)	Ensure multiple of 4
428	(1AC)	ADDRESS	2	(0)	
Areas used for messages					
428	(1AC)	CHARACTER	8	FRDSRV	Last service called
436	(1B4)	SIGNED	4	FRDRSN	Reason code for errors
440	(1B8)	ADDRESS	4	FRDSYN	SYNADAF message address
444	(1BC)	ADDRESS	4	FRDSYN2	and 2nd message (or 0)
448	(1C0)	SIGNED	8	FRDDWORK	Work area
456	(1C8)	CHARACTER	3	FRDABCDE	ABEND exit ABEND code
459	(1CB)	BITSTRING	1	FRDABRSN	and reason code
460	(1CC)	SIGNED	4	(10)	Reserved for future use
504	(1F8)	SIGNED	8	(0)	Alignment
504	(1F8)	X'1F8'	0	FRDLEN	"*-FRDR" Length of FRDR

Table 205. Structure FRDR24

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRDR24	, File reader 24 bit work area
0	(0)	CHARACTER	4	FR24ID	Control block id
4	(4)	ADDRESS	4	FR24FRDR	Pointer to owning FRDR DATA CONTROL BLOCK
8	(8)	SIGNED	4	FR24DCBL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
8	(8)	ADDRESS	4		
12	(C)	BITSTRING	12		FDAD, DVTBL

Table 205. Structure FRDR24 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
28	(1C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
29	(1D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
32	(20)	ADDRESS	2		BUFL, BUFFER LENGTH
34	(22)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
36	(24)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
40	(28)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
41	(29)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
44	(2C)	BITSTRING	1		RECFM (RECORD FORMAT)
45	(2D)	ADDRESS	3		
48	(30)	CHARACTER	8		DDNAME
56	(38)	BITSTRING	1		OFLGS (OPEN FLAGS)
57	(39)	BITSTRING	1		IFLGS (IOS FLAGS)
58	(3A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
60	(3C)	BITSTRING	1		OPTCD, OPTION CODES
61	(3D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
64	(40)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
68	(44)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
70	(46)	ADDRESS	2		BLKSIZE, BLOCK SIZE
72	(48)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
76	(4C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
80	(50)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
81	(51)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
84	(54)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
88	(58)	ADDRESS	1	(2)	FLAGS AND EITHER DIRECT OR BUFOFF
90	(5A)	ADDRESS	2		LRECL
92	(5C)	ADDRESS	4		CNTRL, NOTE, POINT
DATA CONTROL BLOCK EXTENSION.					
96	(60)	SIGNED	4	FR24DCBE(0)	0 Alignment and identifier
100	(64)	SIGNED	2		4 DCBE V0 length, min is 56'
102	(66)	BITSTRING	2		6 Reserved, should be zero
104	(68)	ADDRESS	4		8 0 if not open, OPEN points to DCB
108	(6C)	BITSTRING	4		C Disk address of current member
112	(70)	BITSTRING	1		10 Flags set by system
113	(71)	BITSTRING	1		11 Flags set by user
114	(72)	SIGNED	2		12 Number of stripes if extended format
116	(74)	BITSTRING	1		14 Flags set by user
117	(75)	BITSTRING	1		15 Flags
118	(76)	BITSTRING	2		16 Reserved

Table 205. Structure FRDR24 (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
120	(78)	BITSTRING	4		18 Reserved
124	(7C)	SIGNED	4		1C Block size
128	(80)	BITSTRING	8		20 Reserved & number of blocks in ds
136	(88)	ADDRESS	4		28 End of data routine address or 0
140	(8C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
144	(90)	BITSTRING	4		30 Reserved, should be zero
148	(94)	SIGNED	2		34 tape files written before sync
150	(96)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
150	(96)	X'8'	0	FR24DCBS	"FR24DCBL,*-FR24DCBL"
152	(98)	BITSTRING	1	FR24FLAG	DCB exit flags
		1...		FR24SYND	"B'10000000'" I/O error has occurred
		.1..		FR24EODD	"B'01000000'" End Of Data has occurred
153	(99)	BITSTRING	3		Reserved
156	(9C)	SIGNED	4	FR24XLST(0)	DCB exits
156	(9C)	ADDRESS	1	FR24XOPN	DCB open
160	(A0)	ADDRESS	1	FR24XABN	ABEND
The following code is copied into the data area because it must be below the line.					
164	(A4)	BITSTRING	0	FR24CODE(0)	Start of code stub
172	(AC)	ADDRESS	4	FR240PNA	stub
184	(B8)	ADDRESS	4	FR24ABNA	stub
184	(B8)	X'18'	0	FR24CODL	"*-FR24CODE" Length of code segment
188	(BC)	ADDRESS	2	(0)	Ensure code segments
188	(BC)	ADDRESS	2	(0)	are the same size
188	(BC)	SIGNED	4	FR24DECB	EVENT CONTROL BLOCK
192	(C0)	BITSTRING	1		TYPE FIELD
193	(C1)	BITSTRING	1		TYPE FIELD
194	(C2)	ADDRESS	2		LENGTH
196	(C4)	ADDRESS	4		DCB ADDRESS
200	(C8)	ADDRESS	4		AREA ADDRESS
204	(CC)	ADDRESS	4		RECORD POINTER WORD
204	(CC)	X'14'	0	FR24DECL	"*-FR24DECB" Length of DECB
208	(D0)	SIGNED	8	FR24DWRK	Work area
216	(D8)	SIGNED	8	(0)	Alignment
216	(D8)	X'D8'	0	FR24LEN	"*-FRDR24" Length of FRDR24

Table 206. Cross Reference for \$FRDR

Name	Offset	Hex Tag
FRDABCDE	1C8	

Table 206. Cross Reference for \$FRDR (continued)

Name	Offset	Hex Tag
FRDABRSN	1CB	
FRDBFEND	EC	
FRDBLDL	10C	
FRDBLKSZ	B8	
FRDBLMSG	154	C2D3C440
FRDBUFLN	E8	
FRDBUFR	E4	
FRDCART	18	
FRDCL	FC	
FRDCLOSE	100	FC
FRDDWORK	1C0	
FRDFROM	54	
FRDID	0	C6D9C4D9
FRDLEN	1F8	1F8
FRDLRECL	B6	
FRDMEMBR	24	
FRDONAME	C	
FRDOP	F4	
FRDOPEN	F8	F4
FRDORCFM	BA	
FRDOWNER	4	
FRDPADDD	20	
FRDPNAME	AC	
FRDR	0	
FRDRECAD	F0	
FRDRECFM	B5	
FRDRFLGS	B4	
FRDRSN	1B4	
FRDR24	0	
FRDSRV	1AC	
FRDSYN	1B8	
FRDSYN2	1BC	
FRDUCMID	14	
FRD24A	8	
FR24ABNA	B8	
FR24CODE	A4	
FR24C0DL	B8	18
FR24DCBE	60	C4C3C2C5
FR24DCBL	8	

Table 206. Cross Reference for \$FRDR (continued)

Name	Offset	Hex Tag
FR24DCBS	96	8
FR24DECB	BC	0
FR24DECL	CC	14
FR24DWRK	D0	
FR24E0DD	98	40
FR24FLAG	98	
FR24FRDR	4	
FR24ID	0	C6D9F2F4
FR24LEN	D8	D8
FR24OPNA	AC	
FR24SYND	98	80
FR24XABN	A0	
FR24XLST	9C	
FR24XOPN	9C	

\$FSACB information

\$FSACB programming interface information

\$FSACB is a programming interface.

\$FSACB heading information

Common name:	JES2 FSA Control Block
Macro ID:	\$FSACB
DSECT name:	FSACB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	FSA Offset: FSACBID-FSACB Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage is anywhere in CSA.
Size:	See FSACBLEN
Created by:	HASPFSSP
Pointed to by:	FSSFSACH field of the \$FSSCB data area
Serialization:	The FSACB chain is serialized via the local and CMS locks.
Function:	The FSACB is the function subsystem application level control block.

\$FSACB mapping

Table 207. Structure FSACB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSACB	FSA CONTROL BLOCK DSECT
0	(0)	CHARACTER	4	FSACBID	FSA CONTROL BLOCK ID
4	(4)	ADDRESS	4	FSAFSID	FSID FOR THIS FSA
4	(4)	X'6'	0	FSAID	"FSAFSID+2,2,C'A'" ID FOR THIS FSA WITHIN FSS
8	(8)	ADDRESS	4	FSAFSSA	POINTER TO PARENT FSS
12	(C)	ADDRESS	4	FSACHAIN	CHAIN PTR FOR FSA, LOCK SERIAL
16	(10)	ADDRESS	4	FSAEXTN	A(FSACB EXTENSION IN FSS ASID)
20	(14)	ADDRESS	4	FSATCB	ADDRESS OF TCB CONNECTING FSA
24	(18)	ADDRESS	4	FSAEDEC	ECB FOR ERROR DCON
28	(1C)	SIGNED	4	FSAXECB(0)	XECB TO POST FSS SERVICE PCE
52	(34)	CHARACTER	4	FSAUNIT	ADDRESS OF DEVICE OWNED BY FSA
52	(34)	X'35'	0	FSAUNIT3	"FSAUNIT+1,3" 3-digit devnum - note that FSAUNIT must begin with 0
56	(38)	CHARACTER	8	FSADEVN	NAME OF DEVICE OWNED BY FSA
These four fields must remain together					
64	(40)	ADDRESS	4	FSAREQSQ	A(REQUEST JIB STACK)
68	(44)	ADDRESS	4	FSAACTQS	A(ACTIVE JIB PSEUDO-STACK)
72	(48)	ADDRESS	4	FSARETQS	A(RETURN JIB STACK)
For a return request, while the FSS PCE is waiting for a CKPT write, the JIB address is saved here.					
76	(4C)	ADDRESS	4	FSAJIBSV	JIB save area
76	(4C)	X'10'	0	FSALENQS	"*-FSAREQSQ" LGTH OF JIB QUEUE POINTER FLDS
80	(50)	SIGNED	2	FSAJQEC	JOBNO OF PREV CANCELLED JOB
82	(52)	SIGNED	2	FSAJOECT	COUNT OF JOES ASSIGNED TO FSA
PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPFSSM. THIS MATCHES THE ONE DEFINED IN \$PPWORK.					
84	(54)	SIGNED	4	FSAAPARM(0)	PARM LIST FOR PRTAUTH
84	(54)	ADDRESS	4	FSAJCTAD	JCT ADDRESS
88	(58)	ADDRESS	4	FSAPDDBA	PDDDB ADDRESS
92	(5C)	ADDRESS	4	FSAANEWS	JESNEWS ADDRESS
96	(60)	CHARACTER	40	FSALOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
136	(88)	ADDRESS	4		RESERVED FOR FUTURE USE END OF PRTAUTH PARM LIST
140	(8C)	SIGNED	4	FSAFLGS(0)	FSA FLAGS
140	(8C)	BITSTRING	1	FSAFLAG1	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
141	(8D)	BITSTRING	1	FSAFLAG2	FLAG BYTE - GENERAL USAGE
142	(8E)	BITSTRING	1	FSAFLAG3	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
143	(8F)	BITSTRING	1	FSAFLAG4	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
144	(90)	SIGNED	4	FSAFLAG(0)	MORE FSA FLAGS

Table 207. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	1	FSAFLAG0	FLAG BYTE - FSI ORDER USAGE
145	(91)	BITSTRING	1	FSAFLAGI	FLAG BYTE - SETUP FOR FSA REQUIRES OPERATOR INTVNTN, SEE ORDIVFI IN IAZFSIP FOR BIT DEFINITIONS
146	(92)	BITSTRING	1	FSAFLAGR	FLAG BYTE - RAS, TRACING Note: Update with NIL/OIL
147	(93)	BITSTRING	1	FSAFLAG5	FLAG BYTE - ESTAE INDICATOR Note: Update with NIL/OIL
FSAFLAG5 FLAG5 BYTE - BIT DEFINITIONS Note: Use NIL/OIL to update.					
		1...		FSA5PCAB	"B'10000000'" ABEND OF PC'D ORDER/ POST FSSM
		.1..		FSA5PINT	"B'01000000'" DEVICE INTERVENTION- REQUIRED CONDITION
		..1.		FSA5OINT	"B'00100000'" OPERATOR INTERVENTION ORDER REQUIRED
		...1		FSA5DONE	"B'00010000'" FSSP MAY NOW FREE FSACB
		.... 1...		FSA5DNRC	"B'00001000'" Device not responding condition
		.... .1..		FSA5DSRP	"B'00000100'" FSA repositioning within DS
		.... ..1.		FSA5BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		.... ...1		FSA5BIT7	"B'00000001'" RESERVED FOR FUTURE USE
148	(94)	ADDRESS	4	FSAPCE	ADDRESS OF ASSOCIATED PCE
152	(98)	SIGNED	4	FSAFLAGA(0)	Additional FSA flags
152	(98)	BITSTRING	1	FSAFLAG6	Flag byte - to be used in FSS address space only
FSAFLAG6 FLAG6 byte - bit def.					
		1...		FSA6DSNA	"B'10000000'" Data set was not allocated in previous GETDS
		.1..		FSA6BLKT	"B'01000000'" User specified special action for datasets scoped to FSA. See IAZFSIP -> CDF3BLKT for description of this action
153	(99)	BITSTRING	1	FSAFLAG7	Flag byte - modified only from JES address space
FSAFLAG7 FLAG7 byte - bit def.					
		1...		FSA7JISF	"B'10000000'" JES initiated Stop FSA - order is not being simulated
		.1..		FSA701IS	"B'01000000'" For this FSA HASP701 - FSA FAILED TO DISCONNECT issued during response processing
154	(9A)	BITSTRING	2		Reserved for future use
156	(9C)	SIGNED	4		Reserved for future use
160	(A0)	SIGNED	4	(0)	END OF FSA DSECT
160	(A0)	X'A0'	0	FSACBLEN	"*-FSACB" LENGTH OF THE FSA CONTROL BLOCK
FSAFLAG1 Note: Use NIL/OIL to update.					
		1...		FSAOROUT	"B'10000000'" FSA ORDER OUTSTANDING

Table 207. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1...		FSARSOUT	"B'01000000'" FSA RESPONSE OUTSTANDING
		..1.		FSAQUIES	"B'00100000'" QUIESCE THE DEVICE
		...1		FSASTPDV	"B'00010000'" STOP THE DEVICE (DEV QUIESCED)
		.... 1...		FSADRAIN	"B'00001000'" STOP THE FSA (DEV DRAINED)
		.... .1..		FSAHALT	"B'00000100'" HALT THE DEVICE
		.... ..1.		FSAZDEV	"B'00000010'" SYNCH ORDER REQUIRED TO \$Z DEV
		.... ...1		FSADVCST	"B'00000001'" DEVICE HAS BEEN STARTED
FSAFLAG2					
		1...		FSACTIVE	"B'10000000'" FSA IS ACTIVE
		.1...		FSAHSERR	"B'01000000'" NO MATCHING DCT, JES2 HOT START
		..1.		FSAFJSPG	"B'00100000'" JOB SEPARATOR PRINTING ON
		...1		FSAFDSPG	"B'00010000'" DS SEPARATOR PRINTING ON
		.... 1...		FSAEDGMK	"B'00001000'" MARK FORMS ON
		.... .1..		FSAABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSADUMP	"B'00000010'" DUMP REQUESTED ON STOP DEVICE
		.... ...1		FSAOPIR	"B'00000001'" OPERATOR INTERVENTION REQUESTED
FSAFLAG3 Note: Use NIL/OIL to update.					
		1...		FSAGTDSP	"B'10000000'" POST FSA FOR GETDS COMPLETION
		.1...		FSAOINIT	"B'01000000'" INITIAL OP. INTERVENTION NEEDED
		..1.		FSAFRMSC	"B'00100000'" SETUP REQUIRED FOR FORMS
		...1		FSAFLSHC	"B'00010000'" SETUP REQUIRED FOR FLASH
		.... 1...		FSABRSTC	"B'00001000'" SETUP REQUIRED FOR BURSTER
160	(A0)	X'38'	0	FSASETUP	"FSAFRMSC+FSAFLSHC+FSABRSTC" SETUP REQUIRED MASK
		.... .1..		FSAUPDTK	"B'00000100'" OPERATOR INTERVENTION ORDER REQ'D TO UPDATE INTERVENTION TOKENS
		.... ..1.		FSASTCHG	"B'00000010'" OPERATOR ISSUED \$T DURING SETUP REQUEST - FORCE GETDS
		.... ...1		FSA3JREQ	"B'00000001'" JIB REQUEST NEEDED BY GETDS
FSAFLAG4 Note: Use NIL/OIL to update. THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE FOR HASPCOMM PROCESSING					
		1...		FSA4TCEL	"B'10000000'" DEV SET TO TRK-CELL DESPool

Table 207. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1...		FSA4NPST	"B'01000000'" NO DATA SET PRESELECTION
		..1.		FSA4FIT	"B'00100000'" FSA INITIATED TERM REQUEST
		...1		FSA4NHST	"B'00010000'" DEV IS 'SETUP=NOHALT'
		.... 1...		FSA4CMNO	"B'00001000'" COPYMARKS NONE
		.... .1..		FSA4CMDS	"B'00000100'" INCREMENT COPYMARKS FOR DS
		.... ..1.		FSA4CMJB	"B'00000010'" INCREMENT COPYMARKS FOR JOB
		.... ...1		FSA4CNST	"B'00000001'" COPYMARKS REMAIN CONSTANT
160	(A0)	X'F'	0	FSA4CPYM	"FSA4CMDS+FSA4CMJB+FSA4CNST+FSA4CMNO" COPYMARKS RESET
FSAFLAG0					
		1...		FSABKWDO	"B'10000000'" SYNCH OUTSTANDING FOR \$B
		.1...		FSAFWRDO	"B'01000000'" SYNCH OUTSTANDING FOR \$F
		..1.		FSARSRT0	"B'00100000'" SYNCH OUTSTANDING FOR \$E
		...1		FSACNCLO	"B'00010000'" SYNCH OUTSTANDING FOR \$C
		.... 1...		FSAINRTO	"B'00001000'" SYNCH OUTSTANDING FOR \$I
		.... .1..		FSAHALTO	"B'00000100'" SYNCH OUTSTANDING FOR \$Z
		.... ..1.		FSACJPO	"B'00000010'" SYNCH OUTSTANDING FOR \$CJ,P
		.... ...1		FSAQRYO	"B'00000001'" QUERY OUTSTANDING FOR \$DU
FSAFLAGR Note: Use NIL/OIL to update.					
		1...		FSATRACE	"B'10000000'" PROCESSOR TRACING IS ON
		.1...		FSACNECT	"B'01000000'" FSA IS FULLY CONNECTED
		..1.		FSADCON	"B'00100000'" FSA IS(WILL) DISCONNECT
		...1		FSADCONX	"B'00010000'" JES2 IS EXPECTING DISCONNECT
		.... 1...		FSAEOT	"B'00001000'" FSA IS IN (THROUGH) EOT
		.... .1..		FSAFDRAN	"B'00000100'" FORCE DRAIN THE FSA
		.... ..1.		FSACMDA	"B'00000010'" FSS DEVICE COMMAND ACTIVE
		.... ...1		FSAROLTR	"B'00000001'" FSA rolling trace on

Table 208. Cross Reference for \$FSACB

Name	Offset	Hex	Tag
FSAACTQS	44		
FSAANEWS	5C		
FSAAPARM	54		
FSABEND	A0		4

Table 208. Cross Reference for \$FSACB (continued)

Name	Offset	Hex Tag
FSABKWDO	A0	80
FSABRSTC	A0	8
FSACB	0	
FSACBID	0	
FSACBLEN	A0	A0
FSACHAIN	C	
FSACJPO	A0	2
FSACMDA	A0	2
FSACNCLO	A0	10
FSACNECT	A0	40
FSACTIVE	A0	80
FSADCON	A0	20
FSADCONX	A0	10
FSADEVN	38	
FSADRAIN	A0	8
FSADUMP	A0	2
FSADVCST	A0	1
FSAEDECB	18	
FSAEDGMK	A0	8
FSAEOT	A0	8
FSAEXTN	10	
FSAFDRAN	A0	4
FSAFDSPG	A0	10
FSAFJSPG	A0	20
FSAFLAG	90	
FSAFLAGA	98	
FSAFLAGI	91	
FSAFLAG0	90	
FSAFLAGR	92	
FSAFLAGS	8C	
FSAFLAG1	8C	
FSAFLAG2	8D	
FSAFLAG3	8E	
FSAFLAG4	8F	
FSAFLAG5	93	
FSAFLAG6	98	
FSAFLAG7	99	
FSAFLSHC	A0	10
FSAFRMSC	A0	20

Table 208. Cross Reference for \$FSACB (continued)

Name	Offset	Hex Tag
FSAFSID	4	
FSAFSSA	8	
FSAFWRDO	A0	40
FSAGTDSP	A0	80
FSAHALT	A0	4
FSAHALTO	A0	4
FSAHSERR	A0	40
FSAID	4	6
FSAINRTO	A0	8
FSAJCTAD	54	
FSAJIBSV	4C	
FSAJOECT	52	
FSAJQECF	50	
FSALENQS	4C	10
FSALOGST	60	
FSA0INIT	A0	40
FSA0PIR	A0	1
FSAOROUT	A0	80
FSAPCE	94	
FSAPDDBA	58	
FSAQRYO	A0	1
FSAQUIES	A0	20
FSAREQQS	40	
FSARETQS	48	
FSAROLTR	A0	1
FSARSOUT	A0	40
FSARSRTO	A0	20
FSASETUP	A0	38
FSASTCHG	A0	2
FSASTPDV	A0	10
FSATCB	14	
FSATRACE	A0	80
FSAUNIT	34	
FSAUNIT3	34	35
FSAUPDTK	A0	4
FSAXECB	1C	
FSAZDEV	A0	2
FSA3JREQ	A0	1
FSA4CMDS	A0	4

Table 208. Cross Reference for \$FSACB (continued)

Name	Offset	Hex Tag
FSA4CMJB	A0	2
FSA4CMNO	A0	8
FSA4CNST	A0	1
FSA4CPYM	A0	F
FSA4FIT	A0	20
FSA4NHLT	A0	10
FSA4NPSL	A0	40
FSA4TCEL	A0	80
FSA5BIT6	93	2
FSA5BIT7	93	1
FSA5DNRC	93	8
FSA5DONE	93	10
FSA5DSRP	93	4
FSA50INT	93	20
FSA5PCAB	93	80
FSA5PINT	93	40
FSA6BLKT	98	40
FSA6DSNA	98	80
FSA7JISF	99	80
FSA701IS	99	40

\$FSAXB information

\$FSAXB programming interface information

\$FSAXB is a programming interface.

\$FSAXB heading information

Common name: FSA Control Block Extension

Macro ID: \$FSAXB

DSECT name: FAXB

Owning component: JES2 (SC1BH)

Eye-catcher ID: FAXB
Offset: FAXBCBID-FAXB
Length: L'FAXBCBID

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is above the 16M line if the FSS supports running in 31 bit AMODE. Otherwise it is below the 16M line. Storage is located in the private area of the FSS address space.

Size: See FAXBLEN

Created by: HASPFSSM during FSA connect

Pointed to by: FSAEXTN field of the \$FSACB data area

Serialization: None required

Function: This area provides private address space working storage for FSA level FSI requests.

\$FSAXB mapping

Table 209. Structure FAXB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FAXB	FSA CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FAXBCBID	FSA CONTROL BLOCK EXT ID
4	(4)	SIGNED	4	FAXBFSID	FUNCTIONAL SUBSYSTEM APPLICATION ID
8	(8)	ADDRESS	4	FAXBFSAA	A(FSACB) FOR THIS EXTENSION
12	(C)	ADDRESS	4	FAXBRECB	ECB FOR HALT DEVICE (\$Z) CMD
16	(10)	SIGNED	4	FAXBFSIP(0)	ORDER FSIREQ PARM LIST
220	(DC)	SIGNED	4	FAXBFSIR(0)	ORDER RESPONSE AREA
280	(118)	SIGNED	4	FAXBPOST(0)	POST FSIREQ PARM LIST
316	(13C)	SIGNED	4	FAXBPSAV(18)	POST SAVE AREA
316	(13C)	X'13C'	0	FAXBOSAV	"FAXBPSAV" ORDER SAVE AREA
388	(184)	ADDRESS	4	FAXBJSJIB	ADDR OF JIB REQUIRING SETUP
392	(188)	SIGNED	4	FAXBJCJP	Job number of \$CJ,P job
THE FIELDS THROUGH FAXBBRST MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMO THESE FIELDS REPRESENT THE CURRENT DEVICE SETUP.					
396	(18C)	BITSTRING	8	FAXBFRMS	CURRENT FORMS ID ON DEVICE
404	(194)	CHARACTER	0	FAXBWFRM(0)	
468	(104)	CHARACTER	4	FAXBFLSH	CURRENT FLASH ID ON DEVICE
472	(108)	CHARACTER	4	FAXBFCB	CURRENT FCB ID ON DEVICE
476	(10C)	CHARACTER	4	FAXBUCS	CURRENT UCS ID ON DEVICE
480	(1E0)	CHARACTER	1	FAXBBRST	CURRENT BURST SETTING (Y/N)
480	(1E0)	X'55'	0	FAXBDLEN	"*-FAXBFRMS" LENGTH FOR SETUP PARMS
481	(1E1)	CHARACTER	1	FAXBFLSD	DEFAULT FLASH ID FOR DEVICE
THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INTERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.					
485	(1E5)	BITSTRING	8	FAXBFRMO	ORIGINAL FORMS ID FOR DEVICE
493	(1ED)	CHARACTER	0	FAXBWFR0(0)	
557	(22D)	CHARACTER	4	FAXBFLS0	ORIGINAL FLASH ID FOR DEVICE
561	(231)	CHARACTER	4	FAXBFCB0	ORIGINAL FCB ID ON DEVICE
565	(235)	CHARACTER	4	FAXBUCS0	ORIGINAL UCS ID ON DEVICE
569	(239)	CHARACTER	1	FAXBBST0	ORIGINAL BURST SETTING (Y/N)
Work area for ASAXWC macros MACDATE -12/21/18-<0>					

Table 209. Structure FAXB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'23C'	0	M00M1336	"FAXLIST" ++ ASAXWC NAME
572	(23C)	SIGNED	4	FAXLIST(0)	++ ASAXWC PARM LIST
572	(23C)	CHARACTER	4	FAXLIST_XPARMAREA1	++ FIELD_LABEL
576	(240)	CHARACTER	24	FAXLIST_XPARMAREA2	++ FIELD_LABEL
576	(240)	X'258'	0	FAXLIST_PL_END	"*" ++ END OF BASE PLIST
572	(23C)	ADDRESS	4	FAXLIST_XPATTERNSTR_ADDR	++ ADDR
576	(240)	SIGNED	4	FAXLIST_XPATTERNSTRLEN	++
580	(244)	ADDRESS	4	FAXLIST_XSTRING_ADDR	++ ADDR
584	(248)	SIGNED	4	FAXLIST_XSTRINGLEN	++
588	(24C)	ADDRESS	4	FAXLIST_XZEROORMORE_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XONECHAR_ADDR	++ ADDR
596	(254)	ADDRESS	4	FAXLIST_XDELIMITER_ADDR	++ ADDR
572	(23C)	ADDRESS	4	FAXLIST_XPPPATTERNINFO_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPPATTERNSTR_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPPATTERNSTRLEN	++
584	(248)	ADDRESS	4	FAXLIST_XPPZEROORMORE_ADDR	++ ADDR
588	(24C)	ADDRESS	4	FAXLIST_XPPONECHAR_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XPPDELIMITER_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPSTRING_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPSTRINGLEN	++
600	(258)	X'1C'	0	FAXLISTL	"*-FAXLIST" ++ LENGTH OF PLIST
ASAXWC-0					
600	(258)	BITSTRING	256	FAXAREA	Work area passed to ASAXWC
856	(358)	DBL WORD	8	(0)	
856	(358)	X'358'	0	FAXBLEN	"*-FAXB" LENGTH OF THE FSA CNTL BLOCK EXT

Table 210. Cross Reference for \$FSAXB

Name	Offset	Hex Tag
FAXAREA	258	
FAXB	0	
FAXBBRST	1E0	
FAXBBSTO	239	
FAXBCBID	0	
FAXBDLEN	1E0	55
FAXBFCB	1D8	
FAXBFCBO	231	
FAXBFLSD	1E1	
FAXBFLSH	1D4	
FAXBFLSO	22D	
FAXBFRMO	1E5	

Table 210. Cross Reference for \$FSAXB (continued)

Name	Offset	Hex Tag
FAXBFRMS	18C	
FAXBFSAA	8	
FAXBFSID	4	
FAXBFSIP	10	
FAXBFSIR	DC	
FAXBJCJP	188	
FAXBLEN	358	358
FAXBOSAV	13C	13C
FAXBPOST	118	
FAXBPSAV	13C	
FAXBRECB	C	
FAXBSJIB	184	
FAXBUCS	1DC	
FAXBUCSO	235	
FAXBWFRM	194	
FAXBWFRO	1ED	
FAXLIST	23C	
FAXLIST_PL_END	240	258
FAXLIST_XDELIMITER_ADDR	254	
FAXLIST_XONECHAR_ADDR	250	
FAXLIST_XPARAMAREA1	23C	
FAXLIST_XPARAMAREA2	240	
FAXLIST_XPATTERNSTR_ADDR	23C	
FAXLIST_XPATTERNSTRLEN	240	
FAXLIST_XPPDELIMITER_ADDR	250	
FAXLIST_XPPONECHAR_ADDR	24C	
FAXLIST_XPPPATTERNINFO_ADDR	23C	
FAXLIST_XPPPATTERNSTR_ADDR	240	
FAXLIST_XPPPATTERNSTRLEN	244	
FAXLIST_XPPSTRING_ADDR	240	
FAXLIST_XPPSTRINGLEN	244	
FAXLIST_XPPZEROORMORE_ADDR	248	
FAXLIST_XSTRING_ADDR	244	
FAXLIST_XSTRINGLEN	248	
FAXLIST_XZEROORMORE_ADDR	24C	
FAXLISTL	258	1C
M00M1336	0	23C

\$FSSCB information

\$FSSCB programming interface information

The following fields are **NOT** programming interface information:

- FSSAXL
- FSSETL
- FSSLXL
- FSSLXV

\$FSSCB heading information

Common name:	JES2 FSS Control Block
Macro ID:	\$FSSCB
DSECT name:	FSSCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'FSS ' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage is anywhere.
Size:	See FSSCBLEN
Created by:	DYNFSS in HASPFSSP
Pointed to by:	CCTFSSCB field of the HCCT data area (first FSSCB) FSSCHAIN field of the previous FSSCB data area
Serialization:	The chain can be added to by the JES2 main task. At this time the chain cannot be broken to accomplish a delete.
Function:	The FSSCB represents a functional subsystem (FSS) defined to JES2. It points to the FSSXB in the FSS address space, and the chain of FSACB's for applications assigned to the FSS.

\$FSSCB mapping

Table 211. Structure FSSCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSSCB	FSS CONTROL BLOCK DSECT
0	(0)	CHARACTER	8	FSSNAME	FUNCTIONAL SUBSYSTEM NAME
8	(8)	CHARACTER	8	FSSPROCN	CATALOGED PROC NAME FOR FSS
16	(10)	CHARACTER	8	FSSFSSMN	FSS SUPPORT MODULE NAME (FSSM)
24	(18)	SIGNED	4	FSSFSSML	FSS SUPPORT MODULE LENGTH
28	(1C)	ADDRESS	4	FSSCHAIN	ADDR OF NEXT FSSCB OFF CCTFSSCB
32	(20)	ADDRESS	2	FSSASID	ASID FOR THE FSS ADDRESS SPACE

Table 211. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
34	(22)	ADDRESS	2	FSSFSSID	FSS PORTION OF FSID FOR FSAS
HASPFSM CROSS MEMORY SERVICE TABLES					
36	(24)	SIGNED	4	FSSLXL(0)	LINKAGE INDEX (LX) LIST
36	(24)	SIGNED	4	FSSLXN	NUMBER OF LXS REQUESTED
40	(28)	SIGNED	4	FSSLXV	VALUE (LX) RETURNED BY LXRES
44	(2C)	SIGNED	4	FSSAXL(0)	AUTHORIZATION INDEX (AX) LIST
44	(2C)	SIGNED	2	FSSAXN	NUMBER OF AXS REQUESTED
46	(2E)	SIGNED	2	FSSAXV	VALUE (AX) RETURNED BY AXRES
48	(30)	SIGNED	2	FSSAXSV	ORIGINAL AX, SAVED AFTER AXSET
50	(32)	ADDRESS	2		RESERVED FOR FUTURE USE
52	(34)	SIGNED	4	FSSETL(0)	ENTRY TABLE (ET) LIST
52	(34)	SIGNED	4	FSSETN	NUMBER OF ETS CREATED
56	(38)	SIGNED	4	FSSETV	VALUE (TOKEN) RETURNED BY ETCRE
PC NUMBERS FOR CROSS MEMORY SERVICES ROUTINES IN HASPFSM (MUST BE IN SAME ORDER AS PC ENTRY POINTS IN \$HFCT) AND CROSS-MEMORY COMMUNICATION ECBs.					
60	(3C)	SIGNED	4	FSSPC(0)	
60	(3C)	ADDRESS	4	FSSORDPC	PC # OF XMS FSI-ORDER ROUTINE
64	(40)	ADDRESS	4	FSSPSTPC	PC # OF XMS FSI-POST ROUTINE
68	(44)	SIGNED	4	FSSXECB(0)	XECB TO POST PCE FOR FSS
68	(44)	X'48'	0	FSSDCTCH	"XECBPCE-XECB+FSSXECB" A(DCT CHAIN DURING JES2 INIT OR RE-INIT (HOT START)
92	(5C)	SIGNED	4	FSSDECEB	ECB FOR DISCONNECT COORDINATION
MISCELLANEOUS CONTROL FIELDS AND FLAG BYTES					
96	(60)	ADDRESS	4	FSSQCTS	Address of QCT area
100	(64)	ADDRESS	4	FSSHCT	A(HFCT IN FSSM FOR THIS FSS)
104	(68)	ADDRESS	4	FSSRCRTN	A(FSMRCRTN SRB RECONNECT RTN)
108	(6C)	ADDRESS	4	FSSFSAACH	A(FSACB CHAIN FOR THIS FSS)
112	(70)	ADDRESS	4	FSSEXTN	A(FSS EXTENSION-FSS ADDR SPACE)
116	(74)	ADDRESS	4	FSSTCB	ADDRESS OF TCB CONNECTING FSS
120	(78)	SIGNED	2	FSSFSAID	MAX FSA ID IN FSIDS WITHIN FSS
122	(7A)	SIGNED	2	FSSDIFM	COUNT OF DCTS IN FSS MODE
124	(7C)	SIGNED	2	FSSFVSVE	NUMBER OF ENTRIES IN THE FSVT IF THE FSS IS ACTIVE
126	(7E)	SIGNED	2	FSSFVSVE	Lowest valid FSA id in the FSVT if the FSS is active
128	(80)	SIGNED	2		Reserved for future use
130	(82)	BITSTRING	1		Reserved for future use
131	(83)	BITSTRING	1	FSSFLAG4	General status flag. This flag is set only by the FSS address space. No serialization is required
FSSFLAG4 - If neither of the following bits is ON, then this FSS does NOT support IP-format destination routing.					

Table 211. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		FSS4IP	"B'10000000'" FSS supports ONLY IP-format
		.1.. ..		FSS4B0TH	"B'01000000'" FSS supports BOTH IP&non-IP
		..1.		FSS4BLKT	"B'00100000'" User specified special action for datasets scoped to FSS. See IAZFSIP -> CDF3BLKT for description of action.
132	(84)	SIGNED	4	FSSLWORD(0)	FSS 'LOCK' WORD WITH RAS FLAGS
132	(84)	BITSTRING	1	FSSFLAGA	FLAG BYTE
FSSFLAGA					
		1... ..		FSSABORD	"B'10000000'" ABEND IN PC'D TO FSMORDER FSSM
		.1.. ..		FSSA\$ACT	"B'01000000'" FSS included in \$ACTVFSS
		..1.		FSSASTPI	"B'00100000'" FSS STOP order issued
		...1		FSSASC31	"B'00010000'" ASCBV31=YES specified
		.... 1...		FSSABIT4	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		FSSABIT5	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		FSSABIT6	"B'00000010'" RESERVED FOR FUTURE USE
		.... ...1		FSSABIT7	"B'00000001'" RESERVED FOR FUTURE USE
133	(85)	BITSTRING	1	FSSFLAG1	FLAG BYTE - GENERAL USAGE
134	(86)	BITSTRING	1	FSSFLAG2	FLAG BYTE - GENERAL USAGE
135	(87)	BITSTRING	1	FSSFLAG3	FLAG BYTE - RAS USE
		.... ...1		FSSLMASK	"B'0001'" MASK FOR FSSFLAG3 IN FSSLWORD
136	(88)	SIGNED	4	FSSWORK	Work area
140	(8C)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
144	(90)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	FSSASTKN	FSS address space STKN
160	(A0)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
168	(A8)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value
176	(B0)	CHARACTER	8	FSSJOBID	Job id of the FSS
FSSORINF will contain FSS level order information: \$FSACB address for START FSA (ORDID=8) order. \$FSACB address for STOP FSA (ORDID=12) order. PRT PCE address for START FSS (ORDID=0) order. PRT PCE address for STOP FSS (ORDID=4) order.					
184	(B8)	ADDRESS	4	FSSORINF	Who is doing FSS activity
188	(BC)	SIGNED	2	FSSORDID	FSS activity - order id
190	(BE)	SIGNED	2		RESERVED FOR FUTURE IBM USE
192	(C0)	SIGNED	4	(0)	END OF FSSCB DSECT
192	(C0)	X'C0'	0	FSSCBLEN	"*-FSSCB" LENGTH OF THE FSS CONTROL BLOCK
FLAG DEFINITIONS FSSFLAG1					
		1... ..		FSSOROUT	"B'10000000'" FSS ORDER OUTSTANDING
		.1.. ..		FSSRSOUT	"B'01000000'" FSS RESPONSE OUTSTANDING

Table 211. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		FSSSTART	"B'00100000'" FSS START OUTSTANDING
		...1		FSSSTOP	"B'00010000'" About to issue STOP FSS ord
		.... 1...		FSSDRAIN	"B'00001000'" ISSUE STOP FSS ORDER
		.... .1..		FSSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSSDUMP	"B'00000010'" DUMP REQUESTED ON STOP
		.... ...1		FSSFDRAN	"B'00000001'" FORCE FSS STOP PROCESSING
FSSFLAG2					
		1...		FSSACTIV	"B'10000000'" FSS ADDRESS SPACE IS ACTIVE
		.1..		FSS2BIT2	"B'01000000'" RESERVED FOR FUTURE USE
		..1.		FSS2ASD0	"B'00100000'" AUTOMATICALLY SHUT DOWN THE FSS IF THE FSA COUNT GOES TO ZERO
		...1		FSS2PAF	"B'00010000'" If the FSS-Cleanup PCE finds an FSSCB with FSSEOM on, it posts the PCE for each FSA. It then sets this flag so that all the PCEs are post only once
		.... 1...		FSSSTPE	"B'00001000'" PREVIOUS FSS STOP ERROR
		.... .1..		FSS24DG	"B'00000100'" FSS supports 4-digit devs
		.... ..1.		FSS2BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		.... ...1		FSS2AM31	"B'00000001'" FSS supports AMODE 31
FSSFLAG3					
		1...		FSSCNCT1	"B'10000000'" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
		.1..		FSSCNCT2	"B'01000000'" FSS HAS COMPLETED CONNECT
		..1.		FSSDCON	"B'00100000'" FSS IS(WILL) DISCONNECTING
		...1		FSSDCONX	"B'00010000'" JES2 IS READY FOR DISCONNECT
		.... 1...		FSSEOM	"B'00001000'" FSS MEMORY HAS ENDED
		.... .1..		FSSEOT	"B'00000100'" FSS CONNECTING TCB HAS ENDED
		.... ..1.		FSSRCOK	"B'00000010'" FSS RECONNECT SRB SUCCESSFUL
		.... ...1		FSSRCERR	"B'00000001'" FSS ERROR IN RECONNECT SRB RTN

Table 212. Cross Reference for \$FSSCB

Name	Offset	Hex Tag
FSSA\$ACT	84	40
FSSABEND	C0	4
FSSABIT4	84	8
FSSABIT5	84	4
FSSABIT6	84	2

Table 212. Cross Reference for \$FSSCB (continued)

Name	Offset	Hex Tag
FSSABIT7	84	1
FSSABORD	84	80
FSSACTIV	C0	80
FSSAPARN	A0	
FSSASC31	84	10
FSSASID	20	
FSSASTKN	98	
FSSASTPI	84	20
FSSAXL	2C	
FSSAXN	2C	
FSSAXSV	30	
FSSAXV	2E	
FSSCB	0	
FSSCBLEN	C0	C0
FSSCHAIN	1C	
FSSCNCT1	C0	80
FSSCNCT2	C0	40
FSSDCON	C0	20
FSSDCONX	C0	10
FSSDCTCH	44	48
FSSDIFM	7A	
FSSDOMID	8C	
FSSDRAIN	C0	8
FSSDUMP	C0	2
FSSSEDECB	5C	
FSSEOM	C0	8
FSSEOT	C0	4
FSSETL	34	
FSSETN	34	
FSSETV	38	
FSSEXTN	70	
FSSFDRAN	C0	1
FSSFLAGA	84	
FSSFLAG1	85	
FSSFLAG2	86	
FSSFLAG3	87	
FSSFLAG4	83	
FSSFSACH	6C	
FSSFSAMI	78	

Table 212. Cross Reference for \$FSSCB (continued)

Name	Offset	Hex Tag
FSSFSSID	22	
FSSFSSML	18	
FSSFSSMN	10	
FSSFVTE	7C	
FSSFVTL	7E	
FSSHFC	64	
FSSJOBID	B0	
FSSLMASK	87	1
FSSLWORD	84	
FSSLXL	24	
FSSLXN	24	
FSSLXV	28	
FSSNAME	0	
FSSORDID	BC	
FSSORDPC	3C	
FSSORINF	B8	
FSSOROUT	C0	80
FSSPC	3C	
FSSPROC	8	
FSSPSTPC	40	
FSSPTFN	A8	
FSSQCTS	60	
FSSRCERR	C0	1
FSSRCOK	C0	2
FSSRCRTN	68	
FSSRSOUT	C0	40
FSSSTPE	C0	8
FSSTART	C0	20
FSSTCB	74	
FSSTOP	C0	10
FSSWORK	88	
FSSXECB	44	
FSS2AM31	C0	1
FSS2ASD0	C0	20
FSS2BIT2	C0	40
FSS2BIT6	C0	2
FSS2PAF	C0	10
FSS24DG	C0	4
FSS4BLKT	83	20

Table 212. Cross Reference for \$FSSCB (continued)

Name	Offset	Hex Tag
FSS4B0TH	83	40
FSS4IP	83	80

\$FSSWORK information

\$FSSWORK programming interface information

\$FSSWORK is a programming interface.

\$FSSWORK heading information

Common name:	HASP FSS-Support processor work area DSECT.
Macro ID:	\$FSSWORK
DSECT name:	PCE (\$FSSWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol FSWLNATH for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	\$PRTPCF field of the \$HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	This DSECT provides the work area required by a JES2 processor in support of a functional subsystem application. There are no PCEs of a type called 'FSS', but instead a PCE of another type (e.g. printer) is defined to ensure it is large enough to be changed into a PCE mapped by \$FSSWORK if that processor type is allowed to run in FSS mode. See the \$PCETAB FSS=YES description for more details.

\$FSSWORK mapping

Table 213. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP FSS PROCESSOR
336	(150)	BITSTRING	1	FSWFLAG	PRINT/PUNCH FLAG BYTE
		1... ..		FSWFORDI	"B'10000000'" CURRENT ORDER WAS ISSUED UNDER CONTROL OF THIS PCE AND A TIMER IS OUTSTANDING (FSWTQE)

Table 213. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		FSWFMODE	"B'01000000'" THIS PCE PROCESSING MODE SWITCH
		..1.		FSWFACTV	"B'00100000'" THIS PCE HAS ISSUED \$ACTIVE
		...1		FSWFNONE	"B'00010000'" FLASH=NONE INDICATOR
		.... 1...		FSWFARET	"B'00001000'" FSSP tried recovery from abend once
337	(151)	BITSTRING	1		RESERVED FOR FUTURE USE
338	(152)	ADDRESS	2	FSWORDID	ORDID FOR ORDER ISSUED BY PCE
340	(154)	SIGNED	4	FSWFWORK	FULL WORD WORK AREA
344	(158)	DBL WORD	8	FSWDWORK	DOUBLE WORD WORK AREA
352	(160)	SIGNED	4	FSWCMBAD	ADDRESS OF CMB FOR \$DOM
356	(164)	SIGNED	4	FSWFBPCT	\$F/\$B PAGE COUNT
360	(168)	BITSTRING	12	FSWTQE	FSS TIME QUEUE ELEMENT
372	(174)	SIGNED	4	(0)	Insure fullword boundary
372	(174)	BITSTRING	12	FSWPELMT(0)	\$XMPOST POST element
372	(174)	ADDRESS	4	FSWPERET	\$XMPOST POST element ERRET
376	(178)	ADDRESS	4	FSWPECB	\$XMPOST POST ELEMENT ECB ADDR
380	(17C)	ADDRESS	4	FSWPASCB	\$XMPOST POST ELEMENT ASCB ADDR
384	(180)	ADDRESS	2	FSWNRCNT	WAITING FOR RESPONSE COUNT
384	(180)	X'12C'	0	FSWTIME	"300" TIME INTERVAL FOR CONNECT
388	(184)	ADDRESS	4	FSWFSSCB	ADDRESS OF FSSCB
392	(188)	SIGNED	4	FSWJ2TRP	Pointer to FSA level rolling trace storage
396	(18C)	SIGNED	4	FSWFSACT	Trace counter for FSA trace
400	(190)	SIGNED	4	(0)	
400	(190)	X'40'	0	FSWHLGTH	"*-PCEWORK" FSS PCE WORK AREA HEADER LENGTH

THE FSS PCE WORK AREA IS COMPRISED OF A HEADER AREA AND 3 VARIABLE LENGTH EXTENSIONS WHICH ARE ORGED OVER EACH OTHER. THESE 3 EXTENSIONS ARE the message, RELDS, and GETDS work areas. The length of the FSS PCE work area is determined by adding the length of the header area to that of the GETDS work area (276 bytes), since it is the largest of the 3 extensions.

400	(190)	SIGNED	4	FSWJIBWK(0)	JIB Work area
400	(190)	CHARACTER	256	FSWRK	Message work area
400	(190)	CHARACTER	24		JIB RELDS MVCP Wk area
400	(190)	CHARACTER	224		JIB GETDS MVCS work area part 1
624	(270)	CHARACTER	64		JIB GETDS MVCS work area part 2
688	(2B0)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
688	(2B0)	X'160'	0	FSWLNPTH	"FSWHLGTH+*-FSWJIBWK" FSS PCE WORK AREA LENGTH

Table 214. Cross Reference for \$FSSWORK

Name	Offset	Hex Tag
FSWCMBAD	160	
FSWDWORK	158	

Table 214. Cross Reference for \$FSSWORK (continued)

Name	Offset	Hex Tag
FSWFACTV	150	20
FSWFARET	150	8
FSWFBPCT	164	
FSWFLAG	150	
FSWFMODE	150	40
FSWFNONE	150	10
FSWFORDI	150	80
FSWFSACT	18C	
FSWFSSCB	184	
FSFWORK	154	
FSWHLGTH	190	40
FSWJIBWK	190	
FSWJ2TRP	188	
FSWLNGTH	2B0	160
FSWNRcnt	180	
FSWORDID	152	
FSWPASCB	17C	
FSWPECB	178	
FSWPELMT	174	
FSWPERET	174	
FSWRK	190	
FSWTIME	180	12C
FSWTQE	168	
PCE	0	

\$FSSXB information

\$FSSXB programming interface information

\$FSSXB is a programming interface.

\$FSSXB heading information

Common name: FSS Control Block Extension DSECT
Macro ID: \$FSSXB
DSECT name: FSXB
Owning component: JES2 (SC1BH)
Eye-catcher ID: FSXB
 Offset: FSXBCBID-FSXB
 Length: L'FSXBCBID

Storage attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is based on the addressing mode of the FSS. If restricted to 24 bit storage, then the FSSXB must be in 24 bit storage. Otherwise it can be anywhere in 31 bit storage.

Size: See FSXBLEN

Created by: HASPFSSM during FSS connect processing

Pointed to by: FSSEXTN field of the FSSCB data area

Serialization: None required

Function: The FSSXB is the private area extension to the FSSCB.

\$FSSXB mapping

Table 215. Structure FSXB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSXB	FSS CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FSXBCBID	FSS CONTROL BLOCK EXT ID
4	(4)	CHARACTER	8	FSXBNAME	FUNCTIONAL SUBSYSTEM NAME
12	(C)	ADDRESS	4	FSXBFSXA	A(FSSCB) FOR THIS EXTENSION
16	(10)	SIGNED	4	FSXBFSIP(0)	ORDER FSIREQ PARM LIST
124	(7C)	SIGNED	4	FSXBFSIR(0)	ORDER RESPONSE AREA
184	(B8)	SIGNED	4	FSXB0SAV(18)	ORDER SAVE AREA
256	(100)	ADDRESS	4	FSXBXETA	ADDR OF ENTRY TABLE DESC (ETD)
256	(100)	X'104'	0	FSXBLEN	"*-FSXB" LENGTH OF THE FSS CNTL BLOCK EXT

\$GGEQU information

\$GGEQU programming interface information

\$GGEQU is a programming interface.

\$GGEQU heading information

Common name: Generic grouping equates

Macro ID: \$GGEQU

DSECT name: n/a

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: N/A
Key: N/A
Residency: N/A

Size: N/A

Created by: N/A

Pointed to by: N/A

Serialization: N/A

Function: Defines equates related to the generic grouping services (\$GASSIGN, \$GKGET, \$GKINIT, \$GKTERM, \$GSINIT, \$GSTERM).

\$GGEQU mapping

Table 216. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
,\$MODULE - \$CADDR WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$HASPEQU WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$MIT WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$MITETBL WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$PADDR WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$PARMLST WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$PSV WILL BE GENERATED, IT IS REQUIRED BY ,\$MODULE - \$USERCBS WILL BE GENERATED, IT IS REQUIRED BY					
01 CHANGE ACTIVITY: A000000-999999 Created for JES2 4.1.0 Return codes Note: Return code 4 is reserved for future use for less severe (warning) conditions.					
0	(0) X'0'		0	GGRCOK	"0" Processing successful
0	(0) X'8'		0	GGRCERR	"8" Error detected
Reason codes Each service returns a subset of these reason codes. Each service macro's prolog lists the reason codes that the service returns.					
0	(0) X'0'		0	GGRSOK	"0" Processing successful
0	(0) X'4'		0	GGRSJDVT	"4" JDVT name is undefined
0	(0) X'8'		0	GGRSPVST	"8" Private storage is unavailable
0	(0) X'C'		0	GGRSCMST	"12" Common storage is unavailable
0	(0) X'10'		0	GGRSIPCE	"16" Caller is not the initialization PCE
Miscellaneous constants					
0	(0) X'20'		0	GGMAXFPL	"32" Maximum footprint length
0	(0) X'20'		0	GGMAXMSL	"32" Maximum message length

Table 217. Cross Reference for \$GGEQU

Name	Offset	Hex	Tag
GGMAXFPL	0		20
GGMAXMSL	0		20
GGRCERR	0		8
GGRCOK	0		0
GGRSCMST	0		C
GGRSIPCE	0		10
GGRSJDVT	0		4

Table 217. Cross Reference for \$GGEQU (continued)

Name	Offset	Hex Tag
GGRSOK	0	0
GGRSPVST	0	8

\$GPQE information

\$GPQE heading information

Common name:	General purpose subtask queue element
Macro ID:	\$GPQE
DSECT name:	GPQE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'GPQE' Offset: 0 Length: 4
Storage attributes:	Subpool: see GPQPOOL Key: 1 Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of a JES@ NETSRV address space
Size:	See CIDSIZE
Created by:	\$SUBIT service in HASCNJGP
Pointed to by:	GPQNEXT field of the \$GPQE data area GPQPREV field of the \$GPQE data area NSCGPQEH field of the \$NSCT data area NSCGPQET field of the \$NSCT data area SQDGPQ field of the \$SQD data area
Serialization:	Queue managed by \$FIFOENQ and \$FIFODEQ
Function:	General purpose subtask queue element .

\$GPQE mapping

Table 218. Structure GPQE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GPQE	Work area
0	(0)	CHARACTER	4	GPQEYE	Eyecatcher
4	(4)	ADDRESS	4	GPQNEXT	Next subtask area
8	(8)	ADDRESS	4	GPQPREV	Previous subtask area
12	(C)	SIGNED	4	GPQSQD	SQD address
16	(10)	BITSTRING	16	GPQTTOK	TCB token of requesting task
16	(10)	X'20'	0	GPQLEN	"*-GPQE" LENGTH OF AREA

\$GTW information

\$GTW heading information

Common name:	HASP \$#GET trace work area dsect
Macro ID:	\$GTW
DSECT name:	GTW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'GTW ' Offset: GTWID-GTW Length: 4
Storage attributes:	Subpool: 1 Key: 1 Residency: Anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See GTWLEN
Created by:	\$#GET and \$#POST service routines
Pointed to by:	WSPGTW field of the \$WSP data area (\$#GET) WSAPSGTW field of the \$WSA data area (\$#POST)
Serialization:	No special serialization other than that currently implied by the \$#GET service routine is required.
Function:	This dsect maps a work area used by \$#GET, \$#POST, and \$QGET services to save information to be included in the JES2 \$TRACE id 20, 30, and 31 records.

\$GTW mapping

Table 219. Structure GTW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTW	
0	(0)	CHARACTER	4	GTWID	GTW IDENTIFIER
4	(4)	BITSTRING	1	GTWVERS	GTW VERSION
5	(5)	BITSTRING	1	GTWFLAGP	Processing flag byte
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	GTWSTART(0)	START OF \$TRACE DATA
Fields used by more than one routine					
8	(8)	DBL WORD	8	GTWCPU	CPU time in TOD format
16	(10)	DBL WORD	8	GTWTIME	Run time in TOD format
24	(18)	DBL WORD	8	GTWQSUSE	QSUSE time in TOD format
32	(20)	DBL WORD	8	GTWELAPS	Elapsed time microseconds
40	(28)	SIGNED	4	GTWJSCR	NUMBER OF WS CALLS MADE
44	(2C)	SIGNED	4	GTWJNUM	NUMBER OF JOES LOOKED AT
48	(30)	SIGNED	4	GTWJOACT	NUMBER OF \$DOGJOE CALLS

Table 219. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
52	(34)	SIGNED	4	GTWBEST	Which JOE was selected out of the ones looked at
56	(38)	ADDRESS	4	GTWCALER	Address of caller
60	(3C)	SIGNED	4	GTWWSTAB	WS TABLE ADDRESS
64	(40)	CHARACTER	18	GTWDCTN	Dev name in one of 2 forms For non-SAPI: WSPDEVN2 For SAPI: jobname.sss2appl
64	(40)	X'40'	0	GTWPITN	"GTWDCTN,4" For initiators: PITPATID
82	(52)	ADDRESS	2	(0)	Ensure big enough
82	(52)	ADDRESS	2	(0)	
82	(52)	BITSTRING	1	GTWTFGL1	Caller type
		1... ..		GTWT1GET	"B'10000000'" \$GET
		.1.. ..		GTWT1PST	"B'01000000'" \$POST
		..1.		GTWT1QGT	"B'00100000'" \$QGET
		...1		GTWT1PSO	"B'00010000'" PSO
83	(53)	BITSTRING	100	GTWWS	Device work selection list
183	(B7)	BITSTRING	25	GTWMASK	Criteria value mask
208	(D0)	DBL WORD	8	GTWORG(0)	Start caller specific data
Fields used by \$GET/PSO only (\$TRACE 20)					
KEEP THE NEXT 4 BYTES TOGETHER FOR \$TRACE FORMATTING					
208	(D0)	BITSTRING	1	GTWDCT	DCT DEVICE TYPE
209	(D1)	BITSTRING	1	GTWFLAG1	1ST FLAG BYTE
		1... ..		GTW1WS	"B'10000000'" TYPE=WS REQUEST
		.1.. ..		GTW1NET	"B'01000000'" TYPE=NET REQUEST
		..1.		GTW1HYES	"B'00100000'" HAVE=YES REQUEST
		...1		GTW1CNT	"B'00010000'" COUNT=YES request
		.... 1...		GTW1CYES	"B'00001000'" CHAIN=YES REQUEST
		.... .1..		GTW1NSAF	"B'00000100'" SAF=NO request
		.... ..1.		GTW1ALM	"B'00000010'" LINE MGR REQ, AUTOLOGN SCAN
210	(D2)	BITSTRING	1	GTWFLAG2	2ND FLAG BYTE
		1... ..		GTW2FAST	"B'10000000'" Fast exit from \$GET due to value in DCTPJ0E/WSPPJ0E
		..1.		GTW2NO	"B'00100000'" NO WORK FOUND
		.... .1..		GTW2JOEX	"B'00000100'" JOE index was used
		.... ..1.		GTW2JXOV	"B'00000010'" JOE index priority array overflow detected
		.... ...1		GTW2SAFF	"B'00000001'" GET FAILURE DUE TO SAF CALL
211	(D3)	BITSTRING	1	GTWFLAG3	PSO selection flags
212	(D4)	SIGNED	4	GTWJOES	NUMBER OF JOES DEFINED
216	(D8)	SIGNED	4	GTWQNUM	NUMBER OF JOES IN USE
THE FOLLOWING TWO COUNTS APPLY ONLY TO CHAIN=YES REQUESTS					
220	(DC)	SIGNED	4	GTWCHCNT	NUMBER OF JOES ON JOB CHAIN
224	(E0)	SIGNED	4	GTWCHSEL	NUMBER SELECTED FROM JQE/JOE CHAIN

Table 219. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
228	(E4)	SIGNED	4	GTWROUTE(0)	REMOTE ID OF DATA SELECTED
228	(E4)	SIGNED	2	GTWNODE	NODE ID
230	(E6)	SIGNED	2	GTWRMT	REMOTE ID
232	(E8)	CHARACTER	8	GTWUSER	USERID
240	(F0)	BITSTRING	1	GTWCLASS	CLASS VALUE OF DATA
241	(F1)	BITSTRING	1		Reserved
242	(F2)	BITSTRING	2	GTWVORD	View used when GTW2JOEX
244	(F4)	SIGNED	4		Reserved
244	(F4)	X'F0'	0	GTW20SIZ	"*-GTWSTART" Trace 20 trace size
248	(F8)	BITSTRING	32	GTW#GTST	Perf data at start and
280	(118)	BITSTRING	1	GTW#GTEN	end of \$#GET/PSO
Fields used by \$#POST only (\$TRACE 30)					
208	(D0)	CHARACTER	8	GTWJONAM	JOE OUTGRP name
216	(D8)	SIGNED	2	GTWJOID1	qualifier 1
218	(DA)	SIGNED	2	GTWJOID2	qualifier 2
220	(DC)	CHARACTER	8	GTWJQNAM	Job name
228	(E4)	SIGNED	4	GTWJBNUM	Job number
232	(E8)	BITSTRING	1	GTWJQTYP	Job type flags
233	(E9)	BITSTRING	3		Reserved
236	(EC)	SIGNED	4	GTWWSPCT	Number of WSPs scanned
240	(F0)	SIGNED	4	GTWPSTCT	Number of WSPs \$POSTed
244	(F4)	SIGNED	4	GTWWTRCT	Number of XWTRs scanned
248	(F8)	SIGNED	4	GTWPSTWR	Number of XWTRs \$POSTed
252	(FC)	SIGNED	4	GTWSPICT	Number of SAPIDs scanned (full screening)
256	(100)	SIGNED	4	GTWSPIRT	Number of SAPIDs scanned (abbreviated screening)
260	(104)	SIGNED	4	GTWPSTSP	Number of SAPIDs \$POSTed
260	(104)	X'100'	0	GTW30SIZ	"*-GTWSTART" Trace 30 trace size
264	(108)	BITSTRING	32	GTW#PSST	Perf data at start and
296	(128)	BITSTRING	1	GTW#PSEN	end of \$#GET/PSO
Fields used by \$QGET only (\$TRACE 31)					
Exit 14 fields					
208	(D0)	SIGNED	4	GTWX14RC	Exit 14 return code
216	(D8)	DBL WORD	8	GTWX14CP	CPU time in TOD format
224	(E0)	DBL WORD	8	GTWX14TM	Run time in TOD format
232	(E8)	DBL WORD	8	GTWX14QS	QSUSE time in TOD format
240	(F0)	DBL WORD	8	GTWX14ET	Elapsed time microseconds
Exit 49 fields					
248	(F8)	SIGNED	4	GTWX49SK	# jobs vetoed by exit 49
252	(FC)	SIGNED	4	GTWX49CT	# times exit 49 called
256	(100)	DBL WORD	8	GTWX49CP	Cumulative CPU time (TOD)

Table 219. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
264	(108)	DBL WORD	8	GTWX49TM	Cumulative run time (TOD)
272	(110)	DBL WORD	8	GTWX49QS	Cumulative QSUSE time (TOD)
280	(118)	DBL WORD	8	GTWX49ET	Cumulative elapsed time in microseconds
288	(120)	CHARACTER	28	GTWSELNM	Selection name
316	(13C)	BITSTRING	1	GTWSELNL	Used length of GTWSELNM
317	(13D)	BITSTRING	1	GTWQFLG1	Flags
		1...		GTWQ1X14	"B'10000000" Exit 14 was entered
		.1..		GTWQ1X49	"B'01000000" Exit 49 was entered
		..1.		GTWQ1W49	"B'00100000" Exit 49 \$WAITed
		...1		GTWQ1WLM	"B'00010000" QGET reject because WLM goals exceeded
318	(13E)	BITSTRING	1	GTWQUEUE	Queue scanned by type
319	(13F)	BITSTRING	1		Reserved for future use
320	(140)	SIGNED	4	GTWQJQAN	Number of JQAs obtained
324	(144)	SIGNED	4	GTWJQMAX	Number of JQEs defined
328	(148)	SIGNED	4	GTWJQFRE	Number of free JQEs
332	(14C)	SIGNED	4	GTWDUPCT	Number of duplicate rejects
336	(150)	SIGNED	4	GTWCATCT	Number of CAT/WSC rejects
----- \$QGET MF=L \$QGET parameter list					
340	(154)	ADDRESS	4	GTWQGT	NODE TABLE ADDRESS
344	(158)	ADDRESS	4		CONTROL BLOCK ADDRESS
348	(15C)	ADDRESS	4		ADDRESS OF JQE
352	(160)	ADDRESS	1		QUEUE TYPE SPECIFIED
353	(161)	ADDRESS	1		WORK SELECTION TYPE FLAG
354	(162)	ADDRESS	1		Response byte flags
355	(163)	ADDRESS	1		Reserved
355	(163)	X'10'	0	GTWQGT	"*-GTWQGT" Length of \$QGET parm list
356	(164)	SIGNED	4	(0)	Ensure WORD boundary
356	(164)	CHARACTER	1	GTWCLST	Class list.
356	(164)	X'164'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits
420	(1A4)	SIGNED	4	GTWQGTRC	\$QGET return code
424	(1A8)	DBL WORD	8	GTWSUIT	Suitability value
432	(1B0)	SIGNED	4	GTWSKIP	Skip count from side queue
436	(1B4)	BITSTRING	1	GTWSDQF1	Side Queue processing flags
		1...		GTWSNOTU	"B'10000000" Side queue ent not useable
		.1..		GTWSNSEL	"B'01000000" Job is non-selectable
		..1.		GTWSLIMIT	"B'00100000" Dup job or job class limit
		...1		GTWSCHK	"B'00010000" Selectability rechecked
		.... ..1.		GTWSSELE	"B'00000010" Job selected from side que
		.... ...1		GTWSTAKN	"B'00000001" Class entry taken/in use
		.... ....		GTWSNULL	"B'00000000" Entry never used

Table 219. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
437	(1B5)	BITSTRING	3		Reserved
437	(1B5)	X'1B0'	0	GTW31SIZ	"*-GTWSTART" Trace 31 trace size
End of GTW					
440	(1B8)	X'1B0'	0	GTWSIZE	"*-GTWSTART" SIZE OF \$#GET TRACE RECORD
440	(1B8)	X'5'	0	GTWVERSN	"5" Version number
440	(1B8)	X'1B8'	0	GTWLEN	"*-GTW" LEN OF GTW WORK AREA

Table 220. Cross Reference for \$GTW

Name	Offset	Hex Tag
GTW	0	
GTW#GTEN	118	
GTW#GTST	F8	
GTW#PSEN	128	
GTW#PSST	108	
GTWBEST	34	
GTWCALER	38	
GTWCATCT	150	
GTWCHCNT	DC	
GTWCHSEL	E0	
GTWCLASS	F0	
GTWCLST	164	
GTWCPU	8	
GTWDCT	D0	
GTWDCTN	40	
GTWDUPCT	14C	
GTWELAPS	20	
GTWFLAGP	5	
GTWFLAG1	D1	
GTWFLAG2	D2	
GTWFLAG3	D3	
GTWID	0	
GTWJBNUM	E4	
GTWJNUM	2C	
GTWJOACT	30	
GTWJOES	D4	
GTWJOID1	D8	
GTWJOID2	DA	
GTWJONAM	D0	

Table 220. Cross Reference for \$GTW (continued)

Name	Offset	Hex Tag
GTWJQFRE	148	
GTWJQMAX	144	
GTWJQNAM	DC	
GTWJQTYP	E8	
GTWJSCR	28	
GTWLEN	1B8	1B8
GTWMASK	B7	
GTWNODE	E4	
GTWORG	D0	
GTWPITN	40	40
GTWPSTCT	F0	
GTWPSTSP	104	
GTWPSTWR	F8	
GTWQFLG1	13D	
GTWQGT	154	
GTWQGTL	163	10
GTWQGTRC	1A4	
GTWQJQAN	140	
GTWQNUM	D8	
GTWQSUSE	18	
GTWQUEUE	13E	
GTWQ1WLM	13D	10
GTWQ1W49	13D	20
GTWQ1X14	13D	80
GTWQ1X49	13D	40
GTWRMT	E6	
GTWROUTE	E4	
GTWSDQF1	1B4	
GTWSELNL	13C	
GTWSELNM	120	
GTWSIZE	1B8	1B0
GTWSKIP	1B0	
GTWSLIMT	1B4	20
GTWSNOTU	1B4	80
GTWSNSEL	1B4	40
GTWSNULL	1B4	0
GTWSPICT	FC	
GTWSPIRT	100	
GTWSCHK	1B4	10

Table 220. Cross Reference for \$GTW (continued)

Name	Offset	Hex Tag
GTWSSELE	1B4	2
GTWSTAKN	1B4	1
GTWSTART	8	
GTWSUIT	1A8	
GTWFLG1	52	
GTWTIME	10	
GTWT1GET	52	80
GTWT1PS0	52	10
GTWT1PST	52	40
GTWT1QGT	52	20
GTWUSER	E8	
GTWVERS	4	
GTWVERSN	1B8	5
GTWVORD	F2	
GTWWS	53	
GTWWSCN	164	164
GTWWSPCT	EC	
GTWWSTAB	3C	
GTWWTRCT	F4	
GTWX14CP	D8	
GTWX14ET	F0	
GTWX14QS	E8	
GTWX14RC	D0	
GTWX14TM	E0	
GTWX49CP	100	
GTWX49CT	FC	
GTWX49ET	118	
GTWX49QS	110	
GTWX49SK	F8	
GTWX49TM	108	
GTW1ALM	D1	2
GTW1CNT	D1	10
GTW1CYES	D1	8
GTW1HYES	D1	20
GTW1NET	D1	40
GTW1NSAF	D1	4
GTW1WS	D1	80
GTW2FAST	D2	80
GTW2JOEX	D2	4

Table 220. Cross Reference for \$GTW (continued)

Name	Offset	Hex Tag
GTW2JX0V	D2	2
GTW2N0	D2	20
GTW2SAFF	D2	1
GTW20SIZ	F4	F0
GTW30SIZ	104	100
GTW31SIZ	1B5	1B0

\$HASB information

\$HASB programming interface information

\$HASB is a programming interface.

\$HASB heading information

Common name: HASP Address Space Block

Macro ID: \$HASB

DSECT name: HASB

Owning component: JES2 (SC1BH)

Eye-catcher ID: HASB
Offset: HSBID
Length: L'HSBID

Storage attributes: Subpool: 241 (ECSA)
Key: 1
Residency: The HASB resides in ECSA. Virtual and real storage are 31-bit.

Size: See HSBLEN

Created by: \$SSIBEGN

Pointed to by: ASID*4 + HAVT (See below)

Serialization: Shared by TCBs in the address space.
One \$HASB per address space. Local lock is required to increment use count in \$HASXB. This ensures that the HASB/HASXB won't be FREEMAINED if it is considered to be temporary.
After the use count has been incremented in the \$HASXB control block to indicate that both the \$HASB and \$HASXB are in use, compare and swaps may be used to modify fields. \$SSIBEGN increments the use count upon entry. The use count in the \$HASXB is for both the \$HASB and the \$HASXB.
Compare and swap is needed to update the HSBFLAG.

Function:

The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist for the life of the address space. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.

\$HASB mapping

Table 221. Structure HASB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HASB	BEGINNING OF \$HASB DSECT
0	(0)	CHARACTER	4	HSBID	EYECATCHER OF \$HASB
4	(4)	ADDRESS	1	HSBVRSN	VERSION NUMBER FIELD
4	(4)	X'2'	0	HSBVNUM	"2" THE CURRENT VERSION NUMBER
5	(5)	BITSTRING	1	HSBFLAG	Flag byte, use CS to modify
		1...		HSBDJWEL	"B'10000000'" Dispose JWEL flag
		.1..		HSBSJBE	"B'01000000'" Dump for SJBFIND taken
		..1.		HSBUUSE	"B'00100000'" abend0E0 within SSI, the HXBUSECT is unreliable
6	(6)	SIGNED	2	HSBASID	ASID
8	(8)	SIGNED	4	HSBCRSYS	CROSS SYSTEM REQUEST COUNT
This field, HSBCRSYS, must be zero for the HASB to be freed. However, it is not checked in the same way as the fields in the section below, so it is not there.					
12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK
16	(10)	ADDRESS	4	HSBJESCB	Addr of related JES2 CB (see HSBASTYP)
All fields encompassed by HSBCECHK must be zero for the \$SSIEND routine to free the HASB at the end of the SSI call. (Unless it's an END-OF-MEMORY call).					
20	(14)	ADDRESS	4	HSBSJB	ADDRESS OF FIRST SJB
24	(18)	ADDRESS	4	HSBUSER1	RESERVED FOR USER
28	(1C)	ADDRESS	4	HSBINTRE	Address of 1st INTRDR element (IRE)
28	(1C)	X'14'	0	HSBCECHK	"HSBSJB,*-HSBSJB" BEFORE HASB IS FREED THIS MUST BE 0
The following byte identifies the type of address space and the contents of HSBJESCB. HSBASNSV - PCL for NETSERV address space HSBASCI - CICB for JES2 C/I address space HSBASEDS - EDSCB for email services address space HSBASAUX - AUXCB for JES2AUX address space					
32	(20)	BITSTRING	1	HSBASTYP	JES2 address space type
32	(20)	X'1'	0	HSBASNSV	"1" NETSERV address space
32	(20)	X'2'	0	HSBASCI	"2" JES2 C/I address space
32	(20)	X'3'	0	HSBASEDS	"3" Email delivery addr space
32	(20)	X'4'	0	HSBASAUX	"4" JES2AUX address space

Table 221. Structure HASB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
33	(21)	BITSTRING	7		Reserved
40	(28)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
48	(30)	DBL WORD	8	HSBTRETM	Oldest time TRE made active
48	(30)	X'38'	0	HSBLEN	"*-HASB" LENGTH OF \$HASB DSECT

Table 222. Cross Reference for \$HASB

Name	Offset	Hex	Tag
HASB	0		
HSBASAUX	20		4
HSBASCI	20		2
HSBASEDS	20		3
HSBASID	6		
HSBASNSV	20		1
HSBASTYP	20		
HSBCHECK	1C		14
HSBCRSYS	8		
HSBDJWEL	5		80
HSBFLAG	5		
HSBHASXB	C		
HSBID	0	C8C1E2C2	
HSBINTRE	1C		
HSBJESCB	10		
HSBLEN	30		38
HSBSJB	14		
HSBSJBE	5		40
HSBSTOKN	28		
HSBTRETM	30		
HSBUSER1	18		
HSBUUSE	5		20
HSBVRNUM	4		2
HSBVRSN	4		

\$HASPEQU information

\$HASPEQU programming interface information

\$HASPEQU is a programming interface.

\$HASPEQU heading information

Common name: Equates for JES2

Macro ID: \$HASPEQU

DSECT name: None

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: N/A
Key: N/A
Residency: N/A

Size: N/A

Created by: N/A

Pointed to by: N/A

Serialization: N/A

Function: The \$HASPEQU macro is used to generate the register and other equates required by JES2. It also contains some executable macro in-line parameter list equates.

\$HASPEQU mapping

Table 223. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 224. Structure \$HASPEQU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	\$HASPEQU	, HASP equates DSECT

Absolute register definitions

0	(0)	X'0'	0	R0	"0"
0	(0)	X'1'	0	R1	"1"
0	(0)	X'2'	0	R2	"2"
0	(0)	X'3'	0	R3	"3"
0	(0)	X'4'	0	R4	"4"
0	(0)	X'5'	0	R5	"5"
0	(0)	X'6'	0	R6	"6"
0	(0)	X'7'	0	R7	"7"
0	(0)	X'8'	0	R8	"8"
0	(0)	X'9'	0	R9	"9"
0	(0)	X'A'	0	R10	"10"
0	(0)	X'B'	0	R11	"11"
0	(0)	X'C'	0	R12	"12"
0	(0)	X'D'	0	R13	"13"
0	(0)	X'E'	0	R14	"14"
0	(0)	X'F'	0	R15	"15"

Access register definitions

0	(0)	X'0'	0	AR0	"0"
0	(0)	X'1'	0	AR1	"1"

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	AR2	"2"
0	(0)	X'3'	0	AR3	"3"
0	(0)	X'4'	0	AR4	"4"
0	(0)	X'5'	0	AR5	"5"
0	(0)	X'6'	0	AR6	"6"
0	(0)	X'7'	0	AR7	"7"
0	(0)	X'8'	0	AR8	"8"
0	(0)	X'9'	0	AR9	"9"
0	(0)	X'A'	0	AR10	"10"
0	(0)	X'B'	0	AR11	"11"
0	(0)	X'C'	0	AR12	"12"
0	(0)	X'D'	0	AR13	"13"
0	(0)	X'E'	0	AR14	"14"
0	(0)	X'F'	0	AR15	"15"
Floating point registers					
0	(0)	X'0'	0	FP0	"0"
0	(0)	X'2'	0	FP2	"2"
0	(0)	X'4'	0	FP4	"4"
0	(0)	X'6'	0	FP6	"6"
High halves of registers for \$RUSE					
0	(0)	X'0'	0	HR0	"0"
0	(0)	X'1'	0	HR1	"1"
0	(0)	X'2'	0	HR2	"2"
0	(0)	X'3'	0	HR3	"3"
0	(0)	X'4'	0	HR4	"4"
0	(0)	X'5'	0	HR5	"5"
0	(0)	X'6'	0	HR6	"6"
0	(0)	X'7'	0	HR7	"7"
0	(0)	X'8'	0	HR8	"8"
0	(0)	X'9'	0	HR9	"9"
0	(0)	X'A'	0	HR10	"10"
0	(0)	X'B'	0	HR11	"11"
0	(0)	X'C'	0	HR12	"12"
0	(0)	X'D'	0	HR13	"13"
0	(0)	X'E'	0	HR14	"14"
0	(0)	X'F'	0	HR15	"15"
Values fixed by the hardware					
0	(0)	X'1000'	0	\$PGESIZE	"4096" PROCESSOR PAGE SIZE -- 4K
PLO Function codes (indicates uses a parm list)					
0	(0)	X'0'	0	PLO_CL	"0" Compare and load (32 bit)
0	(0)	X'1'	0	PLO_CLG	"1" Compare and load (64 bit) *

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	PLO_CLGR	"2" Compare and load (64 bit)
0	(0)	X'3'	0	PLO_CLX	"3" Compare and load (128 bit) *
0	(0)	X'4'	0	PLO_CS	"4" Compare and swap (32 bit)
0	(0)	X'5'	0	PLO_CSG	"5" Compare and swap (64 bit) *
0	(0)	X'6'	0	PLO_CSGR	"6" Compare and swap (64 bit)
0	(0)	X'7'	0	PLO_CSX	"7" Compare and swap (128 bit) *
0	(0)	X'8'	0	PLO_DCS	"8" Double compare and swap (32 bit)
0	(0)	X'9'	0	PLO_DCSG	"9" Double compare and swap (64 bit) *
0	(0)	X'A'	0	PLO_DCSGR	"10" Double compare and swap (64 bit)
0	(0)	X'B'	0	PLO_DCSX	"11" Double compare and swap (128 bit) *
0	(0)	X'C'	0	PLO_CSST	"12" Compare and swap and store (32 bit)
0	(0)	X'D'	0	PLO_CSSTG	"13" Compare and swap and store (64 bit) *
0	(0)	X'E'	0	PLO_CSSTGR	"14" Compare and swap and store (64 bit)
0	(0)	X'F'	0	PLO_CSSTX	"15" Compare and swap and store (128 bit) *
0	(0)	X'10'	0	PLO_CSDST	"16" Compare and swap and double store (32) *
0	(0)	X'11'	0	PLO_CSDSTG	"17" Compare and swap and double store (64) *
0	(0)	X'12'	0	PLO_CSDSTGR	"18" Compare and swap and double store (64) *
0	(0)	X'13'	0	PLO_CSDSTX	"19" Compare and swap and double store (128)*
0	(0)	X'14'	0	PLO_CSTST	"20" Compare and swap and triple store (32) *
0	(0)	X'15'	0	PLO_CSTSTG	"21" Compare and swap and triple store (64) *
0	(0)	X'16'	0	PLO_CSTSTGR	"22" Compare and swap and triple store (64) *
0	(0)	X'17'	0	PLO_CSTSTX	"23" Compare and swap and triple store (128)*
Miscellaneous definitions					
0	(0)	X'0'	0	NONE	"0" NO BITS ON, NEVER BRANCH
0	(0)	X'FF'	0	FF	"255" ALL BITS ON, ALWAYS BRANCH
0	(0)	BITSTRING	0	FFFF	"X'FFFF'" All bits on for half word
0	(0)	BITSTRING	0	\$MAXFSGN	"X'7FFFFFFF'" Max signed value
0	(0)	BITSTRING	0	\$BADADDR	"X'7FFFFFFBAD'" Bad address equate
Event control field flag definitions defining JES2 dispatcher events for \$WAIT,INHIBIT=YES and \$POSTS of specific PCEs for events					
	1...			\$EWFPOST	"X'80'" INHIBIT SPECIFIC PCE \$POST
	.1..			\$EWFOPER	"X'40'" PROCESSOR DEACTIVATED
	..1.			\$EWFIO	"X'20'" WAITING FOR I/O
	...1			\$EWFWORK	"X'10'" WAITING FOR WORK
	.... 1...			\$EWFHOLD	"X'08'" WAITING FOR \$S COMMAND

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Dispatcher resource definitions JES2 values start at 0 and increase while user values start at 63 and decrease - See documentation in the \$WAIT and \$POST macros					
0	(0) X'0'		0	\$DRMLLM	"0" 'Line manager resource \$POSTS'
0	(0) X'1'		0	\$DRABIT	"1" 'Wait for one dispatcher cycle'
0	(0) X'2'		0	\$DRALOC	"2" 'HOSALLOC subtask serialization'
0	(0) X'3'		0	\$DRIMAGE	"3" 'Requested/executed image load'
0	(0) X'4'		0	\$DRBUF	"4" 'Need/freed JES2 buffer'
0	(0) X'5'		0	\$DRJOT	"5" 'Need/added selectable JOEs'
0	(0) X'6'		0	\$DRJOE	"6" 'Need/freed unused JOE'
0	(0) X'7'		0	\$DRTRACK	"7" 'Need/freed spool track group - NON-priv'
0	(0) X'8'		0	\$DRJOB	"8" 'Need job/changed a job's status'
0	(0) X'9'		0	\$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0) X'A'		0	\$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0) X'B'		0	\$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0) X'C'		0	\$DRCKPTL	"12" 'Lurking for CKPT READ'
0	(0) X'D'		0	\$DRCKPTW	"13" 'Need/completed CKPT WRITE cycle'
0	(0) X'E'		0	\$DRCMB	"14" 'Need/freed unused CMB'
0	(0) X'F'		0	\$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0) X'10'		0	\$DRLOCK	"16" 'Need/freed a job lock'
0	(0) X'11'		0	\$DRMAIN	"17" 'Need/freed main storage'
0	(0) X'12'		0	\$DRFSS	"18" 'FSS ORDER serialization'
0	(0) X'13'		0	\$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0) X'14'		0	\$DRPURGE	"20" 'Want/added JQEs to PURGE queue'
0	(0) X'15'		0	\$DRTIPS	"21" 'PCE - update JOE BERT transaction information'
0	(0) X'16'		0	\$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0) X'17'		0	\$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0) X'18'		0	\$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0) X'19'		0	\$DRRMWT	"25" 'PCE waiting to be \$POSTed by resource manager'
0	(0) X'1A'		0	\$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0) X'1B'		0	\$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0) X'1C'		0	\$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0) X'1D'		0	\$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0) X'1E'		0	\$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'
0	(0) X'1F'		0	\$DRWARM	"31" 'PCE waiting for a member to warm start'
0	(0) X'20'		0	\$DRARMS	"32" 'ARM support processor'
0	(0) X'21'		0	\$DRHOMOG	"33" 'PCEs waiting for JESplex version change'

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'22'	0	\$DRPROCLIB	"34" 'PCEs waiting PROCLIB allocate/unallocate'
0	(0)	X'23'	0	\$DRMFMF	"35" 'PCEs waiting for SPOOL mini-format completion'
0	(0)	X'24'	0	\$DRCCAN	"36" 'Cancel JOB/TSU/STC in conversion'
0	(0)	X'25'	0	\$DRSPI	"37" 'PCEs waiting for Sysout API requests'
0	(0)	X'26'	0	\$DRBERTW	"38" 'Waiting for a free BERT'
0	(0)	X'27'	0	\$DRBERTL	"39" 'Waiting for a BERT lock to free'
0	(0)	X'28'	0	\$DRBREG	"40" 'PCES waiting for WLM registration requests'
0	(0)	X'29'	0	\$DRDILBERT	"41" 'PCES waiting for \$DILBERT requests'
0	(0)	X'2A'	0	\$DRXMITJOB	"42" 'Waiting for NJE JOB activity'
0	(0)	X'2B'	0	\$DRALICE	"43" 'PCEs waiting for incomplete warmstart'
0	(0)	X'2C'	0	\$DREOM	"44" 'PCES waiting for an EOM to occur'
0	(0)	X'2D'	0	\$DRIRCLEAN	"45" 'Internal Reader Cleanup needed'
0	(0)	X'2E'	0	\$DRDAWN	"46" 'PCEs waiting for work notifications'
0	(0)	X'2F'	0	\$DRJOEI	"47" 'PCEs waiting for JOEINDEX requests'
0	(0)	X'30'	0	\$DREDSQ	"48" 'PCEs waiting for email queue needing attention'
0	(0)	X'31'	0	\$DRTRACP	"49" 'Need/freed spool track group - priv job'
0	(0)	X'32'	0	\$DRJQRB	"50" 'Process JQRB queue'
0	(0)	X'33'	0	\$DRCKPTS	"51" 'Low priority PCEs waiting for \$QSUSE'
0	(0)	X'34'	0	\$DRRSLBRT	"52" 'Resource limit event for BERT resource'
0	(0)	X'35'	0	\$DRRSLJQE	"53" 'Resource limit event for JQE resource'
0	(0)	X'36'	0	\$DRRSLTG	"54" 'Resource limit event for TG resource'
0	(0)	X'37'	0	\$DRRSLJOE	"55" 'Resource limit event for JOE resource'
0	(0)	X'40'	0	\$DRTOTAL	"64" TOTAL NUMBER OF RESOURCES
0	(0)	X'8'	0	\$DRQUEL	"8" LENGTH OF A RESOURCE QUEUE ELMT CIRCULAR FORWARD/BACKWARD PTRS, PCEPCEA/PCEPCEB ARE CHAIN FLDS
MSG prefix length EQU					
0	(0)	X'2'	0	\$MSGPFXL	"2" TWO BYTE PACKED DEC. MSG NO.
DISPER= equates for messages in HASPMMSG					
		1...		\$M064IBE	"B'10000000'" IOBE is present
		.1..		\$M064NIB	"B'01000000'" No IOBE is available
		..1.		\$M064SNS	"B'00100000'" Sense data is available
		...1		\$M064DAD	"B'00010000'" DASD I/O was issued

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		\$M064MIG	"B'00001000" SPOOL Migration
		.... .1..		\$M064RD	"B'00000100" Read was being requested
		.... ..1.		\$M064WRT	"B'00000010" Write was being requested
		1...		\$M068DEV	"B'10000000" PCE is a device
		.1..		\$M068NDV	"B'01000000" PCE is not a device
		..1.		\$M068LDV	"B'00100000" PCE is a sub-device
		1...		\$M1200TH	"B'10000000" Device is some other type
		.1..		\$M120INR	"B'01000000" Devide is an INTRDR
		1...		\$M260CLD	"B'10000000" Update COLD_START_MODE
		.1..		\$M260NCL	"B'01000000" COLD_START_MODE is OK
		1...		\$M276WRM	"B'10000000" Warm start processing
		.1..		\$M276CLD	"B'01000000" Cold start processing
		..1.		\$M276HOT	"B'00100000" Hot start processing
		1...		\$M281ALL	"B'10000000" ALL members have I/O errors
		.1..		\$M281SOM	"B'01000000" Some memb have no I/O error
		1...		\$M416LNG	"B'10000000" LONG FORM OF MESSAGE
		.1..		\$M416SHR	"B'01000000" SHORT FORM OF MESSAGE
		1...		\$M443ATT	"B'10000000" ATTACH failure form
		.1..		\$M443NUM	"B'01000000" SPOOLNUM exceeded form
		..1.		\$M443LEV	"B'00100000" DSN not supported at level
		1...		\$M458CK1	"B'10000000" CKPT1 FORM OF MESSAGE
		.1..		\$M458CK2	"B'01000000" CKPT2 FORM OF MESSAGE
		1...		\$M478CK1	"B'10000000" One data set in use
		.1..		\$M478CK2	"B'01000000" Two data sets in use
		1...		\$M479IO	"B'10000000" I/O ERROR
		.1..		\$M479SID	"B'01000000" SID=SYSID
		..1.		\$M479INT	"B'00100000" SID=INITIALIZATION
		...1		\$M479VAL	"B'00010000" Validation error
		1...		\$M291CC1	"B'10000000" CCW 1 address filled in
		.1..		\$M291CC2	"B'01000000" CCW 2 address filled in
		..1.		\$M291NCW	"B'00100000" No CCWs addresses available
		...1		\$M291SNS	"B'00010000" Sense data is available
		1...		\$M530NOR	"B'10000000" Non-transactional JOE
		.1..		\$M530TRN	"B'01000000" Display transaction name
		1...		\$M539GRP	"B'10000000" Not valid CLASS or GROUP
		.1..		\$M539CLS	"B'01000000" Not valid CLASS
		1...		\$M565LNE	"B'10000000" Line request
		.1..		\$M565CON	"B'01000000" Connect request
		1...		\$M568NIT	"B'10000000" CBADDR is NIT
		.1..		\$M568APT	"B'01000000" CBADDR is APT

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		\$M568SCK	"B'00100000'" CBADDR ia SCK
		...1		\$M568NSV	"B'00010000'" CBADDR is NETSRV DCT
		.... 1...		\$M568LGN	"B'00001000'" CBADDR is LOGON DCT
		.... .1..		\$M568LIN	"B'00000100'" CBADDR is Line DCT
		1...		\$M745INT	"B'10000000'" Internal extend error
		.1..		\$M745STD	"B'01000000'" Standard extend error
		1...		\$M867NOR	"B'10000000'" Normal volume
		.1..		\$M867G00	"B'01000000'" Go is a valid option
		..1.		\$M867MON	"B'00100000'" Mapped on volume
		...1		\$M867MTR	"B'00010000'" Active migration target
		.... 1...		\$M867MSR	"B'00001000'" Active migration source
		1...		\$M897INA	"B'10000000'" Socket is not active
		.1..		\$M897ACL	"B'01000000'" Socket active for a line
		..1.		\$M897ACS	"B'00100000'" Socket active for a NETSERV
Other equates for messages in HASPMSG					
M445DON EQU 4 Already unactivated (obs)					
0	(0) X'8'		0	\$M4450TH	"8" Other MAS members active
0	(0) X'C'		0	\$M445CKP	"12" All CKPTs not allocated
HASP status bit definitions					
		1...		\$QSONDA	"X'80'" SHARED QUEUES ARE ON DA
		.1..		\$ALMSGSW	"X'40'" ALL AVAILABLE FUNCTIONS MSG ISSUED
		..1.		\$DRAINED	"X'20'" THIS SYSTEM IS DRAINED, FLAG IS ON INITIALLY, OFF AFTER 'NOREQ' WARM START, SET BY \$S/\$P
		...1		\$CKPTIOA	"X'10'" CKPT I/O is active
		.... 1...		\$INDMODE	"X'08'" SYSTEM IS IN INDEPENDENT MODE
		.... .1..		\$SYSEXIT	"X'04'" HASP SYSTEM IN TERMINATION PROCESS
		.... ..1.		\$NPMDOWN	"X'02'" Network path manager has been disabled due to error
		.... ...1		\$CKPTRSV	"X'01'" CHECKPOINT IS RESERVED
\$TKNLN and \$TKNVERN are the length and version of the security token that is defined for RACROUTE calls with RELEASE=1.9.					
0	(0) X'50'		0	\$TKNLN	"80" SAF SECURITY TOKEN LENGTH
		.... ...1		\$TKNVERN	"X'01'" SAF SECURITY TOKEN VERSION
0	(0) X'27'		0	\$ENTYLEN	"39" LENGTH OF SECURITY ENTITY STRING
Equate for the type of JES2 start, used in the \$WARM TYP and X024COND flag bytes.					
		1...		\$WARM	"X'80'" SINGLE-SYSTEM WARMSTART
		.1..		\$HOT	"X'40'" HOT START INDICATOR
		..1.		\$QUICK	"X'20'" QUICK START INDICATOR
		...1		\$CONFIG	"X'10'" CONFIGURATION-WIDE WARMSTART

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		\$ESYS	"X'08'" '\$E SYS' RESTART
		.... .1..		\$COLD	"X'04'" COLD START
		.... ..1.		\$MVS IPL	"X'02'" MVS WAS IPL'D
		.... ...1		\$COLD FMT	"X'01'" COLD START WITH FORMAT
		1111 1111		\$INITCHK	"X'FF'" Init deck check (all bits off)
0	(0) X'1F4'		0	\$WARMHD	"500" Minimum number of hundredths of seconds for minhold during warmstart
HASP Subtask System Status Flag					
		1...		\$SUBERR	"B'10000000'" UNRECOVERABLE SUBTASK ERROR
		.1..		\$SUBMULT	"B'01000000'" MULTIPLE SUBTASK FAILURES
0	(0) X'8000'		0	\$LRGSMFB	"32*1024" SIZE OF LARGE SMF BUFFER D/T4245/4248 SETPRT OPTION * BIT DEFINITION *
		...1		\$PPVERIU	"X'10'" UCS VERIFY BIT SPPVERIU
\$RRTWA bit definitions					
		1...		\$RRTJOB	"B'10000000'" JOB-LEVEL CHECKING REQ'D
		..1.		\$RRTSQD	"B'00100000'" SQD passed for SUBIT call
HASPR TAM definitions					
0	(0) X'120'		0	\$MWORKSZ	"288" SIZE OF RTAM WORK AREA ADDRESSED VIA \$MWORK -- MUST BE MULTIPLE OF 8 BYTES
\$EXTP option and parameter list definitions					
0	(0) X'0'		0	EXTPLCMD	"0,1" (CCW) COMMAND TO BE PERFORMED
0	(0) X'1'		0	EXTPLLEN	"1,3" LENGTH OF DATA (IF ANY) PASSED
0	(0) X'4'		0	EXTPLDAT	"4,4" STARTING ADDRESS OF DATA
0	(0) X'8'		0	EXTPLSIZ	"8" SIZE OF PARAMETER LIST
0	(0) X'0'		0	\$EXTPOPE	"0" ENTRY LIST INDEX FOR OPEN
0	(0) X'1'		0	\$EXTPGET	"1" ENTRY LIST INDEX FOR GET
0	(0) X'2'		0	\$EXTPPUT	"2" ENTRY LIST INDEX FOR PUT
0	(0) X'3'		0	\$EXTPCLO	"3" ENTRY LIST INDEX FOR CLOSE
0	(0) X'4'		0	\$EXTPNCL	"4" ENTRY LIST INDEX FOR NCLOSE
0	(0) X'5'		0	\$EXTPREA	"5" ENTRY LIST INDEX FOR READ
0	(0) X'6'		0	\$EXTPWRI	"6" ENTRY LIST INDEX FOR WRITE
CSA storage block prefix equates					
0	(0) X'0'		0	\$CSBID	"0,4" CSA STOR BLK EYE CATCHER OFFSET
0	(0) X'4'		0	\$CSBSPLN	"4,4" CSA STG BLK SUBP/LNG OFFSET
0	(0) X'8'		0	\$CSBPRFX	"8" CSA STOR BLOCK PREFIX LENGTH
CSA storage block prefix length for quad word alignment					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	\$CS2ID	"0,4,C'C'" Identifier
0	(0)	X'4'	0	\$CS2SP	"4,1,C'X'" Subpool
0	(0)	X'5'	0	\$CS2LEN	"5,3,C'X'" Length
0	(0)	X'8'	0	\$CS2SPVAL	"8,4,C'X'" Quad word identifier (-1)
EQU 12,4 Reserved					
0	(0)	X'10'	0	\$CS2PRFX	"16" CSA STOR BLOCK PREFIX LEN
HASP initialization limits					
0	(0)	X'A'	0	\$MINBUF	"10" Minimum # of HASP buffers
0	(0)	X'7'	0	\$MAXNJEQ	"7" Maximum member number for NJE tests
0	(0)	X'7D0'	0	\$MAXBUF	"2000" MAXIMUM NUMBER OF HASP BUFFERS
0	(0)	X'4'	0	\$MINCMB	"4" Minimum # of CMBs
0	(0)	X'7FFF'	0	\$MAXCMB	"32767" Maximum number of CMBs
0	(0)	X'4'	0	\$MINCMDB	"4" Minimum # of command CMBs
0	(0)	X'270F'	0	\$MAXCMDB	"9999" Maximum # of command CMBs
0	(0)	X'A'	0	\$MINBUFEX	"10" Minimum # of CB buffers
0	(0)	X'270F'	0	\$MAXBUFEX	"9999" Maximum # of CB buffers
0	(0)	X'A'	0	\$MINBSC	"10" Minimum # of BSC Buffers
0	(0)	X'270F'	0	\$MAXBSC	"9999" Maximum # of BSC buffers
0	(0)	X'A'	0	\$MINVTAM	"10" Minimum # of VTAM buffers
0	(0)	X'270F'	0	\$MAXVTAM	"9999" Maximum # of VTAM buffers
0	(0)	X'A'	0	\$MINNHB	"10" Minimum # of NHB buffers
0	(0)	X'270F'	0	\$MAXNHB	"9999" Maximum # of NHB buffers
0	(0)	X'3E8'	0	\$MAXSMFB	"1000" Maximum # of SMF buffers
0	(0)	X'1F4'	0	\$MAXPPBF	"500" Max # of PP cell in the \$CPPOOL primary extent
0	(0)	X'7FFF'	0	\$MAXICES	"32767" Max number of sessions
0	(0)	X'CB'	0	\$CPRIMXT	"200" NUMBER OF BUFFERS IN THE \$CPPOOL PRIMARY EXTENT
0	(0)	X'190'	0	\$CPNHBMX	"400" Max number of NHB cells in the \$CPPOOL primary extent
0	(0)	X'FD'	0	\$MAXDA	"253" MAXIMUM NUMBER OF SPOOL VOLUMES (((\$MAXDA+31)/32*4) IS USED TO DEFINE THE NUMBER OF BYTES NEEDED IN DECLARES FOR SPOOL MASKS. EACH 32 VOLS NEEDS ONE WORD, TIMES 4, TO GET THE LENGTH IN BYTES
0	(0)	X'400'	0	\$MAXTGBE	"1024" Number of entries in BLOB
0	(0)	X'1F4'	0	\$MAXTINT	"500" MAX TIME (IN 100THS OF A SECOND) TO WAIT TO START A CKPT WRITE
0	(0)	X'F5E0FF'	0	\$MAXHOLD	"99999999" Maximum CKPT hold value
0	(0)	X'F'	0	\$MINTINT	"15" Min time (in 100th seconds) below which we will not do an intermediate write
0	(0)	X'20000'	0	\$MAXTGV	"(X'0FFFFFF'+7)/8" No. of bytes to represent MAXIMUM NO. OF TRK GROUPS per volume (1,048,575)

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	\$MAXLTRV	"X'0FFFFF'" This represents the maximum number of tracks allowed for a spool volume with large data set support enabled - 1,048,575.
0	(0)	X'11111'	0	\$MAXLCYL	"(\$MAXLTRV)/15" Given \$MAXLTRV above - this number represents the maximum number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'FFFF'	0	\$MAXTRV	"65535" This represents the maximum number of tracks allowed for a spool volume with large data set support not enabled. 65,535.
0	(0)	X'1111'	0	\$MAXCYL	"(\$MAXTRV)/15" Given \$MAXTRV above - this number represents the maximum number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'32'	0	\$JMPREDO	"50" Rebuild JIX map after every 50 freed job numbers
0	(0)	X'F4240'	0	\$MAXNJQE	"1000000" Maximum number of JQEs Also MAX JQXs.
0	(0)	X'F423F'	0	\$MAXJNUM	"999999" Maximum number of job nums
0	(0)	X'C80'	0	\$SMBERT	"3200" Small BERT configuration for QBERTHRE - BERT shortage environment
0	(0)	X'5DC'	0	\$SMENVB	"1500" Priv small env BERT config for QBERTHRE - BERT shortage environment
0	(0)	X'64'	0	\$MINBERT	"100" Minimum number of BERTs
0	(0)	X'2625A0'	0	\$MAXBERT	"\$MAXNJQE*5/2" Maximum number of BERTs 2,500,000
0	(0)	X'7A120'	0	\$MAXNZJC	"500000" Maximum number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	X'3E8'	0	\$DEFNZJC	"1000" Default number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	X'F4240'	0	\$MAXNDRX	"1000000" Maximum number of DRXs (DRINDEX entries)
0	(0)	X'CDFED'	0	\$MAXDRTM	"((\$MAXNDRX+11)/12)*10+ (((MAXNDRX+11)/12)+7)/8"
0	(0)	X'3E8'	0	\$MINNDRX	"1000" Minimum number of DRXs
0	(0)	X'4E20'	0	\$MAXDEFX	"20000" Default number of DRXs
0	(0)	X'3F8'	0	\$DRCRLEN	"1024-8" DRCREQ CP00L element length
0	(0)	X'4'	0	\$MAXARTT	"4" Maximum allocated resource table entry types tracked for consumption rates and total resource trends - SP00L tracks - Submitted jobs (JQEs) - JOEs (work JOEs) - BERTs
0	(0)	X'64'	0	\$MAXARTE	"100" Maximum allocated resource table entries or total resource trend table entries tracked by address space
0	(0)	X'2'	0	\$MAXARTR	"2" Total resource trend table entries required to calculate a rate
0	(0)	X'3E8'	0	\$MAXTOTH	"1000" Maximum total resource trend table history entries
0	(0)	X'64'	0	\$MAXMERG	"100" Maximum number of table entries tracked in the merged table of top consumers of resource in the MAS.
0	(0)	X'A'	0	\$MAXTOTD	"10" Maximum total resource trend table history entries in SCAN temp CB

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A'	0	\$MAXRATC	"10" Maximum allocated resource table entries required to calculate a rate
0	(0)	X'7FFF'	0	\$MAXARTC	"32767" Maximum control number value in ARTLCNTL field
0	(0)	X'D988'	0	\$MAXCDC2	"55688" Maximum size of a Type 2 CDCT
0	(0)	BITSTRING	0	\$MAXDSKY	"X'FFFFFFFF'" Max DS key in a job
0	(0)	X'4E20'	0	\$MAXESIZ	"20000" Maximum JQE extensions
0	(0)	X'F5E0FF'	0	\$MAXJOID	"99999999" MAXIMUM JOE ID NUMBER IN JQE
0	(0)	X'FFFF'	0	\$MAXLNES	"65535" MAXIMUM NUMBER OF TP LINES
0	(0)	X'3E7'	0	\$MAXLOGS	"999" MAXIMUM VTAM INTERFACES INTERFACES
0	(0)	X'3E7'	0	\$MAXSRVS	"999" MAXIMUM NJE SERVERS
0	(0)	X'7FFF'	0	\$MAXNODE	"32767" MAXIMUM NUMBER OF NJE NODES
0	(0)	X'8'	0	\$MAXPATH	"8" Max nr of paths per node
0	(0)	X'7D0'	0	\$MAXRST	"2000" MAXIMUM SPECIFIABLE RESISTANCE
0	(0)	X'63'	0	\$MAXCMPT	"99" MAXIMUM NUMBER OF CMPCTION TBLS
0	(0)	X'8'	0	\$MAXOFFS	"8" MAXIMUM NUMBER OF OFFLOAD DEV
0	(0)	X'7FFF'	0	\$MAXPRTS	"32767" MAX NUMBER OF LOCAL PRTs
0	(0)	X'63'	0	\$MAXPUNS	"99" MAXIMUM NUMBER OF LOCAL PUNCHES
0	(0)	X'63'	0	\$MAXRDRS	"99" MAXIMUM NUMBER OF LOCAL READERS
0	(0)	X'7FFF'	0	\$MAXRJE	"32767" MAX NUMBER OF REMOTES
0	(0)	X'7FFF'	0	\$MAXROUT	"32767" MAX ROUTE CODE
0	(0)	X'C8'	0	\$MAXNMSG	"200" MAX NUMBER NOTIFY MSG BUFFS
0	(0)	X'1F4'	0	\$MAXSJFR	"500" MAX NUM SJF SERVICE REQSTS
0	(0)	X'12'	0	\$MAXRCLN	"18" Max symbolic route code len
0	(0)	X'7F'	0	\$MAXIPLN	"127" Max IP-format dest length
0	(0)	X'7FFF'	0	\$MAXCPPG	"32767" MAXIMUM VALUE FOR CKPTPAGE
0	(0)	X'7FFF'	0	\$MAXCPLN	"32767" MAXIMUM VALUE FOR CKPTLINE
0	(0)	X'7FFF'	0	\$MAXCPTM	"32767" MAXIMUM VALUE FOR CKPTSEC
0	(0)	X'E10'	0	\$MAXNPRO	"3600" MAXIMUM TIME BEFORE PRT NPRO
0	(0)	X'270F'	0	\$MAXINIT	"9999" Maximum number, initiators
0	(0)	X'8'	0	\$MAXWCLS	"8" Maximum number of class values for work selection
0	(0)	X'8'	0	\$MAXFORM	"8" MAXIMUM NUMBER OF PRINTER FORMS FOR WORK SELECTION
0	(0)	X'FF'	0	\$MAXPRMD	"255" MAXIMUM NUMBER OF PRMODES DEFINED FOR THIS SYSTEM
0	(0)	X'8'	0	\$MAXPRDV	"8" DEFAULT NUMBER OF PROCESS MODES PER DEVICE
0	(0)	X'20'	0	\$MAXSYSN	"32" Maximum number of members
0	(0)	X'20'	0	\$MAXSYS	"((\$MAXSYSN+7)/8)*8" Maximum # of members forced to multiple of 8
0	(0)	X'4'	0	\$MXSYSBY	"(\$MAXSYS)/8" Number of bytes to hold affinity mask
0	(0)	X'4'	0	\$MAXSNML	"4" MAX SYSTEM AFFINITY NAME LENGTH
0	(0)	X'80'	0	\$MAXSAFL	"\$MAXSYS*\$MAXSNML" Max affinity list length
0	(0)	X'8'	0	\$MAXLCK	"8" NUMBER OF LCK CKPT ELEMENTS
0	(0)	X'32'	0	\$MAXVRSN	"50" MAX VERSIONS IN DATA SPACE

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'BB8'	0	\$MAXTRC	"3000" Max trace table pages
0	(0)	BITSTRING	0	\$MAXTLOG	"X'7FFFFFFF'" MAX TRACE LOG DATASET SIZE
0	(0)	X'1E'	0	\$MAXSSZZ	"30" Max rest time for SJFR PCE
0	(0)	X'63'	0	\$MXCKPCT	"99" Max allowable warning threshold %age for checkpointed resources
0	(0)	X'98967F'	0	\$MAXDISP	"9999999" Max allowable lines in command response
0	(0)	X'14'	0	\$MAXJOEP	"20" Max number to JOEs to purge before processing a JQE
0	(0)	X'8'	0	\$MAXCLSZ	"8" Maximum number of chars in a job class
0	(0)	X'200'	0	\$MAXJCLS	"512" Maximum job classes
Maximum counts for processes					
0	(0)	X'19'	0	\$MAXCNVT	"25" Maximum CNVT PCEs
0	(0)	X'19'	0	\$MAXPURG	"25" Maximum PURGE PCEs
0	(0)	X'A'	0	\$MAXPSO	"10" Maximum PSO PCEs
0	(0)	X'19'	0	\$MAXOUT	"25" Maximum OUTPUT PCEs
0	(0)	X'A'	0	\$MAXSTAC	"10" Maximum STATUS/CANCEL PCEs
0	(0)	X'A'	0	\$MAXSPIN	"10" Maximum SPIN PCEs
0	(0)	X'CB'	0	\$MAXCONJ	"200" Maximum number of jobs that can be defined as running concurrent in a JOBGROUP in a single set
0	(0)	X'7D0'	0	\$MAXJGJB	"2000" Maximum number of jobs that can be defined to a JOBGROUP
0	(0)	X'8'	0	\$MAXNFYS	"8" Maximum number of NOTIFY statements in a job
0	(0)	X'10000'	0	\$MAXCDI	"65536" Maximum number of CDIs (configuration objects)
0	(0)	X'0'	0	\$MAXCDT	"64*1024*1024" Max size of CDT CTENT
0	(0)	X'7D0'	0	\$MAXRGD	"2000" Maximum number of RGDs (resource groups)
0	(0)	X'8'	0	\$MAXRSRT	"8" Max nr of resource types
0	(0)	X'64'	0	\$MAXSDQC	"100" Max nr Side Queue Class Headers
0	(0)	X'64'	0	\$MAXSDQE	"100" Max nr Side Queue Entries per Class
SRVSETUP routine equates					
0	(0)	X'4'	0	\$VOLMAX	"4" MAXIMUM NUMBER OF VOLUMES
0	(0)	X'6'	0	\$VOLLEN	"6" LENGTH OF VOLUME NAME
0	(0)	X'18'	0	\$VOLFLDL	"\$VOLMAX*\$VOLLEN" VOLUME FIELD LENGTH
0	(0)	X'20'	0	\$VOLMSKL	"((\$MAXDA+31)/32*4)" VOLUME MASK SIZE
KCPYMSTR "Direction" Equates					
0	(0)	X'0'	0	\$KCPMI2M	"0" Copy \$MASTERI to \$MASTER
0	(0)	X'1'	0	\$KCPM2MI	"1" Copy \$MASTER to \$MASTERI
HASP initialization defaults					
0	(0)	X'3E8'	0	\$JQEDEF	"1000" DEFAULT NUMBER OF JQE'S

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'64'	0	\$CMBDEF	"100" DEFAULT NUMBER OF CMB'S
0	(0)	X'270F'	0	\$MAXJDEF	"9999" DEFAULT VALUE FOR MAX JOB#
0	(0)	X'1'	0	\$MINJDEF	"1" DEFAULT VALUE FOR MIN JOB#
0	(0)	X'5'	0	\$SMFDEF	"5" DEFAULT NUMBER OF SMF BUFFERS
0	(0)	X'12C'	0	\$NPRODEF	"300" DEFAULT NPRO TIME
0	(0)	X'64'	0	\$CKPGDEF	"100" DEFAULT CKPTPAGE VALUE
0	(0)	X'1'	0	\$SSIRCVR	"1" NUMBER OF RECOVERABLE \$ERRORS ALLOWED IN AN SSI FUNCTION
0	(0)	X'32'	0	\$IOTPRTG	"50" Min # TGAES in Primary IOT
0	(0)	X'3E8'	0	\$IOTRBGN	"1000" SPIN IOTS CREATED BEFORE REUSE
0	(0)	X'5'	0	\$IOTRLMT	"5" MAX ATTEMPTS AT REUSE/ALLOC
0	(0)	X'3E8'	0	\$PBUFLIM	"1000" MAX ADDITIONAL PBUFS/ASID
0	(0)	X'64'	0	\$SEGLMDF	"100" DEFAULT SEGMENT LIMIT
0	(0)	X'100'	0	\$QINDXL	"256" Length of QINDEX table
0	(0)	X'100'	0	\$SQINDXL	"63+C'A'" LENGTH OF \$#INDEX TABLE
0	(0)	X'80'	0	\$CDIDEF	"128" Default number of CDI's
0	(0)	X'20'	0	\$RGDDEF	"32" Default number of RGD's
0	(0)	X'9C4'	0	\$DFTTGLM	"25*100" Default job TG limit (25%)
0	(0)	X'1D4C'	0	\$DFTTGLS	"75*100" Default job TG limit (75%) for small environments
0	(0)	X'2'	0	\$DFTRSAC	"2" Default job rsrc lim action (see RGDACTWT in \$RESGRP)
0	(0)	X'9C4'	0	\$DFTJOLM	"25*100" Default job JOE limit (25%)
0	(0)	X'1D4C'	0	\$DFTJOLS	"75*100" Default job JOE limit (75%) for small environments
HASP track group map rounding and max size values: $\$TGDEF = ((4096 - HDPLNGTH) / 2) * 8$ $\$MAXTGS = (100000000 / \$TGDEF) * \$TGDEF$ Be sure to update the routines JCMDHIST and JCMDTAIL and the message structures for HASP9104 and HASP9131, all defined in HASJCMLS, if the number of digits in \$MAXTGS increases.					
0	(0)	X'3FA0'	0	\$TGDEF	"16288" DEFAULT NUMBER OF TRACK GROUPS AND RESULTS IN 2 TRACK GROUP MAPS IN PAGE OF CKPT STORAGE
0	(0)	X'E81200'	0	\$MAXTGS	"132649472" Max number of track groups
\$CTENT version number values					
0	(0)	X'1'	0	TGMVRSN	"1" TGM CKPT VERSION NUMBER
0	(0)	X'1'	0	SCQVRSN	"1" SCQ CKPT version number
0	(0)	X'2'	0	JIXVRSN	"2" JIX CKPT version number
0	(0)	X'2'	0	PSTVRSN	"2" PST CKPT VERSION NUMBER
0	(0)	X'1'	0	RSOVRSN	"1" RSO CKPT VERSION NUMBER
Establish MVS EQU's and globals					
...1 1...				IECITMOD	"X'18'" HASP ATTENTION INDEX

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>\$MAXACCT represents the maximum number of characters allowed on an MVS JOB statement accounting string. In internal format, \$MAXACCT+2 bytes are required to hold the string (a one byte counter of the number of subfields, and the one byte length of the first subfield. the length fields for the second and subsequent subfields do not require an extra byte as there was previously a one byte comma separating the subfields).</p>					
0	(0) X'8F'		0	\$MAXACCT	"143" Max number of characters allowed for accounting on an MVS JOB statement
0	(0) X'3'		0	\$MINEMID	"3" Minimum length of EMAIL id (RACF limit)
0	(0) X'F6'		0	\$MAXEMID	"246" Maximum length of EMAIL id (RACF limit)
\$TRACE record formatting keys					
0	(0) X'0'		0	\$TRK000D	"0" UNLABELED DUMP FORMAT
Checkpoint disposition					
	1...			\$CKPAMWS	"X'80'" All member warm start in progress
	.1..			\$CKPSPVL	"X'40'" Track group map rebuild in progress
	..1.			\$CKPLOKB	"X'20'" OPERATOR BYPASSED LOCK
EQU X'10' RESERVED FOR FUTURE USE					
	.... 1...			\$CKPDAMG	"X'08'" CHECKPOINT READ WAS DAMAGED
<p>\$CKPERRQ X'04' This bit used in 5.1 (cannot use in 5.2)</p>					
	.... ..1.			\$CKPBLDQ	"X'02'" JOB QUEUE REBUILT
<p>\$CKPERRJ X'01' This bit used in 5.1 (cannot use in 5.2) Checkpoint recovery dialog flags</p>					
	1...			\$CKRTOP	"B'10000000'" THIS SYSTEM HAS HIGHEST CKP
	.1..			\$CKRNTOP	"B'01000000'" THIS SYSTEM DOES NOT HAVE HIGHEST CHECKPOINT
	..1.			\$CKRCKP1	"B'00100000'" CKPT1 FILE IS ACTIVE
	...1			\$CKRNKP1	"B'00010000'" CKPT1 FILE IS NOT ACTIVE
	.... 1...			\$CKRCKP2	"B'00001000'" CKPT2 FILE IS ACTIVE
	.... .1..			\$CKRNKP2	"B'00000100'" CKPT2 FILE IS NOT ACTIVE
	.... ..1.			\$CKRIOE	"B'00000010'" PROCESSING I/O ERROR
	.... ...1			\$CKRNIOE	"B'00000001'" NOT PROCESSING I/O ERROR
<p>THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS \$CKRIOE OR \$CKRNIOE. (MAPPED OVER \$CKRTOP AND \$CKRNTOP FOR THE HASP273 MESSAGE)</p>					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$CKRSTRT	"B'10000000'" CHECKPOINT FILE BEING PLACED BACK INTO SERVICE (OPTION 7 OR 8) RESPONSE TO HASP271/272
		.1.. ..		\$CKRNSTR	"B'01000000'" CHECKPOINT FILE BEING ASSIGNED TO NEWCKPTN
THESE NEXT TWO BIT DEFINITIONS MUST BE MAPPED OVER \$CKRSTRT AND \$CKRNSTR FOR THE HASP282 AND HASP278 MESSAGES					
		1... ..		\$CKRDEL	"B'10000000'" DELETE OPTION VALID
		.1.. ..		\$CKRNDEL	"B'01000000'" DELETE OPTION IS NOT VALID
Extension area mapping					
0	(0)	X'0'	0	\$JEXTTGN	"0,2,C'H'" TRACK GROUP NUMBER, MUST BE 1ST
0	(0)	X'2'	0	\$JEXTLEN	"L'\$JEXTTGN" LENGTH OF EXTENSION AREA
		1... ..		\$JEXTFRE	"X'80'" Extension area is free if high order bit is on
0	(0)	BITSTRING	0	\$JEXTMAX	"X'7FFF'" Maximum TG count in JQT or in JQETGNUM
Equates used to mark the extra control bytes to reflect how the page was last updated. Algorithms in JES2 depend on the first four equates residing in the low nibble of the control byte					
		.... ...1		CKPCLCKP	"B'00000001'" \$CKPT ROUTINE MARKED PAGE
		.... ..1		CKPCLRDC	"B'00000010'" IN KAFTRD2, CHLOG ON OTHER
		.... .1..		CKPCLRDP	"B'00000100'" IN KAFTRD2, 4K PG ON OTHER
		.... 1...		CKPCLBCL	"B'00001000'" IN KBLDCHLG, IN OUR CHLOG
		.... 1111		CKPCLMRK	"B'00001111'" MARKED BY HASPCKAP SUBTASK (ALSO USED TO TEST LOW NIBBLE)
		1... ..		CKPCLCRW	"B'10000000'" PAGE UPDATED FOR CURRENT I/O
		.1.. ..		CKPCLCMW	"B'01000000'" PAGE UPDATED SINCE LAST PRIMARY WRITE IN THIS CYCLE
Requests types for the CKPT DASD/CF subtask (Must be the same as those in \$HASPEQP)					
0	(0)	X'1'	0	CKREQ_T1IO	"1" ID for track 1 I/O
0	(0)	X'2'	0	CKREQ_READ2	"2" ID for READ2 request
0	(0)	X'3'	0	CKREQ_WRITE	"3" ID for WRITE request
0	(0)	X'4'	0	CKREQ_LOCK	"4" ID for lock/RESERVE req
0	(0)	X'5'	0	CKREQ_UNLCK	"5" ID for unlock/RELEASE req
0	(0)	X'6'	0	CKREQ_FMT	"6" ID for FORMAT request
0	(0)	X'7'	0	CKREQ_EXTND	"7" ID for extend request
0	(0)	X'8'	0	CKREQ_REALC	"8" ID for reallocate request (DASD CKPT only)
JES processing subpools					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	\$SP0	"0" General purpose subpool
0	(0)	X'1'	0	\$SP1	"1" General subpool (\$GETWORK)
0	(0)	X'4'	0	CKPTPOOL	"4" Subpool for CKC/CKB
0	(0)	X'5'	0	BATPOOL	"5" Subpool for BAT
0	(0)	X'6'	0	BSCPPOOL	"6" Subpool for BSC
0	(0)	X'7'	0	CBPOOL	"7" Subpool for Control Blocks
0	(0)	X'8'	0	HASPPPOOL	"8" Subpool for HASP Buffers
0	(0)	X'9'	0	NATPOOL	"9" Subpool for NAT
0	(0)	X'A'	0	B32KPOOL	"10" Subpool for 32K buffers
0	(0)	X'B'	0	NMAPPOOL	"11" Subpool for NMAP
0	(0)	X'C'	0	NSAPPOOL	"12" Subpool for NSA
0	(0)	X'D'	0	NTQPOOL	"13" Subpool for NTQ
0	(0)	X'E'	0	PAGEPOOL	"14" Subpool for PAGE Buffers
0	(0)	X'F'	0	PPPPOOL	"15" Subpool for PP Buffers
0	(0)	X'10'	0	VTAMPOOL	"16" Subpool for VTAM Buffers
0	(0)	X'11'	0	XRQPOOL	"17" Subpool for XCF requests
0	(0)	X'12'	0	SMFPPOOL	"18" Subpool for SMF requests
0	(0)	X'13'	0	CFPOOL	"19" Subpool for CF data
0	(0)	X'14'	0	CMBPOOL	"20" Subpool for CMBs
0	(0)	X'15'	0	PLXPOOL	"21" Subpool for PLX dyn areas
0	(0)	X'16'	0	HEDRPOOL	"22" Subpool for NJE hdr/tlrl buffers
0	(0)	X'17'	0	TINTPOOL	"23" Subpool for temporary CBs used during initialization
0	(0)	X'18'	0	PERFPPOOL	"24" Subpool for performance tracking related storage
0	(0)	X'19'	0	PCEPOOL	"25" Subpool for PCEs
0	(0)	X'1A'	0	ICEPOOL	"26" Subpool for ICEs
0	(0)	X'1B'	0	PSOPPOOL	"27" Subpool for PSOs
0	(0)	X'1C'	0	RNTPOOL	"28" Subpool for RNTs
0	(0)	X'1D'	0	CIDPOOL	"29" Subpool for CIDs
0	(0)	X'1E'	0	SQDPOOL	"30" Subpool for SQDs
0	(0)	X'1F'	0	GPQPOOL	"31" Subpool for GPQs
0	(0)	X'20'	0	SCWAPPOOL	"32" Subpool for Normal SCWAs
0	(0)	X'21'	0	SCWDPPOOL	"33" Subpool for Display SCWAs
0	(0)	X'22'	0	WAVEPOOL	"34" Subpool for WAVE/Entity
0	(0)	X'84'	0	\$SP132	"132" Non-fetch protected private
0	(0)	X'E5'	0	\$STSUBP	"229" SUBPOOL FOR SECURITY TOKENS FETCH PROTECTED, USER KEY
0	(0)	X'E7'	0	\$SPCSAF	"231" CSA, fetch protected, user key
0	(0)	X'E9'	0	\$SP233	"233" Fixed non-fetch protected private
0	(0)	X'F1'	0	\$ENFCSA	"241" Subpool for some ENF data
0	(0)	X'F9'	0	\$ENFPPOL	"249" Subpool for ENF parm lists High, Private, JS TCB
0	(0)	X'FC'	0	\$SP252	"252" \$GETWORK R/O subpool

Event trace formatting EQUs

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... 1..1		TRCCWSP1	"X'09'" WRITE-THEN-SPACE-1 CC
		...1 ...1		TRCCWSP2	"X'11'" WRITE-THEN-SPACE-2 CC
		...1 1..1		TRCCWSP3	"X'19'" WRITE-THEN-SPACE-3 CC
0	(0)	X'79'	0	TRCLRECL	"121" MAX LOGICAL RECORD LENGTH
Printer log area lengths					
0	(0)	X'23A'	0	DYNL3211	"570" SIZE OF 3211 LOG AREA
0	(0)	X'10E'	0	DYNL3800	"270" SIZE OF 3800 MDR AREA
0	(0)	X'250'	0	DYNL3203	"592" SIZE OF 3203 LOG AREA
0	(0)	X'250'	0	DYNL4245	"592" SIZE OF 4245 LOG AREA
0	(0)	X'100'	0	DYNL4248	"256" SIZE OF 4248 LOG AREA
OUTPUT GROUP DISPOSITION COMMON EQUATES					
		...1		\$ODPURGE	"B'00010000'" OUTDISP=PURGE
		.... 1...		\$ODWRITE	"B'00001000'" OUTDISP=WRITE
		.... .1..		\$ODHOLD	"B'00000100'" OUTDISP=HOLD
		.... ..1.		\$ODKEEP	"B'00000010'" OUTDISP=KEEP
		.... ...1		\$ODLEAVE	"B'00000001'" OUTDISP=LEAVE
0	(0)	X'F'	0	\$ODANY	"\$ODWRITE+\$ODHOLD+\$ODKEEP+\$ODLEAVE" TEST FOR OUTDISP W/O PURGE
0	(0)	X'1F'	0	\$ODANYWP	"\$ODWRITE+\$ODHOLD+\$ODKEEP+\$ODLEAVE+ \$ODPURGE" TEST FOR OUTDISP WITH PURGE
Mapping of catastrophic error user entry					
0	(0)	X'0'	0	\$ERRCDE	"0,4" POSITION/LENGTH OF CATA ERR CODE IN TABLE
0	(0)	X'4'	0	\$ERRTEXT	"4,42" POSITION/LENGTH OF CATA ERR TEXT IN TABLE
0	(0)	X'2E'	0	\$ERRENTY	"L'\$ERRCDE+L'\$ERRTEXT" LENGTH OF AN ENTRY IN TABLE
HASP \$SCAN caller id flags Users should use ids from 255 down, if needed					
0	(0)	X'1'	0	\$SCOPTS	"1" IROPTS HASP OPTIONS
0	(0)	X'2'	0	\$SCIRPL	"2" IRPL NONE-CONSOLE STMTS
0	(0)	X'3'	0	\$SCIRPLC	"3" IRPL CONSOLE STMTS
0	(0)	X'4'	0	\$SCDCMDS	"4" DISPLAY COMMANDS
0	(0)	X'5'	0	\$SCSCMDS	"5" SET COMMANDS
0	(0)	X'6'	0	\$SCDOCMD	"6" SHORT DISPLAY FORM
0	(0)	X'7'	0	\$SCSTCMD	"7" START COMMANDS
0	(0)	X'8'	0	\$SCPCMDS	"8" STOP COMMANDS
0	(0)	X'9'	0	\$SCDDIAL	"9" DIALOG DISPLAY FORM
0	(0)	X'A'	0	\$SCSDIAL	"10" DIALOG SET FORM
0	(0)	X'B'	0	\$SCECMDS	"11" RESET COMMANDS (list)
0	(0)	X'C'	0	\$SCACMDS	"12" ADD COMMANDS
0	(0)	X'D'	0	\$SCRCMDS	"13" DELETE COMMANDS
0	(0)	X'E'	0	\$SCIDIAL	"14" DIALOG (INITIALIZATION)
0	(0)	X'F'	0	\$SCLTCMD	"15" Output long display

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	\$SCECMDA	"16" RESET COMMANDS (single)
0	(0)	X'11'	0	\$SCZCMDS	"17" HALT commands
0	(0)	X'12'	0	\$SCHCMDS	"18" HOLD commands
0	(0)	X'13'	0	\$SCRCLCMD	"19" RELEASE commands
0	(0)	X'14'	0	\$SCCCMDS	"20" CANCEL commands
0	(0)	X'15'	0	\$SCTOCMD	"21" \$T0 commands
0	(0)	X'16'	0	\$SCCOCMD	"22" \$C0 commands
0	(0)	X'17'	0	\$SCPOCMD	"23" \$P0 commands
0	(0)	X'18'	0	\$SCOCMDS	"24" \$0 command
0	(0)	X'19'	0	\$SCLOCMD	"25" Output short display
0	(0)	X'1A'	0	\$SCLCMDS	"26" \$L command
0	(0)	X'1B'	0	\$SCACTCM	"27" \$ACTIVATE command
0	(0)	X'1C'	0	\$SCZAPCM	"28" \$ZAP command
0	(0)	X'1D'	0	\$SCMGCMD	"29" \$MIGRATE command
0	(0)	X'1E'	0	\$SCPYCMD	"30" \$POLICY command
0	(0)	X'1F'	0	\$SCVRCMD	"31" \$VERIFY command
HASP \$SCAN PRE/POST scan call types Passed into PRE/POST scans in R2					
0	(0)	X'0'	0	\$SCNPRE	"0" PRE-SCAN routine call
0	(0)	X'4'	0	\$SCNPOST	"4" Post SCAN routine call
0	(0)	X'8'	0	\$SCNCLN	"8" Cleanup routine call
HASP \$SCAN warning mask equates					
		1...		\$SCWOBS	"B'10000000'" WARN FOR OBSOLETE PARAMETERS
		.1..		\$SCWHOTS	"B'01000000'" WARN FOR HOT START
		..11 11..		\$SCWIBM	"B'00111100'" RESERVED FOR FUTURE USE
		.... ..11		\$SCWINST	"B'00000011'" RESERVED FOR INSTALLATION
HASP command PCE id/seq equates					
0	(0)	X'0'	0	\$CMDNORM	"0" Normal command processor
0	(0)	X'1'	0	\$CMDDYNA	"1" Dynamic LOADMOD/exit PCE
0	(0)	X'2'	0	\$CMDLIMIT	"2" Resource LIMITS command PCE
0	(0)	X'3'	0	\$CMDNUM	"3" Number of command PCEs
HASP \$SCAN diagnostic level table equate values					
0	(0)	X'0'	0	SDLTBADD	"0,4,C'A'" ADDR OF THE KEYWORD BACKUP AREA
0	(0)	X'4'	0	SDLTLEN	"4" LEN OF DIAG LVL TABLE ENTRY
0	(0)	X'A'	0	SDLTNUM	"10" Number of SDLT entries (one is reserved to end the table and will never point to a backup area)
Equates for \$GETABLE/\$RETABLE/\$PUTABLE to process table type tables in HTABTAB					
0	(0)	X'0'	0	HTABTEL	"0,2" TABLE ENTRY LENGTH

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0) X'2'		0	HTABTMCT	"2,2" OFFSET OF MCT ADDR PAIR
0	(0) X'4'		0	HTABTUFB	"4,2" OFFSET OF ENTRY FLAG BYTE IN WHICH X'80' INDICATES USER ENTRY
0	(0) X'6'		0	HTABTIDF	"6,2" OFFSET OF ENTRY ID FIELD
0	(0) X'8'		0	HTABTIDL	"8,1" ENTRY ID LENGTH INDICATION (ID LENGTH in bytes)
0	(0) X'9'		0	HTABFLGB	"9,1" Flag byte
	1...			HTABFTRQ	"B'10000000'" Table pair offset must be passed in
	.1..			HTABFOFF	"B'01000000'" HTABTEL contains offset of halfword field containing length of the entry (aka offset to next entry)
	..1.			HTABFADD	"B'00100000'" HTABTEL contains offset of field containing address of next entry in the table
	...1			HTABF0TB	"B'00010000'" Load next pointer from 1st table entry in table
	.... 1...			HTABFNCK	"B'00001000'" Don't check for zeroes in last table=end entry
0	(0) X'A'		0	HTABTABL	"10" LENGTH OF HTABTAB ENTRY
HASP \$SCAN equates for indexing into the dynamic diagnostic error messages					
0	(0) X'0'		0	DIAGADDR	"0,4" ADDRESS OF THE DIAGNOSTIC TEMPLATE
0	(0) X'4'		0	DIAGKLOC	"4,1" LEN INTO THE PHRASE WHERE OPERAND IS TO BE PLACED
0	(0) X'5'		0	DIAGKLEN	"5,1" MAX LEN OF OPERAND TO BE PLACED
Equates for dynamic tables					
0	(0) X'0'		0	PAIRUSER	"0,4" User table
0	(0) X'4'		0	PAIRHASP	"4,4" HASP table
0	(0) X'8'		0	PAIRDYN	"8,4" Dynamic table (pointer to cell)
0	(0) X'C'		0	PAIRLEN	"12" Table pair length
Dynamic cell mapping					
0	(0) X'0'		0	DYNT EYE	"0,4,C'C'" Eyecatcher
0	(0) X'4'		0	DYNTNEXT	"4,4" Pointer to next cell
0	(0) X'8'		0	DYNTTAB	"8,4" Pointer to table
0	(0) X'C'		0	DYNTLMT	"12,4" Pointer to containing LMT
0	(0) X'10'		0	DYNTTYPE	"16,1" Table type (see MTETBTYP)
0	(0) X'18'		0	DYNTLEN	"24" Length of dynamic table cell
HASP \$SCAN equates for index into the diagnostic msg table base on the reason codes					
0	(0) X'4'		0	SCNDR01	"4,4" PTR TO DIAGINV MESSAGE ADDR
0	(0) X'8'		0	SCNDR03	"SCNDR01+4,4" PTR TO DIAGNSP MESSAGE ADDR
0	(0) X'C'		0	SCNDR04	"SCNDR03+4,4" PTR TO DIAGSSER MESSAGE ADDR

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	SCNDR05	"SCNDR04+4,4" PTR TO DIAGVERR MESSAGE ADDR
0	(0)	X'14'	0	SCNDR06	"SCNDR05+4,4" PTR TO DIAGIVAL MESSAGE ADDR
0	(0)	X'18'	0	SCNDR07	"SCNDR06+4,4" PTR TO DIAGRTYP MESSAGE ADDR
0	(0)	X'1C'	0	SCNDR08	"SCNDR07+4,4" PTR TO DIAGBRAN MSG ADDR
0	(0)	X'20'	0	SCNDR09	"SCNDR08+4,4" PTR TO DIAGSRNG MESSAGE ADDR
0	(0)	X'24'	0	SCNDR10	"SCNDR09+4,4" PTR TO DIAGLRNG MESSAGE ADDR
0	(0)	X'28'	0	SCNDR11	"SCNDR10+4,4" PTR TO DIAGDCOR MESSAGE ADDR
0	(0)	X'2C'	0	SCNDR12	"SCNDR11+4,4" PTR TO DIAGROM MESSAGE ADDR
0	(0)	X'30'	0	SCNDR13	"SCNDR12+4,4" PTR TO DIAGVND MESSAGE ADDR
0	(0)	X'34'	0	SCNDR14	"SCNDR13+4,4" PTR TO DIAGMLDX MESSAGE ADDR
0	(0)	X'38'	0	SCNDR17	"SCNDR14+4,4" PTR TO DIAGIRTE MESSAGE ADDR
0	(0)	X'3C'	0	SCNDR18	"SCNDR17+4,4" PTR TO DIAGIRC MESSAGE ADDR
0	(0)	X'40'	0	SCNDR19	"SCNDR18+4,4" PTR TO DIAGIACT MESSAGE ADDR
0	(0)	X'44'	0	SCNDR21	"SCNDR19+4,4" PTR TO DIAGIRDV MESSAGE ADDR
0	(0)	X'48'	0	SCNDR22	"SCNDR21+4,4" PTR TO DIAGNULI MESSAGE ADDR
0	(0)	X'4C'	0	SCNDR23	"SCNDR22+4,4" PTR TO DIAGCMT MESSAGE ADDR
0	(0)	X'50'	0	SCNDR24	"SCNDR23+4,4" PTR TO DIAGGMER MESSAGE ADDR
0	(0)	X'54'	0	SCNDR25	"SCNDR24+4,4" PTR TO DIAGDERR MESSAGE ADDR
0	(0)	X'58'	0	SCNDR26	"SCNDR25+4,4" PTR TO DIAGABND MESSAGE ADDR
0	(0)	X'5C'	0	SCNDR27	"SCNDR26+4,4" PTR TO DIAGINTR MESSAGE ADDR
0	(0)	X'60'	0	SCNDR28	"SCNDR27+4,4" PTR TO DIAGCBRD MESSAGE ADDR
IDS 31 - 38, 42, 47 - 51 AND 60 - 61 RESERVED FOR \$MODCHK					
0	(0)	X'64'	0	SCNDR39	"SCNDR28+4,4" PTR TO DIAGINCM MESSAGE ADDR
0	(0)	X'68'	0	SCNDR40	"SCNDR39+4,4" PTR TO DIAGMWTO MESSAGE ADDR
0	(0)	X'6C'	0	SCNDR41	"SCNDR40+4,4" PTR TO DIAGSPIN MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 42 FOR \$MODCHK					
0	(0)	X'70'	0	SCNDR43	"SCNDR41+4,4" PTR TO DIAGMTTB MESSAGE ADDR
0	(0)	X'74'	0	SCNDR44	"SCNDR43+4,4" PTR TO DIAGOBS MESSAGE ADDR

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'78'	0	SCNDR45	"SCNDR44+4,4" PTR TO DIAGHOT MESSAGE ADDR
0	(0)	X'7C'	0	SCNDR46	"SCNDR45+4,4" PTR TO DIAGWARN MESSAGE ADDR
0	(0)	X'80'	0	SCNDR52	"SCNDR46+4,4" PTR TO DIAGNFL MESSAGE ADDR
0	(0)	X'84'	0	SCNDR54	"SCNDR52+4,4" PTR TO DIAGINOD MESSAGE ADDR
0	(0)	X'88'	0	SCNDR55	"SCNDR54+4,4" PTR TO DIAGACTE MESSAGE ADDR
0	(0)	X'8C'	0	SCNDR56	"SCNDR55+4,4" PTR TO DIAGNFLC MESSAGE ADDR
0	(0)	X'90'	0	SCNDR57	"SCNDR56+4,4" PTR TO DIAGTMO MESSAGE ADDR
0	(0)	X'94'	0	SCNDR58	"SCNDR57+4,4" PTR TO DIAGGENE MESSAGE ADDR
0	(0)	X'98'	0	SCNDR59	"SCNDR58+4,4" PTR TO DIAGIAER MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 60 FOR \$MODCHK THIS SPACE IS RESERVED FOR REASON CODE 61 FOR \$MODCHK					
0	(0)	X'9C'	0	SCNDR62	"SCNDR59+4,4" PTR TO DIAGCONV MSG ADDR
0	(0)	X'A0'	0	SCNDR63	"SCNDR62+4,4" PTR TO DIAGFCST MSG ADDR
0	(0)	X'A4'	0	SCNDR64	"SCNDR63+4,4" PTR TO DIAGNOPM MSG ADDR
0	(0)	X'A8'	0	SCNDR65	"SCNDR64+4,4" PTR TO DIAGUNSD MSG ADDR
0	(0)	X'AC'	0	SCNDR66	"SCNDR65+4,4" PTR TO DIAGNXST MSG ADDR
0	(0)	X'B0'	0	SCNDR67	"SCNDR66+4,4" PTR TO DIAGFUFD MSG ADDR
0	(0)	X'B4'	0	SCNDR68	"SCNDR67+4,4" PTR TO DIAGSSEL MSG ADDR
0	(0)	X'B8'	0	SCNDR69	"SCNDR68+4,4" PTR TO DIAGDUAL MSG ADDR
0	(0)	X'BC'	0	SCNDR70	"SCNDR69+4,4" PTR TO DIAGVVAL MSG ADDR
0	(0)	X'C0'	0	SCNDR71	"SCNDR70+4,4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4'	0	SCNDR72	"SCNDR71+4,4" PTR TO DIAGRJER MSG ADDR
0	(0)	X'C8'	0	SCNDR73	"SCNDR72+4,4" PTR TO DIAGLVL MSG ADDR
0	(0)	X'CC'	0	SCNDR74	"SCNDR73+4,4" Ptr to DIAGCKPT msg addr
0	(0)	X'D0'	0	SCNDR75	"SCNDR74+4,4" Ptr to DIAGDPLX msg addr
0	(0)	X'D4'	0	SCNDR76	"SCNDR75+4,4" PTR TO DIAGFLST MSG ADDR
0	(0)	X'D8'	0	SCNDR77	"SCNDR76+4,4" PTR TO DIAGFLRQ MSG ADDR
0	(0)	X'DC'	0	SCNDR78	"SCNDR77+4,4" PTR TO DIAGMULJ MSG ADDR
0	(0)	X'E0'	0	SCNDR79	"SCNDR78+4,4" PTR TO DIAGPSCN MSG ADDR

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'E4'	0	SCNDR80	"SCNDR79+4,4" PTR TO DIAGPSC2 MSG ADDR
0	(0)	X'E8'	0	SCNDR81	"SCNDR80+4,4" PTR TO DIAGCAUT MSG ADDR
0	(0)	X'EC'	0	SCNDR82	"SCNDR81+4,4" PTR TO DIAGFIKY MSG ADDR
0	(0)	X'F0'	0	SCNDR83	"SCNDR82+4,4" PTR TO DIAGFIDL MSG ADDR
0	(0)	X'F4'	0	SCNDR84	"SCNDR83+4,4" PTR TO DIAGBUSY MSG ADDR
0	(0)	X'F8'	0	SCNDR85	"SCNDR84+4,4" PTR TO DIAGPROT MSG ADDR
0	(0)	X'FC'	0	SCNDR86	"SCNDR85+4,4" PTR TO DIAGNOSP MSG ADDR
0	(0)	X'100'	0	SCNDR87	"SCNDR86+4,4" PTR TO DIAGGTLT MSG ADDR
0	(0)	X'104'	0	SCNDR88	"SCNDR87+4,4" PTR TO DIAGRCRG MSG ADDR
0	(0)	X'108'	0	SCNDR89	"SCNDR88+4,4" PTR TO DIAGNOCN MSG ADDR
0	(0)	X'10C'	0	SCNDR90	"SCNDR89+4,4" PTR TO DIAGSCH MSG ADDR
0	(0)	X'110'	0	SCNDR91	"SCNDR90+4,4" PTR TO DIAGSERV MSG ADDR
0	(0)	X'114'	0	SCNDR92	"SCNDR91+4,4" PTR TO DIAGDMND MSG ADDR
0	(0)	X'118'	0	SCNDR93	"SCNDR92+4,4" PTR TO DIAGNXEQ MSG ADDR
0	(0)	X'11C'	0	SCNDR94	"SCNDR93+4,4" Ptr to DIAGQERR msg addr
0	(0)	X'120'	0	SCNDR95	"SCNDR94+4,4" Ptr to DIAGNBRT msg addr
0	(0)	X'124'	0	SCNDR96	"SCNDR95+4,4" Ptr to DIAGNTSN msg addr
0	(0)	X'128'	0	SCNDR97	"SCNDR96+4,4" Ptr to DIAGLPRM msg addr
0	(0)	X'12C'	0	SCNDR98	"SCNDR97+4,4" Ptr to DIAGINCL msg addr
0	(0)	X'130'	0	SCNDR99	"SCNDR98+4,4" Ptr to DIAGPSTX msg addr
0	(0)	X'134'	0	SCNDR100	"SCNDR99+4,4" Ptr to DIAGDPRL msg addr
0	(0)	X'138'	0	SCNDR101	"SCNDR100+4,4" Ptr to DIAGSSIN msg addr
0	(0)	X'13C'	0	SCNDR102	"SCNDR101+4,4" Ptr to DIAGFXCL msg addr
0	(0)	X'140'	0	SCNDR103	"SCNDR102+4,4" Ptr to DIAGPS11 msg addr
0	(0)	X'144'	0	SCNDR104	"SCNDR103+4,4" Ptr to DIAGISCK msg addr
0	(0)	X'148'	0	SCNDR105	"SCNDR104+4,4" Ptr to DIAGDEDR msg addr
0	(0)	X'14C'	0	SCNDR106	"SCNDR105+4,4" Ptr to DIAGSRTY msg addr
0	(0)	X'150'	0	SCNDR107	"SCNDR106+4,4" Ptr to DIAGWLMY msg addr
0	(0)	X'154'	0	SCNDR108	"SCNDR107+4,4" Ptr to DIAGOQFL msg addr

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'158'	0	SCNDR109	"SCNDR108+4,4" Ptr to DIAGNFLS msg addr
0	(0)	X'15C'	0	SCNDR110	"SCNDR109+4,4" Ptr to DIAGNSLF msg addr
0	(0)	X'160'	0	SCNDR111	"SCNDR110+4,4" Ptr to DIAGNXIT msg addr
0	(0)	X'164'	0	SCNDR112	"SCNDR111+4,4" Ptr to DIAGNXCR msg addr
0	(0)	X'168'	0	SCNDR113	"SCNDR112+4,4" Ptr to DIAGINSP msg addr
0	(0)	X'16C'	0	SCNDR114	"SCNDR113+4,4" Ptr to DIAGINTC msg addr
0	(0)	X'170'	0	SCNDR115	"SCNDR114+4,4" Ptr to DIAGCYTR msg addr
0	(0)	X'174'	0	SCNDR116	"SCNDR115+4,4" Ptr to DIAGCKLN msg addr
0	(0)	X'178'	0	SCNDR117	"SCNDR116+4,4" Ptr to DIAGBRNM msg addr
0	(0)	X'17C'	0	SCNDR118	"SCNDR117+4,4" Ptr to DIAGADVF msg addr
0	(0)	X'180'	0	SCNDR119	"SCNDR118+4,4" Ptr to DIAGLGCY msg addr
0	(0)	X'184'	0	SCNDR120	"SCNDR119+4,4" Ptr to DIAGLGTR msg addr
0	(0)	X'188'	0	SCNDR121	"SCNDR120+4,4" Ptr to DIAGSMCY msg addr
0	(0)	X'18C'	0	SCNDR122	"SCNDR121+4,4" Ptr to DIAGSMTR msg addr
0	(0)	X'190'	0	SCNDR123	"SCNDR122+4,4" Ptr to DIAGBRTR msg addr
0	(0)	X'194'	0	SCNDR124	"SCNDR123+4,4" Ptr to DIAGNOFR msg addr
0	(0)	X'198'	0	SCNDR125	"SCNDR124+4,4" Ptr to DIAGCYLG msg addr
0	(0)	X'19C'	0	SCNDR126	"SCNDR125+4,4" Ptr to DIAGCYPA msg addr
0	(0)	X'1A0'	0	SCNDR127	"SCNDR126+4,4" Ptr to DIAGSPLR msg addr
0	(0)	X'1A4'	0	SCNDR128	"SCNDR127+4,4" Ptr to DIAGMMOA msg addr
0	(0)	X'1A8'	0	SCNDR130	"SCNDR128+4,4" Ptr to DIAGMMIA msg addr
0	(0)	X'1AC'	0	SCNDR131	"SCNDR130+4,4" Ptr to DIAGM22A msg addr
0	(0)	X'1B0'	0	SCNDR132	"SCNDR131+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B4'	0	SCNDR133	"SCNDR132+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B8'	0	SCNDR134	"SCNDR133+4,4" Ptr to DIAGMGEA msg addr
0	(0)	X'1BC'	0	SCNDR135	"SCNDR134+4,4" Ptr to DIAGNOCA msg addr
0	(0)	X'1C0'	0	SCNDR136	"SCNDR135+4,4" Ptr to DIAGNOCC msg addr
0	(0)	X'1C4'	0	SCNDR137	"SCNDR136+4,4" Ptr to DIAGSTUC msg addr

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'1C8'	0	SCNDR138	"SCNDR137+4,4" Ptr to DIAGVOLA msg addr
0	(0)	X'1CC'	0	SCNDR139	"SCNDR138+4,4" Ptr to DIAGRECC msg addr
0	(0)	X'1D0'	0	SCNDR140	"SCNDR139+4,4" Ptr to DIAGINAC msg addr
0	(0)	X'1D4'	0	SCNDR141	"SCNDR140+4,4" Ptr to DIAGABSC msg addr
0	(0)	X'1D8'	0	SCNDR142	"SCNDR141+4,4" Ptr to DIAGREST msg addr
0	(0)	X'1DC'	0	SCNDR143	"SCNDR142+4,4" Ptr to DIAGXTNC msg addr
0	(0)	X'1E0'	0	SCNDR144	"SCNDR143+4,4" Ptr to DIAGACMC msg addr
0	(0)	X'1E4'	0	SCNDR145	"SCNDR144+4,4" Ptr to DIAGCMDC msg addr
0	(0)	X'1E8'	0	SCNDR146	"SCNDR145+4,4" Ptr to DIAGABAC msg addr
0	(0)	X'1EC'	0	SCNDR147	"SCNDR146+4,4" Ptr to DIAGSPAC msg addr
0	(0)	X'1F0'	0	SCNDR148	"SCNDR147+4,4" Ptr to DIAGJAUT msg addr
0	(0)	X'1F4'	0	SCNDR149	"SCNDR148+4,4" Ptr to DIAGPREC msg addr
0	(0)	X'1F8'	0	SCNDR150	"SCNDR149+4,4" Ptr to DIAGNDEF msg addr
0	(0)	X'1FC'	0	SCNDR151	"SCNDR150+4,4" Ptr to DIAGNVJC msg addr
0	(0)	X'200'	0	SCNDR152	"SCNDR151+4,4" Ptr to DIAGACTI msg addr
0	(0)	X'204'	0	SCNDR153	"SCNDR152+4,4" Ptr to DIAGALR msg addr
0	(0)	X'208'	0	SCNDR154	"SCNDR153+4,4" Ptr to DIAGINT msg addr
0	(0)	X'20C'	0	SCNDR155	"SCNDR154+4,4" Ptr to DIAGTMF msg addr
0	(0)	X'210'	0	SCNDR156	"SCNDR155+4,4" Ptr to DIAGTMV msg addr
0	(0)	X'214'	0	SCNDR157	"SCNDR156+4,4" Ptr to DIAGNVD msg addr
0	(0)	X'218'	0	SCNDR158	"SCNDR157+4,4" Ptr to DIAGNFP msg addr
0	(0)	X'21C'	0	SCNDR159	"SCNDR158+4,4" Ptr to DIAGUNF msg addr
0	(0)	X'220'	0	SCNDR160	"SCNDR159+4,4" Ptr to DIAGFDM msg addr
0	(0)	X'224'	0	SCNDR161	"SCNDR160+4,4" Ptr to DIAGVTL msg addr
0	(0)	X'228'	0	SCNDR162	"SCNDR161+4,4" Ptr to DIAGKTL msg addr
0	(0)	X'22C'	0	SCNDR163	"SCNDR162+4,4" Ptr to DIAGVDT msg addr
0	(0)	X'230'	0	SCNDR164	"SCNDR163+4,4" Ptr to DIAGBTE msg addr
0	(0)	X'234'	0	SCNDR165	"SCNDR164+4,4" Ptr to DIAGJSH msg addr

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'238'	0	SCNDR166	"SCNDR165+4,4" Ptr to DIAGJXP msg addr
0	(0)	X'23C'	0	SCNDR167	"SCNDR166+4,4" Ptr to DIAGCLA msg addr
0	(0)	X'240'	0	SCNDR168	"SCNDR167+4,4" Ptr to DIAGAUTO msg addr
0	(0)	X'244'	0	SCNDR169	"SCNDR168+4,4" Ptr to DIAGMJG msg addr
0	(0)	X'248'	0	SCNDR170	"SCNDR169+4,4" Ptr to DIAGDJ1 msg addr
0	(0)	X'24C'	0	SCNDR171	"SCNDR170+4,4" Ptr to DIAGDJ2 msg addr
0	(0)	X'250'	0	SCNDR172	"SCNDR171+4,4" Ptr to DIAGDJ3 msg addr
0	(0)	X'254'	0	SCNDR173	"SCNDR172+4,4" Ptr to DIAGDJ4 msg addr
0	(0)	X'258'	0	SCNDR174	"SCNDR173+4,4" Ptr to DIAGDJ5 msg addr
0	(0)	X'25C'	0	SCNDR175	"SCNDR174+4,4" Ptr to DIAGALL msg addr
0	(0)	X'260'	0	SCNDR176	"SCNDR175+4,4" Ptr to DIAGPRLV msg addr
0	(0)	X'264'	0	SCNDR177	"SCNDR176+4,4" Ptr to DIAGPRCR msg addr
0	(0)	X'268'	0	SCNDR178	"SCNDR177+4,4" Ptr to DIAGSUSP msg addr
0	(0)	X'26C'	0	SCNDR179	"SCNDR178+4,4" Ptr to DIAGXHOU msg addr
0	(0)	X'270'	0	SCNDR180	"SCNDR179+4,4" Ptr to DIAGENCR msg addr
0	(0)	X'274'	0	SCNDR181	"SCNDR180+4,4" Ptr to DIAGINSF msg addr
0	(0)	X'278'	0	SCNDR182	"SCNDR181+4,4" Ptr to DIAG64BC msg addr
0	(0)	X'27C'	0	SCNDR183	"SCNDR182+4,4" Ptr to DIAGGRS msg addr
Parameter list for call to \$HNOTIFY and OPMAILMG Output from \$HNOTIFY and input to OPMAILMG					
0	(0)	X'0'	0	\$NTPARML	"0,32" Length of entire parm list
0	(0)	X'0'	0	\$NTNNODE	"0,8" Notify Node from JCT
0	(0)	X'8'	0	\$NTNOTUS	"8,8" Notify Userid from JCT
0	(0)	X'10'	0	\$NTNONDE	"16,8" Xmitting Node from JCT
0	(0)	X'18'	0	\$NTNOUSR	"24,8" Xmitting userid from JCT
0	(0)	X'9'	0	\$446MVER	"9,1" Checkpoint master version
0	(0)	X'A'	0	\$446CVER	"10,8" Checkpoint cold start vsn.
JOE/Writer Exclude List mapping. Be sure to update HASMJWEL if this mapping changes.					
0	(0)	X'0'	0	\$JWEPTR	"0,4,C'A'" ADDRESS OF NEXT ELEMENT
0	(0)	X'4'	0	\$JWENUM	"4,8,C'F'" NUMBER OF WRITER EXCLUDED
0	(0)	X'C'	0	\$JWEDVID	"12,3,C'C'" DEVICE ID VALUE
0	(0)	X'F'	0	\$JWEFLAG	"15,1,C'B'" Flag byte

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		\$JWELONG	"B'10000000'" \$JWENUM 8 bytes (only first 4 bytes valid if \$JWELONG is off)
		.1..		\$JWEBULK	"B'01000000'" JOE has been processed by current SAPI bulk modify request
0	(0) X'10'		0	\$JWELEN	"16" LEN OF JWEL TABLE ELEMENT
JWELTBL Anchor Equates Offset 0 (\$JWEPTR) is the address of the first JWEL for the corresponding JOE Offset 4 (\$JWECRTM) is the time stamp of the JOE creation. If this time stamp and the JOECRTME do not match, then it is known that the JWEL chain is obsolete. EQU 0,4,C'A' ADDRESS OF THE FIRST ELEMENT					
0	(0) X'0'		0	\$JWEFLG1	"0,1,C'B'" Flag bit in JWELTBL
0	(0) X'4'		0	\$JWECRTM	"4,4,C'X'" JOE creation time
0	(0) X'8'		0	\$JWETBLL	"8" Length of JWEL table anchor \$JWEFLG1 EQUATES
		1...		\$JW1NCLR	"B'10000000'" DO NOT CLEAR JWEL ELEMENTS
EQU B'01111111' Do not attempt to use other					
Constants used to process the performance data table in HASPTABS (used for the \$D PERFDATA command)					
0	(0) X'0'		0	PRFDNAME	"0,8,C'C'" Subscript type name
0	(0) X'8'		0	PRFDIND	"8,1,C'X'" Indicator for subscript
0	(0) X'1'		0	PRFDINTS	"1" INITSTAT subscript
0	(0) X'2'		0	PRFDQSUS	"2" QSUSE subscript
0	(0) X'3'		0	PRFDPCES	"3" PCESTAT subscript
0	(0) X'4'		0	PRFDSAMP	"4" SAMPDATA subscript
0	(0) X'5'		0	PRFDCPUS	"5" CPUSTAT subscript
0	(0) X'6'		0	PRFDEVNT	"6" EVENTS subscript
0	(0) X'7'		0	PRFDCKPT	"7" CKPTSTAT subscript
0	(0) X'8'		0	PRFDSUBT	"8" SUBTSTAT subscript
0	(0) X'9'		0	PRFDDEVG	"9" DEVGSTAT subscript
0	(0) X'A'		0	PRFDMIGR	"10" MIGRSTAT subscript
0	(0) X'B'		0	PRFDWS	"11" WSSTAT subscript
0	(0) X'C'		0	PRFDPCY	"12" PCYSTAT subscript
0	(0) X'D'		0	PRFDQGT	"13" QGETSTAT subscript
0	(0) X'E'		0	PRFDXREQ	"14" XREQSTAT subscript
0	(0) X'C'		0	PRFDLEN	"12" Length of table entry
The following fields define the data area returned from XCFMSTAT. This data area is always 4096 in size. The first 2 words are the count of active 'NOT OUR MAS' members and the second is the number of active 'IN OUR MAS' members. For the 'NOT OUR MAS' members, an array of member names and reason they are not thought to be our MAS is provided.					
0	(0) X'1000'		0	XCFMSIZE	"4096" Size of the data area
0	(0) X'0'		0	XCFMTHM	"0,4,C'F'" Number of active members in our group and not in our MAS

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'4'	0	XCFMUS	"4,4,C'F'" Number of active members in our group and our MAS
0	(0)	X'8'	0	XCFMLIST	"8,20,C'X'" First 'NOT US' member data
0	(0)	X'0'	0	XCFMEMMN	"0,16,C'C'" XCF member name
0	(0)	X'10'	0	XCFMEMMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11'	0	XCFMEMMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'12'	0	XCFMEMMC	"18,1,C'X'" Copy of XMAUCRF1
0	(0)	X'13'	0	XCFMEMM#	"19,1,C'X'" Member number
0	(0)	X'4'	0	XCFMRSJ2	"4" Not JES2
0	(0)	X'8'	0	XCFMRSNM	"8" Incorrect member name
0	(0)	X'C'	0	XCFMRSCS	"12" Different cold start
The following fields define the data area passed to \$BLDMSG to build the HASP565 message.					
0	(0)	X'0'	0	M565RSN	"0,1,C'X'" Reason code
0	(0)	X'1'	0	M565RND1	"1" No dedicated line (1)
0	(0)	X'2'	0	M565RND2	"2" No dedicated line (2)
0	(0)	X'3'	0	M565RNIL	"3" No idle line
0	(0)	X'4'	0	M565RNSK	"4" No socket
0	(0)	X'5'	0	M565RNDE	"5" Node name unrecognized
0	(0)	X'6'	0	M565RNPM	"6" NPM not available
0	(0)	X'7'	0	M565RBUF	"7" Buffer shortage
0	(0)	X'8'	0	M565RBUS	"8" Line busy
0	(0)	X'9'	0	M565RNET	"9" NETLNES shortage
0	(0)	X'A'	0	M565RINT	"10" Internal error
0	(0)	X'B'	0	M565RAPP	"11" APPCLU class inactive
0	(0)	X'1'	0	M565NDEN	"1,8,C'C'" Node name
0	(0)	X'9'	0	M565NSVN	"9,8,C'C'" NETSRV name
0	(0)	X'11'	0	M565LNEN	"17,8,C'C'" LINE name (optional)
The following fields define the data area passed to \$BLDMSG to build the HASP599 message.					
0	(0)	X'0'	0	\$599PIT	"0,4" PIT address
0	(0)	X'4'	0	\$599SQD	"4,4" SQD Return Code
0	(0)	X'8'	0	\$599XINI	"8,4" XINITST return code
0	(0)	X'C'	0	\$599LEN	"12" Length of work area
The following fields define the data area passed to \$BLDMSG to build the HASP791 message.					
0	(0)	X'0'	0	M791NAME	"0,4" Member name
0	(0)	X'4'	0	M791GRP	"4,8" XCF GROUP name
0	(0)	X'C'	0	M791PLX	"12,8" XCF SYSPLEX name
0	(0)	X'14'	0	M791PXID	"20,8" XCF SYSPLEX id
0	(0)	X'1C'	0	M791LEN	"28" Entry length
The following fields define the data area passed to \$BLDMSG to build the HASP710 message.					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'0'	0	M710ENT	"0,5,C'X'" Table entry (1 per member)
0	(0)	X'0'	0	M710MEM	"0,4,C'C'" Member name
0	(0)	X'4'	0	M710RSN	"4,1,C'X'" Reason code
0	(0)	X'1'	0	M710UP	"1" Member is up level
0	(0)	X'2'	0	M710DOWN	"2" Member is down level
The following fields define the data area passed to \$BLDMSG to build the HASP474 message.					
0	(0)	X'0'	0	M474ENT1	"0,12" Data area 1
0	(0)	X'C'	0	M474ENT2	"M474ENT1+L'M474ENT1,12" Data area 2
0	(0)	X'18'	0	M474BTRN	"M474ENT2+L'M474ENT2,4" CBTYPE BRTRANS
0	(0)	X'1C'	0	M474PRML	"M474BTRN+L'M474BTRN" Total length
Each of the 12-byte areas above is further mapped as follows:					
0	(0)	X'0'	0	M474ENBT	"0,4" BRTRANS address
0	(0)	X'4'	0	M474ENLO	"4,4" Low offset
0	(0)	X'8'	0	M474ENHI	"8,4" High offset
Define individual fields in each of the 2 areas					
0	(0)	X'0'	0	M474E1BT	"M474ENT1+M474ENBT,L'M474ENBT" BRTRANS addr 1
0	(0)	X'4'	0	M474E1LO	"M474ENT1+M474ENLO,L'M474ENLO" Low offset 1
0	(0)	X'8'	0	M474E1HI	"M474ENT1+M474ENHI,L'M474ENHI" High offset 1
0	(0)	X'C'	0	M474E2BT	"M474ENT2+M474ENBT,L'M474ENBT" BRTRANS addr 2
0	(0)	X'10'	0	M474E2LO	"M474ENT2+M474ENLO,L'M474ENLO" Low offset 2
0	(0)	X'14'	0	M474E2HI	"M474ENT2+M474ENHI,L'M474ENHI" High offset 2
HASP module directory entry					
0	(0)	X'0'	0	MAPNAME	"0,8" MODULE NAME
0	(0)	X'8'	0	MAPADDR	"8,4" MODULE ADDRESS
0	(0)	X'8'	0	MAPMITA	"8,4" MIT ADDRESS
0	(0)	X'C'	0	MAPBASE	"12,4" ALT MOD BASE FOR REP FACILITY
0	(0)	X'10'	0	MAPENTL	"16" MODMAP ENTRY LENGTH
0	(0)	X'10'	0	TMAPLMOD	"16,8" Load module name, in \$SCAN temporary MODMAP only
0	(0)	X'18'	0	TMAPADDC	"24,4" Address check value for dup name/addr in temp MODMAP
0	(0)	X'1C'	0	TMAPENTL	"28" Temporary MODMAP entry len
Tape label equates for offloads					
	.... .1			\$LABNL	"X'01'" NL - NON-LABELED
	.... .1.			\$LABSL	"X'02'" SL - STANDARD LABEL
	.... .1..			\$LABNSL	"X'04'" NSL - NON-STANDARD LABEL

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1.1.		\$LABSUL	"X'0A'" SUL - STANDARD USER LABEL
		...1		\$LABBLP	"X'10'" BLP - BYPASS LABEL PROCESS
		.1..		\$LABAL	"X'40'" AL - AMERICAN NATIONAL STD
		.1.. 1...		\$LABAUL	"X'48'" AUL - AMERICAN NATIONAL STD USER LABEL
Miscellaneous DYNALLOE equates					
0	(0)	BITSTRING	0	\$DYNLOCF	"X'1708'" LOCATE FAILURE REASON CODE
		.... .1..		\$DYNNEW	"X'04'" DISP=NEW TEXT VALUE
Miscellaneous WLM Equates					
0	(0)	X'E4C'	0	\$HOURPLUS	"61*60" One hour plus (61 minutes)
Equate for \$XMPOST parameter list mapping.					
0	(0)	X'0'	0	\$XMPERET	"0,4" ERRET address
0	(0)	X'4'	0	\$XMPECBP	"4,4" Address of ECB to POST
0	(0)	X'8'	0	\$XMPASCB	"8,4" Address of associated ASCB
0	(0)	X'C'	0	\$XMPECB	"12,4" ECB to POST
		1...		\$XMLOSTP	"X'80'" JES2 main task has finished processing the request. This is turned on in the high order byte of the ASCB address.
HAVT high bit definition.					
		1...		HAVTNLOG	"B'10000000'" High bit on in HAVT entry ==> no job log
\$GETWORK table element mapping					
0	(0)	X'0'	0	GTWKTSIZ	"0,4,C'F'" Size of work area
0	(0)	X'4'	0	GTWKTMSZ	"4,4,C'F'" Minimum pool user size
0	(0)	X'8'	0	GTWKTPID	"8,1,C'X'" Pool id
0	(0)	X'9'	0	GTWKTFLG	"9,1,C'B'" Storage location flag
0	(0)	X'20'	0	GTWKTANY	"\$GTWKL0C" Pool LOC=ANY
0	(0)	X'8'	0	GTWKT64	"\$GTWKL64" Pool LOC=64
0	(0)	X'10'	0	GTWKRO	"\$GTWKRO" Pool is read only
0	(0)	X'38'	0	GTWKDIS	"GTWKTANY+GTWKT64+GTWKRO" Pool discriminates
EQU 10,2 Reserved					
0	(0)	X'C'	0	GTWKTNAM	"12,4,C'C'" Normal use for pool
0	(0)	X'10'	0	GTWKTLMN	"16,4,C'C'" Last GETWORK USE= value
0	(0)	X'14'	0	GTWKT NXT	"20,8,C'A'" Address of next available work area
0	(0)	X'1C'	0	GTWKTCEL	"28,4,C'F'" Number of cells obtained
0	(0)	X'20'	0	GTWKTUSE	"32,4,C'F'" Number of cells in use
0	(0)	X'24'	0	GTWKTESZ	"36" Size of table entry
0	(0)	X'2000'	0	GTWKMAX	"4096*2" Max size of 31 bit GETWORK
0	(0)	X'40000'	0	GTWKMX64	"4096*64" Max size of 64 bit GETWORK

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
INLINE PARMLIST EQUATES Generalized inline parameter list EQUs					
0	(0)	X'0'	0	\$ILPSIZE	"0,1" OFFSET TO SIZE OF INLINE PARAMETER LIST (1 BYTE)
0	(0)	X'1'	0	\$ILPFLG1	"1,1" OFFSET TO GENERAL FLAG BYTE 1
0	(0)	X'2'	0	\$ILPFLG2	"2,1" OFFSET TO GENERAL FLAG BYTE 2
0	(0)	X'3'	0	\$ILPFLG3	"3,1" OFFSET TO GENERAL FLAG BYTE 3
SPECIFIC INLINE PARMLIST EQUATES \$\$GET macro option flags					
		1... ..		\$GTHAVNO	"B'10000000'" NO JOE RETURNED
		.1.. ..		\$GTCHNNO	"B'01000000'" NO CHAINING REQUIRED
		..1. ..		\$GTIOTYS	"B'00100000'" RETURN THE IOT TO CALLER
		...1 ..		\$GTNET	"B'00010000'" NETWORK QUEUE
		.... 1..		\$GTWRKSL	"B'00001000'" USE WORK SELECTION
		.... .1..		\$GTWSP	"B'00000100'" WSP in R1, not DCT
		.... ..1.		\$GTNOSAF	"B'00000010'" No SAF call
		.... ...1		\$GTCOUNT	"B'00000001'" Count lines/pages/bytes
\$\$GET macro more option flags (flag2)					
		1... ..		\$GTOPTIM	"B'10000000'" Optimized \$\$GET
		.1.. ..		\$GTBESTJ	"B'01000000'" Optimized \$\$GET to be run BEST JOE criteria evaluation
0	(0)	X'4'	0	\$GTPARML	"4" \$\$GET Parameter list length
GTSCREEN work selection options (hi-R1 on entry to GTSCREEN)					
		.... ...1		\$GTSKWSR	"B'00000001'" Skip a call to WSSERV
		.... ..1.		\$GTSKJPS	"B'00000010'" Skip JOE prescreening
		.... .1..		\$GTSKJPP	"B'00000100'" Skip JOE postscreening
		.... 1...		\$GTJHNSE	"B'00001000'" Treat job held as not selectable any device
\$\$POST macro option flags					
		1... ..		\$PSTMASP	"B'10000000'" RESET JOE'S JOTPOST FLAG
		.1.. ..		\$PSTKEPJ	"B'01000000'" Keep JWELs
		..1.		\$PSTNSPN	"B'00100000'" Do not post spin JOEs
0	(0)	X'0'	0	\$PSTJOE	"0" TYPE=JOE \$\$POST CALL
0	(0)	X'4'	0	\$PSTJQE	"4" TYPE=JQE \$\$POST CALL
0	(0)	X'8'	0	\$PSTXMIT	"8" TYPE=XMIT \$\$POST CALL
0	(0)	X'C'	0	\$PSTMSG	"12" TYPE=MSG \$\$POST CALL
\$\$REM MACRO OPTION FLAGS					
		1... ..		\$REMPURG	"B'10000000'" PURGE THE SPIN IOT TRACKS

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
REWAIT EQU B'01000000' Not available for use due to coexistence with SP510					
	..1.			\$REMLOCK	"B'00100000'" Caller has job lock
	...1			\$REMKPJQ	"B'00010000'" JQE must not be purged even if last JOE is being REMed
	.... 1...			\$REMLFRE	"B'00001000'" LOCK=(YES,FREE) specified \$#REM should free the lock
\$SJIOBIT macro option flags					
	1...			\$SJITEMP	"B'10000000'" TEMPORARY SJIOB REQUESTED
	.1..			\$SJIFREE	"B'01000000'" FREE SJIOB REQUESTED
	..1.			\$SJINSJB	"B'00100000'" NO SJB REQUIRED
	...1			\$SJIINIT	"B'00010000'" INIT SJIOB REQUESTED
	.... 1...			\$SJIGNYC	"B'00001000'" UNCONDITIONAL GET SJIOB
\$QJIX macro action flags					
	1...			\$JIXGET	"B'10000000'" FLAG FOR ALLOCATE JOB#
	.1..			\$JIXFREE	"B'01000000'" FLAG FOR DEALLOCATE JOB#
	..1.			\$JIXSWAP	"B'00100000'" FLAG FOR SWAP JOB NUMBER
	...1			\$JIXFOMT	"B'00010000'" FLAG FOR INITIALIZE JIX
	.... 1...			\$JIXVERI	"B'00001000'" FLAG FOR VERIFY JIX
	.... ...1			\$JIXWYES	"B'00000001'" \$WAIT IS REQUESTED FOR NEW JOB#
	.... ....			\$JIXWNO	"B'00000000'" NO \$WAIT REQUESTED FOR NEW JOB#
\$CHECK macro option flags					
	1...			\$CHECINH	"B'10000000'" INHIBIT=YES WAS SPECIFIED
	.1..			\$CHECNWA	"B'01000000'" WAIT=NO was specified
	..1.			\$CHECPST	"B'00100000'" POST=YES was specified
\$DCBDYN macro option flags					
	1...			\$BDYNATT	"B'10000000'" DCB ATTACH REQUEST
	.1..			\$BDYNDET	"B'01000000'" DCB DETACH REQUEST
\$DCTDYN macro option flags					
	1...			\$DDYNATT	"B'10000000'" DCT ATTACH REQUEST
	.1..			\$DDYNFND	"B'01000000'" DCT FIND REQUEST
\$DTEDYN macro option flags					
	1...			\$DTEPARM	"B'10000000'" PARM PARMETER SPECIFIED
	.1..			\$DTEPECB	"B'01000000'" ECB TYPE WAIT SPECIFIED
	..1.			\$DTEPCB	"B'00100000'" XECB TYPE WAIT SPECIFIED

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
\$ENTRY macro eyecatcher fields Normal \$ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Fill characters (\$\$\$)					
0	(0)	X'8'	0	\$ENTNAME	"8,8,C'C'" Routine name
0	(0)	X'10'	0	\$ENTCADR	"16,4,C'X'" Offset into \$xADDR
SSI \$ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Secondary jump or (\$\$\$)					
0	(0)	X'8'	0	\$ENTSNAM	"8,8,C'C'" Routine name
0	(0)	X'10'	0	\$ENTSDSC	"16,40,C'C'" SSI description
0	(0)	X'38'	0	\$ENTSNUM	"56,1,C'X'" SSI number
0	(0)	X'39'	0	\$ENTSFG1	"57,1,C'B'" SSI option flags
		1... ..		\$ENTS1AU	"B'10000000'" Authorized callers only
0	(0)	X'3A'	0	\$ENTSEXL	"58,2,C'H'" SS0B extension len offset
\$EXCP macro option flags					
		1... ..		\$EXCPVR	"B'10000000'" I/O VIA EXCPVR INDICATOR
		.1.. ..		\$EXCPWT	"B'01000000'" \$WAIT FOR I/O TO COMPLETE
		..1.		\$EXCPMT	"B'00100000'" Validate MTTR
		...1		\$EXCPCBI	"B'00010000'" \$EXCP called from \$CBIO
\$FRECMB macro option flags					
		1... ..		\$FCMBCNT	"B'10000000'" BUMP CMB COUNT
\$FREEBUF macro option flags					
		1... ..		\$FBUFMLT	"B'10000000'" FREE MULTIPLE BUFFERS
		.1.. ..		\$FBUF64	"B'01000000'" \$FREEBUF called in AMODE 64
\$GETBUF macro option flags					
		1... ..		\$GBUFWT	"B'10000000'" INDICATE \$WAIT ALLOWED
\$GETHP macro option flags					
		1... ..		\$GHPPFIX	"B'10000000'" Area should be page fixed
0	(0)	X'8'	0	\$GHPPRFX	"8" \$GETHP prefix length
\$GETSMFB macro options flags					
		1... ..		\$GSMFBWT	"B'10000000'" INDICATE \$WAIT ALLOWED
		.1.. ..		\$GSMFBLG	"B'01000000'" INDICATE LARGE SMF BUFFER SPECIFIED
\$JCTXnnn Macro option flags					
0	(0)	BITSTRING	0	\$JCXLOCL	"B'1000000000000000'" LOC=LOCAL specified

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
\$JQESERV Macro option flags When a flag bit is added, place a '0' in the corresponding bit position in \$JSRFLGS EQU.					
0	(0)	BITSTRING	0	\$JSRBERT	"B'1000000000000000'" BERTLOCK=YES specified
0	(0)	BITSTRING	0	\$JSRG SPL	"B'0100000000000000'" GETSPOOL=YES specified
0	(0)	BITSTRING	0	\$JSRRWAT	"B'0010000000000000'" RESWAIT=YES specified
0	(0)	BITSTRING	0	\$JSRWAIT	"B'0001000000000000'" Post when request completes
0	(0)	BITSTRING	0	\$JSRJQA	"B'0000100000000000'" A JQA was passed
0	(0)	BITSTRING	0	\$JSRFREE	"B'0000010000000000'" FREE=YES specified
0	(0)	BITSTRING	0	\$JSRTSU	"B'0000001000000000'" JQETYPE=TSU specified
0	(0)	BITSTRING	0	\$JSRSTC	"B'0000000100000000'" JQETYPE=STC specified
	1...			\$JSRMJPL	"B'0000000010000000'" MODJOB parms passed
	.1..			\$JSRGRP	"B'0000000001000000'" CKPT call job group based
	..1.			\$JSRNET	"B'0000000000100000'" CKPT call / NET based
	...1			\$JSRLMPL	"B'0000000000010000'" LIMCOPY parms passed
	.... 1111			\$JSRFLGS	"B'0000000000001111'" EQU for all flag bits. Place a '0' in bit positions used as flags. Place a '1' in unused flag bit positions.
	.... ...1			\$JSRTADD	"B'0000000000000001'" REQUEST=ADD
	.... ..1.			\$JSRTCKP	"B'0000000000000010'" REQUEST=CKPT
	.... ..11			\$JSRTMOD	"B'0000000000000011'" REQUEST=MOD
	.... .1..			\$JSRTREM	"B'0000000000000100'" REQUEST=REM
	.... .1.1			\$JSRTOBT	"B'0000000000000101'" REQUEST=OBTAIN
	.... .11.			\$JSRTFRE	"B'0000000000000110'" REQUEST=FREE
	.... .111			\$JSRTCAN	"B'0000000000000111'" REQUEST=CANCEL
	.... 1...			\$JSRTQRY	"B'0000000000001000'" REQUEST=QUERY
	.... 1..1			\$JSRTMDJ	"B'0000000000001001'" REQUEST=MODJOB
	.... 1.1.			\$JSRTLIM	"B'0000000000001010'" REQUEST=LIMITS
\$MODLOAD macro option flags					
	1...			\$MLMSGY	"B'10000000'" ISSUE DIAGNOSTIC MESSAGE
	.1..			\$MLJ2MOD	"B'01000000'" LOAD A JES2 LOAD MODULE
	..1.			\$MLDIRL	"B'00100000'" DIRECTED LOAD REQUEST
	...1			\$MLDLPA	"B'00010000'" SEARCH FOR LPA MODULE
	.... 1...			\$MLMSGI	"B'00001000'" Issue diagnostic message if the module is found but has other errors
	.... .1..			\$MLMSGS	"B'00000100'" Suppress all message processing

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		\$MLREPL	"B'00000010'" Replace existing load module
		.... ...1		\$MLREPLC	"B'00000001'" Replace/load module
\$PBLOCK macro options flags					
		1...		\$PBLKSLT	"B'10000000'" SLANT WAS SPECIFIED
		.1..		\$PBLKCTR	"B'01000000'" CENTER WAS SPECIFIED
\$PCEDYN macro option flags					
		1...		\$PDYNAT	"B'10000000'" PCE ATTACH REQUEST
		.1..		\$PDYNDT	"B'01000000'" PCE DETACH REQUEST
		..1.		\$PDYNDTT	"B'00100000'" PCE DETACH TEST REQUEST
		...1		\$PDYNALT	"B'00010000'" Alter PCEs defined
		.... 1...		\$PDYNPCE	"B'00001000'" R1 INPUT IS A PCE ADDR
		.... .1..		\$PDYNTAB	"B'00000100'" R1 INPUT IS A PTAB ADDR
		.... ..1.		\$PDYNDCT	"B'00000010'" R1 INPUT IS A DCT ADDR
0	(0) X'10'		0	\$PCEGARD	"16" Number of PCE guard bytes
PSOFRELK Service routine EQUs COMFRELK Service routine EQUs					
0	(0) X'0'		0	LEAVE_JOES_BUSY	"0" Don't unbusy any JOEs
0	(0) X'1'		0	UNBUSY_JOES	"1" Unbusy JOEs
SRXIAR64 Service routine function equates Note also defined in \$OFFSTBL					
0	(0) X'4'		0	SRX_GETSTOR	"4" SRXIAR64 request GETSTOR
0	(0) X'8'		0	SRX_DETACH	"8" SRXIAR64 request DETACH
0	(0) X'C'		0	SRX_OBT31FIX	"12" SRXIAR64 Obtain 31 bit stor
0	(0) X'10'		0	SRX_REL31FIX	"16" SRXIAR64 Release 31 bit str
0	(0) X'14'		0	SRX_PAGEFIX	"20" SRXIAR64 request PAGEFIX
0	(0) X'18'		0	SRX_PAGEUNFIX	"24" SRXIAR64 request PAGEUNFIX
\$QGET macro option flags					
		1...		\$QGTLSTC	"B'10000000'" \$OJTWSC SPECIFIED ON \$QGET ... RUN \$XEQ AND CLASS LIST QUEUES
		.1..		\$QGTLST	"B'01000000'" \$OJTWS SPECIFIED ON \$QGET RUN CLASS LIST QUEUES
		..1.		\$QGTINWS	"B'00100000'" \$INWS SPECIFIED ON \$QGET RUN CLASS LIST QUEUES
		...1		\$QGTWLMQ	"B'00010000'" \$INWLM SPECIFIED ON \$QGET RUN WLM QUEUES
0	(0) X'2E8'		0	\$QWALEN	"744" Length of the \$QGET wrkarea
\$QMOD/\$QADD macro option flags					
		1...		\$LVALONE	"B'10000000'" Don't reset job busy bits
		.1..		\$QSNPCHG	"B'01000000'" Disallow phase change
		..1.		\$NPRICHG	"B'00100000'" Do not change priority

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1		\$QMDKEEP	"B'00010000'" Keep artificial JQE
		.... 1...		\$QADJQA	"B'00001000'" Prototype JQA passed (QADD)
		.... .1..		\$QMDNX51	"B'00000100'" Bypass exit 51 call (QMOD)
		.... ..1.		\$QMDHJCT	"B'00000010'" JCT address passed (QMOD)
		.... ...1		\$QMDOVAL	"B'00000001'" Old values for class and/or service class passed (QMOD)
Reason code for TIMERROR \$DISTERRs (R9 setting)					
0	(0)	X'1'	0	\$TIMECLOC_JQECAT_1	"1" Error found at JQECAT entry
0	(0)	X'2'	0	\$TIMECLOC_JQECAT_2	"2" Error found after JQECAT machinations
0	(0)	X'3'	0	\$TIMECLOC_XIDJOB	"3" Error found in XIDJOB
0	(0)	X'4'	0	\$TIMECLOC_TIMECLOC	"4" Error found in TIMECLOC
RACROUTE reason codes					
		..1. .1..		RACDSECL	"X'24'" SECLABEL NOT ACCESSIBLE
RJOBONMG options equates					
0	(0)	X'0'	0	RJOBNOFF	"0" Msg not allowed for Offload
0	(0)	X'1'	0	RJOBOFFL	"1" Msg allowed for Offload
\$SEAS macro FUNCODE values SEATABL (HASPNUC) entries					
0	(0)	X'0'	0	\$SEANJES	"0" NOT VALID FOR CODER=JES2
0	(0)	X'1'	0	\$SEAINIT	"\$SEANJES+1" INITIALIZE SECURITY ENVIRON
0	(0)	X'2'	0	\$SEAVERC	"\$SEAINIT+1" SECURITY ENVIRON CREATE
0	(0)	X'3'	0	\$SEAVERD	"\$SEAVERC+1" SECURITY ENVIRON DELETE
0	(0)	X'4'	0	\$SEAXTRT	"\$SEAVERD+1" ENVIRON EXTRACT
0	(0)	X'5'	0	\$SEASIC	"\$SEAXTRT+1" SYSIN DATA SET CREATE
0	(0)	X'6'	0	\$SEASOC	"\$SEASIC+1" SYSOUT DATA SET CREATE
0	(0)	X'7'	0	\$SEASIP	"\$SEASOC+1" SYSIN DATA SET OPEN
0	(0)	X'8'	0	\$SEASOP	"\$SEASIP+1" SYSOUT DATA SET OPEN
0	(0)	X'9'	0	\$SEAPSO	"\$SEASOP+1" PSO DATA SET OPEN
0	(0)	X'A'	0	\$SEAPSS	"\$SEAPSO+1" PSO DATA SET SELECT
0	(0)	X'B'	0	\$SEATCAN	"\$SEAPSS+1" TSO CANCEL
0	(0)	X'C'	0	\$SEACMD	"\$SEATCAN+1" COMMAND AUTHORIZATION
0	(0)	X'D'	0	\$SEAPRT	"\$SEACMD+1" PRINTER DATA SET SELECT
0	(0)	X'E'	0	\$SEADEL	"\$SEAPRT+1" DATA SET PURGE
0	(0)	X'F'	0	\$SEANUSE	"\$SEADEL+1" NOTIFY USER TOKEN EXTRACT
0	(0)	X'10'	0	\$SEATBLD	"\$SEANUSE+1" TOKEN BUILD
0	(0)	X'11'	0	\$SEARJES	"\$SEATBLD+1" RJE SIGNON
0	(0)	X'12'	0	\$SEADEVA	"\$SEARJES+1" DEVICE AUTHORIZATION
0	(0)	X'13'	0	\$SEANJEA	"\$SEADEVA+1" NJE SYSOUT DS AUTHORIZATION
0	(0)	X'14'	0	\$SEAREXT	"\$SEANJEA+1" REVERIFY TOKEN EXTRACT

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'15'	0	\$SEARRT	"\$SEAREXT+1" RESERVED
0	(0)	X'16'	0	\$SEANEWS	"\$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17'	0	\$SEANWBL	"\$SEANEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18'	0	\$SEEVERS	"\$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19'	0	\$SEAAUD	"\$SEEVERS+1" Audit for job in error
0	(0)	X'1A'	0	\$SEADCHK	"\$SEAAUD+1" \$DESTCHK AUTH call
0	(0)	X'1B'	0	\$SEATSOC	"\$SEADCHK+1" TRACE SYSOUT DS CREATE
0	(0)	X'1C'	0	\$SEASSOC	"\$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D'	0	\$SEANSOC	"\$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E'	0	\$SEASOX	"\$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F'	0	\$SEANJEV	"\$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20'	0	\$SEAJOX	"\$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21'	0	\$SEASPBC	"\$SEAJOX+1" RESERVED
0	(0)	X'22'	0	\$SEASPBO	"\$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23'	0	\$SEASFS	"\$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24'	0	\$SEASSWM	"\$SEASFS+1" SWM Modify ALTER AUTH
0	(0)	X'25'	0	\$SEASAPI	"\$SEASSWM+1" Sysout API
0	(0)	X'26'	0	\$SEASCLA	"\$SEASAPI+1" SECLABEL affinity extract
0	(0)	X'27'	0	\$SEASCLE	"\$SEASCLA+1" DCT SECLABEL extract
0	(0)	X'28'	0	\$SEANSON	"\$SEASCLE+1" NJE signon pw extract
0	(0)	X'29'	0	\$SEADIRA	"\$SEANSON+1" Seclabel dominance
0	(0)	X'2A'	0	\$SEASPLR	"\$SEADIRA+1" SPOOL I/O AUTH check
0	(0)	X'2B'	0	\$SEAJCLS	"\$SEASPLR+1" Job class AUTH check
0	(0)	X'2C'	0	\$SEAGRPR	"\$SEAJCLS+1" Job group register AUTH chk
0	(0)	X'2D'	0	\$SEAPREC	"\$SEAGRPR+1" Dubious job precheck call
0	(0)	X'2E'	0	\$SEAEMRG	"\$SEAPREC+1" Emergency subsystem
0	(0)	X'2F'	0	\$SEAENCR	"\$SEAEMRG+1" Encryption Auth chk/ext
0	(0)	X'30'	0	\$SEAACPY	"\$SEAENCR+1" AuthorityCheck function
0	(0)	X'31'	0	\$SEAJNFY	"\$SEAACPY+1" Job notification request
If you add a new FUNCODE here then be sure to update the following line accordingly. (and also update the SEATABL in HASPNUC and the 'Security Function Table' documentation for exits 36 and 37 in the JES2 Exits book)					
0	(0)	X'30'	0	\$SEAUSED	"\$SEAACPY" Highest FUNCODE used
0	(0)	X'FF'	0	\$SEAMAX	"255" MAXIMUM SEAS FUNCODE
\$SEAS return code values					
0	(0)	X'0'	0	\$SEAOK	"0" \$SEAS RC=0
0	(0)	X'4'	0	\$SEAND	"4" \$SEAS RC=4
0	(0)	X'8'	0	\$SEAFAIL	"8" \$SEAS RC=8
0	(0)	X'C'	0	\$SEANSTO	"12" \$SEAS RC=12

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
\$TTIMER macro option flags					
	1...			\$TIMETST	"B'10000000'" TEST TIME INTERVAL
\$WSSCAN device type indicator					
	1...			\$WSFRJE	"B'10000000'" WS PROCESSING FOR REMOTE
	.1..			\$WSJSREC	"B'01000000'" WS PROCESSING FOR RECEIVERS
High order bit on					
	1...			\$EQUHBIT	"B'10000000'" TURN ON HIGH ORDER BIT
AUDSAF LOGST indicator					
0	(0) X'4'		0	\$AUDIO	"4" I/O error during purge
0	(0) X'8'		0	\$AUDLOST	"8" Lost output during restart
0	(0) X'C'		0	\$AUDDEL	"12" Job deleted during restart
0	(0) X'10'		0	\$AUDMOVE	"16" Job lost during spool move
0	(0) X'14'		0	\$AUDINER	"20" Job had error in input
0	(0) X'18'		0	\$AUDSUB	"24" Subtask error during purge
Reason Code Equates for Main Task \$ERROR calls					
0	(0) X'4'		0	\$L01R004	"4" Message too long for command area.
Reason code equates for \$ERROR (0F7 ABENDs) in the user environment When adding documentation to ABEND 0F7 in MVS System codes, use the HEX value, not the decimal value.					
0	(0) X'0'		0	\$ERRC000	"0" Unable to cancel ESTAE
0	(0) X'4'		0	\$ERRC004	"4" Attempt made to lock two SJBs at once
0	(0) X'8'		0	\$ERRC008	"8" Invalid/unclaimed cell address
	.... 11..			\$ERRC012	"X'C'" Disconnect denied - GETMAIN failure
	...1			\$ERRC016	"X'10'" Unable to write final IOT chain
	...1 11..			\$ERRC028	"X'1C'" ASXBJSVT does not contain FSVT address
	..1.			\$ERRC032	"X'20'" Unable to write JCT
	..1. .1..			\$ERRC036	"X'24'" \$SVJ lock request failed
	..1. 1...			\$ERRC040	"X'28'" Unable to obtain SJB lock
	.1.. 11..			\$ERRC076	"X'4C'" HASCTP select/terminate failure
	.1.1			\$ERRC080	"X'50'" Caller address array filled up
	.1.1 .1..			\$ERRC084	"X'54'" No entry in caller address array
	.1.1 1...			\$ERRC088	"X'58'" \$RETURN - save area has improper form

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1.1 11..		\$ERRC092	"X'5C'" Entered \$SSIEND with an outstanding \$SAVE
		.11.		\$ERRC096	"X'60'" SJF SCANSWB failed in alloc
		.11. .1..		\$ERRC100	"X'64'" Invalid grouping strings object
		.11. 1...		\$ERRC104	"X'68'" SWBTUREQ retrieve service failed in \$GASSIGN serv
		.11. 11..		\$ERRC108	"X'6C'" Invalid storage block ptr in grouping strings obj.
		.111		\$ERRC112	"X'70'" SJF keylist service failed in grouping keys service
		.111 .1..		\$ERRC116	"X'74'" Unexpected number of SWBIT buffers passed to GRPASGN
		.111 1...		\$ERRC120	"X'78'" Entered \$SSIEND with \$ESTAEs outstanding
		.111 11..		\$ERRC124	"X'7C'" SJB unlock not by lockholder
		1...		\$ERRC128	"X'80'" Not all protected buffers have been \$FREEBUFed
		1... .1..		\$ERRC132	"X'84'" Attempted to free a TRE in the \$GETHP service
		1... 1...		\$ERRC136	"X'88'" Loop in the CP00L chain in the \$CRETSAV service
		1... 11..		\$ERRC140	"X'8C'" Tried to initialize TRE when cell is not a TRE in GETTRE
		1..1		\$ERRC144	"X'90'" Error return from MVS ENQ during trace processing
		1..1 .1..		\$ERRC148	"X'94'" Truncate protected buffer failed in HFCLTRNC
		1..1 1...		\$ERRC152	"X'98'" Error detected by HASCRQUE
		1..1 11..		\$ERRC156	"X'9C'" Incorrect \$\$POST resource
		1.1.		\$ERRC160	"X'A0'" Reserved
		1.1. .1..		\$ERRC164	"X'A4'" An attempt was made to ENQ on the SVJ lock, but an unexpected RC was received
		1.1. 1...		\$ERRC168	"X'A8'" The SJB queue in the field SJBQUEUE does not point to a valid queue.
		1.1. 11..		\$ERRC172	"X'AC'" The SJB queue in the field SJBQUEUE does not point to a valid queue.
		1.11		\$ERRC176	"X'B0'" The SJB is not on the queue pointed to by SJBQUEUE.
		1.11 .1..		\$ERRC180	"X'B4'" The SJB is not on the queue
		1.11 1...		\$ERRC184	"X'B8'" Channel end appendage requested re-drive after an unrecoverable error
		1.11 11..		\$ERRC188	"X'BC'" An error was found during SJB rebuild processing.
		11..		\$ERRC192	"X'C0'" A caller of \$SJBRO did not hold the SVJ lock.
		11.. .1..		\$ERRC196	"X'C4'" SAPI CP00L query failed
		11.. 1...		\$ERRC200	"X'C8'" Fields that should be zeros in the SSS2 SS0B extension are not
		11.. 11..		\$ERRC204	"X'CC'" SJF Request error on GETDS/SAPI request

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		11.1 .1..		\$ERRC212	"X'D4'" \$CPOOL ACTION=GET failed to get specified cell
		11.1 1...		\$ERRC216	"X'D8'" \$CPOOL ACTION=FREE failed to free specified cell
		111.		\$ERRC224	"X'E0'" \$XMPPOST parm list not valid
		111. .1..		\$ERRC228	"X'E4'" FIFOENQ circular queue
		111. 1...		\$ERRC232	"X'E8'" SJB memory not available
		111. 11..		\$ERRC236	"X'EC'" \$SUBIT called in incorrect address space
		1111		\$ERRC240	"X'F0'" Unrecognized buffer type queued to NJE server
		1111 .1..		\$ERRC244	"X'F4'" CALLRTM of NETSRV main task by JES2 subtask
		1111 1...		\$ERRC248	"X'F8'" Incorrect caller of \$GETTBUF/\$FRETBUF services
		1111 11..		\$ERRC252	"X'FC'" \$GETABLE Internal error
0	(0)	BITSTRING	0	\$ERRC256	"X'100'" NJEX early init routine entered multiple times
0	(0)	BITSTRING	0	\$ERRC260	"X'104'" Notify message length error
0	(0)	BITSTRING	0	\$ERRC264	"X'108'" Unauthorized ECB detected
0	(0)	BITSTRING	0	\$ERRC268	"X'10C'" JOBVALM Parm list error
0	(0)	BITSTRING	0	\$ERRC272	"X'110'" JOBVALM TOKEN type error
0	(0)	BITSTRING	0	\$ERRC276	"X'114'" CJOBVFY NJE header error
0	(0)	BITSTRING	0	\$ERRC280	"X'118'" SPOOL offload section
0	(0)	BITSTRING	0	\$ERRC284	"X'11C'" TBL0B ENQ error
0	(0)	BITSTRING	0	\$ERRC288	"X'120'" CPOOL ENQ error
0	(0)	BITSTRING	0	\$ERRC292	"X'124'" CPOOL - Storage Debug check failed
0	(0)	BITSTRING	0	\$ERRC296	"X'128'" CPOOL - Storage overlay detected
0	(0)	BITSTRING	0	\$ERRC300	"X'12C'" \$NSSTLOK environ error
0	(0)	BITSTRING	0	\$ERRC304	"X'130'" Attempt to free subpool 0
0	(0)	BITSTRING	0	\$ERRC308	"X'134'" Unexpected length of 0
0	(0)	BITSTRING	0	\$ERRC316	"X'13C'" Multi system data retrieval JESXCF failure
0	(0)	BITSTRING	0	\$ERRC320	"X'140'" Recursive call in SSI 80
0	(0)	BITSTRING	0	\$ERRC324	"X'144'" Unexpected Error in Remote Health Checker Task
0	(0)	BITSTRING	0	\$ERRC328	"X'148'" NDH pointer is null
0	(0)	BITSTRING	0	\$ERRC332	"X'14C'" Invalid PDDB size
0	(0)	BITSTRING	0	\$ERRC336	"X'150'" \$DSERV bad DSERV pointer
0	(0)	BITSTRING	0	\$ERRC340	"X'154'" \$SCAN error detected
0	(0)	BITSTRING	0	\$ERRC344	"X'158'" Invalid CDCT device type
0	(0)	BITSTRING	0	\$ERRC348	"X'15C'" Reserved
0	(0)	BITSTRING	0	\$ERRC352	"X'160'" SJB lock not held for SPIN
0	(0)	BITSTRING	0	\$ERRC356	"X'164'" \$MGIOMSG - Incorrect channel command.
0	(0)	BITSTRING	0	\$ERRC360	"X'168'" Bitmap problem during SIGIOU processing.
0	(0)	BITSTRING	0	\$ERRC364	"X'16C'" \$BITMAP - boundary error.

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	\$ERRC368	"X'170'" CATREAD - Expected group CAT not found.
0	(0)	BITSTRING	0	\$ERRC372	"X'174'" CATTREE - Rotate right - incorrect balance factor
0	(0)	BITSTRING	0	\$ERRC376	"X'178'" DSNMSRV - bad character in dataset name
0	(0)	BITSTRING	0	\$ERRC380	"X'17C'" \$SSIBEGN HASB SJB Q error
0	(0)	BITSTRING	0	\$ERRC384	"X'180'" \$SJBFINd HASB SJB Q error
0	(0)	BITSTRING	0	\$ERRC388	"X'184'" CATREAD - unexpected TYPE or CLASS value.
0	(0)	BITSTRING	0	\$ERRC392	"X'188'" CATREAD - Unexpected CAT Cache element.
0	(0)	BITSTRING	0	\$ERRC396	"X'18C'" CATREAD - Group name mismatch.
0	(0)	BITSTRING	0	\$ERRC400	"X'190'" CATREAD - Unexpected Pseudo CAT.
0	(0)	BITSTRING	0	\$ERRC404	"X'194'" CATREAD - Error during CAT cache build.
0	(0)	BITSTRING	0	\$ERRC408	"X'198'" CATREAD - Cache expected but not present.
0	(0)	BITSTRING	0	\$ERRC412	"X'19C'" CATTREE - Rotate DBL right - incorrect balance factor
0	(0)	BITSTRING	0	\$ERRC416	"X'1A0'" CATTREE - Rotate left - incorrect balance factor
0	(0)	BITSTRING	0	\$ERRC420	"X'1A4'" CATTREE - Rotate DBL left - incorrect balance factor
0	(0)	BITSTRING	0	\$ERRC424	"X'1A8'" SJMPRJ2 - \$JQESERV request count mismatch
0	(0)	BITSTRING	0	\$ERRC428	"X'1AC'" FRETRE - attempt to free TRE not for current TCB
0	(0)	BITSTRING	0	\$ERRC432	"X'1B0'" CIMAIN - CICB address not valid
0	(0)	BITSTRING	0	\$ERRC436	"X'1B4'" SSI CLOSE - SDB lock not available
0	(0)	BITSTRING	0	\$ERRC440	"X'1B8'" PROCJZDN - Incorrect Operation type.
0	(0)	BITSTRING	0	\$ERRC444	"X'1BC'" PROCJZDN - ZJC free chain error. Free chain does not match free count.
0	(0)	BITSTRING	0	\$ERRC448	"X'1C0'" PROCJZDN - Checkpoint queues not owned.
0	(0)	BITSTRING	0	\$ERRC452	"X'1C4'" PROCJZDN - checkpointed ZOD not valid.
0	(0)	BITSTRING	0	\$ERRC456	"X'1C8'" PROCJZDN - Input object is not a ZOD.
0	(0)	BITSTRING	0	\$ERRC460	"X'1CC'" PROCJZDN - Incorrect operation code.
0	(0)	BITSTRING	0	\$ERRC464	"X'1D0'" PROCJZDN - Unaccounted character code.
0	(0)	BITSTRING	0	\$ERRC468	"X'1D4'" \$PGSRVC - Attempt to issue \$PGSRVC to address 0
0	(0)	BITSTRING	0	\$ERRC472	"X'1D8'" Jobgroup logging subtask JESXCF failure
0	(0)	BITSTRING	0	\$ERRC476	"X'1DC'" CATREAD - Zero DSERV address passed
0	(0)	BITSTRING	0	\$ERRC480	"X'1E0'" EDSCBDL - EDS AS not shut down properly

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	\$ERRC484	"X'1E4'" SAPI TCBTOKEN failed
0	(0)	BITSTRING	0	\$ERRC488	"X'1E8'" ARTABL entry lock error
0	(0)	BITSTRING	0	\$ERRC492	"X'1EC'" IAZADRP add failure
0	(0)	BITSTRING	0	\$ERRC496	"X'1F0'" FRDRREAD buffer error
0	(0)	BITSTRING	0	\$ERRC500	"X'1F4'" FRDROpen input error
0	(0)	BITSTRING	0	\$ERRC504	"X'1F8'" SYSOUT DSKEYLBL input error
0	(0)	BITSTRING	0	\$ERRC508	"X'1FC'" HASCNJST \$SUBIT failed
0	(0)	BITSTRING	0	\$ERRC512	"X'200'" \$MGENCry/ENCRyPTV setup err DSAL/NJSR/NJST RC4
0	(0)	BITSTRING	0	\$ERRC516	"X'204'" ENCRyPTV setup err RC4 DSAL
0	(0)	BITSTRING	0	\$ERRC520	"X'208'" \$MGENCry setup err RC4 NJJT
0	(0)	BITSTRING	0	\$ERRC524	"X'20C'" Requested storage greater than maximum allowed
0	(0)	BITSTRING	0	\$ERRC528	"X'210'" BLDTENT Chain Loop error
When adding documentation to ABEND 0F7 in MVS System codes, use the HEX value, not the decimal value. Reason code equates for S1E0 abends.					
0	(0)	X'4'	0	\$1E0C004	"4" Unauthorized caller for authorized only SSI
0	(0)	X'8'	0	\$1E0C008	"8" Caller cannot access passed data area
0	(0)	X'C'	0	\$1E0C012	"12" Improper SSI call setup
0	(0)	X'10'	0	\$1E0C016	"16" Invalid input
0	(0)	X'14'	0	\$1E0C020	"20" Authorization sequence err
0	(0)	X'18'	0	\$1E0C024	"24" Unauthorized space switch PC caller
Error type equates for S1E0 abends (located in R9)					
0	(0)	X'1'	0	\$1E0ET01	"1" Invalid SSCT (\$1E0C012)
0	(0)	X'2'	0	\$1E0ET02	"2" Invalid function code (\$1E0C012)
0	(0)	X'3'	0	\$1E0ET03	"3" Function code unsupported (\$1E0C012)
0	(0)	X'4'	0	\$1E0ET04	"4" No routine address (\$1E0C012)
0	(0)	X'5'	0	\$1E0ET05	"5" Authorized only allowed (\$1E0C004)
0	(0)	X'6'	0	\$1E0ET06	"6" Authorized subfunction only allowed (SSI 71) (\$1E0C004)
SAPI specific error types.					
0	(0)	X'7'	0	\$1E0ET07	"7" CP00L QCELL failed (\$1E0C016)
0	(0)	X'8'	0	\$1E0ET08	"8" Non-zero MVS CP00L ret code (\$1E0C016)
0	(0)	X'9'	0	\$1E0ET09	"9" Cell not allocated (\$1E0C016)
0	(0)	X'A'	0	\$1E0ET10	"10" SAPID for different address space (\$1E0C016)
0	(0)	X'B'	0	\$1E0ET11	"11" Terminated SAPID (\$1E0C016)
0	(0)	X'C'	0	\$1E0ET12	"12" Owning thread not us (\$1E0C016)
0	(0)	X'D'	0	\$1E0ET13	"13" Owning TCB not us (\$1E0C016)

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
IAZAKSRV (JES address keep) specific error types					
0	(0) X'E'		0	\$1E0ET14	"14" Attempt to free auth stor (\$1E0C020)
JES2AUX space switching PC error types					
0	(0) X'F'		0	\$1E0ET15	"15" SRXIAR64 caller not JES2 (\$1E0C024)
0	(0) X'10'		0	\$1E0ET16	"16" SRXIAR64 unknown request (\$1E0C024)
Equates for Debug option Flags (\$DEBGOPS and \$DEBGOP2) in the HCT. These equates are moved here because of the need of Storage Debug Flag in CPOOL. \$DEBGOP1/CCTDEBUG flags					
	1... ..			\$DBGBERT	"B'10000000'" BERT debug support
	.1.. ..			\$DBGCKPT	"B'01000000'" CKPT debug support
	..1.			\$DBGVERS	"B'00100000'" VERSION debug support
	...1			\$DBGVERB	"B'00010000'" Verbose messaging requested
	.... 1...			\$DBGSTRG	"B'00001000'" STORAGE debug support
	.... .1..			\$DBGMISC	"B'00000100'" MISC debug support (Miscellaneous)
	.... ..1.			\$DBGSYMR	"B'00000010'" SYMREC debug option
	.... ...1			\$DBGSAF	"B'00000001'" SECURITY debug option
	111. 1111			\$DGB1ONF	"B'11101111'" Flag 1 all mask
\$DEBGOP2/CCTDEBG2 flags					
	1... ..			\$DBGXCFS	"B'10000000'" XCF member status debug
	.1.. ..			\$DBGTIME	"B'01000000'" TIMECLOCK Debug option
	..1.			\$DGBCKPV	"B'00100000'" CKPT queue verification
	...1			\$DBGEDS	"B'00010000'" EDS debug
	.... 1...			\$DBGCNTB	"B'00001000'" Control block debug
	.... .1..			\$DBGPCY	"B'00000100'" Policy engine debug
	.... ..1.			\$DBGENCR	"B'00000010'" Encrypt/compress debug
	.... ...1			\$DBGSMF	"B'00000001'" SMF debug
	.111 111.			\$DGB2ONF	"B'01111110'" Flag 2 all mask
\$DEBGOP3/CCTDEBG3 flags					
	1... ..			\$DBGHPBF	"B'10000000'" HAM SDBPBF protection
	.... ....			\$DGB3ONF	"B'00000000'" Flag 3 all mask
\$DEBGOP4/CCTDEBG4 flags (currently none)					
	.... ....			\$DGB4ONF	"B'00000000'" Flag 4 all mask
Reason Codes for \$CF1 Abends detected by assembler code. Note that the reason codes detected by PLX code are defined in \$HASPEQP.					
0	(0) X'4'		0	\$CF1R004	"4" Could not read track 1

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'8'	0	\$CF1R008	"8" Could not format ckpt
0	(0)	X'C'	0	\$CF1R012	"12" Could not release lock
Reason codes 16-32 are defined in \$HASPEQP					
0	(0)	X'24'	0	\$CF1R036	"36" Could not write track 1
Reason Code Equates for CONVCON check of out-of-line area					
0	(0)	X'0'	0	\$AIDOK	"0" Area ID is syntactically valid
0	(0)	X'4'	0	\$AIDUSED	"4" Not possible
0	(0)	X'8'	0	\$AIDUTRK	"8" Not possible
0	(0)	X'C'	0	\$AIDNDEF	"12" Area ID not syntactically valid
0	(0)	X'10'	0	\$AIDNVAL	"16" Area ID not specified correctly
ABEND 068 reason codes CKPT versions subtask ABEND codes (see HASPCKVR)					
0	(0)	BITSTRING	0	AB68R104	"X'104'" Data integrity error
0	(0)	BITSTRING	0	AB68R108	"X'108'" DEBUG option detected error
General purpose subtask ABEND codes					
0	(0)	BITSTRING	0	AB68R200	"X'200'" Invalid SQD queued
NPM subtask ABEND codes					
0	(0)	BITSTRING	0	AB68R300	"X'300'" Error processing NATGET
0	(0)	BITSTRING	0	AB68R304	"X'304'" Bad work queue detected
SMF subtask ABEND codes					
0	(0)	BITSTRING	0	AB68R400	"X'400'" \$SMFBUSY queue corrupted
CKPT on DASD subtask ABEND codes					
0	(0)	BITSTRING	0	AB68R500	"X'500'" Unable to find UCB
0	(0)	BITSTRING	0	AB68R504	"X'504'" Unexpected LRA failure
CKPT on CF subtask ABEND codes (See \$CFCON)					
0	(0)	BITSTRING	0	AB68R600	"X'600'" HASPCFE eyecatcher error
0	(0)	BITSTRING	0	AB68R604	"X'604'" HASPCFFC CF write timeout
0	(0)	BITSTRING	0	AB68R608	"X'608'" HASPCFRD CFRDONE unexp RC
0	(0)	BITSTRING	0	AB68R60C	"X'60C'" HASPCFWR unexpected RC
0	(0)	BITSTRING	0	AB68R610	"X'610'" HASPCFLE bad LEID value
0	(0)	BITSTRING	0	AB68R614	"X'614'" HASPCFR2 unexpected RC
0	(0)	BITSTRING	0	AB68R618	"X'618'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R61C	"X'61C'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R620	"X'620'" HASPCFFC Unexpected RC
0	(0)	BITSTRING	0	AB68R624	"X'624'" HASPCFSI No free LAAs
0	(0)	BITSTRING	0	AB68R628	"X'628'" HASPCFRD No free LAAs
SPOOL migration subtask ABEND codes					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	AB68R700	"X'700'" Bad migrator request
0	(0)	BITSTRING	0	AB68R704	"X'704'" Bad migrator req phase 1
0	(0)	BITSTRING	0	AB68R708	"X'708'" Bad migrator req phase 2
0	(0)	BITSTRING	0	AB68R70C	"X'70C'" Unexpected RC from IXZXIXMC
0	(0)	BITSTRING	0	AB68R710	"X'710'" Bad migrator req phase can
0	(0)	BITSTRING	0	AB68R714	"X'714'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R718	"X'718'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R71C	"X'71C'" Unexpected RC from IXZXIXAC
0	(0)	BITSTRING	0	AB68R720	"X'720'" Unexpected RC from IXZXIXAC
Converter subtask ABEND codes					
0	(0)	BITSTRING	0	AB68R800	"X'800'" Error reading JSMT
0	(0)	BITSTRING	0	AB68R801	"X'801'" Error writing JSMT
JOBVALM ABEND codes					
0	(0)	BITSTRING	0	AB68R900	"X'900'" Cannot locate security tkn
ABEND 02A reason codes					
	.... .1..			AB02AR04	"X'04'" Control block error
	.... 1...			AB02AR08	"X'08'" Bad UBF or HAMSV
	.... 11..			AB02AR0C	"X'0C'" Logic error
	...1			AB02AR10	"X'10'" SETPRT error
	...1 .1..			AB02AR14	"X'14'" Bad BFDLOC value
	...1 1...			AB02AR18	"X'18'" HPUTFULL - BFDTRKQ is zero
	...1 11..			AB02AR1C	"X'1C'" INTRDR CB validation error
	..1.			AB02AR20	"X'20'" Serialization failure for int. reader PUT/ENDREQ
	..1. .1..			AB02AR24	"X'24'" Internal logic error for SVCIRD
	..1. 1...			AB02AR28	"X'28'" Non-valid M detected
	..1. 11..			AB02AR2C	"X'2C'" Invalid SCR passed on PUT
	..11			AB02AR30	"X'30'" Looping condition detected in HPUTFULL
	..11 .1..			AB02AR34	"X'34'" Looping condition detected in HAMFIX
	..11 1...			AB02AR38	"X'38'" Loop detected in HAMSIO
	..11 11..			AB02AR3C	"X'3C'" HCPBUFND detected error condition
	.1..			AB02AR40	"X'40'" Unauthorized use of authorized RPL option
	.1.. .1..			AB02AR44	"X'44'" Internal error in HAMFIX
	.1.. 1...			AB02AR48	"X'48'" Internal error in HCEPUT
	.1.. 11..			AB02AR4C	"X'4C'" Spanned record logic error
	.1.1			AB02AR50	"X'50'" Active I/O after cleanup
	.1.1 .1..			AB02AR54	"X'54'" BAT chain corrupted
	.1.1 1...			AB02AR58	"X'58'" Reserved
	.1.1 11..			AB02AR5C	"X'5C'" Corrupted Job Symbol Table
	.11.			AB02AR60	"X'60'" Symbol substitution error

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.11. .1..		AB02AR64	"X'64'" Substitution logging error
		.11. 1...		AB02AR68	"X'68'" No storage for BATs
02A ABEND reason codes x'6C' on may also be found in IAZENOBJ. Codes here should sync with IAZENOBJ.					
		.11. 11..		AB02AR6C	"X'6C'" Data BLK #2 protocol error
		.111		AB02AR70	"X'70'" Data BLK #1 protocol error
		.111 .1..		AB02AR74	"X'74'" Cursor logical blk#1 error
		.111 1...		AB02AR78	"X'78'" Record eye catcher error
		.111 11..		AB02AR7C	"X'7C'" Data BLK #2 span error
		1...		AB02AR80	"X'80'" Data BLK and record hdr mismatch error
		1... .1..		AB02AR84	"X'84'" Record # negative error
		1... 1...		AB02AR88	"X'88'" Logical block #2 not active error
		1... 11..		AB02AR8C	"X'8C'" Logical BLK #2 is active error
		1..1		AB02AR90	"X'90'" Guard 0 corruption
		1..1 .1..		AB02AR94	"X'94'" Guard 1 corruption
		1..1 1...		AB02AR98	"X'98'" Guard 2 corruption
		1..1 11..		AB02AR9C	"X'9C'" Guard 3 corruption
		1.1.		AB02ARA0	"X'A0'" Guard 4 corruption
		1.1. .1..		AB02ARA4	"X'A4'" Logical BLK2 active and BLK1 not
		1.1. 1...		AB02ARA8	"X'A8'" Oper=setup and BCFXCRYP failed initing CRYPI
		1.1. 11..		AB02ARAC	"X'AC'" Encryption unexpectedly failed
		1.11		AB02ARB0	"X'B0'" Decryption unexpectedly failed
		1.11 .1..		AB02ARB4	"X'B4'" Encryption of key token value failed
		1.11 1...		AB02ARB8	"X'B8'" Decryption of key token value failed
		1.11 11..		AB02ARBC	"X'BC'" getrec() - cursor record number greater than number of records in object
		11..		AB02ARC0	"X'C0'" getrec() - cursor record number greater than number of records in block #1 - yet object states cursor is in block #1.
		11.. .1..		AB02ARC4	"X'C4'" getrec() - logical blk #2 not active or is active and has no records.
		11.. 1...		AB02ARC8	"X'C8'" De-compress - bad return code from decompress service.
		11.. 11..		AB02ARCC	"X'CC'" replrec() - spanner and not a get type object.
		11.1		AB02LENT	"X'D0'" ENENCRPT - bad length passed to this routine
		11.1 .1..		AB02BADL	"X'D4'" ENDECRPT routine - inflate deflate mismatch
		11.1 1...		AB02GUNE	"X'D8'" Unexpected return code from oper=getreco

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		11.1 11..		AB02ARDC	"X'DC'" Unexpected return code from oper=getblk
		111.		AB02ARE0	"X'E0'" Unexpected return code from oper=primeblk
		111. .1..		AB02ARE4	"X'E4'" Unexpected return code from oper=putrec
		111. 1...		AB02ARE8	"X'E8'" Unexpected return code from oper=rtnblk
		111. 11..		AB02AREC	"X'EC'" Unexpected return code from oper=flush
		1111		AB02ARF0	"X'F0'" Unexpected return code from oper=endreq
		1111 .1..		AB02ACTE	"X'F4'" Logical block #1 active but it has no records. From oper=point.
		1111 1...		AB02CHKS	"X'F8'" Bad data block checksum encountered by oper=primeblk
		1111 11..		AB02BCNT	"X'FC'" Logical block has bad ENDNUMR. Field ENDD1ST (Dataset rec # assoc with 1st rec starting in block) was zero. Due to this ENDNUMR should have been 0 and it was not. oper=primeblk.
0	(0)	BITSTRING	0	AB02BCN2	"X'100'" Logical block has bad ENDNUMR. Field ENDD1ST (Dataset rec # assoc with 1st rec starting in block) was non zero. Due to this ENDNUMR should have been non zero and it was not. oper= primeblk.
0	(0)	BITSTRING	0	AB02BASP	"X'104'" Logical block denotes spanner and data block does not. oper=primeblk.
0	(0)	BITSTRING	0	AB02MISN	"X'108'" Logical block - spanner and data block starts with 2nd span - but record number associated with 2nd span do not match. oper=primeblk.
0	(0)	BITSTRING	0	AB02BAS2	"X'10C'" Logical block denotes it does not end in spanner and data block starts with 2nd span. oper=primeblk.
0	(0)	BITSTRING	0	AB02BADN	"X'110'" Given logical BLK the next record number for supplied data block did not match. Record continuity is broke. oper=primeblk.
0	(0)	BITSTRING	0	AB02DBNT	"X'114'" Supplied data block had bad ENDNUMR. Field ENDD1ST (Dataset rec # assoc with 1st rec starting in block) was zero. Due to this ENDNUMR should have been 0 and it was not. oper=primeblk.
0	(0)	BITSTRING	0	AB02DBN2	"X'118'" Supplied data block had bad ENDNUMR. Field ENDD1ST (Dataset rec # assoc with 1st rec starting in block) was non zero. Due to this ENDNUMR should have been non zero and it was not. oper= primeblk.
0	(0)	BITSTRING	0	AB02A11C	"X'11C'" SBWA Eyecatcher bad
0	(0)	BITSTRING	0	AB02A120	"X'120'" CLOSE during PUT
Reason code equates for \$ERROR \$MG0 abends. Migration specific - Migrator DTE was not found.					
0	(0)	X'1'	0	\$MG0C001	"1" DADMSET2 subroutine
0	(0)	X'2'	0	\$MG0C002	"2" DADMCLU2 subroutine

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'3'	0	\$MG0C003	"3" DADMSET3 subroutine
0	(0)	X'4'	0	\$MG0C004	"4" DADMCLU3 subroutine
0	(0)	X'5'	0	\$MG0C005	"5" DADMPHA1 subroutine
0	(0)	X'6'	0	\$MG0C006	"6" DADMPHA2 subroutine
0	(0)	X'7'	0	\$MG0C007	"7" DADMCLUM subroutine
0	(0)	X'8'	0	\$MG0C008	"8" SETEINFO subroutine
0	(0)	X'9'	0	\$MG0C009	"9" DADMCLU1 subroutine
0	(0)	X'A'	0	\$MG0C010	"10" DADDEB subroutine
Reason code equates for \$ERROR \$MG1 abends. Migration specific - Migrator assistant DTE not found.					
0	(0)	X'B'	0	\$MG1C011	"11" DADMSET3 subroutine
0	(0)	X'C'	0	\$MG1C012	"12" DADDEB subr - location #1
Reason code equates for \$ERROR \$I05 ABENDs. These are internal errors in various modules					
0	(0)	X'4'	0	\$I05RS04	"04" IRDA - Unexpected KTRK1I0 RC (8 or 12)
0	(0)	X'8'	0	\$I05RS08	"08" IRDA - Unexpected KTRK1I0 RC (8 or 12)
0	(0)	X'C'	0	\$I05RS12	"12" IRDA - Unexpected KTRK1I0 RC (8 or 12)
0	(0)	X'10'	0	\$I05RS16	"16" IRDA - Unexpected KTRK1I0 RC (8 or 12)
0	(0)	X'14'	0	\$I05RS20	"20" IRDA - CKPTVSIZ non-zero RC
0	(0)	X'18'	0	\$I05RS24	"24" IRDA - local KIT for NITC is not found
0	(0)	X'1C'	0	\$I05RS28	"28" IRDA - local KIT for ESQ is not found
0	(0)	X'20'	0	\$I05RS32	"32" IRDA - 4K pages increased on a HOT-START
0	(0)	X'24'	0	\$I05RS36	"36" IRDA - Unable to obtain 64 bit JES2AUX storage
0	(0)	X'28'	0	\$I05RS40	"40" SERV - local KIT for ESQ is not found
0	(0)	X'2C'	0	\$I05RS44	"44" PCY - local KIT for CDI or CDT is not found
0	(0)	X'30'	0	\$I05RS48	"48" RGR - local KIT for RGD is not found
JOB TRANSMITTER MISCELLANEOUS EQUATES					
	11..			SRCBJH	"X'C0'" JOB HEADER SRCB
	111.			SRCBDSh	"X'E0'" DATA SET HEADER SRCB
	11.1			SRCBJT	"X'D0'" JOB TRAILER SRCB
Reason code equates for HASP896 message issued on failures during DAS verification in NGVWORKQ routine.					
	.... ...1			WORKQ01	"X'01'" DASVOLID zero
	.... ..1.			WORKQ02	"X'02'" DASVOLID, RCDVOLID mismatch
	.... ..11			WORKQ03	"X'03'" Volume wrongly on workq?

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		WORKQ04	"X'04'" DASFLAG, translted. mismatch
		.... .1.1		WORKQ05	"X'05'" TRT ok, DASFLAG2 drn/hlt
		...1 ...1		WORKQ11	"X'11'" DAS, RECY flag1 mismatch
		...1 ..1.		WORKQ12	"X'12'" DAS, RECY flag2 mismatch
		...1 ..11		WORKQ13	"X'13'" DAS, RECY flag3 mismatch
		...1 .1..		WORKQ14	"X'14'" DAS, RECY flag4 mismatch
		...1 .1.1		WORKQ15	"X'15'" DAS, RECY flag5 mismatch
		...1 .11.		WORKQ16	"X'16'" DAS, RECY flag6 mismatch
		...1 .111		WORKQ17	"X'17'" DAS, RECY flag7 mismatch
		...1 1...		WORKQ18	"X'18'" DAS, RECY flag8 mismatch
		...1 1.1.		WORKQ1A	"X'1A'" DAS, RECY flagA mismatch
		..1. ...1		WORKQ21	"X'21'" DASALOCs, RCDALOCs not equ
		..1. ..1.		WORKQ22	"X'22'" DONE mask not correct on a starting volume
		..1. ..11		WORKQ23	"X'23'" DONE mask not correct on a draining/halting volume
		..1. .1..		WORKQ24	"X'24'" DASERCDE>0,DASERROR=0 mismt
		..1. .1.1		WORKQ25	"X'25'" DASERCDE=0,DASERROR>0 mismt
		..1. .11.		WORKQ26	"X'26'" DASERCDE for member = 0
		..1. .111		WORKQ27	"X'27'" DASERCDE for member > max
		..1. 1...		WORKQ28	"X'28'" DASERCDE for member > 0
Reason code equates for HASP896 message issued on failures during DAS verification in NGVTRAKQ routine.					
		.1.. ...1		TRAKQ41	"X'41'" DASVOLID zero
		.1.. ..1.		TRAKQ42	"X'42'" DASVOLID, RCDVOLID mismatch
		.1.. ..11		TRAKQ43	"X'43'" DAS not marked as in TGM
		.1.. .1..		TRAKQ44	"X'44'" DASALOCs, RCDALOCs mismatch
		.1.. .1.1		TRAKQ45	"X'45'" Mapped vol, membr allocated
		.1.. .11.		TRAKQ46	"X'46'" Unallocated membr not inact
		.1.. .111		TRAKQ47	"X'47'" DASFLAG, translted. mismatch
		.1.. 1...		TRAKQ48	"X'48'" No status flags set on active volume
		.1.. 1..1		TRAKQ49	"X'49'" No status flags set on inactive volume
		.1.. 1.1.		TRAKQ4A	"X'4A'" Draining and halting volume
		.1.1 ...1		TRAKQ51	"X'51'" DAS, RECY flag1 mismatch
		.1.1 ..1.		TRAKQ52	"X'52'" DAS, RECY flag2 mismatch
		.1.1 ..11		TRAKQ53	"X'53'" DAS, RECY flag3 mismatch
		.1.1 .1..		TRAKQ54	"X'54'" DAS, RECY flag4 mismatch
		.1.1 .1.1		TRAKQ55	"X'55'" DAS, RECY flag5 mismatch
		.1.1 .11.		TRAKQ56	"X'56'" DAS, RECY flag6 mismatch
		.1.1 .111		TRAKQ57	"X'57'" DAS, RECY flag7 mismatch
		.1.1 1...		TRAKQ58	"X'58'" DAS, RECY flag8 mismatch
		.1.1 1.1.		TRAKQ5A	"X'5A'" DAS, RECY flagA mismatch
		.11. ...1		TRAKQ61	"X'61'" DASERCDE>0,DASERROR=0 mismt
		.11. ..1.		TRAKQ62	"X'62'" DASERCDE=0,DASERROR>0 mismt

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.11. .11		TRAKQ63	"X'63'" DASERCDE for member = 0
		.11. .1..		TRAKQ64	"X'64'" DASERCDE for member > max
		.11. .1.1		TRAKQ65	"X'65'" DASERCDE for member > 0
Reason code equates for HASP896 message issued on failures during DAS verification in NGVEXTD routine.					
		1... .1.1		EXTDQ81	"X'81'" Recs/track mismatch
		1... .1.		EXTDQ82	"X'82'" Min tcelsiz mismatch
		1... .11		EXTDQ83	"X'83'" TG size mismatch
		1... .1..		EXTDQ84	"X'84'" Trk/cyl value mismatch
		1... .1.1		EXTDQ85	"X'85'" Trk/grp value mismatch
		1... .11.		EXTDQ86	"X'86'" TGM offset mismatch
		1... .111		EXTDQ87	"X'87'" First track mismatch
		1... 1...		EXTDQ88	"X'88'" Low track mismatch
		1... 1..1		EXTDQ89	"X'89'" High track mismatch
		1... 1.1.		EXTDQ8A	"X'8A'" TG value mismatch
		1... 1.11		EXTDQ8B	"X'8B'" DASMPsz value mismatch
		1... 11..		EXTDQ8C	"X'8C'" Large DS TG value
		1... 11.1		EXTDQ8D	"X'8D'" Lrg ds DASMPsz val mismatch
		1..1 ...1		EXTDQ91	"X'91'" Offline volume error
MISCELLANEOUS EQUATES					
0	(0)	X'7FFF'	0	MAXLRECL	"32767" Max logical record length
0	(0)	X'8000'	0	GETBUFSZ	"32768" oper=getrec() buffer size
0	(0)	X'8000'	0	PUTBUFSZ	"32768" oper=putrec() buffer size
		1...		SRCBFLAG	"B'10000000'" FLAG BIT ALWAYS ON IN SRCB'S
		..11		SRCBCTL	"B'00110000'" CARRIAGE CONTROL FLAGS
		..11		SRCBPAGE	"B'00110000'" PAGE CARRIAGR CONTROL FLAG
		..1.		SRCBANSI	"B'00100000'" ANSI CARRIAGE CONTROL
		...1		SRCBMCH	"B'00010000'" MACHINE CARRIAGE CONTROL
0	(0)	X'A0'	0	REGANSI	"SRCBFLAG+SRCBANSI" ANSI CARRIAGE CONTROL SRCB
		.... 11..		SRCBSPAN	"B'00001100'" SPANNED RECORD
		.... 1...		SRCB1ST	"B'00001000'" SPANNED FIRST SEGMENT
		.... .1..		SRCBMID	"B'00000100'" SPANNED MIDDLE SEGMENT
		.... 11..		SRCBLAST	"B'00001100'" SPANNED LAST SEGMENT
0	(0)	X'88'	0	SPAN1ST	"SRCBFLAG+SRCB1ST" SPANNED FIRST SEGMENT SRCB
0	(0)	X'84'	0	SPANMID	"SRCBFLAG+SRCBMID" SPANNED MIDDLE SEGMENT SRCB
0	(0)	X'8C'	0	SPANLAST	"SRCBFLAG+SRCBLAST" SPANNED LAST SEGMENT SRCB
0	(0)	X'3C'	0	XEQPHFWT	"60,4" Time that \$PJES2 will wait until 1st HASP714 issued
0	(0)	X'1E'	0	XEQPHIWT	"30,4" Time that \$PJES2 will wait between HASP714s

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'78'	0	XEQPHDWT	"120,4" Time that \$PJES2 will wait before taking dump if no progress in AS termination
0	(0)	X'19'	0	\$RSVNUM	"25" Max number of \$RVSTACKs
DILBERT Settings					
	....	...1		\$DILINDR	"X'0001" Dilbert routine called indirectly i.e. DWA processed "later"
Equates for the system affinity token					
0	(0)	X'0'	0	\$AFTMASK	"0,1" One byte portion of entire system affinity mask
0	(0)	X'1'	0	\$AFTOFF	"1,2" Offset within complete mask of the one byte portion
0	(0)	X'3'	0	\$AFTOKEN	"L'\$AFTMASK+L'\$AFTOFF" Length of a sysaff token
Equates for IXLCONN error processing These equates are referenced in CFALOC (where they are set when the error conditions are detected) and in PRE536 (to convert the bit setting into more meaningful text).					
0	(0)	BITSTRING	0	\$CONER01	"B'10000000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER02	"B'01000000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER03	"B'00100000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER04	"B'00010000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER05	"B'00001000000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER06	"B'00000100000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER07	"B'00000010000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER08	"B'00000001000000000000000000000000"
0	(0)	BITSTRING	0	\$CONER09	"B'00000000100000000000000000000000"
0	(0)	BITSTRING	0	\$CONER10	"B'00000000010000000000000000000000"
0	(0)	BITSTRING	0	\$CONER11	"B'00000000001000000000000000000000"
0	(0)	BITSTRING	0	\$CONER12	"B'00000000000100000000000000000000"
0	(0)	BITSTRING	0	\$CONER13	"B'00000000000010000000000000000000"
0	(0)	BITSTRING	0	\$CONER14	"B'00000000000001000000000000000000"
Equates for \$SPIN reasons					
0	(0)	X'0'	0	\$SPIN_OPERATOR	"0" Operator requested SPIN
0	(0)	X'4'	0	\$SPIN_TIME	"4" Time threshold reached
0	(0)	X'8'	0	\$SPIN_LINES	"8" Line threshold reached
0	(0)	X'C'	0	\$SPIN_SEGMENT	"12" SEGMENT= reached
NJE defaults					
0	(0)	X'AF'	0	\$NJETCP_PORT	"175" Well-known port for VMNET
0	(0)	X'8CC'	0	\$NJETCP_PORT_SSL	"2252" Well-known port for NJENET-SSL with secure sockets
Equates for PLX Dynamic area CP00Ls					
0	(0)	X'14'	0	\$PLXPCEL	"20" Primary cell count

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'14'	0	\$PLXSCEL	"20" Secondary cell count
General equates					
0	(0)	X'4'	0	\$MTTRLEN	"4" Size of an MTTR
0	(0)	X'6'	0	\$MQTRLEN	"6" Size of an MQTR
<p>JECL validity Equates.</p> <p>Each JECL verb (e.g. OUTPUT, JOBPARM, ROUTE) and a subset of the operands for some of the verbs will have equates here. The value of each equate will be 0-255.</p> <p>These equates will be used to index into a \$JECMAX byte vector. The values at the point in the vector will be used to determine if the verb (or operand) is valid in its context.</p> <p>The name of each equate will be in the form:</p> <p>\$JECvvoo</p> <p>where vv is the verb (see examples below) and oo is the operand for that verb</p> <p>Make sure that \$JECMAX is always at least one greater than the highest index defined.</p>					
0	(0)	X'0'	0	\$JECDE	"0" DEL
0	(0)	X'1'	0	\$JECEO	"1" EOF
0	(0)	X'2'	0	\$JECPU	"2" PURGE
0	(0)	X'3'	0	\$JECJP	"3" JOBPARM
0	(0)	X'4'	0	\$JECMS	"4" MESSAGE
0	(0)	X'5'	0	\$JECNA	"5" NETACCT
0	(0)	X'6'	0	\$JECNO	"6" NOTIFY
0	(0)	X'7'	0	\$JECOU	"7" OUTPUT
0	(0)	X'8'	0	\$JECPR	"8" PRIORITY
0	(0)	X'9'	0	\$JECRO	"9" ROUTE
0	(0)	X'A'	0	\$JECSC	"10" SCAN
0	(0)	X'B'	0	\$JECSE	"11" SETUP
0	(0)	X'C'	0	\$JECXQ	"12" XEQ
0	(0)	X'D'	0	\$JECXM	"13" XMIT
0	(0)	X'E'	0	\$JECNV	"14" Invalid JECL Statement
0	(0)	X'F'	0	\$JECOC	"15" \$ (operator command)
JOBPARM operands					
0	(0)	X'1E'	0	\$JECJPSA	"30" SYSAFF
0	(0)	X'1F'	0	\$JECJPRE	"31" RESTART
ROUTE operands					
0	(0)	X'C'	0	\$JECROXQ	"\$JECXQ" ROUTE XEQ equiv to XEQ
JES3 JECL statement					
0	(0)	X'20'	0	\$JEC3DS	"32" / DATASET
0	(0)	X'21'	0	\$JEC3ES	"33" / ENDDATASET
0	(0)	X'22'	0	\$JEC3EP	"34" / ENDPROCESS
0	(0)	X'23'	0	\$JEC3FM	"35" / FORMAT
0	(0)	X'24'	0	\$JEC3MN	"36" / MAIN
0	(0)	X'25'	0	\$JEC3NT	"37" / NET

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'26'	0	\$JEC3NA	"38" / NETACCT
0	(0)	X'27'	0	\$JEC30P	"39" / OPERATOR
0	(0)	X'28'	0	\$JEC3PA	"40" / PAUSE
0	(0)	X'29'	0	\$JEC3PR	"41" / PROCESS
0	(0)	X'2A'	0	\$JEC3RT	"42" / ROUTE
Update \$JECMAX if the maximum index value changes. \$JECMAX is one greater than the maximum index.					
0	(0)	X'2B'	0	\$JECMAX	"43" Maximum index value
Use the following equates in the vector elements to indicate whether a particular verb or operand is allowed (i.e. is "OK").					
0	(0)	X'0'	0	\$JECOK	"0" Verb or Operand is OK
0	(0)	X'4'	0	\$JECNOK	"4" Verb or Operand is not OK
The following equates define offsets into the header area of the parameter list for the IPADDR processing routine HASJIDST in HASCSJFS.					
0	(0)	X'0'	0	IPOUTLEN	"0,2" Offset of output area len
0	(0)	X'2'	0	IPCALLER	"2,2" Offset of caller type
0	(0)	X'4'	0	IPWJOA	"4,4" Offset of JOA address
0	(0)	X'4'	0	IPNODE	"IPWJOA,8" Offset of input node name
0	(0)	X'4'	0	IPRETC	"IPWJOA,4" Offset of return code
0	(0)	X'C'	0	\$IPUSER	"12,8" Offset of input userid
0	(0)	X'14'	0	IPEYE	"20,4" Offset of eye-catcher
0	(0)	X'18'	0	IPTUOUT	"24" Offset of TU output area
Checkpoint-related equates. \$PRWTHSH and \$PRWRATE are used by the KPRIMW routine in HASPCKPT to determine when a primary write is needed. The lower value (\$PRWTHSH) is used after the READ2 phase, while the higher value (\$PRWRATE) is used at all other times. The intent of the lower limit is to force a primary write at the beginning of the checkpoint cycle if we are getting close to the actual write limit, rather than waiting until we are in the middle of the checkpoint cycle.					
0	(0)	X'4'	0	\$PRWTHSH	"4" READ2 primary write threshold
0	(0)	X'A'	0	\$PRWRATE	"10" Primary write limit
\$MAX_MSTR_SIZE defines max size of a checkpoint master record for this release. (Actual size is a bit over 185 pages, but 192 pages is a nice round number - x'C0' hex.) See PL/X constant \$MAX_MSTR_SIZE in \$HASPEQP and Ckpt_MAX_LIST0_Pages in \$CFCON. To determine max size of master record, cold start JES2 with SPOOLDEF SPOOLNUM=253. Then take ((CKWMAXRC \$CTLBLEN) + (\$CTLB-\$MASTER) +4095)/ 4096 The result is the number of 4K pages to hold the max size master record.					
0	(0)	X'C0000'	0	\$MAX_MSTR_SIZE	"(192*4096)" Max master record size
0	(0)	X'A'	0	\$KITFUDG	"10" Max unknown KIT that IRDA can handle
Job Correlator length equate					

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'40'	0	\$JCORLEN	"64" Length of Job Correlator
Standard pain unit used by the automatic checkpoint tuning					
0	(0)	X'64'	0	\$PAINUNT	"100" Pain unit
JES2 release management Equates In order to manage the Homogeneity/Heterogeneity of a JESplex, it is required that each JES2 deliverable (beginning with SP 5.1.0) have a non-zero monotonic increasing association. Each new combination of VRM (Version Release Modification) will have an equated value here.					
0	(0)	X'5'	0	\$JES2510	"5" JES2 SP 5.1.0
0	(0)	X'A'	0	\$JES2520	"10" JES2 SP 5.2.0
0	(0)	X'F'	0	\$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14'	0	\$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19'	0	\$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E'	0	\$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23'	0	\$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28'	0	\$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D'	0	\$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'32'	0	\$JES2Z102	"50" JES2 z/OS 1.2
0	(0)	X'37'	0	\$JES2Z104	"55" JES2 z/OS 1.4
0	(0)	X'3C'	0	\$JES2Z105	"60" JES2 z/OS 1.5
0	(0)	X'41'	0	\$JES2Z107	"65" JES2 z/OS 1.7
0	(0)	X'46'	0	\$JES2Z108	"70" JES2 z/OS 1.8
0	(0)	X'49'	0	\$JES2Z109	"73" JES2 z/OS 1.9
0	(0)	X'4C'	0	\$JES2Z110	"76" JES2 z/OS 1.10
0	(0)	X'4F'	0	\$JES2Z111	"79" JES2 z/OS 1.11
0	(0)	X'52'	0	\$JES2Z112	"82" JES2 z/OS 1.12
0	(0)	X'55'	0	\$JES2Z113	"85" JES2 z/OS 1.13
0	(0)	X'58'	0	\$JES2Z201	"88" JES2 z/OS 2.1
0	(0)	X'5B'	0	\$JES2Z202	"91" JES2 z/OS 2.2
0	(0)	X'5E'	0	\$JES2Z203	"94" JES2 z/OS 2.3
0	(0)	X'61'	0	\$JES2Z204	"97" JES2 z/OS 2.4
0	(0)	X'64'	0	\$JES2Z205	"100" JES2 z/OS 2.5
0	(0)	X'67'	0	\$JES2Z301	"103" JES2 z/OS 3.1
0	(0)	X'6A'	0	\$JES2Z302	"106" JES2 z/OS 3.2
0	(0)	X'6A'	0	\$JES2HI	"\$JES2Z302" The highest compatible JES2 version

Table 224. Structure \$HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>JES2 product level / service level equates All product levels supported in multi-access spool with this release MUST have a \$J2Pxxx equate defined. When a release is no longer supported in a MAS, its \$J2Pxxx equate should be deleted so that obsolete \$LEVEL invocations can be identified. These equates must be equal to the &J2PLVL global variable at that release level as defined in \$MODULE and \$HASPGBL. Releases that can not live with the current level in a MAS Dropped as of OS/390 Release 10 J2P510 EQU 24 JES2 SP 5.1.0 J2P520 EQU 25 JES2 SP 5.2.0 J2P110 EQU 26 JES2 OS/390 release 1 J2P130 EQU 27 JES2 OS/390 release 3 Dropped as of z/OS 1.2 J2P240 EQU 28 JES2 OS/390 release 4</p>					
0	(0)	X'1D'	0	\$J2P250	"29" JES2 OS/390 release 5
<p>Dropped as of z/OS 1.4 J2P270 EQU 30 JES2 OS/390 release 7 Dropped as of z/OS 1.5 J2P280 EQU 31 JES2 OS/390 release 8 Dropped as of z/OS 1.7 J2P210 EQU 32 JES2 OS/390 release 10 Dropped as of z/OS 1.8 J2PZ102 EQU 33 JES2 z/OS 1.2 Dropped as of z/OS 1.9 J2PZ104 EQU 34 JES2 z/OS 1.4 Dropped as of z/OS 1.11 J2PZ105 EQU 35 JES2 z/OS 1.5 J2PZ107 EQU 36 JES2 z/OS 1.7 J2PZ108 EQU 37 JES2 z/OS 1.8 Dropped as of z/OS 1.12 J2PZ109 EQU 38 JES2 z/OS 1.9 Dropped as of z/OS 2.2 J2PZ110 EQU 39 JES2 z/OS 1.10</p>					
0	(0)	X'28'	0	\$J2PZ111	"40" JES2 z/OS 1.11
0	(0)	X'29'	0	\$J2PZ112	"41" JES2 z/OS 1.12
<p>Dropped as of z/OS 2.3 J2PZ113 EQU 42 JES2 z/OS 1.13 Dropped as of z/OS 2.4 J2PZ201 EQU 43 JES2 z/OS 2.1 Dropped as of z/OS 2.5</p>					
0	(0)	X'2C'	0	\$J2PZ202	"44" JES2 z/OS 2.2
Dropped as of z/OS 3.1					
0	(0)	X'2D'	0	\$J2PZ203	"45" JES2 z/OS 2.3
Dropped as of z/OS 3.2					
0	(0)	X'2E'	0	\$J2PZ204	"46" JES2 z/OS 2.4
0	(0)	X'2F'	0	\$J2PZ205	"47" JES2 z/OS 2.5
0	(0)	X'30'	0	\$J2PZ301	"48" JES2 z/OS 3.1
0	(0)	X'31'	0	\$J2PZ302	"49" JES2 z/OS 3.2

Table 225. Cross Reference for \$HASPEQU

Name	Offset	Hex Tag
\$AFTMASK	0	0
\$AFTOFF	0	1

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$AFTOKEN	0	3
\$AIDNDEF	0	C
\$AIDNVAL	0	10
\$AIDOK	0	0
\$AIDUSED	0	4
\$AIDUTRK	0	8
\$ALMSGSW	0	40
\$AUDDEL	0	C
\$AUDINER	0	14
\$AUDIO	0	4
\$AUDLOST	0	8
\$AUDMOVE	0	10
\$AUDSUB	0	18
\$BADADDR	0	FFFBAD
\$BDYNATT	0	80
\$BDYNDET	0	40
\$CDIDEF	0	80
\$CF1R004	0	4
\$CF1R008	0	8
\$CF1R012	0	C
\$CF1R036	0	24
\$CHECINH	0	80
\$CHECNWA	0	40
\$CHECPST	0	20
\$CKPAMWS	0	80
\$CKPBLDQ	0	2
\$CKPDAMG	0	8
\$CKPGDEF	0	64
\$CKPLOKB	0	20
\$CKPSPVL	0	40
\$CKPTIOA	0	10
\$CKPTRSV	0	1
\$CKRCKP1	0	20
\$CKRCKP2	0	8
\$CKRDEL	0	80
\$CKRIOE	0	2
\$CKRNDEL	0	40
\$CKRNIOE	0	1
\$CKRNKP1	0	10

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$CKRNKP2	0	4
\$CKRNSTR	0	40
\$CKRNTOP	0	40
\$CKRSTRT	0	80
\$CKRTOP	0	80
\$CMBDEF	0	64
\$CMDDYNA	0	1
\$CMDLIMIT	0	2
\$CMDNORM	0	0
\$CMDNUM	0	3
\$COLD	0	4
\$COLDfmt	0	1
\$CONER01	0	800000
\$CONER02	0	400000
\$CONER03	0	200000
\$CONER04	0	100000
\$CONER05	0	80000
\$CONER06	0	40000
\$CONER07	0	20000
\$CONER08	0	10000
\$CONER09	0	8000
\$CONER10	0	4000
\$CONER11	0	2000
\$CONER12	0	1000
\$CONER13	0	800
\$CONER14	0	400
\$CONFIG	0	10
\$CPNHBMX	0	190
\$CPRIMXT	0	C8
\$CSBID	0	0
\$CSBPRFX	0	8
\$CSBSPLN	0	4
\$CS2ID	0	0
\$CS2LEN	0	5
\$CS2PRFX	0	10
\$CS2SP	0	4
\$CS2SPVAL	0	8
\$DBGBERT	0	80
\$DBGCKPT	0	40

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$DBGCNTB	0	8
\$DBGEDS	0	10
\$DBGENCR	0	2
\$DBGHPBF	0	80
\$DBGMISC	0	4
\$DBGPCY	0	4
\$DBGSAF	0	1
\$DBGSMF	0	1
\$DBGSTRG	0	8
\$DBGSYMR	0	2
\$DBGTIME	0	40
\$DBGVERB	0	10
\$DBGVERS	0	20
\$DBGXCFS	0	80
\$DDYNATT	0	80
\$DDYNFND	0	40
\$DEFNZJC	0	3E8
\$DFTJOLM	0	9C4
\$DFTJOLS	0	1D4C
\$DFTRSAC	0	2
\$DFTTGLM	0	9C4
\$DFTTGLS	0	1D4C
\$DGBCKPV	0	20
\$DGB1ONF	0	EF
\$DGB2ONF	0	7E
\$DGB3ONF	0	0
\$DGB4ONF	0	0
\$DILINDR	0	1
\$DRABIT	0	1
\$DRAINED	0	20
\$DRALICE	0	2B
\$DRALOC	0	2
\$DRARMS	0	20
\$DRBERTL	0	27
\$DRBERTW	0	26
\$DRBREG	0	28
\$DRBUF	0	4
\$DRCCAN	0	24
\$DRCKPT	0	A

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$DRCKPTL	0	C
\$DRCKPTP	0	B
\$DRCKPTS	0	33
\$DRCKPTW	0	D
\$DRCMB	0	E
\$DRCNVT	0	16
\$DRCLEN	0	3F8
\$DRDAWN	0	2E
\$DRDILBERT	0	29
\$DREDSQ	0	30
\$DREOM	0	2C
\$DRFSS	0	12
\$DRGENL	0	1C
\$DRHOMOG	0	21
\$DRHOPE	0	17
\$DRIMAGE	0	3
\$DRIRCLEAN	0	2D
\$DRJCMD	0	1E
\$DRJOB	0	8
\$DRJOE	0	6
\$DRJOEI	0	2F
\$DRJOT	0	5
\$DRJQRB	0	32
\$DRLOCK	0	10
\$DRMAIN	0	11
\$DRMFMT	0	23
\$DRMLLM	0	0
\$DRNEWS	0	1B
\$DRPCETM	0	18
\$DRPROCLIB	0	22
\$DRPSO	0	13
\$DRPURGE	0	14
\$DRQUEL	0	8
\$DRRMWT	0	19
\$DRRSLBRT	0	34
\$DRRSLJOE	0	37
\$DRRSLJQE	0	35
\$DRRSLTG	0	36
\$DRSMF	0	F

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$DRSPI	0	25
\$DRSPIN	0	1D
\$DRSTAC	0	1A
\$DRTIPS	0	15
\$DRTOTAL	0	40
\$DRTRACK	0	7
\$DRTRACP	0	31
\$DRUNIT	0	9
\$DRWARM	0	1F
\$DRXMITJOB	0	2A
\$DTEPARM	0	80
\$DTEPECB	0	40
\$DTEPXCBC	0	20
\$DYNLOCF	0	1708
\$DYNNEW	0	4
\$ENFCSA	0	F1
\$ENFPOL	0	F9
\$ENTCADR	0	10
\$ENTNAME	0	8
\$ENTSDSC	0	10
\$ENTSEX	0	3A
\$ENTSFG1	0	39
\$ENTSNAM	0	8
\$ENTSNUM	0	38
\$ENTS1AU	0	80
\$ENTYLEN	0	27
\$EQUHBIT	0	80
\$ERRCDE	0	0
\$ERRC000	0	0
\$ERRC004	0	4
\$ERRC008	0	8
\$ERRC012	0	C
\$ERRC016	0	10
\$ERRC028	0	1C
\$ERRC032	0	20
\$ERRC036	0	24
\$ERRC040	0	28
\$ERRC076	0	4C
\$ERRC080	0	50

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$ERRC084	0	54
\$ERRC088	0	58
\$ERRC092	0	5C
\$ERRC096	0	60
\$ERRC100	0	64
\$ERRC104	0	68
\$ERRC108	0	6C
\$ERRC112	0	70
\$ERRC116	0	74
\$ERRC120	0	78
\$ERRC124	0	7C
\$ERRC128	0	80
\$ERRC132	0	84
\$ERRC136	0	88
\$ERRC140	0	8C
\$ERRC144	0	90
\$ERRC148	0	94
\$ERRC152	0	98
\$ERRC156	0	9C
\$ERRC160	0	A0
\$ERRC164	0	A4
\$ERRC168	0	A8
\$ERRC172	0	AC
\$ERRC176	0	B0
\$ERRC180	0	B4
\$ERRC184	0	B8
\$ERRC188	0	BC
\$ERRC192	0	C0
\$ERRC196	0	C4
\$ERRC200	0	C8
\$ERRC204	0	CC
\$ERRC212	0	D4
\$ERRC216	0	D8
\$ERRC224	0	E0
\$ERRC228	0	E4
\$ERRC232	0	E8
\$ERRC236	0	EC
\$ERRC240	0	F0
\$ERRC244	0	F4

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$ERRC248	0	F8
\$ERRC252	0	FC
\$ERRC256	0	100
\$ERRC260	0	104
\$ERRC264	0	108
\$ERRC268	0	10C
\$ERRC272	0	110
\$ERRC276	0	114
\$ERRC280	0	118
\$ERRC284	0	11C
\$ERRC288	0	120
\$ERRC292	0	124
\$ERRC296	0	128
\$ERRC300	0	12C
\$ERRC304	0	130
\$ERRC308	0	134
\$ERRC316	0	13C
\$ERRC320	0	140
\$ERRC324	0	144
\$ERRC328	0	148
\$ERRC332	0	14C
\$ERRC336	0	150
\$ERRC340	0	154
\$ERRC344	0	158
\$ERRC348	0	15C
\$ERRC352	0	160
\$ERRC356	0	164
\$ERRC360	0	168
\$ERRC364	0	16C
\$ERRC368	0	170
\$ERRC372	0	174
\$ERRC376	0	178
\$ERRC380	0	17C
\$ERRC384	0	180
\$ERRC388	0	184
\$ERRC392	0	188
\$ERRC396	0	18C
\$ERRC400	0	190
\$ERRC404	0	194

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$ERRC408	0	198
\$ERRC412	0	19C
\$ERRC416	0	1A0
\$ERRC420	0	1A4
\$ERRC424	0	1A8
\$ERRC428	0	1AC
\$ERRC432	0	1B0
\$ERRC436	0	1B4
\$ERRC440	0	1B8
\$ERRC444	0	1BC
\$ERRC448	0	1C0
\$ERRC452	0	1C4
\$ERRC456	0	1C8
\$ERRC460	0	1CC
\$ERRC464	0	1D0
\$ERRC468	0	1D4
\$ERRC472	0	1D8
\$ERRC476	0	1DC
\$ERRC480	0	1E0
\$ERRC484	0	1E4
\$ERRC488	0	1E8
\$ERRC492	0	1EC
\$ERRC496	0	1F0
\$ERRC500	0	1F4
\$ERRC504	0	1F8
\$ERRC508	0	1FC
\$ERRC512	0	200
\$ERRC516	0	204
\$ERRC520	0	208
\$ERRC524	0	20C
\$ERRC528	0	210
\$ERRENTY	0	2E
\$ERRTEXT	0	4
\$ESYS	0	8
\$EWFHOLD	0	8
\$EWFIO	0	20
\$EWFOPER	0	40
\$EWFPOST	0	80
\$EWFWORK	0	10

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$EXCPCBI	0	10
\$EXCPMT	0	20
\$EXCPVR	0	80
\$EXCPWT	0	40
\$EXTPCLO	0	3
\$EXTPGET	0	1
\$EXTPNCL	0	4
\$EXTPOPE	0	0
\$EXTPPUT	0	2
\$EXTPREA	0	5
\$EXTPWRI	0	6
\$FBUFMLT	0	80
\$FBUF64	0	40
\$FCMBCNT	0	80
\$GBUFWT	0	80
\$GHPPFIX	0	80
\$GHPPRFX	0	8
\$GSMFBLG	0	40
\$GSMFBWT	0	80
\$GTBESTJ	0	40
\$GTCHNNO	0	40
\$GTCOUNT	0	1
\$GTHAVNO	0	80
\$GTIOTYS	0	20
\$GTJHNSE	0	8
\$GTNET	0	10
\$GTNOSAF	0	2
\$GTOPTIM	0	80
\$GTPARML	0	4
\$GTSKJPP	0	4
\$GTSKJPS	0	2
\$GTSKWSR	0	1
\$GTWRKSL	0	8
\$GTWSP	0	4
\$HASPEQU	0	
\$HOT	0	40
\$HOURPLUS	0	E4C
\$ILPFLG1	0	1
\$ILPFLG2	0	2

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$ILPFLG3	0	3
\$ILPSIZE	0	0
\$INDMODE	0	8
\$INITCHK	0	FF
\$IOTPRTG	0	32
\$IOTRBGN	0	3E8
\$IOTRLMT	0	5
\$IPUSER	0	C
\$I05RS04	0	4
\$I05RS08	0	8
\$I05RS12	0	C
\$I05RS16	0	10
\$I05RS20	0	14
\$I05RS24	0	18
\$I05RS28	0	1C
\$I05RS32	0	20
\$I05RS36	0	24
\$I05RS40	0	28
\$I05RS44	0	2C
\$I05RS48	0	30
\$JCORLEN	0	40
\$JCXLOCL	0	8000
\$JECDE	0	0
\$JECEO	0	1
\$JECJP	0	3
\$JECJPRE	0	1F
\$JECJPSA	0	1E
\$JECMAX	0	2B
\$JECMS	0	4
\$JECNA	0	5
\$JECNO	0	6
\$JECNOK	0	4
\$JECNV	0	E
\$JECOC	0	F
\$JECOK	0	0
\$JECOU	0	7
\$JECPR	0	8
\$JECPU	0	2
\$JECRO	0	9

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$JECROXQ	0	C
\$JECSC	0	A
\$JECSE	0	B
\$JECXM	0	D
\$JECXQ	0	C
\$JEC3DS	0	20
\$JEC3EP	0	22
\$JEC3ES	0	21
\$JEC3FM	0	23
\$JEC3MN	0	24
\$JEC3NA	0	26
\$JEC3NT	0	25
\$JEC30P	0	27
\$JEC3PA	0	28
\$JEC3PR	0	29
\$JEC3RT	0	2A
\$JES2HI	0	6A
\$JES2Z102	0	32
\$JES2Z104	0	37
\$JES2Z105	0	3C
\$JES2Z107	0	41
\$JES2Z108	0	46
\$JES2Z109	0	49
\$JES2Z110	0	4C
\$JES2Z111	0	4F
\$JES2Z112	0	52
\$JES2Z113	0	55
\$JES2Z201	0	58
\$JES2Z202	0	5B
\$JES2Z203	0	5E
\$JES2Z204	0	61
\$JES2Z205	0	64
\$JES2Z301	0	67
\$JES2Z302	0	6A
\$JES2110	0	F
\$JES2130	0	14
\$JES2210	0	2D
\$JES2240	0	19
\$JES2250	0	1E

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$JES2270	0	23
\$JES2280	0	28
\$JES2510	0	5
\$JES2520	0	A
\$JEXTFRE	0	80
\$JEXTLEN	0	2
\$JEXTMAX	0	7FFF
\$JEXTTGN	0	0
\$JIXFOMT	0	10
\$JIXFREE	0	40
\$JIXGET	0	80
\$JIXSWAP	0	20
\$JIXVERI	0	8
\$JIXWNO	0	0
\$JIXWYES	0	1
\$JMPREDO	0	32
\$JQEDEF	0	3E8
\$JSRBERT	0	8000
\$JSRFLGS	0	F
\$JSRFREE	0	400
\$JSRGRP	0	40
\$JSRGSPL	0	4000
\$JSRJQA	0	800
\$JSRLMPL	0	10
\$JSRMJPL	0	80
\$JSRNET	0	20
\$JSRRWAT	0	2000
\$JSRSTC	0	100
\$JSRTADD	0	1
\$JSRTCAN	0	7
\$JSRTCKP	0	2
\$JSRTFRE	0	6
\$JSRTLIM	0	A
\$JSRTMDJ	0	9
\$JSRTMOD	0	3
\$JSRTOBT	0	5
\$JSRTQRY	0	8
\$JSRTREM	0	4
\$JSRTSU	0	200

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$JSRWAIT	0	1000
\$JWEBULK	0	40
\$JWECRTM	0	4
\$JWEDVID	0	C
\$JWEFLAG	0	F
\$JWEFLG1	0	0
\$JWELEN	0	10
\$JWELONG	0	80
\$JWENUM	0	4
\$JWEPTR	0	0
\$JWETBLL	0	8
\$JW1NCLR	0	80
\$J2PZ111	0	28
\$J2PZ112	0	29
\$J2PZ202	0	2C
\$J2PZ203	0	2D
\$J2PZ204	0	2E
\$J2PZ205	0	2F
\$J2PZ301	0	30
\$J2PZ302	0	31
\$J2P250	0	1D
\$KCPMI2M	0	0
\$KCPM2MI	0	1
\$KITFUDG	0	A
\$LABAL	0	40
\$LABAUL	0	48
\$LABBLP	0	10
\$LABNL	0	1
\$LABNSL	0	4
\$LABSL	0	2
\$LABSUL	0	A
\$LRGSMFB	0	8000
\$LVALONE	0	80
\$L01R004	0	4
\$MAX_MSTR_SIZE	0	C0000
\$MAXACCT	0	8F
\$MAXARTC	0	7FFF
\$MAXARTE	0	64
\$MAXARTR	0	2

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$MAXARTT	0	4
\$MAXBERT	0	2625A0
\$MAXBSC	0	270F
\$MAXBUF	0	7D0
\$MAXBUFEX	0	270F
\$MAXCDC2	0	D988
\$MAXCDI	0	10000
\$MAXCDT	0	0
\$MAXCLSZ	0	8
\$MAXCMB	0	7FFF
\$MAXCMDB	0	270F
\$MAXCMPT	0	63
\$MAXCNVT	0	19
\$MAXCONJ	0	C8
\$MAXCPLN	0	7FFF
\$MAXCPPG	0	7FFF
\$MAXCPTM	0	7FFF
\$MAXCYL	0	1111
\$MAXDA	0	FD
\$MAXDEFX	0	4E20
\$MAXDISP	0	98967F
\$MAXDRTM	0	CDFED
\$MAXDSKY	0	FFFFFF
\$MAXEMID	0	F6
\$MAXESIZ	0	4E20
\$MAXFORM	0	8
\$MAXFSGN	0	FFFFFF
\$MAXHOLD	0	F5E0FF
\$MAXICES	0	7FFF
\$MAXINIT	0	270F
\$MAXIPLN	0	7F
\$MAXJCLS	0	200
\$MAXJDEF	0	270F
\$MAXJGJB	0	7D0
\$MAXJNUM	0	F423F
\$MAXJOEP	0	14
\$MAXJOID	0	F5E0FF
\$MAXLCK	0	8
\$MAXLCYL	0	11111

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$MAXLINES	0	FFFF
\$MAXLOGS	0	3E7
\$MAXLTRV	0	FFFFF
\$MAXMERG	0	64
\$MAXNDRX	0	F4240
\$MAXNFYS	0	8
\$MAXNHB	0	270F
\$MAXNJEQ	0	7
\$MAXNJQE	0	F4240
\$MAXNMSG	0	C8
\$MAXNODE	0	7FFF
\$MAXNPRO	0	E10
\$MAXNZJC	0	7A120
\$MAXOFFS	0	8
\$MAXOUT	0	19
\$MAXPATH	0	8
\$MAXPPBF	0	1F4
\$MAXPRDV	0	8
\$MAXPRMD	0	FF
\$MAXPRTS	0	7FFF
\$MAXPSO	0	A
\$MAXPUNS	0	63
\$MAXPURG	0	19
\$MAXRATC	0	A
\$MAXRCLN	0	12
\$MAXRDRS	0	63
\$MAXRGD	0	7D0
\$MAXRJE	0	7FFF
\$MAXROUT	0	7FFF
\$MAXRSRT	0	8
\$MAXRST	0	7D0
\$MAXSAFL	0	80
\$MAXSDQC	0	64
\$MAXSDQE	0	64
\$MAXSJFR	0	1F4
\$MAXSMFB	0	3E8
\$MAXSNML	0	4
\$MAXSPIN	0	A
\$MAXSRVS	0	3E7

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$MAXSSZZ	0	1E
\$MAXSTAC	0	A
\$MAXSYS	0	20
\$MAXSYSN	0	20
\$MAXTGBE	0	400
\$MAXTGS	0	E81200
\$MAXTGV	0	20000
\$MAXTINT	0	1F4
\$MAXTLOG	0	FFFFFF
\$MAXTOTD	0	A
\$MAXTOTH	0	3E8
\$MAXTRC	0	BB8
\$MAXTRV	0	FFFF
\$MAXVRSN	0	32
\$MAXVTAM	0	270F
\$MAXWCLS	0	8
\$MG0C001	0	1
\$MG0C002	0	2
\$MG0C003	0	3
\$MG0C004	0	4
\$MG0C005	0	5
\$MG0C006	0	6
\$MG0C007	0	7
\$MG0C008	0	8
\$MG0C009	0	9
\$MG0C010	0	A
\$MG1C011	0	B
\$MG1C012	0	C
\$MINBERT	0	64
\$MINBSC	0	A
\$MINBUF	0	A
\$MINBUFx	0	A
\$MINCMB	0	4
\$MINCMDB	0	4
\$MINEMID	0	3
\$MINJDEF	0	1
\$MINNDRX	0	3E8
\$MINNHB	0	A
\$MINTINT	0	F

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$MINVTAM	0	A
\$MLDIRL	0	20
\$MLDLPA	0	10
\$MLJ2MOD	0	40
\$MLMSGI	0	8
\$MLMSGS	0	4
\$MLMSGY	0	80
\$MLREPL	0	2
\$MLREPLC	0	1
\$MQTRLEN	0	6
\$MSGPFXL	0	2
\$MTTRLEN	0	4
\$MVSIPL	0	2
\$MWORKSZ	0	120
\$MXCKPCT	0	63
\$MXSYSBY	0	4
\$M064DAD	0	10
\$M064IBE	0	80
\$M064MIG	0	8
\$M064NIB	0	40
\$M064RD	0	4
\$M064SNS	0	20
\$M064WRT	0	2
\$M068DEV	0	80
\$M068LDV	0	20
\$M068NDV	0	40
\$M120INR	0	40
\$M1200TH	0	80
\$M260CLD	0	80
\$M260NCL	0	40
\$M276CLD	0	40
\$M276HOT	0	20
\$M276WRM	0	80
\$M281ALL	0	80
\$M281SOM	0	40
\$M291CC1	0	80
\$M291CC2	0	40
\$M291NCW	0	20
\$M291SNS	0	10

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$M416LNG	0	80
\$M416SHR	0	40
\$M443ATT	0	80
\$M443LEV	0	20
\$M443NUM	0	40
\$M445CKP	0	C
\$M4450TH	0	8
\$M458CK1	0	80
\$M458CK2	0	40
\$M478CK1	0	80
\$M478CK2	0	40
\$M479INT	0	20
\$M479IO	0	80
\$M479SID	0	40
\$M479VAL	0	10
\$M530NOR	0	80
\$M530TRN	0	40
\$M539CLS	0	40
\$M539GRP	0	80
\$M565CON	0	40
\$M565LNE	0	80
\$M568APT	0	40
\$M568LGN	0	8
\$M568LIN	0	4
\$M568NIT	0	80
\$M568NSV	0	10
\$M568SCK	0	20
\$M745INT	0	80
\$M745STD	0	40
\$M867G00	0	40
\$M867MON	0	20
\$M867MSR	0	8
\$M867MTR	0	10
\$M867NOR	0	80
\$M897ACL	0	40
\$M897ACS	0	20
\$M897INA	0	80
\$NJETCP_PORT	0	AF
\$NJETCP_PORT_SSL	0	8CC

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$NPMDOWN	0	2
\$NPRICHG	0	20
\$NPRODEF	0	12C
\$NTNNODE	0	0
\$NTNONDE	0	10
\$NTNOTUS	0	8
\$NTNOUSR	0	18
\$NTPARML	0	0
\$ODANY	0	F
\$ODANYWP	0	1F
\$ODHOLD	0	4
\$ODKEEP	0	2
\$ODLEAVE	0	1
\$ODPURGE	0	10
\$ODWRITE	0	8
\$PAINUNT	0	64
\$PBLKCTR	0	40
\$PBLKSLT	0	80
\$PBUFLIM	0	3E8
\$PCEGARD	0	10
\$PDYNALT	0	10
\$PDYNAT	0	80
\$PDYNDCT	0	2
\$PDYNDT	0	40
\$PDYNDTT	0	20
\$PDYNPCE	0	8
\$PDYNTAB	0	4
\$PGESIZE	0	1000
\$PLXPCEL	0	14
\$PLXSCEL	0	14
\$PPVERIU	0	10
\$PRWRATE	0	A
\$PRWTHSH	0	4
\$PSTJOE	0	0
\$PSTJQE	0	4
\$PSTKEPJ	0	40
\$PSTMASP	0	80
\$PSTMSG	0	C
\$PSTNSPN	0	20

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$PSTXMIT	0	8
\$QADJQA	0	8
\$QGTINWS	0	20
\$QGTLST	0	40
\$QGTLSTC	0	80
\$QGTWLMQ	0	10
\$QINDXL	0	100
\$QMDHJCT	0	2
\$QMDKEEP	0	10
\$QMDNX51	0	4
\$QMDOVAL	0	1
\$QSNPCHG	0	40
\$QSONDA	0	80
\$QUICK	0	20
\$QWALEN	0	2E8
\$REMKPJQ	0	10
\$REMLFRE	0	8
\$REMLOCK	0	20
\$REMPURG	0	80
\$RGDDEF	0	20
\$RRTJOB	0	80
\$RRTSQD	0	20
\$RSVNUM	0	19
\$SCACMDS	0	C
\$SCACTCM	0	1B
\$SCCCMDS	0	14
\$SCCOCMD	0	16
\$SCDCMDS	0	4
\$SCDDIAL	0	9
\$SCDOCMD	0	6
\$SCECMDA	0	10
\$SCECMDS	0	B
\$SCHCMDS	0	12
\$SCIDIAL	0	E
\$SCIRPL	0	2
\$SCIRPLC	0	3
\$SCLCMDS	0	1A
\$SCLOCMD	0	19
\$SCLTCMD	0	F

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$SCMGCMD	0	1D
\$SCNCLN	0	8
\$SCNPOST	0	4
\$SCNPRE	0	0
\$SCOCMDS	0	18
\$SCOPTS	0	1
\$SCPCMDS	0	8
\$SCPOCMD	0	17
\$SCPYCMD	0	1E
\$SCRCMDS	0	D
\$SCRLCMD	0	13
\$SCSCMDS	0	5
\$SCSDIAL	0	A
\$SCSTCMD	0	7
\$SCTOCMD	0	15
\$SCVRCMD	0	1F
\$SCWHOTS	0	40
\$SCWIBM	0	3C
\$SCWINST	0	3
\$SCWOBS	0	80
\$SCZAPCM	0	1C
\$SCZCMDS	0	11
\$SEAACPY	0	30
\$SEAAUD	0	19
\$SEACMD	0	C
\$SEADCHK	0	1A
\$SEADEL	0	E
\$SEADEVA	0	12
\$SEADIRA	0	29
\$SEAEMRG	0	2E
\$SEAENCR	0	2F
\$SEAFAIL	0	8
\$SEAGRPR	0	2C
\$SEAINIT	0	1
\$SEAJCLS	0	2B
\$SEAJNFY	0	31
\$SEAJOX	0	20
\$SEAMAX	0	FF
\$SEAND	0	4

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$SEANEWS	0	16
\$SEANJEA	0	13
\$SEANJES	0	0
\$SEANJEV	0	1F
\$SEANSOC	0	1D
\$SEANSON	0	28
\$SEANSTO	0	C
\$SEANUSE	0	F
\$SEANWBL	0	17
\$SEAOK	0	0
\$SEAPREC	0	2D
\$SEAPRT	0	D
\$SEAPSO	0	9
\$SEAPSS	0	A
\$SEAREXT	0	14
\$SEARJES	0	11
\$SEARRT	0	15
\$SEASAPI	0	25
\$SEASCLA	0	26
\$SEASCLE	0	27
\$SEASFS	0	23
\$SEASIC	0	5
\$SEASIP	0	7
\$SEASOC	0	6
\$SEASOP	0	8
\$SEASOX	0	1E
\$SEASPBC	0	21
\$SEASPBO	0	22
\$SEASPLR	0	2A
\$SEASSOC	0	1C
\$SEASSWM	0	24
\$SEATBLD	0	10
\$SEATCAN	0	B
\$SEATSOC	0	1B
\$SEAUSED	0	30
\$SEAVERC	0	2
\$SEAVERD	0	3
\$SEAVERS	0	18
\$SEAXTRT	0	4

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$SEGLMDF	0	64
\$SJIFREE	0	40
\$SJIGNYC	0	8
\$SJIINIT	0	10
\$SJINSJB	0	20
\$SJITEMP	0	80
\$SMBERT	0	C80
\$SMENVB	0	5DC
\$SMFDEF	0	5
\$SPCSAF	0	E7
\$SPIN_LINES	0	8
\$SPIN_OPERATOR	0	0
\$SPIN_SEGMENT	0	C
\$SPIN_TIME	0	4
\$SP0	0	0
\$SP1	0	1
\$SP132	0	84
\$SP233	0	E9
\$SP252	0	FC
\$SQINDXL	0	100
\$SSIRCVR	0	1
\$STSUBP	0	E5
\$SUBERR	0	80
\$SUBMULT	0	40
\$SYSEXIT	0	4
\$TGDEF	0	3FA0
\$TIMECLOC_JQECAT_1	0	1
\$TIMECLOC_JQECAT_2	0	2
\$TIMECLOC_TIMECLOC	0	4
\$TIMECLOC_XIDJOB	0	3
\$TIMETST	0	80
\$TKNLEN	0	50
\$TKNVERN	0	1
\$TRK000D	0	0
\$VOLFLDL	0	18
\$VOLLEN	0	6
\$VOLMAX	0	4
\$VOLMSKL	0	20
\$WARM	0	80

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
\$WARMHD	0	1F4
\$WSFRJE	0	80
\$WSJSREC	0	40
\$XMLOSTP	0	80
\$XMPASCB	0	8
\$XMPECB	0	C
\$XMPECBP	0	4
\$XMPERET	0	0
\$1E0C004	0	4
\$1E0C008	0	8
\$1E0C012	0	C
\$1E0C016	0	10
\$1E0C020	0	14
\$1E0C024	0	18
\$1E0ET01	0	1
\$1E0ET02	0	2
\$1E0ET03	0	3
\$1E0ET04	0	4
\$1E0ET05	0	5
\$1E0ET06	0	6
\$1E0ET07	0	7
\$1E0ET08	0	8
\$1E0ET09	0	9
\$1E0ET10	0	A
\$1E0ET11	0	B
\$1E0ET12	0	C
\$1E0ET13	0	D
\$1E0ET14	0	E
\$1E0ET15	0	F
\$1E0ET16	0	10
\$446CVER	0	A
\$446MVER	0	9
\$599LEN	0	C
\$599PIT	0	0
\$599SQD	0	4
\$599XINI	0	8
AB02ACTE	0	F4
AB02ARAC	0	AC
AB02ARA0	0	A0

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
AB02ARA4	0	A4
AB02ARA8	0	A8
AB02ARBC	0	BC
AB02ARB0	0	B0
AB02ARB4	0	B4
AB02ARB8	0	B8
AB02ARCC	0	CC
AB02ARC0	0	C0
AB02ARC4	0	C4
AB02ARC8	0	C8
AB02ARDC	0	DC
AB02AREC	0	EC
AB02ARE0	0	E0
AB02ARE4	0	E4
AB02ARE8	0	E8
AB02ARF0	0	F0
AB02AR0C	0	C
AB02AR04	0	4
AB02AR08	0	8
AB02AR1C	0	1C
AB02AR10	0	10
AB02AR14	0	14
AB02AR18	0	18
AB02AR2C	0	2C
AB02AR20	0	20
AB02AR24	0	24
AB02AR28	0	28
AB02AR3C	0	3C
AB02AR30	0	30
AB02AR34	0	34
AB02AR38	0	38
AB02AR4C	0	4C
AB02AR40	0	40
AB02AR44	0	44
AB02AR48	0	48
AB02AR5C	0	5C
AB02AR50	0	50
AB02AR54	0	54
AB02AR58	0	58

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
AB02AR6C	0	6C
AB02AR60	0	60
AB02AR64	0	64
AB02AR68	0	68
AB02AR7C	0	7C
AB02AR70	0	70
AB02AR74	0	74
AB02AR78	0	78
AB02AR8C	0	8C
AB02AR80	0	80
AB02AR84	0	84
AB02AR88	0	88
AB02AR9C	0	9C
AB02AR90	0	90
AB02AR94	0	94
AB02AR98	0	98
AB02A11C	0	11C
AB02A120	0	120
AB02BADL	0	D4
AB02BADN	0	110
AB02BASP	0	104
AB02BAS2	0	10C
AB02BCNT	0	FC
AB02BCN2	0	100
AB02CHKS	0	F8
AB02DBNT	0	114
AB02DBN2	0	118
AB02GUNE	0	D8
AB02LENT	0	D0
AB02MISN	0	108
AB68R104	0	104
AB68R108	0	108
AB68R200	0	200
AB68R300	0	300
AB68R304	0	304
AB68R400	0	400
AB68R500	0	500
AB68R504	0	504
AB68R60C	0	60C

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
AB68R600	0	600
AB68R604	0	604
AB68R608	0	608
AB68R61C	0	61C
AB68R610	0	610
AB68R614	0	614
AB68R618	0	618
AB68R620	0	620
AB68R624	0	624
AB68R628	0	628
AB68R70C	0	70C
AB68R700	0	700
AB68R704	0	704
AB68R708	0	708
AB68R71C	0	71C
AB68R710	0	710
AB68R714	0	714
AB68R718	0	718
AB68R720	0	720
AB68R800	0	800
AB68R801	0	801
AB68R900	0	900
AR0	0	0
AR1	0	1
AR10	0	A
AR11	0	B
AR12	0	C
AR13	0	D
AR14	0	E
AR15	0	F
AR2	0	2
AR3	0	3
AR4	0	4
AR5	0	5
AR6	0	6
AR7	0	7
AR8	0	8
AR9	0	9
BATPOOL	0	5

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
BSCP00L	0	6
B32KP00L	0	A
CBP00L	0	7
CFP00L	0	13
CIDP00L	0	1D
CKPCLBCL	0	8
CKPCLCKP	0	1
CKPCLCMW	0	40
CKPCLCRW	0	80
CKPCLMRK	0	F
CKPCLRDC	0	2
CKPCLRDP	0	4
CKPTP00L	0	4
CKREQ_EXTND	0	7
CKREQ_FMT	0	6
CKREQ_LOCK	0	4
CKREQ_READ2	0	2
CKREQ_REALC	0	8
CKREQ_T1IO	0	1
CKREQ_UNLCK	0	5
CKREQ_WRITE	0	3
CMBP00L	0	14
DIAGADDR	0	0
DIAGKLEN	0	5
DIAGKLOC	0	4
DYNL3203	0	250
DYNL3211	0	23A
DYNL3800	0	10E
DYNL4245	0	250
DYNL4248	0	100
DYNTEYE	0	0
DYNTLEN	0	18
DYNTLMT	0	C
DYNTNEXT	0	4
DYNTTAB	0	8
DYNTTYPE	0	10
EXTDQ8A	0	8A
EXTDQ8B	0	8B
EXTDQ8C	0	8C

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
EXTDQ8D	0	8D
EXTDQ81	0	81
EXTDQ82	0	82
EXTDQ83	0	83
EXTDQ84	0	84
EXTDQ85	0	85
EXTDQ86	0	86
EXTDQ87	0	87
EXTDQ88	0	88
EXTDQ89	0	89
EXTDQ91	0	91
EXTPLCMD	0	0
EXTPLDAT	0	4
EXTPLLEN	0	1
EXTPLSIZ	0	8
FF	0	FF
FFFF	0	FFFF
FP0	0	0
FP2	0	2
FP4	0	4
FP6	0	6
GETBUFSZ	0	8000
GPQP00L	0	1F
GTWKDIS	0	38
GTWKMAX	0	2000
GTWKMX64	0	40000
GTWKRO	0	10
GTWKTANY	0	20
GTWKTCEL	0	1C
GTWKTESZ	0	24
GTWKTFLG	0	9
GTWKTLNM	0	10
GTWKTMSZ	0	4
GTWKTNAM	0	C
GTWKTNXT	0	14
GTWKTPID	0	8
GTWKTSIZ	0	0
GTWKTUSE	0	20
GTWKT64	0	8

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
HASPP00L	0	8
HAVTNLOG	0	80
HEDRP00L	0	16
HR0	0	0
HR1	0	1
HR10	0	A
HR11	0	B
HR12	0	C
HR13	0	D
HR14	0	E
HR15	0	F
HR2	0	2
HR3	0	3
HR4	0	4
HR5	0	5
HR6	0	6
HR7	0	7
HR8	0	8
HR9	0	9
HTABFADD	0	20
HTABFLGB	0	9
HTABFNCK	0	8
HTABFOFF	0	40
HTABFTRQ	0	80
HTABF0TB	0	10
HTABTABL	0	A
HTABTEL	0	0
HTABTIDF	0	6
HTABTIDL	0	8
HTABTMCT	0	2
HTABTUFB	0	4
ICEPOOL	0	1A
IECITMOD	0	18
IPCALLER	0	2
IPEYE	0	14
IPNODE	0	4
IPOUTLEN	0	0
IPRETC	0	4
IPTUOUT	0	18

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
IPWJOA	0	4
JIXVRSN	0	2
LEAVE_JOES_BUSY	0	0
MAPADDR	0	8
MAPBASE	0	C
MAPENTL	0	10
MAPMITA	0	8
MAPNAME	0	0
MAXLRECL	0	7FFF
M474BTRN	0	18
M474ENBT	0	0
M474ENHI	0	8
M474ENLO	0	4
M474ENT1	0	0
M474ENT2	0	C
M474E1BT	0	0
M474E1HI	0	8
M474E1LO	0	4
M474E2BT	0	C
M474E2HI	0	14
M474E2LO	0	10
M474PRML	0	1C
M565LNEN	0	11
M565NDEN	0	1
M565NSVN	0	9
M565RAPP	0	B
M565RBUF	0	7
M565RBUS	0	8
M565RINT	0	A
M565RNDE	0	5
M565RND1	0	1
M565RND2	0	2
M565RNET	0	9
M565RNIL	0	3
M565RNPM	0	6
M565RNSK	0	4
M565RSN	0	0
M710DOWN	0	2
M710ENT	0	0

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
M710MEM	0	0
M710RSN	0	4
M710UP	0	1
M791GRP	0	4
M791LEN	0	1C
M791NAME	0	0
M791PLX	0	C
M791PXID	0	14
NATPOOL	0	9
NMAPPOOL	0	B
NONE	0	0
NSAPPOOL	0	C
NTQPOOL	0	D
PAGEPOOL	0	E
PAIRDYN	0	8
PAIRHASP	0	4
PAIRLEN	0	C
PAIRUSER	0	0
PCEPOOL	0	19
PERFPOOL	0	18
PLO_CL	0	0
PLO_CLG	0	1
PLO_CLGR	0	2
PLO_CLX	0	3
PLO_CS	0	4
PLO_CSDST	0	10
PLO_CSDSTG	0	11
PLO_CSDSTGR	0	12
PLO_CSDSTX	0	13
PLO_CSG	0	5
PLO_CSGR	0	6
PLO_CSST	0	C
PLO_CSSTG	0	D
PLO_CSSTGR	0	E
PLO_CSSTX	0	F
PLO_CSTST	0	14
PLO_CSTSTG	0	15
PLO_CSTSTGR	0	16
PLO_CSTSTX	0	17

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
PLO_CSX	0	7
PLO_DCS	0	8
PLO_DCSG	0	9
PLO_DCSGR	0	A
PLO_DCSX	0	B
PLXP00L	0	15
PPP00L	0	F
PRFDCKPT	0	7
PRFDCPUS	0	5
PRFDDEVG	0	9
PRFDEVNT	0	6
PRFDIND	0	8
PRFDINTS	0	1
PRFDLEN	0	C
PRFDMIGR	0	A
PRFDNAME	0	0
PRFDPCEs	0	3
PRFDPCY	0	C
PRFDQGT	0	D
PRFDQSUS	0	2
PRFDSAMP	0	4
PRFDSUBT	0	8
PRFDWS	0	B
PRFDXREQ	0	E
PSOP00L	0	1B
PSTVRSN	0	2
PUTBUFSZ	0	8000
RACDSECL	0	24
REGANSI	0	A0
RJOBNOFF	0	0
RJOBOFFL	0	1
RNTP00L	0	1C
RSOVRSN	0	1
R0	0	0
R1	0	1
R10	0	A
R11	0	B
R12	0	C
R13	0	D

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
R14	0	E
R15	0	F
R2	0	2
R3	0	3
R4	0	4
R5	0	5
R6	0	6
R7	0	7
R8	0	8
R9	0	9
SCNDR01	0	4
SCNDR03	0	8
SCNDR04	0	C
SCNDR05	0	10
SCNDR06	0	14
SCNDR07	0	18
SCNDR08	0	1C
SCNDR09	0	20
SCNDR10	0	24
SCNDR100	0	134
SCNDR101	0	138
SCNDR102	0	13C
SCNDR103	0	140
SCNDR104	0	144
SCNDR105	0	148
SCNDR106	0	14C
SCNDR107	0	150
SCNDR108	0	154
SCNDR109	0	158
SCNDR11	0	28
SCNDR110	0	15C
SCNDR111	0	160
SCNDR112	0	164
SCNDR113	0	168
SCNDR114	0	16C
SCNDR115	0	170
SCNDR116	0	174
SCNDR117	0	178
SCNDR118	0	17C

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR119	0	180
SCNDR12	0	2C
SCNDR120	0	184
SCNDR121	0	188
SCNDR122	0	18C
SCNDR123	0	190
SCNDR124	0	194
SCNDR125	0	198
SCNDR126	0	19C
SCNDR127	0	1A0
SCNDR128	0	1A4
SCNDR13	0	30
SCNDR130	0	1A8
SCNDR131	0	1AC
SCNDR132	0	1B0
SCNDR133	0	1B4
SCNDR134	0	1B8
SCNDR135	0	1BC
SCNDR136	0	1C0
SCNDR137	0	1C4
SCNDR138	0	1C8
SCNDR139	0	1CC
SCNDR14	0	34
SCNDR140	0	1D0
SCNDR141	0	1D4
SCNDR142	0	1D8
SCNDR143	0	1DC
SCNDR144	0	1E0
SCNDR145	0	1E4
SCNDR146	0	1E8
SCNDR147	0	1EC
SCNDR148	0	1F0
SCNDR149	0	1F4
SCNDR150	0	1F8
SCNDR151	0	1FC
SCNDR152	0	200
SCNDR153	0	204
SCNDR154	0	208
SCNDR155	0	20C

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR156	0	210
SCNDR157	0	214
SCNDR158	0	218
SCNDR159	0	21C
SCNDR160	0	220
SCNDR161	0	224
SCNDR162	0	228
SCNDR163	0	22C
SCNDR164	0	230
SCNDR165	0	234
SCNDR166	0	238
SCNDR167	0	23C
SCNDR168	0	240
SCNDR169	0	244
SCNDR17	0	38
SCNDR170	0	248
SCNDR171	0	24C
SCNDR172	0	250
SCNDR173	0	254
SCNDR174	0	258
SCNDR175	0	25C
SCNDR176	0	260
SCNDR177	0	264
SCNDR178	0	268
SCNDR179	0	26C
SCNDR18	0	3C
SCNDR180	0	270
SCNDR181	0	274
SCNDR182	0	278
SCNDR183	0	27C
SCNDR19	0	40
SCNDR21	0	44
SCNDR22	0	48
SCNDR23	0	4C
SCNDR24	0	50
SCNDR25	0	54
SCNDR26	0	58
SCNDR27	0	5C
SCNDR28	0	60

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR39	0	64
SCNDR40	0	68
SCNDR41	0	6C
SCNDR43	0	70
SCNDR44	0	74
SCNDR45	0	78
SCNDR46	0	7C
SCNDR52	0	80
SCNDR54	0	84
SCNDR55	0	88
SCNDR56	0	8C
SCNDR57	0	90
SCNDR58	0	94
SCNDR59	0	98
SCNDR62	0	9C
SCNDR63	0	A0
SCNDR64	0	A4
SCNDR65	0	A8
SCNDR66	0	AC
SCNDR67	0	B0
SCNDR68	0	B4
SCNDR69	0	B8
SCNDR70	0	BC
SCNDR71	0	C0
SCNDR72	0	C4
SCNDR73	0	C8
SCNDR74	0	CC
SCNDR75	0	D0
SCNDR76	0	D4
SCNDR77	0	D8
SCNDR78	0	DC
SCNDR79	0	E0
SCNDR80	0	E4
SCNDR81	0	E8
SCNDR82	0	EC
SCNDR83	0	F0
SCNDR84	0	F4
SCNDR85	0	F8
SCNDR86	0	FC

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR87	0	100
SCNDR88	0	104
SCNDR89	0	108
SCNDR90	0	10C
SCNDR91	0	110
SCNDR92	0	114
SCNDR93	0	118
SCNDR94	0	11C
SCNDR95	0	120
SCNDR96	0	124
SCNDR97	0	128
SCNDR98	0	12C
SCNDR99	0	130
SCQVRSN	0	1
SCWAP00L	0	20
SCWDP00L	0	21
SDLTBADD	0	0
SDLTLEN	0	4
SDLTNUM	0	A
SMFP00L	0	12
SPANLAST	0	8C
SPANMID	0	84
SPAN1ST	0	88
SQDP00L	0	1E
SRCBANSI	0	20
SRCBCCTL	0	30
SRCBDSH	0	E0
SRCBFLAG	0	80
SRCBJH	0	C0
SRCBJT	0	D0
SRCBLAST	0	C
SRCBMCH	0	10
SRCBMID	0	4
SRCBPAGE	0	30
SRCBSPAN	0	C
SRCB1ST	0	8
SRX_DETACH	0	8
SRX_GETSTOR	0	4
SRX_OBT31FIX	0	C

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
SRX_PAGEFIX	0	14
SRX_PAGEUNFIX	0	18
SRX_REL31FIX	0	10
TGMVRSN	0	1
TINTPOOL	0	17
TMAPADDC	0	18
TMAPENTL	0	1C
TMAPLMOD	0	10
TRAKQ4A	0	4A
TRAKQ41	0	41
TRAKQ42	0	42
TRAKQ43	0	43
TRAKQ44	0	44
TRAKQ45	0	45
TRAKQ46	0	46
TRAKQ47	0	47
TRAKQ48	0	48
TRAKQ49	0	49
TRAKQ5A	0	5A
TRAKQ51	0	51
TRAKQ52	0	52
TRAKQ53	0	53
TRAKQ54	0	54
TRAKQ55	0	55
TRAKQ56	0	56
TRAKQ57	0	57
TRAKQ58	0	58
TRAKQ61	0	61
TRAKQ62	0	62
TRAKQ63	0	63
TRAKQ64	0	64
TRAKQ65	0	65
TRCCWSP1	0	9
TRCCWSP2	0	11
TRCCWSP3	0	19
TRCLRECL	0	79
UNBUSY_JOES	0	1
VTAMPPOOL	0	10
WAVEPOOL	0	22

Table 225. Cross Reference for \$HASPEQU (continued)

Name	Offset	Hex Tag
WORKQ01	0	1
WORKQ02	0	2
WORKQ03	0	3
WORKQ04	0	4
WORKQ05	0	5
WORKQ1A	0	1A
WORKQ11	0	11
WORKQ12	0	12
WORKQ13	0	13
WORKQ14	0	14
WORKQ15	0	15
WORKQ16	0	16
WORKQ17	0	17
WORKQ18	0	18
WORKQ21	0	21
WORKQ22	0	22
WORKQ23	0	23
WORKQ24	0	24
WORKQ25	0	25
WORKQ26	0	26
WORKQ27	0	27
WORKQ28	0	28
XCFMLIST	0	8
XCFMMEM#	0	13
XCFMMEMC	0	12
XCFMMEMF	0	11
XCFMMEMN	0	0
XCFMMEMR	0	10
XCFMRSCS	0	C
XCFMRSJ2	0	4
XCFMRSNM	0	8
XCFMSIZE	0	1000
XCFMTHEM	0	0
XCFMUS	0	4
XEQPHDWT	0	78
XEQPHFWT	0	3C
XEQPHIWT	0	1E
XRQPOOL	0	11

\$HASXB information

\$HASXB programming interface information

The following fields are **NOT** programming interface information:

- HXBDSB
- HXBSAPID
- HXBWRKSP

\$HASXB heading information

Common name:	HASP address space extension block
Macro ID:	\$HASXB
DSECT name:	HASXB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	HSXB Offset: HXBID-HASXB Length: L'HXBID
Storage attributes:	Subpool: 230 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private address space represented by the \$HASXB.
Size:	See HXBLEN
Created by:	\$SSIBEGN routine
Pointed to by:	HSBHASXB field of the \$HASB data area
Serialization:	Shared by TCBs in the address space. The local lock is required to increment the use count in the \$HASXB. This ensures that the control block won't be freed if it is considered to be temporary. After the use count has been incremented in the \$HASXB control block to indicate that both the \$HASB and \$HASXB are in use, compare and swaps may be used to modify fields. \$SSIBEGN increments the use count upon entry. The use count in the \$HASXB is for both the \$HASB and the \$HASXB. Compare and swap is still needed to update the use count even with the local lock because the local lock is not obtained when decrementing the use count in \$SSIEND for permanent HASB/HASXBs. The use of compare and swap is not needed for the system HASB/HASXB count because it is never updated without the local lock.

Function:

The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist until the job is terminated. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.

The HASXB contains the information that is needed only in the user address space. The HASB contains the information that needs to be shared between the user and the subsystem address spaces.

\$HASXB mapping

Table 226. Structure HASXB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HASXB	BEGINNING OF HASXB DSECT
0	(0)	CHARACTER	4	HXBID	EYECATCHER OF HASXB
4	(4)	ADDRESS	1	HXBVRSN	VERSION NUMBER FIELD
4	(4)	X'3'	0	HXBVRNUM	"3" Current version of HASXB
5	(5)	BITSTRING	1	HXBFLAG1	STATUS FLAG 1
For more information about the PERM and SYS bits see the prolog for \$SSIBEGN in HASCLINK.					
		1...		HXB1PERM	"B'10000000'" PERMANENT HASB/HASXB CHAIN
		.1..		HXB1SYS	"B'01000000'" SYSTEM HASB/HASXB CHAIN
		..1.		HXB1REQ	"B'00100000'" A Request JobId call was made from this addr space
		...1		HXB1B32K	"B'00010000'" B32K cell pool created
		.... 1...		HXB1E40I	"B'00001000'" ENF 40 INIT call seen
		.... .1..		HXB1POOF	"B'00000100'" ALETs were deleted by End of Task, do not insert new ALETs in ALINDEX
6	(6)	BITSTRING	1	HXBRSVRD(2)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HXBUSECT	COUNT OF USERS OF THIS HSXB
12	(C)	SIGNED	4	HXBINTRD	COUNT OF BCP-ALLOCATED INTERNAL READERS
16	(10)	ADDRESS	4	HXBTRE	ADDRESS OF FIRST TRE ON CHAIN
20	(14)	ADDRESS	4	HXBWRKSP	ADDRESS OF WORK SPACE
24	(18)	ADDRESS	4	HXBUSER1	RESERVED FOR USER
28	(1C)	SIGNED	4	HXBSPLWT	Count of tasks AWAITING SPOOL SPACE tasks (PLO serialization)
32	(20)	ADDRESS	4	HXBCPTCB	TCB address to use with STORAGE OBTAIN
36	(24)	ADDRESS	4	HXBCEPIDX	Address of CPINDEX table
40	(28)	ADDRESS	4	HXBALIDX	Address of ALINDEX table
44	(2C)	ADDRESS	4	HXBDSB	Chain of LOCAL DSBs
48	(30)	SIGNED	4	HXBSAPIA	ALET of SAPID queue for this address space

Table 226. Structure HASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
52	(34)	SIGNED	4	HXBSTACA	ALET of STAC data space for this address space
56	(38)	SIGNED	4	HXBPSOA	ALET of PS0 data space for this address space
60	(3C)	ADDRESS	4	HXBSJIOB	Permanent SJI0B used for \$SIGIO processing
64	(40)	ADDRESS	4	HXBASOK	Address of first ASOK
68	(44)	ADDRESS	4	HXBDSERV	Address of live DSERV
72	(48)	ADDRESS	4	HXBESWRK	Address of extended status work area
76	(4C)	BITSTRING	16	HXBP00FR	Token of last TCB to set P00F bit (left residual)
SP00L I/O vector This vector achors the BAT control blocks for this address space. There is one entry for every possible SP00L volume.					
92	(5C)	ADDRESS	4	HXBBATV(0)	SP00L I/O vector
1104	(450)	DBL WORD	8	(0)	Alignment
1104	(450)	X'450'	0	HXBLEN	"*-HASXB" LENGTH OF HASXB DSECT

Table 227. Cross Reference for \$HASXB

Name	Offset	Hex Tag
HASXB	0	
HXBALIDX	28	
HXBASOK	40	
HXBBATV	5C	
HXBCPIDX	24	
HXBCPTCB	20	
HXBDSB	2C	
HXBDSERV	44	
HXBESWRK	48	
HXBFLAG1	5	
HXBID	0	C8E2E7C2
HXBINTRD	C	
HXBLEN	450	450
HXBP00FR	4C	
HXBPSOA	38	
HXBRSVRD	6	
HXBSAPIA	30	
HXBSJIOB	3C	
HXBSPLWT	1C	
HXBSTACA	34	
HXBTRE	10	
HXBUSECT	8	

Table 227. Cross Reference for \$HASXB (continued)

Name	Offset	Hex Tag
HXBUSER1	18	
HXBVRNUM	4	3
HXBVRSN	4	
HXBWRKSP	14	
HXB1B32K	5	10
HXB1E40I	5	8
HXB1PERM	5	80
HXB1P00F	5	4
HXB1REQ	5	20
HXB1SYS	5	40

\$HCCT information

\$HCCT programming interface information

The following fields are **NOT** programming interface information:

- CCTASYNC
- CCTAUXCB
- CCTBMAP
- CCTCBRT
- CCTCKPTP
- CCTCOMM
- CCTCSHED
- CCTCSTAI
- CCTDSB
- CCTECF
- CCTHTCBA
- CCTJOB
- CCTMLLM
- CCTMONCB
- CCTOFFM
- CCTPCEPE
- CCTPJCLQ
- CCTPSOQ
- CCTRCP
- CCTRCPCQ
- CCTSAPIQ
- CCTSAWST
- CCTSAWXN
- CCTSAWXO
- CCTSCIDS

- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

\$HCCT heading information

Common name:	HASP Common-storage Communication Table
Macro ID:	\$HCCT
DSECT name:	HCCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'HCCT' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage attributes:	Subpool: 228 Key: 1 Residency: Virtual and real storage are below 16M, in CSA. The storage is fixed in memory. Below 16M because it contains an extended ECB.
Size:	See the CCTLEN equate (plus an 8 byte prefix)
Created by:	Initialization of a JES2 subsystem address space, except for a 'hot start' initialization (the HCCT in CSA is just re-located in that case).
Pointed to by:	<ul style="list-style-type: none"> - The SSCTSUS2 field of the MVS SSCVT control block for the defined JES2 subsystem. - General register 11 when executing code in the 'USER' execution environment. - The \$HCCT field of the JES2 \$HCT control block. - The HFCTHCCT field of each JES2 \$HFCT control block. - The SDBHCCT field of each JES2 \$SDB control block. - The RIDHCCT field of each JES2 internal reader \$DCT control block. - The address word in the module entry labeled MAPHCCT in the JES2 \$MODMAP control block.
Serialization:	<ul style="list-style-type: none"> - Serialization depends on the field in question. - Fields might be serialized via Compare-and-swap. - Fields might be serialized via the JES2 Job Communications Queues (JCQ) logical lock. - Fields might be serialized implicitly, by being changeable only by the JES2 main task. - Fields might be serialized by MVS resource ENQ. - Fields might be serialized by the LOCAL/CMS locks.

Function:

The HCCT is the central common storage control block for a JES2 subsystem. It can be located from the MVS control blocks defining the subsystems. It, in turn, points to the major control block in the JES2 address space (\$HCT), those for application address spaces (\$HAVT, \$HASBs), those for FSS address spaces (\$FSSCBs), etc.

The HCCT also contains or points to most data used for communication between address spaces, whether for direct support of application requests for subsystem service (e.g. executing jobs, creating and writing to SYSOUT datasets), for JES2 subsystem utilities (e.g. its \$TRACE facility), or for other purposes. It also is the central location for any information that must be useable when JES2 experiences an outage, or that must be preserved across such an outage until a 'hot start' is performed.

The HCCT is used most importantly by the JES2 subsystem interface (SSI) function routines, which include all of the MVS/JES2 interactions in support of job execution and SYSOUT/SYSIN datasets.

\$HCCT mapping

Table 228. Structure HCCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCCT	
0	(0)	X'F'	0	CCTVRNUM	"15" HCCT version equate
0	(0)	ADDRESS	1	CCTVRSN	CONTROL BLOCK VERSION
1	(1)	BITSTRING	6		RESERVED FOR FUTURE USE
7	(7)	BITSTRING	1	CCTILVL	Service level
8	(8)	ADDRESS	4	CCTOFSTB	Address of offset table, at HCCT offset +8
12	(C)	ADDRESS	4	CCTLMT1	Address of first CSA LMT, if any
16	(10)	CHARACTER	8	CCTPVRSN	Copy of HCT \$VERSION. Permanently set to 'SP 5.3.0' (Do not remove)
DEFINE CONSTANTS. MOVED FROM THE \$HCT IN HASPIRMA.					
24	(18)	CHARACTER	64	CCTBLN64	64 CHARACTERS OF BLANKS
24	(18)	X'18'	0	CCTBLNKS	"CCTBLN64,32,C'C'" 32 CHARACTERS OF BLANKS
88	(58)	BITSTRING	64	CCTZEROS	---+ 64 characters of HEX zero
88	(58)	X'58'	0	CCTZERO	"CCTZEROS,64,C'X'" | Alternate name for CCTZEROS
152	(98)	ADDRESS	4	CCTFFS(16)	--+ 16 words of FF's
152	(98)	X'98'	0	CCTNEG1	"CCTFFS,4,C'F'" Fullword of X'FF's
152	(98)	X'98'	0	CCTALLFF	"CCTNEG1" ALTERNATE NAME FOR CCTNEG1
152	(98)	X'94'	0	CCTZEROF	"CCTFFS-4,8,C'X'" Word of 0 and word of Fs
216	(D8)	SIGNED	4	CCTF1	FULLWORD CONSTANT 1
216	(D8)	X'DA'	0	CCTH1	"CCTF1+2,2,C'H'" HALFWORD CONSTANT 1
220	(DC)	SIGNED	4	CCTF2	FULLWORD CONSTANT 2
220	(DC)	X'DE'	0	CCTH2	"CCTF2+2,2,C'H'" HALFWORD CONSTANT 2
224	(E0)	SIGNED	4	CCTF4	FULLWORD CONSTANT 4

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
224	(E0)	X'E2'	0	CCTH4	"CCTF4+2,2,C'H'" HALFWORD CONSTANT 4
228	(E4)	SIGNED	4	CCTF6	FULLWORD CONSTANT 6
228	(E4)	X'E6'	0	CCTH6	"CCTF6+2,2,C'H'" HALFWORD CONSTANT 6
232	(E8)	SIGNED	4	CCTF8	FULLWORD CONSTANT 8
232	(E8)	X'EA'	0	CCTH8	"CCTF8+2,2,C'H'" HALFWORD CONSTANT 8
236	(EC)	SIGNED	4	CCTF12	FULLWORD CONSTANT 12
236	(EC)	X'EE'	0	CCTH12	"CCTF12+2,2,C'H'" HALFWORD CONSTANT 12
240	(F0)	SIGNED	4	CCTF16	FULLWORD CONSTANT 16
240	(F0)	X'F2'	0	CCTH16	"CCTF16+2,2,C'H'" HALFWORD CONSTANT 16
244	(F4)	SIGNED	4	CCTF255	FULLWORD CONSTANT 255
244	(F4)	X'F6'	0	CCTH255	"CCTF255+2,2,C'H'" HALFWORD CONSTANT 255
244	(F4)	X'F4'	0	CCT000F	"CCTF255" Fullword X'000000FF'
248	(F8)	SIGNED	4	CCTF4096	FULLWORD CONSTANT 4096
248	(F8)	X'FA'	0	CCTH4096	"CCTF4096+2,2,C'H'" HALFWORD CONSTANT 4096
252	(FC)	BITSTRING	4	CCT0FFF	FULLWORD THREE BYTE MASK
256	(100)	BITSTRING	4	CCT7FFF	FULLWORD HIGH BIT OFF MASK
256	(100)	X'100'	0	CCTFMAX	"CCT7FFF" Fullword largest + number
256	(100)	X'100'	0	CCTHMAX	"CCT7FFF,2,C'H'" Halfword largest + number
260	(104)	ADDRESS	4	CCTHIBIT(0)	Fullword high bit on
264	(108)	ADDRESS	4	CCTBADA(16)	BAD value
SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.					
328	(148)	ADDRESS	1	CCTJSPLL	Length of JESSPOOL class
329	(149)	CHARACTER	8	CCTJSPLV	JESSPOOL class
329	(149)	X'148'	0	CCTJSPL	"CCTJSPLL,*-CCTJSPLL,C'X'" JESSPOOL SAF class
337	(151)	CHARACTER	1	CCTBDJNC	Bad job name character
338	(152)	BITSTRING	2		Reserved for future use
HEX translate table					
338	(152)	X'64'	0	CCTXTRAN	"*-C'0',256,C'C'" Hexadecimal-to-EBCDIC
340	(154)	CHARACTER	16		translate table
COMMUNICATION CONTROL FIELDS					
356	(164)	ADDRESS	4	CCTSSVT	SUBSYSTEM VECTOR TABLE ADDRESS
360	(168)	ADDRESS	4	CCTCADDR	ADDR OF COMMON STORAGE ADDR TBL
364	(16C)	ADDRESS	4	CCTCTABS	Addr of CP00L tables
368	(170)	ADDRESS	4	CCTCPIDX	Addr of CSA CP00L index
372	(174)	ADDRESS	4	CCTHCT	ADDRESS OF HASP HCT
376	(178)	ADDRESS	4	CCTHTCBA	JES2 MAIN-TASK TCB ADDRESS

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
380	(17C)	BITSTRING	8	CCTJSTKN	STOKEN of the JES2 addrspc, unique for this MVS IPL, see CCTASCB for ASCB addr
388	(184)	BITSTRING	8	CCTJXTKN	STOKEN of the JES2AUX AS see CCTXASCB for ASCB addr
396	(18C)	BITSTRING	8	CCTXCTKN	STOKEN of the JESXCF AS
404	(194)	ADDRESS	4	CCTAMVEC	VECTOR TABLE FOR
408	(198)	ADDRESS	4		SVC111 INTERFACE
412	(19C)	ADDRESS	4	CCTSSCT	ADDRESS OF SSCT
416	(1A0)	ADDRESS	4	CCTCVCB	Addr of 1st CVCB
420	(1A4)	ADDRESS	4	CCTSCIDS	ADDR CKPT SCID CONTROL BLCK
424	(1A8)	ADDRESS	4	CCTHAVT	JES2 ADR SPACE VECTOR TABLE
428	(1AC)	ADDRESS	4	CCTAUXCB	Addr of AUX AS Work area
432	(1B0)	ADDRESS	4	CCTXASCB	AUX address space ASCB
436	(1B4)	ADDRESS	4	CCTBMAPS	BERT translation maps
440	(1B8)	ADDRESS	4	CCTCBRT	\$CATBERT pointer
444	(1BC)	ADDRESS	4	CCTDAS1	ADDRESS OF FIRST DAS
448	(1C0)	ADDRESS	4	CCTETDEF	Common PC routines ETDEFS
452	(1C4)	SIGNED	4	CCTSYSLX	JES2's system LX
456	(1C8)	ADDRESS	4	CCTIINFO	Addr of installation info for version SSI call
460	(1CC)	ADDRESS	4	CCTSINFO	Addr of system information for version SSI call
464	(1D0)	ADDRESS	4	CCTMONCB	Addr of monitor AS workarea
468	(1D4)	ADDRESS	4	CCTMASCB	Monitor address space ASCB
472	(1D8)	ADDRESS	4	CCTNITBL	NIT addr in data space
476	(1DC)	SIGNED	2	CCTNITSZ	NIT element size
478	(1DE)	SIGNED	2	CCTJQELN	Total length of a JQE
480	(1E0)	ADDRESS	4	CCTPIT	Addr of first initiator PIT
484	(1E4)	ADDRESS	2	CCTPITNM	Number of pits in CSA
486	(1E6)	ADDRESS	2		Reserved
488	(1E8)	ADDRESS	4	CCTSCATP	Pointer to SCAT
492	(1EC)	ADDRESS	4	CCTTED	Addr of Trace enablement descriptor
496	(1F0)	ADDRESS	4	CCTTOKA	Address of JES2 token
500	(1F4)	CHARACTER	1	CCTRCOMC	JES2 Reader command char
501	(1F5)	CHARACTER	1	CCTCOMCH	JES2 Command character (OS/390 command input)
502	(1F6)	BITSTRING	1	CCTDSTFL	USERDEST flags - see HCT field \$DESTFLG
503	(1F7)	BITSTRING	1	CCTFLAG0	FLAG BYTE 0
		.1..		CCTSTDSI	"B'01000000'" JES2 started without the NODSI PPT/SCHEDxx option
		..1.		CCTINCHK	"B'00100000'" Init deck check option
504	(1F8)	CHARACTER	4	CCTSID	Alphanumeric member name
508	(1FC)	CHARACTER	8	CCTMVSNM	MVS system name
516	(204)	ADDRESS	4	CCTRBGN	IOT REUSE START THRESHOLD
520	(208)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
524	(20C)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
528	(210)	ADDRESS	4	CCTINXTB	ADDRESS OF REASON INDEXTBLE
532	(214)	ADDRESS	4	CCTQINDX	Address of Que Index table
536	(218)	ADDRESS	4	CCT#INDX	Address of copy of sysout class queue index
540	(21C)	ADDRESS	4	CCTXMAQ	Address of XMAQENTs (XCF member status table)
544	(220)	ADDRESS	4	CCTJACCT	Addr of JES2-NET acct table
548	(224)	ADDRESS	4	CCTNACCT	Addr of NET-JES2 acct table
552	(228)	ADDRESS	8	CCTASDSP	ASDS data store-ptr to 1st ASDS entry (64bit Common)
560	(230)	SIGNED	4	CCTEVTA	EVT ALET
564	(234)	ADDRESS	4	CCTENFST	ENF stub routines
568	(238)	ADDRESS	8	CCTCDCTQ	Address of local CDCTQHDS
Data space control block (DSB) anchors					
576	(240)	ADDRESS	4	CCTDSB	Anchor for all JES2 DSBs
SPOOL constants					
580	(244)	ADDRESS	2	CCTBFSIZ	Spool buffer size
582	(246)	SIGNED	2	CCTNSPL	Max number of spool volumes
582	(246)	X'247'	0	CCTNSPB	"CCTNSPL+1,1" allowed (one byte version)
584	(248)	ADDRESS	1	CCTNORTK	Records per track based on \$BUFSIZE and a 3390 device
585	(249)	ADDRESS	1	CCTTKCEL	TRAKCELL size in buffers
586	(24A)	SIGNED	2	CCTSPLNM	Copy of \$SPOLNUM from HCT (can update via command)
THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO. EACH ELEMENT IS CURRENTLY 8 BYTES LONG. SIMILIAR FIELDS ALSO EXIST IN THE \$HCT AND THE \$SJXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE \$HCT AND \$SJXB ARE ALSO UPDATED. DO NOT DELETE ANY RESERVED FIELDS IN HERE EITHER.					
588	(24C)	ADDRESS	4	CCTEST1(0)	FIRST ESTIMATED COUNT TABLE
588	(24C)	BITSTRING	12	(0)	Keep next 12 bytes together
588	(24C)	ADDRESS	4	CCTPGINT	EST PAGE MSG INTERVAL
592	(250)	ADDRESS	1		EXECUTION PAGE OPTION
593	(251)	ADDRESS	3		RESERVED
596	(254)	SIGNED	4		PAGE default estimate
600	(258)	BITSTRING	12	(0)	Keep next 12 bytes together
600	(258)	ADDRESS	4	CCTTOTINT	EST BYTE MSG INTERVAL
604	(25C)	ADDRESS	1		EXECUTION BYTE OPTION
605	(25D)	ADDRESS	3		RESERVED
608	(260)	SIGNED	4		BYTE default estimate
612	(264)	BITSTRING	12	(0)	Keep next 12 bytes together
612	(264)	ADDRESS	4	CCTLNINT	EST LINE MSG INTERVAL
616	(268)	ADDRESS	1		EXECUTION LINE OPTION
617	(269)	ADDRESS	3		RESERVED
620	(26C)	SIGNED	4		LINE default estimate

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
624	(270)	BITSTRING	12	(0)	Keep next 12 bytes together
624	(270)	ADDRESS	4	CCTPUINT	EST CARD MSG INTERVAL
628	(274)	ADDRESS	1		EXECUTION PUNCHED CARD OPTION
629	(275)	ADDRESS	3		RESERVED
632	(278)	SIGNED	4		PUNCH default estimate
636	(27C)	BITSTRING	12	(0)	Keep next 12 bytes together
636	(27C)	ADDRESS	4	CCTTMINT	XEQ TIME MSG INTERVAL
640	(280)	ADDRESS	1	CCTTIMOP	EXECUTION TIME OPTION
641	(281)	ADDRESS	3		RESERVED
644	(284)	SIGNED	4		TIME default estimate
END OF THE ESTIMATED COUNT FIELDS DEFAULT PRIORITY TABLE FOR ESTIMATED ELAPSED TIME. EACH TABLE ENTRY CONSISTS OF TWO FIELDS. THE FIRST FIELD IS THE PRIORITY FOR THE INTERVAL AND THE SECOND FIELD DEFINES THE SIZE OF THE INTERVAL.					
648	(288)	BITSTRING	40	CCTIMETB(0)	ESTIMATED TIME PRIORITY TABLE
648	(288)	ADDRESS	1		FIRST INTERVAL
652	(28C)	ADDRESS	1		SECOND INTERVAL
656	(290)	ADDRESS	1		THIRD INTERVAL
660	(294)	ADDRESS	1		FOURTH INTERVAL
664	(298)	ADDRESS	1		FIFTH INTERVAL
668	(29C)	ADDRESS	1		SIXTH INTERVAL
672	(2A0)	ADDRESS	1		SEVENTH INTERVAL
676	(2A4)	ADDRESS	1		EIGHTH INTERVAL
680	(2A8)	ADDRESS	1		NINTH INTERVAL
684	(2AC)	ADDRESS	4		
Copies of HCT fields needed for input processing					
688	(2B0)	BITSTRING	1	CCTROPTS	JES2 run options (\$RUNOPTS)
689	(2B1)	BITSTRING	1	CCTJOPTS	Job card options (\$RJOB OPT)
690	(2B2)	ADDRESS	1	CCTLINCT	Max line per page (\$LINECT)
691	(2B3)	BITSTRING	1	CCTJOPT2	Job options (\$RJOBOP2)
692	(2B4)	CHARACTER	8	CCTSTFRM	Standard forms (\$STDFORM)
700	(2BC)	ADDRESS	3	CCTTO(0)	OWN NODE INFORMATION
700	(2BC)	ADDRESS	2	CCTTONOD	OWN NODE ID (BINARY)
702	(2BE)	ADDRESS	1	CCTTOQUL	Own node system ID (binary)
703	(2BF)	CHARACTER	9	CCTNDE(0)	Node name and length
703	(2BF)	BITSTRING	1	CCTNDENL	Actual length of node name
704	(2C0)	CHARACTER	8	CCTNDENM	NODE NAME
712	(2C8)	ADDRESS	2	CCTNONOD	MAXIMUM NODE NUMBER
714	(2CA)	ADDRESS	2	CCTROUT	HIGHEST DEFINED RJE
716	(2CC)	ADDRESS	4	CCTPCT	PCT address
720	(2D0)	ADDRESS	4	CCTRRT	ADDR OF RMT ROUTING EQUIV TABLE
724	(2D4)	ADDRESS	4	CCTRDT	ADDRESS OF REMOTE DESTINATION TABLE
728	(2D8)	ADDRESS	4	CCTRDTA	ALET for RDT data space
732	(2DC)	ADDRESS	4	CCTNITA	ALET for NIT data space

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
736	(2E0)	ADDRESS	4	CCTIRSMD	Storage for IR IRIS models
740	(2E4)	ADDRESS	4	CCTBATMD	Address of the BATCH internal reader model IRIS
744	(2E8)	ADDRESS	4	CCTSBJMD	Address of the submit job internal reader model IRIS
748	(2EC)	ADDRESS	4	CCTSTCMD	Address of the STC internal reader model IRIS
752	(2F0)	ADDRESS	4	CCTTSOMD	Address of the TSO internal reader model IRIS
756	(2F4)	ADDRESS	4	CCTREQJI	Request jobid specification
760	(2F8)	ADDRESS	4	CCTXITA	ADDRESS OF XIT TABLE
764	(2FC)	ADDRESS	4	CCTTPHZ	Address of Job Phase text table
768	(300)	ADDRESS	4	CCTTDLY	Address of job delay text table
EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. CCTFLAG6 must be kept in sync with: \$FLAG6 in the HCT PDBEVTLS in the Pddb NJH2FLG2 in the NJE job header					
772	(304)	BITSTRING	1	CCTFLAG6	FLAG BYTE 6 (\$FLAG6)
		1...		CCT6ESMF	"B'10000000" Suppress EVENTLOG SMF rec
		..1.		CCT6ERST	"B'00100000" Suppress EVENTLOG RESTART
		...1		CCT6ETRC	"B'00010000" Suppress EVENTLOG TRACE r
		.... 1...		CCT6EUSR	"B'00001000" Suppress EVENTLOG USER rc
773	(305)	BITSTRING	1	CCTKFCF7	FLAG BYTE 7 (\$KFCFLG7)
		1...		CCT7EVTW	"B'10000000" Suppress EVENTLOG writes
		.1..		CCT7NNJE	"B'01000000" Suppress non-printable data sets on NJE
		..1.		CCT7NDRX	"B'00100000" Suppress data repository processing
		...1		CCT7NJHS	"B'00010000" Suppress job history collection
		.... 1...		CCT7JHRS	"B'00001000" Job history recently suppressed
		.... .1..		CCT7NSNQ	"B'00000100" Suppress system data set ENQs
		.... ..1.		CCT7NEJS	"B'00000010" Suppress enhanced job selection
774	(306)	BITSTRING	1	CCTFLAGA	FLAG BYTE 10 (\$FLAGA)
		1...		CCTAENCS	"B'10000000" Encryption support has been activated at least once. Once set, down level MAS members (<2.4) may not join. Once set never unset
		.1..		CCTAENCA	"B'01000000" Data set encryption is allowed.
		..1.		CCTAADVA	"B'00100000" Always create advanced format HDBs
775	(307)	BITSTRING	1		Reserved

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
JECL validity vectors					
776	(308)	ADDRESS	4	CCTJVSTC	Addr STC JECL validity tbl
780	(30C)	ADDRESS	4	CCTJVTSU	Addr TSU JECL validity tbl
784	(310)	ADDRESS	4	CCTJVJOB	Addr JOB JECL validity tbl
788	(314)	SIGNED	4	CCTSEGLM	SEGMENT LIMIT FOR A GIVEN SYSOUT DATA SET
792	(318)	SIGNED	4	CCTSPLCL	MAX SPECIAL LOCAL ROUTE
796	(31C)	SIGNED	4	(0)	Align HFAME's
796	(31C)	CHARACTER	72	CCTCKPT1	CKPT1 HFAME
868	(364)	CHARACTER	1	CCTCKPT2	CKPT2 HFAME
MAIN TASK AUTHORIZATION INDEX FOR CROSS MEMORY					
940	(3AC)	SIGNED	4	CCTAXL(0)	AUTHORIZATION INDEX (AX) LIST
940	(3AC)	SIGNED	2	CCTAXN	NUMBER OF AXS REQUESTED
942	(3AE)	SIGNED	2	CCTAXV	VALUE (AX) RETURNED BY AXRES
DATA BLOCKS					
904	(388)	X'388'	0	CCTDCB	"*" SYS1.HASPACE DCB
944	(3B0)	ADDRESS	4	(3)	12-BYTE MEAT OF DCB
956	(3BC)	ADDRESS	4	CCTDEBFX	Ptr to JES2 CSA DA DEB prefix template
SWB MANAGEMENT					
960	(3C0)	ADDRESS	4	CCTKEYTB	ADDRESS OF KEYLIST TABLE
968	(3C8)	DBL WORD	8	CCTJDVT	SJF JDVT NAME
XCF Group token					
976	(3D0)	ADDRESS	4	CCTIXVT	XCF Group token
980	(3D4)	CHARACTER	8	CCTGPNM	XCF group name
ECB extensions (HAM and general processing)					
988	(3DC)	ADDRESS	4	CCTSDADR(0)	Address of ECB extension with bits on indicating initialized
992	(3E0)	SIGNED	4	CCTSDECX(0)	ECB Extension for \$EXCP <-- issued in USER environ. | that uses a \$SDB |
996	(3E4)	ADDRESS	4	CCTSDPEX	"V(HAMPSTER)" EXCP Post Exit address in | USER environment <--
1000	(3E8)	ADDRESS	4	CCTGRADR(0)	Address of ECB extension with bits on indicating initialized
1004	(3EC)	SIGNED	4	CCTGRECX(0)	ECB Extension used to <-- invoke routines when | the ECB is posted |
1008	(3F0)	ADDRESS	4	CCTGRPEX	"V(\$ECBEXIT)" ECB Posting validation | and processing routine <--
Keep the EBCDIC level and binary product/service levels together. The field SSCTSUSE points to the field CCTLEVEL.					
1012	(3F4)	BITSTRING	10	CCTJES2_LEVEL(0)	<-- Level information

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1012	(3F4)	CHARACTER	8	CCTLEVEL	| OS V.R.M, product version | of JES2, copy of \$LEVEL, | pointed to by SSCTSUSE
1020	(3FC)	ADDRESS	1	CCTPLVL	| Binary product level
1021	(3FD)	ADDRESS	1	CCTSLVL	<-+ Binary service level
1022	(3FE)	BITSTRING	1	CCTMON#	Monitor AS number
1023	(3FF)	BITSTRING	1		Reserved for future use
1024	(400)	ADDRESS	4	(5)	Reserved for future use
GENERIC GROUPING KEY LISTS.					
1044	(414)	SIGNED	2	CCTGGDKN	NUMBER OF GROUPING KEYS FOR SYSTEM-DEFAULT JDVT
1046	(416)	CHARACTER	2	CCTGGRSV	RESERVED FOR FUTURE USE
1048	(418)	ADDRESS	4	CCTGGDKL	ADDRESS OF KEY LIST FOR SYSTEM-DEFAULT JDVT
1052	(41C)	ADDRESS	4	CCTGGDKB	ADDRESS OF KEY LIST BLOCK FOR SYSTEM-DEFAULT JDVT
1056	(420)	ADDRESS	4	CCTGGFKB	ADDRESS OF KEY LIST BLOCK FOR FIRST NON-DEFAULT JDVT
Declare the major name and field to hold this subsystem's name for ENQ/DEQ use of the CSA cell fields. Next five fields must be kept together (CCTQNAM to CCTSSVS)					
1060	(424)	CHARACTER	8	CCTQNAM(0)	QNAME FOR ALL HASP ENQS
1060	(424)	CHARACTER	4		'SYSZ'
1064	(428)	CHARACTER	8	CCTSNV(0)	Jes name and version
1064	(428)	CHARACTER	4	CCTSSNM	Name of subsystem
1068	(42C)	CHARACTER	4	CCTSSVS	Version, release, mod
1072	(430)	BITSTRING	1	CCTSSNML	Holds actual length of subsystem name in CCTSSNM field
1073	(431)	BITSTRING	3		Reserved
1076	(434)	BITSTRING	8	CCTCOLDT	Cold start time (used as a unique JESPLEX identifier)
1084	(43C)	CHARACTER	4	CCTESSNM	Emergency subsystem name
1088	(440)	ADDRESS	4	CCTESCVT	Address of Emergency subsystem Communication Vector table (SCVT)
1092	(444)	ADDRESS	4	CCTESSVT	Emergency subsystem SSVT
MINOR RESOURCE NAME FOR INTERNAL READER RESOURCE					
1096	(448)	CHARACTER	8	CCTRDRC	Minor name for internal reader resource
Minor resource name for ENQ/DEQ of SVJ Lock					
1104	(450)	CHARACTER	8	CCTSVJLK	RNAME name for SVJ lock resource
Minor resource name for ENQ/DEQ of SAPID lock					
1112	(458)	CHARACTER	8	CCTSAPLK	RNAME name for SAPID lock resource

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Table pair for user environment \$BLDMSG calls Note: There is no JES2 table pair for this; the HASP TABLEs are implemented as DYNAMIC tables so both the main task and user environment tables can be pointed to by the main MCT table pair.					
1120	(460)	ADDRESS	4	CCTMGTP(0)	USER ENVIRONMENT \$BLDMSG
1120	(460)	ADDRESS	4	CCTMGTU	"V(USERMGT)" User table
1124	(464)	ADDRESS	4		HASP table
1128	(468)	ADDRESS	4	CCTMGTD	Dynamic table array
RETURN CONTROL ELEMENTS					
1134	(46E)	ADDRESS	2		RESERVED FOR FUTURE USE
1136	(470)	ADDRESS	4	(9)	Reserved
1172	(494)	ADDRESS	4	CCTJADDR	IAZJADDR pointer
1176	(498)	ADDRESS	4	CCTSTUBA	CCTSTUB pointer (stub routines
1180	(49C)	ADDRESS	4	CCTXCBF	Cross system data retrieval work area
1184	(4A0)	CHARACTER	8	CCTXNODE	Nodename when JESXCF attach was done (in our member name)
1192	(4A8)	BITSTRING	28	CCTJXCFC	JESXCF diagnostic area
1220	(4C4)	BITSTRING	1	CCTXSTS1	JES2AUX services flags (Use OIL/NIL to update)
		1...		CCTX1AVL	"B'10000000" Cross-system data task was available at least once since JES2 start
		.1..		CCTX1INI	"B'01000000" Cross-system data task is ready for use
		..1.		CCTX1GLA	"B'00100000" Jobgroup logging task was available at least once since JES2 start
		...1		CCTX1GLI	"B'00010000" Jobgroup logging task is ready for use
		.... 1...		CCTX1JXF	"B'00001000" JESXCF has failed - set when AS goes through EOM
		.... .1..		CCTX1SNQ	"B'00000100" System data set ENQ subtask is ready for use
1221	(4C5)	BITSTRING	1	CCTEDSSF	Email services flags:
		1...		CCTEDISA	"B'10000000" EDS not avail in MAS
		.1..		CCTEDISM	"B'01000000" EDS not avail on this mbr
1222	(4C6)	BITSTRING	1	CCTRESIL	Resiliency flags:
		1...		CCTRESPL	"B'10000000" MAS is experiencing a SPOOL shortage and all non-PRIV jobs must wait for shortage to abate
		.1..		CCTPROMO	"B'01000000" PRIV support has given green light for non-priv jobs to use priv TGs. Only valid if shortage exists.
		..1.		CCTLIMP	"B'00100000" PRIV small environment and KBL0B fill for this member is running in limp mode. See KBL0B for details.
		...1		CCTLNOS4	"B'00010000" No non-priv waiters - STRAK or TRAK at KBL0B step #4

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... 1...		CCTLRACT	"B'00001000'" There are active jobs affected by rsrc limit with action WAIT or FAIL
1223	(4C7)	BITSTRING	1	CCTPRVRE	In limp mode this is number of TGBs to be reserved for privileged jobs.
1224	(4C8)	CHARACTER	8	CCTFMID	JES2 FMID
1232	(4D0)	SIGNED	4	CCTJQENM	Copy of \$JQENUM (# of JQEs)
1236	(4D4)	ADDRESS	4	CCTZGLA	Jobgroup logging task work area
1240	(4D8)	BITSTRING	4	CCTJ2CL	JES2 JECL options (copy of \$J2CLOPT)
1244	(4DC)	BITSTRING	4	CCTJ3CL	JES2 JECL options (copy of \$J3CLOPT)
1248	(4E0)	ADDRESS	8	CCTCK64	4K pages 64 bit area
1256	(4E8)	SIGNED	8	CCTCK64L	Segments for 4K page area
1264	(4F0)	SIGNED	4	CCTGCNUM	Copy of \$CONJNUM (maximum number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set).
1268	(4F4)	SIGNED	4	CCTGJNUM	Copy of \$ZODJNUM (maximum number of jobs allowed to be defined in a JOBGROUP)
1272	(4F8)	ADDRESS	4	CCTEDSA	Email delivery services work area
1276	(4FC)	SIGNED	4	CCTLMDCT	Count of LMDs on chain
1280	(500)	ADDRESS	8	CCTLMDAD	Current LMD pointer
1288	(508)	ADDRESS	8	CCTLMDLS	Last LMD pointer
1296	(510)	ADDRESS	8	CCTLMDSM	LMD pending write in type 1153 SMF record
1304	(518)	ADDRESS	8	CCTLMD84	LMD pending write in type 84 SMF record
1312	(520)	CHARACTER	8	CCTSNVRR	Subsys name and versn for RACROUTE
1320	(528)	ADDRESS	8	CCTCPIC	Current CKPINFO block (64 bit JES2 private)
1328	(530)	SIGNED	4	CCTLMFR	Number of available TGS in BLOB. Only valid in limp mode. See KBLOB for details.
1332	(534)	ADDRESS	4	CCTDRCSA	DREPCSA data area address
1336	(538)	ADDRESS	8	CCTPCYHD	Policy header structure (64 bit common)
1344	(540)	ADDRESS	8	CCTRGBP	Resource group CB (64 bit common)
1352	(548)	CHARACTER	8	CCTEMSTK	Name of TCP/IP stack for email
1360	(550)	CHARACTER	8	CCTJNSTK	Name of TCP/IP stack for job notifications
Resources available to jobs under resource limit management (total minus reserved for privileged jobs).					
1368	(558)	SIGNED	4	CCTBRAVL	BERT resource
1372	(55C)	SIGNED	4	CCTJQAVL	JQE resource
1376	(560)	SIGNED	4	CCTTGAVL	TG resource
1380	(564)	SIGNED	4	CCTJOAVL	JOE resource
1384	(568)	ADDRESS	4	CCTSNQA	SNQ CB address

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
End of Read only (or rarely updated) fields ORG to the next 256 byte memory cache line. This keeps read only fields on a separate cache line from frequently updated fields. NOTE: The ORG to the next 256 byte memory cache line also creates reserved bytes that can be used by the service team to maintain JES2. NOTE: Since the HCCT is obtained on a 256 byte boundary and it starts with a CSA prefix that is not in the HCCT, we need to account for the CSA prefix when rounding.					
Start of often updated HCCT fields USER COMMON STORAGE FIELDS.					
1528	(5F8)	ADDRESS	4	CCTCUCT	Common user communication table
1532	(5FC)	ADDRESS	4	CCTUCADD	Addr of user common addr table
1536	(600)	ADDRESS	4	CCTUSER1	User field one
1540	(604)	ADDRESS	4	CCTUSER2	User field two
1544	(608)	ADDRESS	4	CCTUSER3	User field three
1548	(60C)	ADDRESS	4	CCTUSER4	User field four
1552	(610)	ADDRESS	4	CCTHASP	HASP condition = 0 - Still up = -1 - ABENDED or ABENDING = +1 - \$PJES2 accepted
1552	(610)	X'1'	0	CCTPJES2	"1" \$PJES2 accepted
		1...		CCTHOTST	"X'80'" Hot Start Indicated
1552	(610)	BITSTRING	0	CCTABEND	"X'FFFFFFF'" JES2 has abended
1556	(614)	BITSTRING	1	CCTSTUS	Subsystem status byte
		1...		CCTSTUSP	"X'80'" This is the primary subsystem
		.1..		CCTSTUST	"X'40'" HASP termination complete
		..1.		CCTSTUSR	"X'20'" HASP is restarting
		...1		CCTSMVFN	"X'10'" SP00L fencing active
		.... 1...		CCTSTIRV	"X'08'" CHKPT device reserved by INIT
		.... .1..		CCTSTPJF	"X'04'" \$PJES2,ABEND,FORCE issued
		.... ..1.		CCTSLGDS	"X'02'" Large SP00L DS support act
		.... ...1		CCTSTRPL	"X'01'" A re-IPL is required
1557	(615)	BITSTRING	1		Reserved
1558	(616)	SIGNED	2	CCTMASVR(0)	Versions active in JESplex (copy of \$MASVER)
1558	(616)	SIGNED	1	CCTHIGHV	Highest active JES2
1559	(617)	SIGNED	1	CCTLOWV	Lowest active JES2
1560	(618)	DBL WORD	8	(0)	Doubleword align next
1560	(618)	BITSTRING	16	CCTJ2WAT	Time of last main task wait
1576	(628)	BITSTRING	16	CCTJ2DSP	Time of last main task post
1592	(638)	BITSTRING	4	CCTMEMUP	Copy of XMAMEMUP (members that HASPXCF considers up)
1596	(63C)	ADDRESS	4	CCTRPCQ	Remote Console Processor FIFO CSA CMB queue
1600	(640)	ADDRESS	4	CCTINTRE	Address of first INTRDR element (IRE)
1604	(644)	ADDRESS	1	CCTMVER	Checkpoint level (\$MSTRVER)
1605	(645)	BITSTRING	1	CCTFLAG1	FLAG BYTE
		1...		CCT1PJ2T	"B'10000000'" \$PJES2,TERM processing has started

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CCT1PRDF	"B'01000000'" PREFIX DEFINED
		..1.		CCT1SSYS	"B'00100000'" CONDEF SCOPE=SYSTEM
		...1		CCT1SSYP	"B'00010000'" CONDEF SCOPE=SYSPLEX
		.... 1...		CCT1CKWI	"B'00001000'" Checkpoint write is in progress
		.... .1..		CCT1PJSA	"B'00000100'" \$PJES2,ABEND issued
		.... ..1.		CCT1PJAC	"B'00000010'" \$PJES2,ABEND seen
		.... ...1		CCT1E58D	"B'00000001'" ENF 58 debug option (internal)
1606	(646)	BITSTRING	1	CCTFLAG2	Flag byte #2 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT2IRDR	"B'10000000'" Internal readers can be allocated
		.1..		CCT2BATR	"B'01000000'" Internal readers can be used to submit BATCH jobs
		..1.		CCT2PITC	"B'00100000'" PIT(s) with no SJB need to be cleaned up
		...1		CCT2CRCF	"B'00010000'" CKPT RECONFIG is pending or is in progress
		.... 1...		CCT20PRQ	"B'00001000'" Operator requested CKPT reconfiguration
		.... .1..		CCT2SAPI	"B'00000100'" SAPID scan needed
		.... ..1.		CCT2USJB	"B'00000010'" One or more SJBs have unspun IOTs to be processed
		.... ...1		CCT2PSO	"B'00000001'" PSO scan needed
1607	(647)	BITSTRING	1	CCTFLAG9	Flag byte #9
		1...		CCT9N0PR	"B'10000000'" There are non-priv \$TRACK waitors
		.1..		CCT91STK	"B'01000000'" 1st call to KBL0B within this checkpoint cycle. Up to user to reset this field after use.
		..1.		CCT9XSTA	"B'00100000'" Extended status SSI active
1608	(648)	BITSTRING	1	CCTFLAG3	Flag byte #3 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT3CONI	"B'10000000'" CONSOLE address space environment initialized
		.1..		CCT3CONT	"B'01000000'" CONSOLE address space environment termination requested
		..1.		CCT3INDM	"B'00100000'" System is in independent mode
		...1		CCT3NHSB	"B'00010000'" An SJB has been newly removed from the HASB
		.... 1...		CCT3NEOM	"B'00001000'" An SJB has been newly placed on the EOM queue
		.... .1..		CCT3PJ2T	"B'00000100'" \$P JES2,TERM has begun
		.... ..1.		CCT3MCJC	"B'00000010'" At least 1 multi char batch jobclass exists
		.... ...1		CCT3AUTO	"B'00000001'" CYCLEMGT=AUTO
1609	(649)	BITSTRING	1	CCTFLAG4	Flag byte #4 JES2 health check indicators
		1...		CCT432OK	"B'10000000'" 3.2 CKPT Mode activation already occurred

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1..		CCT4REC1	"B'01000000'" CKPT1 needs additional 4K records = see CCTHCRC1
		..1.		CCT4REC2	"B'00100000'" CKPT2 needs additional 4K records - see CCTHCRC2
		...1		CCT4BERT	"B'00010000'" Additional BERTS needed - see CTTTCBRT
		.... 1...		CCT4ADVF	"B'00001000'" ADVANCED_FORMAT needs to be enabled
		.... .1..		CCT4MBR	"B'00000100'" One or more MAS members not at z/OS 3.2
		.... ..1.		CCT4JOBQ	"B'00000010'" JOB/OUTPUT queue error prevents both Z22 and Z32 activation.
		.... ...1		CCT4CRBR	"B'00000001'" Critical BERT shortage prevents both Z22 and Z32 activation.
1610	(64A)	BITSTRING	1	CCTFLAG5	Flag byte #5 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT5DSRG	"B'10000000'" Large dataset name range enabled
		.1..		CCT5PSTV	"B'01000000'" New CKPT version needed
		..1.		CCT5ENFJ	"B'00100000'" Send ENF 58/70/78 to JESplex only
		...1		CCT5OMVA	"B'00010000'" OMVS is currently active
		.... 1...		CCT5OMVC	"B'00001000'" OMVS status has changed
1611	(64B)	BITSTRING	1	CCTTEST	Reserved for IBM testing
		1...		CCTTENF	"B'10000000'" Simulate ENF failure
		.1..		CCTTNCMP	"B'01000000'" Bypass compression
1612	(64C)	BITSTRING	1	CCTDEBUG	Debug options (\$DEBGOP5)
1613	(64D)	BITSTRING	1	CCTDEBG2	2nd debug opt (\$DEBGOP2)
1614	(64E)	BITSTRING	1	CCTDEBG3	3rd debug opt (\$DEBGOP3)
1615	(64F)	BITSTRING	1	CCTDEBG4	4th debug opt (\$DEBGOP4)
CCTFLAGJ is sent in the JESXCF status update message to all MAS members. Fields defining these bits are: JPX2STA3, XMAQSTA3, and XRESFLG2					
1616	(650)	BITSTRING	1	CCTFLAGJ	Additional status flags
		1...		CCTJTRCK	"B'10000000'" A TRACK exists for member
		.1..		CCTJALRT	"B'01000000'" An ALERT exists for member
		..1.		CCTJNTCE	"B'00100000'" A NOTICE exists for member
		...1		CCTJCRIT	"B'00010000'" at least 1 is critical
1617	(651)	BITSTRING	3		Reserved
1620	(654)	SIGNED	4	CCTCOMPT	Time of last processed ENF 86 (compliance ENF)
CONSOLE SERVICE ELEMENTS					
1624	(658)	BITSTRING	4	CCTCKCON	Console ID for operator requested CKPT reconfig.
1628	(65C)	SIGNED	4	CCTDOM86	DOM ID for HASP086
1632	(660)	ADDRESS	4	CCTCOMMQ	COMMAND PROCESSOR QUEUE

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1636	(664)	SIGNED	4	CCTCOMCT	In use count for commands
1640	(668)	SIGNED	4	CCTCMDMX	Maximum number of commands (CMDNUM on CONDEF)
1644	(66C)	SIGNED	4	CCTNMCUR	Current number notify CMBs
1648	(670)	SIGNED	4	CCTNMMAX	Maximum no.of notify CMBs
1652	(674)	SIGNED	4	CCTNMFAL	No. of NOTIFY failures
1656	(678)	ADDRESS	4	CCTCMQTP	Command processing queue from JECL (INTRDRs)
1660	(67C)	BITSTRING	4	CCTMEMAT	Copy of XMAMEMAT
1664	(680)	ADDRESS	4	CCTPRASC	PRIV job ASCB
1668	(684)	SIGNED	4	CCTPRECB	ECB - PRIV job needs TG and shortage exists
CROSS-SYSTEM REQUESTS CONTROL INFORMATION. THIS MUST BE MAINTAINED WITH COMPARE AND SWAP. NEW CROSS-SYSTEM REQUESTS ACCEPTED INDICATOR AND COUNT OF CROSS SYSTEM SERVICE REQUESTS (SPOOL DATA SET BROWSE AND JOB INFORMATION SERVICES). INITIALIZED BY HASPIRMA.					
1672	(688)	DBL WORD	8	CCTXSYS(0)	DOUBLE WORD FOR CDS
1672	(688)	BITSTRING	3		RESERVED FOR IBM USE
1675	(68B)	BITSTRING	1	CCTXSYSF	CROSS-SYSTEM REQUESTS ACCEPTED FLAG
		.... ...1		CCTNXSYS	"X'01'" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED
1676	(68C)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S
\$\$POST ELEMENTS -- REQUESTS FOR PCE SERVICE These post elements match order of PCEs listen in HCT. Any change made here must also be reflected in HCT.					
1680	(690)	DBL WORD	8	CCTECF(0)	ECF FIELD FOR \$\$POST, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE \$POSTED
1688	(698)	ADDRESS	4	CCTPCEPE(0)	START OF PCE \$\$POST ELEMENTS
1688	(698)	BITSTRING	5	CCTCOMM	\$COMPCE - commands
1692	(69C)	BITSTRING	5	CCTJOB	\$EXECPCE - XEQ services
		1...		CCTJOBPF	"X'80'" Job post flag
1696	(6A0)	BITSTRING	5	CCTASYN	\$ASYNPCE - asynch I/O
1700	(6A4)	BITSTRING	5	CCTXSTIM	\$XTIMPCE - time excession
1704	(6A8)	BITSTRING	5	CCTTIMER	\$TIMEPCE - STIMER
1708	(6AC)	BITSTRING	5	CCTTRPCE	\$TRCPCE - event trace log
1712	(6B0)	BITSTRING	5	CCTSPool	\$SPOLPCE - SPOOL
1716	(6B4)	BITSTRING	5	CCTMLLM	\$MLLPCE - line manager
1720	(6B8)	BITSTRING	5	CCTOFFM	\$SOMPCE - SPOOL offload
1724	(6BC)	BITSTRING	5	CCTCKPTP	\$CKPTPCE - checkpoint
1728	(6C0)	BITSTRING	5	CCTRC	\$MCONPCE - Remote Console
1732	(6C4)	BITSTRING	5	CCTSSPCE	\$SFSPCE -Schedulr Service
1736	(6C8)	BITSTRING	5	CCTENFP	\$ENFPCE - ENF listen PCE
1740	(6CC)	BITSTRING	5	CCTJQRP	\$JQRPCE - JQE request PCE
1744	(6D0)	BITSTRING	5	CCTMISC	\$MISCPCE - Miscellaneous
1748	(6D4)	BITSTRING	5	CCTDREP	\$DREPPCE - Repository PCE

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1748	(6D4)	X'10'	0	CCTPCENO	"(*-CCTPCEPE)/4" Number of PCE \$\$POST elmts
1752	(6D8)	BITSTRING	5	CCTPCEFL	Reserved
1756	(6DC)	BITSTRING	5		Reserved
CHAINING FIELD FOR THE CSA CELL SERVICES. \$GETCEL AND \$FRECEL IN HASCLINK. ALSO, THE CELL STORAGE ALLOCATED AND CELL STORAGE ALLOCATED BUT NOT IN USE FIELDS.					
1760	(6E0)	ADDRESS	4	CCTCSACH	CSA CELL CHAIN HEADER
1764	(6E4)	SIGNED	4	CCTCALLC	CSA ALLOCATED CELL STORAGE
1768	(6E8)	SIGNED	4	CCTCFREE	CSA FREE CELL STORAGE
Communication queues and WAIT/POST elements for main task communication with user address spaces. Cross-memory POST parameter list for use by \$\$POST. The ECB address actually points to a piece of fixed CSA containing the ECB, CCTPOSTW, and CCTBLANKs. CTPOSTE POST - , POST word 1 = main task ECB addr ASCB= - , POST word 2 = JES2 ASCB addr ERRET=CCTBR14 POST word 3 = CCTBR14 ECBKEY=YES POST word 4 = Key of ECB MACDATE 12/25/13					
1772	(6EC)	ADDRESS	4	CCTPOSTE	. 1ST WORD - ECB ADDRESS
1776	(6F0)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
1780	(6F4)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
1784	(6F8)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
1784	(6F8)	X'6EC'	0	CCTHECBA	"CCTPOSTE" ADDRESS OF MAIN HASP ECB
1784	(6F8)	X'6F0'	0	CCTASCB	"CCTPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
1784	(6F8)	X'6F8'	0	CCTHECBK	"CCTPOSTE+12,1" Storage key of HASP ECB
1784	(6F8)	X'4'	0	CCTPOSTW	"4" OFFSET TO \$\$POST WORK INDICATOR
1784	(6F8)	X'8'	0	CCTBLANK	"8" 48 FIXED BLANKS
1784	(6F8)	X'38'	0	CCTFIXL	"4+1+3+48" LENGTH OF FIXED CSA SPACE
1788	(6FC)	SIGNED	4	(0)	Align CCTCGECB
1788	(6FC)	BITSTRING	1	CCTCGECB	CSA general ECB/XECB
The SJB job communication queues. HASCSRJB is dependent on any SJB queue that could be a valid value for the SJBQUEUE field in the SJB to be between CCTSJBB and CCTSJBE.					
1812	(714)	ADDRESS	4	CCTSJBB(0)	Beginning of SJB queues <----
1812	(714)	ADDRESS	4	CCTJPCLS	SJBS PENDING JOB-BY-CLASS |
1816	(718)	ADDRESS	4	CCTJPWLM	SJBS PENDING WLM init |
1820	(71C)	ADDRESS	4	CCTJPNUM	SJBS PENDING JOB-BY-NUMBER |
1824	(720)	ADDRESS	4	CCTJXCLS	SJBS EXECUTING JOB-BY-CLASS |
1828	(724)	ADDRESS	4	CCTJXNUM	SJBS EXECUTING JOB-BY-NUMBER|
1832	(728)	ADDRESS	4	CCTJTERM	SJBS WITH JOBS TO TERMINATE |
1836	(72C)	ADDRESS	4	CCTJRENQ	SJBS WITH JOBS TO RE-ENQUEUE|
1840	(730)	ADDRESS	4	CCTSJBE(0)	End of SJB queues <----
1840	(730)	ADDRESS	4	CCTJTEOM(2)	Address of first and last SJB on EOM queue

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
CCTMSMPC is the current sampling buffer being used by the monitor. CCTMSMPS is a frozen sampling buffer captured for dump processing. Under normal processing CCTMSMPC and CCTMSMPS point to the same buffer. To freeze a buffer, clear CCTMSMPC. The monitor will get another buffer for processing. To release a frozen buffer, clear CCTMSMPS. The next sample will reset CCTMSMPS.					
1848	(738)	ADDRESS	4	CCTMSMPC	Cur monitor sampling buffer
1852	(73C)	ADDRESS	4	CCTMSMPS	Frozen sampling buffer
1856	(740)	SIGNED	4	CCTJLMAX	Local maximum job number (from \$JNT)
1860	(744)	SIGNED	4	CCTSLKST	Number of times \$SJBLOCK was stolen - update using CS logic
1864	(748)	SIGNED	4	CCTSLKUS	Number of times \$SJBLOCK was usurped - update using CS logic
1868	(74C)	SIGNED	4	CCTDGBRT	Number of times BERTREAD (DGBMVBRT) gives up retry. Update using CS logic
1872	(750)	SIGNED	4	CCTBEGN	Number of times \$SSIBEGN removed stale HASBs - update using CS logic
1876	(754)	ADDRESS	4	CCTCSHED	Head of STAC FIFO queue
1880	(758)	ADDRESS	4	CCTCSTAI	Tail of STAC FIFO queue
1884	(75C)	ADDRESS	4	CCTPSO	Head of PSO LIFO queue
1888	(760)	ADDRESS	4	CCTPSOQ	Addr of MTQH for PSO
1892	(764)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1896	(768)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1900	(76C)	SIGNED	4	CCTFIFON	Nr of entries in CCTFIFOQ
1904	(770)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1912	(778)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1912	(778)	ADDRESS	4	CCT1SAP	Address of first SAPID in | the SAPID data space |
1916	(77C)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1920	(780)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPID
1924	(784)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1928	(788)	ADDRESS	4	CCTTINA	Address of TINA (WTO D S)
1932	(78C)	SIGNED	4	CCTTINAA	ALET for TINA (WTO D S)
1936	(790)	ADDRESS	4	CCTIOERR	SPOOL PROCESSOR I/O ERROR QUEUE
1940	(794)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue
1944	(798)	ADDRESS	4	CCTPAD	Head of PROCLIB PAD queue
1948	(79C)	ADDRESS	4	CCTCIP	Head of CIPARM area queue
1952	(7A0)	ADDRESS	4	CCTCICB	Head of CICB queue
1956	(7A4)	SIGNED	4	CCTPRVTG	Number of privilege track groups consumed since last accumulation.
1960	(7A8)	ADDRESS	4	CCTSBMDD	Head of SUBMITLIB PAD queue (copy of SBTDDLIB)
1964	(7AC)	ADDRESS	4	CCTPCYDD	Head of POLICYLIB PAD queue (copy of \$POLCYDD)
Following fields contain the queue heads and counts for resource management of Scheduler Facility Service SFRBs acquired in ECSA. The CCTSFREQ/CCTSSRCT fields are serialized using CDS and must be kept in a doubleword.					

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1968	(7B0)	DBL WORD	8	CCTSFREQ(0)	Scheduler Facility Request Q
1968	(7B0)	ADDRESS	4		Request queue header
1972	(7B4)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1976	(7B8)	ADDRESS	4	CCTSFPNQ	Scheduler Facility Pending Q
1980	(7BC)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1984	(7C0)	ADDRESS	4	CCTSFPRQ	Scheduler Facility Process Q
1988	(7C4)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1992	(7C8)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1996	(7CC)	BITSTRING	1	CCTSTAT	Status flag for Sched.Serv
		1...		CCTSSDWN	"B'10000000" Scheduler PCE disabled
		.1...		CCTSSDIS	"B'01000000" Scheduler PCE disabling
1997	(7CD)	BITSTRING	1	CCTFLAG8	Flag byte #8 For proper serialization updates to this field should be done via an OIL/NIL.
		.... ...1		CCT8ENFD	"B'00000001" An ENF RC=8 dump has been taken
1998	(7CE)	ADDRESS	2		Reserved for future IBM use
2000	(7D0)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN
SPOOL DATA MANAGEMENT					
2004	(7D4)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR \$STRAK AND \$TRACK
2008	(7D8)	BITSTRING	4		Reserved for future use
2012	(7DC)	BITSTRING	4		Reserved for future use
2016	(7E0)	SIGNED	2	CCTNBUFEX	Copy of \$NUMBUFEX from HCT (can update via command)
2018	(7E2)	BITSTRING	1	CCTSPLF1	SPOOL status flags
		1...		CCTS1FUL	"B'10000000" Spool volumes are full
2019	(7E3)	BITSTRING	1		Reserved
2020	(7E4)	SIGNED	4	CCTGTOT	Number of allocatable TGs (\$TGTOTAL)
2024	(7E8)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance
2024	(7E8)	BITSTRING	32	CCTMTSPL	SPOOLS WHICH HAVE SPACE
2056	(808)	BITSTRING	32	CCTSPLAF	Spools with affinity for this member
2088	(828)	BITSTRING	32	CCTVBLOB	Spools with space in the BLOB
2120	(848)	BITSTRING	12	CCTTGBA(0)	TGB VALUES FOR BLOB
2120	(848)	ADDRESS	4	CCTTGFBF	FIRST TGB ENTRY ADDRESS
2124	(84C)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
2128	(850)	ADDRESS	4	CCTTGBL	Last TGB entry
2132	(854)		4	CCTBYTS	Bytes of spool (FP value)
2136	(858)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER - non- privilege jobs
2137	(859)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
2138	(85A)	BITSTRING	1	CCTNQCNP	SPOOL ENQ COUNTER - priviledge jobs
2139	(85B)	BITSTRING	1		Reserved for future use
2140	(85C)	SIGNED	4	CCTTGDEF	Number of defined TGs (\$TGDEFND)
2144	(860)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
2144	(860)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2148	(864)	SIGNED	4	CCTTGECB	TGB REQUEST ECB
2152	(868)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
2156	(86C)	ADDRESS	4	CCTPJCLQ	Address of main task queue header for PJCL requests
<p>The following 2 fields can be used in conjunction with the QSESITIM field on a HOT start to determine if a CKPT write has completed. CCTCKTAC is a copy of \$CKPTOAC and represents the active CKPT write. CCTCKTNX is a copy of \$CKPTONX and represents the next checkpoint write. CCTSITIM is a copy of QSESITIM and represents when the current write started.</p> <p>Assuming this is a hot start and you have a CKPT token from before JES2 went down, then the following logic will tell you if the write actually completed.</p> <ul style="list-style-type: none"> - If TOKEN != CCTCKTAC and TOKEN != CCTCKTNX then the write has completed - If TOKEN = CCTCKTNX then the write never started and the CKPT did not happen - If TOKEN = CCTCKTAC then the write started. To determine if it actually completed, check QSESITIM (in the \$QSE in \$INIWARM) <ul style="list-style-type: none"> - If CCTSITIM = QSESITIM then the write completed - If CCTSITIM != QSESITIM then the write never happened. 					
2160	(870)	SIGNED	4	CCTCKTAC	Active CKPT I/O token
2164	(874)	SIGNED	4	CCTCKTNX	Next CKPT I/O token
2168	(878)	BITSTRING	8	CCTSITIM	TOD of last CKPT write
Queue heads for ENF LISTEN Event processor.					
2176	(880)	DBL WORD	8	CCTENFQ(0)	EVT queue
2176	(880)	ADDRESS	4	CCTENFQH	EVT head
2180	(884)	ADDRESS	4	CCTENFQT	EVT tail
Queue heads for JQE Request processor					
2184	(888)	DBL WORD	8	CCTJQRBQ(0)	JQE Request block queue
2184	(888)	ADDRESS	4	CCTJQRBH	JQRB head
2188	(88C)	ADDRESS	4	CCTJQRBT	JQRB tail
2192	(890)	SIGNED	4	CCTJQRBN	Nr of entries in CCTJQRBQ (can go negative!)
2196	(894)	SIGNED	4		Reserved
Each time a structure available ENF is received, the JES2 listen exit increments this count. This is used to determine when structures become available for processing.					
2200	(898)	SIGNED	4	CCTXESEV	Structure avail ENF count
2204	(89C)	CHARACTER	4	CCTDFCB	Default printer FCB (see \$PRTFCB in HCT)
Data needed by Health Checker for messages about 1.11 Checkpoint mode activation.					
2208	(8A0)	SIGNED	4	CCTHCRC1	Number of 4K records needed by CKPT1
2212	(8A4)	SIGNED	4	CCTHCRC2	Number of 4K records needed by CKPT2
2216	(8A8)	SIGNED	4	CCTHCBRT	Number of BERTs needed

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SAPI WSP chains. These chains are used by JES2 main task only. ALET for these pointers is in \$SAPTOK.					
2220	(8AC)	ADDRESS	4	CCTSAWST	1st postable SAPI WSP with selection on token
2224	(8B0)	ADDRESS	4	CCTSAWXO	Oldest postable SAPI WSP with selection expression
2228	(8B4)	ADDRESS	4	CCTSAWXN	Newest postable SAPI WSP with selection expression
CKPT versions ENQ minor names Managed by the CKPT PCE and used delay processes that require a specific checkpoint version. To delay for the next version of a specific type, get a shared ENQ on the appropriate minor name (major name is SYSZjesx). The ENQ should be released after it is obtained.					
2232	(8B8)	CHARACTER	16	CCTMASMN	Latest MAS level info
2248	(8C8)	CHARACTER	16	CCTMBRMN	Latest member info
Ultimate default JOBCLASS used when we need a default job class that we know is valid.					
2264	(8D8)	CHARACTER	8	CCTDEFCL	Default job class
Values used for controlling the issuance of HASP790. HASP790 is used to notify the operator that ENF signals have been lost, i.e. not delivered by ENF. Use PLO to update these two fields.					
2272	(8E0)	SIGNED	4	CCT790TM	High 4 bytes of STCK last time HASP790 issued
2276	(8E4)	SIGNED	4	CCTENFR8	Number of RC=8 ENFs since last HASP790 message
ASCB/ECB/ENQ count sets used for resource management events					
2280	(8E8)	ADDRESS	4	CCTRMEA1	ASCB ptr for TG events
2284	(8EC)	SIGNED	4	CCTRMEE1	ECB for TG rsrc events
2288	(8F0)	BITSTRING	1	CCTRMEC1	ENQ cnt for TG events
2289	(8F1)	BITSTRING	7		Reserved
2296	(8F8)	ADDRESS	4	CCTRMEA2	ASCB ptr for JQE events
2300	(8FC)	SIGNED	4	CCTRMEE2	ECB for JQE rsrc events
2304	(900)	BITSTRING	1	CCTRMEC2	ENQ cnt for JQE events
2305	(901)	BITSTRING	7		Reserved
2312	(908)	ADDRESS	4	CCTRMEA3	ASCB ptr for JOE events
2316	(90C)	SIGNED	4	CCTRMEE3	ECB for JOE rsrc events
2320	(910)	BITSTRING	1	CCTRMEC3	ENQ cnt for JOE events
2321	(911)	BITSTRING	7		Reserved
2328	(918)	ADDRESS	4	CCTRMEA4	ASCB ptr for BERT events
2332	(91C)	SIGNED	4	CCTRMEE4	ECB for BERT rsrc events
2336	(920)	BITSTRING	1	CCTRMEC4	ENQ cnt for BERT events
2337	(921)	BITSTRING	7		Reserved

Table 228. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Patch space for code that uses R11 addressability to the HCCT, and the SYSOUT Class Attribute Table (SCAT). These should be the last HCCT fields.					
2344	(928)	DBL WORD	8	(0)	
2344	(928)	BITSTRING	256	CCTPATCH(2)	Patch spc for R11-HCCT code
Use the address in CCTSCATP to reference the SCAT rather than doing a LA of CCTSCAT. This helps to prevents massive reassemblies of modules if the length of \$HCCT is changed in an APAR.					
2856	(B28)	DBL WORD	8	CCTSCAT(0)	SYSOUT class attribute tbl
2856	(B28)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
2856	(B28)	X'100'	0	CCTSTLEN	"*-CCTSCAT" LENGTH OF SCAT TABLE
3112	(C28)	ADDRESS	2	(0)	Force asmbly error if SCAT not last
3112	(C28)	DBL WORD	8	(0)	Ensure alignment
3112	(C28)	X'C28'	0	CCTLEN	"*-HCCT" LENGTH OF HCCT

Table 229. Structure CCTSTUB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CCTSTUB	, CSA stub routines
0	(0)	CHARACTER	8	STBID	Eyecatcher
Stub routine for \$MSDDUMP dynamic exit					
8	(8)	DBL WORD	8	(0)	Ensure alignment
22	(16)	SIGNED	2		Reserved
24	(18)	CHARACTER	8		Routine eyecatcher
32	(20)	DBL WORD	8	(0)	Round up
32	(20)	X'18'	0	STBMSDLN	"*-STBMDDMP" \$MSDDUMP stub routine
Stub routine for \$DYNLPA dynamic exit					
32	(20)	DBL WORD	8	(0)	Ensure alignment
46	(2E)	SIGNED	2		Reserved
48	(30)	CHARACTER	8		Routine eyecatcher
56	(38)	DBL WORD	8	(0)	Round up
56	(38)	X'18'	0	STBDYLLN	"*-STBDYLPA" \$DYNLPA stub routine
Stub routine for \$ECBEXIT ECB POST exit					
56	(38)	DBL WORD	8	(0)	Ensure alignment
72	(48)	CHARACTER	8		Routine eyecatcher
80	(50)	DBL WORD	8	(0)	Round up
80	(50)	X'18'	0	STBECXLN	"*-STBECBEX" \$ECBEXIT stub routine
Stub routine for HAMPSSTER ECB POST exit					
80	(50)	DBL WORD	8	(0)	Ensure alignment
96	(60)	CHARACTER	8		Routine eyecatcher
104	(68)	DBL WORD	8	(0)	Round up

Table 229. Structure CCTSTUB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
104	(68)	X'18'	0	STBECSLN	"*-STBECBSD" \$ECBEXIT stub routine
Stub routine for SWAREAD service routine Entered in 24 bit mode and switched to AMODE 31					
104	(68)	DBL WORD	8	(0)	Ensure alignment
110	(6E)	X'70'	0	STBSWRCT	"*-4,4" Where to store HCCT address
132	(84)	CHARACTER	8		Routine eyecatcher
144	(90)	DBL WORD	8	(0)	Round up
144	(90)	X'28'	0	STBSWRLN	"*-STBSWARD" SWAREAD stub routine
Routines for \$XMPOSTX service. These stubs save the caller's registers, sets up the HCCT address in R11, and links to the appropriate service.					
150	(96)	X'98'	0	STBSMSHC	"*-4,4" HCCT field in LLILF
170	(AA)	X'1C'	0	STBXMSRL	"*-STBXMSRB" Length of area
178	(B2)	X'B4'	0	STBXMRHC	"*-4,4" HCCT field in LLILF
198	(C6)	X'1C'	0	STBXMRML	"*-STBXMRMT" Length of area
Routines for \$MODLOC service. These stubs save the caller's registers, sets up the HCCT address in R11, and links to the appropriate service.					
206	(CE)	X'D0'	0	STBMODHC	"*-4,4" HCCT field in LLILF
228	(E4)	X'1E'	0	STBMODLL	"*-STBMODLC" Length of area
Routine for JHISTRET service. This stub sets up the HCCT address in R11, and links to the JHISTRET stub routine (sets HCCT address and calls service in AMODE 31). At this point, the caller's 64 bit registers are saved in the R13 save area (IAZJHSRV did this). R0 has the component and function number (0006 for retrieve local function).					
230	(E6)	X'E8'	0	STBJHRHC	"*-4,4" HCCT field in LLILF
252	(FC)	X'18'	0	STBJHRLI	"*-STBJHRLC" Length of area
Routine for JHISTSRV service. This stub saves caller's registers, sets up the HCCT address in R11, sets the job token in R2, and links to the JHISTSRV stub routine. At this point, the caller's registers are saved in the 64 bit R13 save area (IAZJHSRV did this). The R0 slot in the save area is used for the job token (if one was passed).					
264	(108)	X'10A'	0	STBJHSHC	"*-4,4" HCCT field in LLILF
292	(124)	X'28'	0	STBJHSLI	"*-STBJHSLC" Length of area
294	(126)	BITSTRING	20		Reserved
320	(140)	DBL WORD	8	(0)	Ensure alignment
320	(140)	X'140'	0	STBLEN	"*-CCTSTUB" Length of stub area

Table 230. Cross Reference for \$HCCT

Name	Offset	Hex Tag
CCT#INDX	218	
CCTAADVA	306	20
CCTABEND	610	FFFFFF

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTAENCA	306	40
CCTAENCS	306	80
CCTALLFF	98	98
CCTAMVEC	194	
CCTASCB	6F8	6F0
CCTASDSP	228	
CCTASYNC	6A0	0
CCTAUXCB	1AC	
CCTAXL	3AC	
CCTAXN	3AC	
CCTAXV	3AE	
CCTBADA	108	
CCTBATMD	2E4	
CCTBDJNC	151	
CCTBEGN	750	0
CCTBFSIZ	244	
CCTBLANK	6F8	8
CCTBLNKS	18	18
CCTBLN64	18	40404040
CCTBMAPS	1B4	
CCTBRAVL	558	0
CCTBYTS	854	0
CCTCADDR	168	
CCTCALLC	6E4	0
CCTCBRT	1B8	
CCTCDCTQ	238	
CCTCFREE	6E8	0
CCTCGECB	6FC	0
CCTCICB	7A0	
CCTCIP	79C	
CCTCKCON	658	
CCTCKPTP	6BC	0
CCTCKPT1	31C	40404040
CCTCKPT2	364	40404040
CCTCKTAC	870	
CCTCKTNX	874	
CCTCK64	4E0	
CCTCK64L	4E8	
CCTCMDMX	668	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTCMQTP	678	
CCTCOLDT	434	
CCTCOMCH	1F5	40
CCTCOMCT	664	
CCTCOMM	698	0
CCTCOMMQ	660	
CCTCOMPT	654	
CCTCPIC	528	
CCTCPIDX	170	
CCTCSACH	6E0	
CCTCSHED	754	
CCTCSTAI	758	
CCTCTABS	16C	
CCTCUCT	5F8	
CCTCVCB	1A0	
CCTDAS1	1BC	
CCTDCB	388	388
CCTDEBFX	3BC	
CCTDEBG2	64D	
CCTDEBG3	64E	
CCTDEBG4	64F	
CCTDEBUG	64C	
CCTDEFCL	8D8	40404040
CCTDFCB	89C	
CCTDGBRT	74C	0
CCTDOM86	65C	
CCTDRCSA	534	
CCTDREP	6D4	0
CCTDSB	240	
CCTDSTFL	1F6	0
CCTECF	690	0
CCTEDISA	4C5	80
CCTEDISM	4C5	40
CCTEDSA	4F8	
CCTEDSSF	4C5	0
CCTELCMB	868	
CCTEMSTK	548	
CCTENFP	6C8	0
CCTENFQ	880	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTENFQH	880	
CCTENFQT	884	
CCTENFR8	8E4	0
CCTENFST	234	
CCTESCVT	440	
CCTESSNM	43C	C8C1E2D7
CCTESSVT	444	
CCTEST1	24C	
CCTETDEF	1C0	
CCTEVTA	230	
CCTEXTBL	20C	
CCTFFS	98	
CCTFIFON	76C	
CCTFIFOQ	768	
CCTFIXL	6F8	38
CCTFLAGA	306	0
CCTFLAGJ	650	
CCTFLAG0	1F7	0
CCTFLAG1	645	0
CCTFLAG2	646	0
CCTFLAG3	648	
CCTFLAG4	649	
CCTFLAG5	64A	
CCTFLAG6	304	0
CCTFLAG8	7CD	
CCTFLAG9	647	
CCTFMAX	100	100
CCTFMID	4C8	
CCTFNCNT	859	0
CCTFSSCB	7D0	
CCTF1	D8	1
CCTF12	EC	C
CCTF16	F0	10
CCTF2	DC	2
CCTF255	F4	FF
CCTF4	E0	4
CCTF4096	F8	1000
CCTF6	E4	6
CCTF8	E8	8

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTGCNUM	4F0	
CCTGGDKB	41C	
CCTGGDKL	418	
CCTGGDKN	414	
CCTGGFKB	420	
CCTGGRSV	416	
CCTGJNUM	4F4	
CCTGPNM	3D4	
CCTGRADR	3E8	
CCTGRECX	3EC	
CCTGRPEX	3F0	
CCTHASP	610	
CCTHAVT	1A8	
CCTHCBRT	8A8	
CCTHCRC1	8A0	
CCTHCRC2	8A4	
CCTHCT	174	
CCTHECBA	6F8	6EC
CCTHECBK	6F8	6F8
CCTHIBIT	104	
CCTHIGHV	616	
CCTHMAX	100	100
CCTHOTST	610	80
CCTHTCBA	178	
CCTH1	D8	DA
CCTH12	EC	EE
CCTH16	F0	F2
CCTH2	DC	DE
CCTH255	F4	F6
CCTH4	E0	E2
CCTH4096	F8	FA
CCTH6	E4	E6
CCTH8	E8	EA
CCTIINFO	1C8	
CCTILVL	7	
CCTIMETB	288	
CCTINCHK	1F7	20
CCTINTRE	640	
CCTINXTB	210	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTIOERR	790	
CCTIRSD	2E0	
CCTIXVT	3D0	
CCTJACCT	220	
CCTJADDR	494	
CCTJALRT	650	40
CCTJCRIT	650	10
CCTJDVT	3C8	
CCTJES2_LEVEL	3F4	
CCTJLMAX	740	0
CCTJNSTK	550	
CCTJNTCE	650	20
CCTJOAVL	564	0
CCTJOB	69C	0
CCTJOBPF	69C	80
CCTJOPTS	2B1	0
CCTJOPT2	2B3	0
CCTJPCLS	714	
CCTJPNUM	71C	
CCTJPWLM	718	
CCTJQAVL	55C	0
CCTJQELN	1DE	0
CCTJQENM	4D0	
CCTJQRBH	888	
CCTJQRBN	890	
CCTJQRBQ	888	
CCTJQRB	88C	
CCTJQRP	6CC	0
CCTJRENQ	72C	
CCTJSPL	149	148
CCTJSPLL	148	
CCTJSPLV	149	D1C5E2E2
CCTJSTKN	17C	0
CCTJTEOM	730	
CCTJTERM	728	
CCTJTRCK	650	80
CCTJVJOB	310	
CCTJVSTC	308	
CCTJVTSU	30C	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTJXCFD	4A8	
CCTJXCLS	720	
CCTJXNUM	724	
CCTJXTKN	184	0
CCTJ2CL	4D8	
CCTJ2DSP	628	0
CCTJ2WAT	618	0
CCTJ3CL	4DC	
CCTKEYTB	3C0	
CCTKFCF7	305	0
CCTLEN	C28	C28
CCTLEVEL	3F4	
CCTLIMP	4C6	20
CCTLINCT	2B2	
CCTLMDAD	500	
CCTLMDCT	4FC	
CCTLMDLS	508	
CCTLMDSM	510	
CCTLMD84	518	
CCTLMFR	530	
CCTLMT1	C	
CCTLNINT	264	
CCTLNOS4	4C6	10
CCTLOWV	617	
CCTLRACT	4C6	8
CCTMASCB	1D4	
CCTMASMN	8B8	E5C5D9E2
CCTMASVR	616	
CCTMBRMN	8C8	E5C5D9E2
CCTMEMAT	67C	
CCTMEMUP	638	
CCTMGTD	468	
CCTMGTP	460	
CCTMGTU	460	
CCTMISC	6D0	0
CCTMLLM	6B4	0
CCTMON#	3FE	
CCTMONCB	1D0	
CCTMSMPC	738	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTMSMPS	73C	
CCTMTSPL	7E8	0
CCTMVER	644	
CCTMVSNM	1FC	40404040
CCTNACCT	224	
CCTNBUFX	7E0	0
CCTNDE	2BF	
CCTNDENL	2BF	0
CCTNDENM	2C0	
CCTNEG1	98	98
CCTNITA	2DC	
CCTNITBL	1D8	
CCTNITSZ	1DC	0
CCTNMCUR	66C	
CCTNMFAL	674	
CCTNMMAX	670	
CCTNONOD	2C8	0
CCTNORTK	248	
CCTNOUSQ	794	
CCTNQCNP	85A	0
CCTNQCNT	858	0
CCTNSPB	246	247
CCTNSPL	246	0
CCTNXSYS	68B	1
CCTOFFM	6B8	0
CCTOFSTB	8	
CCTOTINT	258	
CCTPAD	798	
CCTPATCH	928	0
CCTPCEFL	6D8	0
CCTPCENO	6D4	10
CCTPCEPE	698	
CCTPCT	2CC	
CCTPCYDD	7AC	
CCTPCYHD	538	
CCTPGINT	24C	
CCTPIT	1E0	
CCTPITNM	1E4	0
CCTPJCLQ	86C	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTPJES2	610	1
CCTPLVL	3FC	
CCTPOSTE	6EC	
CCTPOSTW	6F8	4
CCTPRASC	680	
CCTPRECB	684	0
CCTPROMO	4C6	40
CCTPRVRE	4C7	
CCTPRVTG	7A4	
CCTPS0	75C	
CCTPSOQ	760	
CCTPUINT	270	
CCTPVRSN	10	
CCTQINDX	214	
CCTQNAM	424	
CCTRBGN	204	
CCTRCOMC	1F4	40
CCTRCP	6C0	0
CCTRCPCQ	63C	
CCTDRSC	448	C9D5E3D9
CCTRDT	2D4	
CCTRDTA	2D8	
CCTREQJI	2F4	
CCTRESIL	4C6	0
CCTRESPL	4C6	80
CCTRGBP	540	
CCTRLMT	208	
CCTRMEA1	8E8	
CCTRMEA2	8F8	
CCTRMEA3	908	
CCTRMEA4	918	
CCTRMEC1	8F0	0
CCTRMEC2	900	0
CCTRMEC3	910	0
CCTRMEC4	920	0
CCTRMEE1	8EC	0
CCTRMEE2	8FC	0
CCTRMEE3	90C	0
CCTRMEE4	91C	0

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTROPTS	2B0	0
CCTR0UT	2CA	0
CCTRRT	2D0	
CCTSAPIQ	784	
CCTSAPLK	458	E2C1D7C9
CCTSAWST	8AC	
CCTSAWXN	8B4	
CCTSAWX0	8B0	
CCTSBJMD	2E8	
CCTSBMDD	7A8	
CCTSCAT	B28	
CCTSCATP	1E8	
CCTSCIDS	1A4	
CCTSDADR	3DC	
CCTSDECX	3E0	
CCTSDPEX	3E4	
CCTSEGLM	314	
CCTSFPNQ	7B8	
CCTSFPRQ	7C0	
CCTSFREQ	7B0	
CCTSID	1F8	40404040
CCTSINFO	1CC	
CCTSITIM	878	
CCTSJBB	714	
CCTSJBE	730	
CCTSJWEL	780	0
CCTSLGDS	614	2
CCTSLKST	744	0
CCTSLKUS	748	0
CCTSLVL	3FD	
CCTSMVFN	614	10
CCTSNQA	568	
CCTSNV	428	
CCTSNVRR	520	
CCTSPINC	770	0
CCTSPIOT	764	
CCTSPLAF	808	0
CCTSPLCL	318	
CCTSPLF1	7E2	0

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTSPLNM	24A	0
CCTSP00L	6B0	0
CCTSRCH	7D4	
CCTSSCT	19C	
CCTSSDIS	7CC	40
CCTSSDWN	7CC	80
CCTSSMAX	7C8	
CCTSSNCT	7BC	
CCTSSNM	428	5C5C5C5C
CCTSSNML	430	0
CCTSSPCE	6C4	0
CCTSSPCT	7C4	
CCTSSRCT	7B4	
CCTSSTAT	7CC	0
CCTSSVS	42C	5C5C5C5C
CCTSSVT	164	
CCTSTCMD	2EC	
CCTSTDSI	1F7	40
CCTSTFRM	2B4	E2E3C440
CCTSTIRV	614	8
CCTSTLEN	B28	100
CCTSTPJF	614	4
CCTSTRPL	614	1
CCTSTUB	0	
CCTSTUBA	498	
CCTSTUS	614	0
CCTSTUSP	614	80
CCTSTUSR	614	20
CCTSTUST	614	40
CCTSVJLK	450	E2E5D140
CCTSYSLX	1C4	0
CCTS1FUL	7E2	80
CCTTDLY	300	
CCTTED	1EC	
CCTTENF	64B	80
CCTTEST	64B	
CCTTGASC	860	
CCTTGAVL	560	0
CCTTGBA	848	

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTTGBF	848	
CCTTGBL	850	
CCTTGBS	84C	
CCTTGDEF	85C	0
CCTTGECB	864	0
CCTTGTOT	7E4	0
CCTTIMER	6A8	0
CCTTIMOP	280	
CCTTINA	788	
CCTTINAA	78C	0
CCTTKCEL	249	
CCTTMINT	27C	
CCTTNCMP	64B	40
CCTTO	2BC	
CCTTOKA	1F0	
CCTTONOD	2BC	0
CCTTOQUL	2BE	
CCTTPHZ	2FC	
CCTTRPCE	6AC	0
CCTTSOMD	2F0	
CCTUCADD	5FC	
CCTUSER1	600	
CCTUSER2	604	
CCTUSER3	608	
CCTUSER4	60C	
CCTVBLOB	828	0
CCTVRNUM	0	F
CCTVRSN	0	
CCTXASCB	1B0	
CCTXCBF	49C	
CCTXCTKN	18C	0
CCTXESEV	898	
CCTXITA	2F8	
CCTXMAQ	21C	
CCTXNODE	4A0	
CCTXSTIM	6A4	0
CCTXSTS1	4C4	0
CCTXSYS	688	
CCTXSYSF	68B	0

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCTXSYSN	68C	0
CCTXTRAN	152	64
CCTX1AVL	4C4	80
CCTX1GLA	4C4	20
CCTX1GLI	4C4	10
CCTX1INI	4C4	40
CCTX1JXF	4C4	8
CCTX1SNQ	4C4	4
CCTZERO	58	58
CCTZEROF	98	94
CCTZEROS	58	0
CCTZGLA	4D4	
CCT0FFF	FC	FFFFFF
CCT000F	F4	F4
CCT1CKWI	645	8
CCT1E58D	645	1
CCT1PJAC	645	2
CCT1PJSA	645	4
CCT1PJ2T	645	80
CCT1PRDF	645	40
CCT1SAP	778	
CCT1SAPC	77C	0
CCT1SSYP	645	10
CCT1SSYS	645	20
CCT2BATR	646	40
CCT2CRCF	646	10
CCT2IRDR	646	80
CCT20PRQ	646	8
CCT2PITC	646	20
CCT2PSO	646	1
CCT2SAPI	646	4
CCT2USJB	646	2
CCT3AUTO	648	1
CCT3CONI	648	80
CCT3CONT	648	40
CCT3INDM	648	20
CCT3MCJC	648	2
CCT3NEOM	648	8
CCT3NHSB	648	10

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
CCT3PJ2T	648	4
CCT4ADVF	649	8
CCT4BERT	649	10
CCT4CRBR	649	1
CCT4JOBQ	649	2
CCT4MBR	649	4
CCT4REC1	649	40
CCT4REC2	649	20
CCT4320K	649	80
CCT5DSRG	64A	80
CCT5ENFJ	64A	20
CCT50MVA	64A	10
CCT50MVC	64A	8
CCT5PSTV	64A	40
CCT6ERST	304	20
CCT6ESMF	304	80
CCT6ETRC	304	10
CCT6EUSR	304	8
CCT7EVTW	305	80
CCT7FFF	100	7FFFFFFF
CCT7JHRS	305	8
CCT7NDRX	305	20
CCT7NEJS	305	2
CCT7NJHS	305	10
CCT7NNJE	305	40
CCT7NSNQ	305	4
CCT790TM	8E0	0
CCT8ENFD	7CD	1
CCT9NOPR	647	80
CCT9XSTA	647	20
CCT91STK	647	40
HCCT	0	
STBDYLLN	38	18
STBECSLN	68	18
STBECXLN	50	18
STBID	0	C3C3E3E2
STBJHRHC	E6	E8
STBJHRL	FC	18
STBJHSHC	108	10A

Table 230. Cross Reference for \$HCCT (continued)

Name	Offset	Hex Tag
STBJHSL	124	28
STBLEN	140	140
STBMODHC	CE	D0
STBMODLL	E4	1E
STBMSDLN	20	18
STBSMSHC	96	98
STBSWRCT	6E	70
STBSWRLN	90	28
STBXRHC	B2	B4
STBXRML	C6	1C
STBXMSRL	AA	1C

\$HCT information

\$HCT programming interface information

The following fields are **NOT** programming interface information:

- \$ALIPCE
- \$BERTPTR
- \$CHLOG
- \$CHLOGLN
- \$CKG1
- \$CKG2
- \$CKPTFG1
- \$CKPTFG2
- \$CKPTFG3
- \$CKPTFG4
- \$CKPTFG5
- \$CKPTFLG
- \$CKRECN
- \$CKW
- \$CLCB
- \$CURPCE
- \$DAWNPCE
- \$DILHEAD
- \$DILPCE
- \$DILTAIL
- \$DLSPCE
- \$DRQUES
- \$DTECKCF
- \$DTECKDA

- \$DTEEOM
- \$DWAHEAD
- \$DWATAIL
- \$ECBEXTN
- \$EDSPCE
- \$EOMPCE
- \$ERRTABAB
- \$EXTECBQ
- \$HASCB
- \$HASPDCB
- \$HASPECB
- \$HASPECF
- \$HASPRB
- \$IRCPCE
- \$JOEIPCE
- \$JOXPTR
- \$JOXSIZE
- \$JQRPCE
- \$JQXPTR
- \$KITPTR
- \$LCKPTR
- \$MASECF
- \$MASTER
- \$MASTERI
- \$MASTERL
- \$MISCPCE
- \$MLLMECF
- \$MSTRID
- \$MSTRVER
- \$MSTRVRN
- \$MVSDISP
- \$MVSWAIT
- \$NWECEB
- \$PCELAST
- \$PCEORG
- \$PCYPCE
- \$RCDFRST
- \$RCDSIZE
- \$READY
- \$READYF
- \$READYL
- \$SAPCACH
- \$SCLPEND

- \$SPIPCE
- \$SPLCNT
- \$TBLNUM
- \$TGBAD
- \$TGMADDR
- \$TGMAP
- \$TGMHEAD
- \$VERSACT
- \$VERSINI
- \$VERSKPT
- \$VERSSTT
- \$WCHECK
- \$XECBQ
- \$XECBQF
- \$XECBQL

\$HCT heading information

Common name:	HASP Communication Table
Macro ID:	\$HCT
DSECT name:	HCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	MIT entry for HASPNUC ('MIT HASPNUC ') Offset: HASPCT-HCT Length: 12
Storage attributes:	Subpool: The subpool of the HASJES20 load module. Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space. The storage is page fixed.
Size:	See HCTLEN
Created by:	The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.

Pointed to by:

- As one of the key JES2 control blocks for processing from the JES2 address space, the HCT address is usually in general purpose register 11 in the assembly environments known as JES2 and SUBTASK.
- The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT.
- The HCT is at the front of the HASJES20 load module so the module storage address in the MVS CDE for HASJES20 points to the HCT.
- The CCTHCT field of the HCCT common storage control block points to the HCT.
- The DTEHCT field in each JES2 subtask's DTE control block points to the HCT.
- The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.

Serialization:

- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by the LOCAL/CMS locks.
- Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor.
- Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues (\$QSUSE).
- Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a \$WAIT).

Function:

The \$HCT is the major JES2 control block when executing code which was generated in the JES2 or subtask assembly environment. Register 11 will normally point to this control block in those environments.

The \$HCT contains routine addresses, pointers to data structures, constants, work areas, fields which contain current values for various types of parameters, a checkpointed section, patch space, Etc..

\$HCT mapping

Table 231. Structure HCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCT	, HASP Communications Table
0	(0)	BITSTRING	80		HASPNUC Module Info Table
80	(50)	CHARACTER	8	\$VERSION	Obsolete. Permanently set to SP 5.3.0 (Do not remove)
88	(58)	CHARACTER	8	\$UVERS	Installation version of the JES2 product defined when HASPNUC was assembled
96	(60)	CHARACTER	1	\$MACVERS	SP version of MVS maclibs used to assemble HASPNUC
97	(61)	ADDRESS	1	\$IPCSLVL	JES2 IPCS level number
98	(62)	ADDRESS	2	\$SAVEBOF	Offset to \$SAVEBEG (used by IPCS logic)

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Pointer to HASP module directory and LMT anchors					
100	(64)	ADDRESS	4	\$HASPMAP	"V(\$REPTABL)" HASP MODULE DIRECTORY ADDRESS
104	(68)	ADDRESS	4	\$LMT1	Addr of 1st Pvt LMT, if any
108	(6C)	ADDRESS	4	\$LMT1C	Addr of 1st CSA LMT, if any
112	(70)	ADDRESS	4	\$LMTPBOT	Addr of bot'm PVT LMT entry
WAIT ELEMENTS, EACH SET MUST STAY TOGETHER					
116	(74)	ADDRESS	4	\$HASPECB	ADDR OF HASP EVENT CONTROL BLK
120	(78)	SIGNED	4	\$ECBEXTN(0)	ECB EXTENSION FOR POST
124	(7C)	ADDRESS	4	\$DSPXITA	"V(HASPPXIT)" EXIT DISPATCHING
128	(80)	SIGNED	4	\$XFRECBX(0)	ECB EXTENSION FOR SPOOL OFFLOAD
132	(84)	ADDRESS	4	\$POSTEXA	"V(\$POSTEX)" DECB'S .. SPECIFIES POST EXIT
136	(88)	SIGNED	4	\$XCPECBX(0)	ECB EXTENSION FOR \$EXCP
140	(8C)	ADDRESS	4	\$EXCPEXA	"V(\$IOPSTEX)" EXCP POST EXIT
144	(90)	ADDRESS	4	\$NWECB	ECB FOR MISCELLANEOUS USES OF MVS ASYNCHRONOUS SERVICES BY PCES THAT WON'T WAIT ON IT (PAGEFIX)
Addresses of Remote Work Lookup tables					
148	(94)	ADDRESS	4	\$RWL	"V(HASPRWL)" Address of table
152	(98)	ADDRESS	4	\$RWLRDRS	"V(HASPRWLR)" Remote reader sub-table
156	(9C)	ADDRESS	4	\$RWLPRTS	"V(HASPRWLP)" Remote printer sub-table
160	(A0)	ADDRESS	4	\$RWLPUNS	"V(HASPRWLU)" Remote punch sub-table
164	(A4)	ADDRESS	4	\$RWLNJRS	"V(HASPRWJR)" Job receiver sub-table
168	(A8)	ADDRESS	4	\$RWLNJTS	"V(HASPRWJT)" Job xmitter sub-table
172	(AC)	ADDRESS	4	\$RWLNSRS	"V(HASPRWSR)" SYSOUT receiver sub-table
176	(B0)	ADDRESS	4	\$RWLNSTS	"V(HASPRWST)" SYSOUT xmitter sub-table
180	(B4)	ADDRESS	4	\$STABNDA	"V(\$STABEND)" ENTRY TO SUBTASK ESTAE RTN
184	(B8)	ADDRESS	4	\$DWAHEAD	Head/Tail of DWAs queued
188	(BC)	ADDRESS	4	\$DWATAIL	by subtasks
192	(C0)	ADDRESS	4	\$SAPCACH	Ptr to SAPI \$#POST cache
196	(C4)	BITSTRING	1	\$XCWFLAG	Cache control flags
		1...		\$XCWSCEN	"B'10000000'" \$#POST cache for SAPI enabled (see \$SAPCACH)
		.1..		\$XCWLCEN	"B'01000000'" \$#POST cache for local devices enabled (see \$LDVCACH)
197	(C5)	BITSTRING	1	\$RSLFLAG	Resiliency control flags
		1...		\$RSLPRCH	"B'10000000'" PRAOBJ has changed within this members checkpoint cycle.
		.1..		\$RSLOUTP	"B'01000000'" OUTPUT PCE has been attached for privilege use
		..1.		\$RSLCONV	"B'00100000'" Conversion PCE attached for privilege use

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		\$RSLSMAL	"B'00010000'" Small environment SPOOL shortage has abated. KBLOB needs to clear this members BLOB.
198	(C6)	BITSTRING	1	\$DADFMEM	Number of active members when \$DADFRCT captured
199	(C7)	BITSTRING	1		Reserved for future use
200	(C8)	SIGNED	4	\$STUBCNT	\$DTEDYN stub counter
204	(CC)	ADDRESS	4	\$STUBPTR	\$DTEDYN stub routine list
208	(D0)	SIGNED	4	\$DADFRCT	Total TG Free from DADCOUNT - includes BLOB
212	(D4)	ADDRESS	4	\$SAPTOK	SAPID data space ALET
216	(D8)	ADDRESS	4	\$STACTOK	STAC Data space ALET
220	(DC)	ADDRESS	4	\$PSOTOK	PSO Data space ALET
224	(E0)	ADDRESS	4	\$DILHEAD	Address of first queued DWA element
228	(E4)	ADDRESS	4	\$DILTAIL	Address of last queued DWA element
232	(E8)	ADDRESS	4	\$ACTRNUM	Number of entries in RSO
236	(EC)	ADDRESS	4	\$FREEJOE	Address of free JOE array
ENTRIES FOR INSTALLATION EXIT, TABLE EXTENSION SERVICES					
240	(F0)	ADDRESS	4	\$PRPUSRV	"V(PRPUSRV)" ADDRESS OF PRPU EXIT SERVICES
244	(F4)	ADDRESS	4	\$MCT	"V(\$MCTABLE)" ADDR HASP MASTER CONTROL TABLE
248	(F8)	ADDRESS	4	\$PRAPTR	PTR to JES2 privilege access object - PRAOBJ
252	(FC)	ADDRESS	4	\$UCT	"V(USERCT)" ADDR USER COMMUNICATION TABLE
256	(100)	ADDRESS	4	\$SXADDR	"V(SXADDR)" SXADDR address
260	(104)	ADDRESS	4	\$DIAGTBL	ENTRY TO DIAGNOSTIC MSGS TABLE
Entries for MVS Service Routines					
264	(108)	ADDRESS	4	\$JAXPTR	Ptr to JOE index access control object (JAX)
268	(10C)	ADDRESS	4	\$SYMBM	Symbol translation Service
CHAIN HEADS (ORIGIN AND LAST) FOR ALL DTES					
272	(110)	ADDRESS	4	\$DTEORG	ORIGIN DTE ADDR (DTENEXT CHAIN)
276	(114)	ADDRESS	4	\$DTELAST	LAST DTE ADDR (DTEPREV CHAIN)
SUBTASK 'TYPE' POINTERS INTO THE DTENEXT CHAIN. NOTE THAT THESE POINTERS ARE ZERO IF NO SUBTASK FOR THAT 'TYPE' IS CURRENTLY ATTACHED.					
280	(118)	ADDRESS	4	\$DTEIMAG	IMAGE DTE(S) (HASPIMAG)
284	(11C)	ADDRESS	4	\$DTEALOC	ALLOCATE DTE (HOSALLOC)
288	(120)	ADDRESS	4	\$DTESPOL	SPOOL DTE(S) (HOSPOOL)
292	(124)	ADDRESS	4	\$DTEMIG	SPOOL DTE(S) (HOSMIGR)
296	(128)	ADDRESS	4	\$DTEASST	SPOOL DTE(S) (HOSASST)
300	(12C)	ADDRESS	4	\$DTESMF	SMF DTE (HASPACCT)
304	(130)	ADDRESS	4	\$DTEVTM	VTAM DTE (HASPVTAM)
308	(134)	ADDRESS	4	\$DTEWTO	WTO DTE (HASPWTO)

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
312	(138)	ADDRESS	4	\$DTECNVT	CONVERT DTE(S) (HOSCNVT)
316	(13C)	ADDRESS	4	\$DTEOFF	OFFLOAD DTE(S) (HASPOFF)
320	(140)	ADDRESS	4	\$DTECKVR	VERSCOPY DTE (HASPCKVR)
324	(144)	ADDRESS	4	\$DTECKCF	CKPTONCF DTE (HASPCKCF)
328	(148)	ADDRESS	4	\$DTECKDA	CKPTONDA DTE (HASPCKDA)
332	(14C)	ADDRESS	4	\$DTEGSUB	GENERAL DTE(S) (HASPSUBS)
336	(150)	ADDRESS	4	\$DTEEOM	EOM DTE(S) (HASPEOM)
340	(154)	ADDRESS	4	\$DTE LIM	LIMITS DTE (HASPLIM)
SPECIAL DTE POINTERS					
344	(158)	ADDRESS	4	\$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
ERROR STACK POINTERS FOR RECOVERY OPTIONS					
348	(15C)	ADDRESS	4	\$MAINSTK	"V(STKMAIN)" ADDR OF MAIN TASK ERROR STACK
352	(160)	ADDRESS	4	\$DSTRSTK	"V(STKDSTR)" ADDR OF \$DISTERR ERROR STACK
356	(164)	ADDRESS	4	\$STERSTK	"V(STKSUBT)" SUBTASK ERROR STACK ORIGIN, SUBTASK STACKS ARE CONTIGUOUS.
356	(164)	X'A'	0	\$SPLIOER	"10" Number of SPOOL I/O errors allowed before operator prompted to end warmstart
HASP CONTROL BLOCK DIRECTORY					
360	(168)	ADDRESS	4	\$ACTABLE	ADDR OF AUTOMATIC COMMAND TABLE
364	(16C)	ADDRESS	4	\$APPLTBL	ADDRESS NJE/SNA APPLICATION TBL
368	(170)	ADDRESS	4	\$AQSE	Addr of this sys's QSE
372	(174)	ADDRESS	4	\$ASYNCQ	ADDR ASYNC I/O COMPLETION QUEUE
376	(178)	ADDRESS	4	\$ASYPCIQ	ADDRESS OF ASYNC PCIE EXEC QUE
380	(17C)	ADDRESS	4	\$BERTPTR	Address of BERT CTENT
384	(180)	ADDRESS	4	\$BITSONA	"V(\$BITSON)" ADDR OF TBLE BITS ON IN A BYTE
388	(184)	ADDRESS	4	\$BUSYQUE	ADDRESS OF COMM TASK INPUT QUE
392	(188)	ADDRESS	4	\$BUSYRQ	ADDR REMOTE CONSOLE BUSY QUEUE
396	(18C)	ADDRESS	4	\$CATQUE	Addr of private CATs (not valid past initialization)
400	(190)	ADDRESS	4	\$CHLOG	ADDRESS OF THE CHANGE LOG
404	(194)	ADDRESS	4	\$CKG1	ADDRESS OF CKPT1 CKGPAR
408	(198)	ADDRESS	4	\$CKG2	ADDRESS OF CKPT2 CKGPAR
412	(19C)	ADDRESS	4	\$CLCB	ADDRESS CH LOG CNTL BYTES
416	(1A0)	ADDRESS	4	\$CKPTQHD	CKPT work queue head
420	(1A4)	ADDRESS	4	\$CKW	ADDRESS OF CKPT WORK AREA
424	(1A8)	ADDRESS	4	\$COMEXTN	ADDR OF COMM EXTENDED AREA
428	(1AC)	ADDRESS	4	\$COMMQUE	ADDR COMMAND PROCESSOR WORK Q
432	(1B0)	ADDRESS	4	\$COMMQTP	Queue of CMBs from RDR/RTAM
436	(1B4)	BITSTRING	4		Reserved

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
440	(1B8)	DBL WORD	8	\$MIGRQCD(0)	Field used by the CDS instruction when adding or removing an element from the migration I/O queue.
440	(1B8)	ADDRESS	4	\$MIGRIOQ	Address of the first buffer in the ASYNC PCE migration I/O queue.
444	(1BC)	ADDRESS	4	\$MIGRQSQ	Migration I/O queue sequence number - ensures uniqueness.
448	(1C0)	ADDRESS	4	\$CPTMAP	ADDR OF CPT QUICK INDEX
452	(1C4)	ADDRESS	4	\$CPTPOOL	ADDRESS OF FIRST HASP CPT
456	(1C8)	ADDRESS	4	\$DADEBAD	ADDRESS HASP DIRECT ACCESS DEB
460	(1CC)	ADDRESS	4	\$DASAREA	Addr of DAS header
464	(1D0)	ADDRESS	4	\$DASFRST	Addr of first DAS
468	(1D4)	ADDRESS	4	\$DASEXT	ADDRESS OF DAS EXT AREA
472	(1D8)	ADDRESS	4	\$DOMQUE	ADDRESS OF CMBS AWAITING ACTION
476	(1DC)	ADDRESS	4	\$DOMQUEA	ADDR CMBS DESTINED FOR \$DOMQUE
480	(1E0)	ADDRESS	4	\$DREPCB	Address of repository CB
488	(1E8)	ADDRESS	8	\$DRIXPTR	Pointer to HASP DRX CTENT
496	(1F0)	ADDRESS	8	\$DRTMPTR	Pointer to HASP DR TM CTENT
504	(1F8)	BITSTRING	4	\$EMEMAFF	AFFINITY MASK FOR RESET
508	(1FC)	ADDRESS	4	\$ERRTABA	Error table address
512	(200)	ADDRESS	4	\$EZAADDR	EZASMI work areas
516	(204)	ADDRESS	4	\$XMASADR	ADDR of Cross MAS XCF CB
520	(208)	ADDRESS	4	\$GTWKTAB	"V(GTWKTABL)" ADDRESS OF GETWORK TABLE
524	(20C)	ADDRESS	4	\$GRWORK	Addr of GET/RET work area
528	(210)	ADDRESS	4	\$HASCB	ADDRESS OF HASP ASCB
532	(214)	ADDRESS	4	\$HASPCB	ADDR OF HASP DIRECT ACCESS DCB
536	(218)	ADDRESS	4	\$HASPRB	ADDR OF HASP RB
540	(21C)	ADDRESS	4	\$HASPTCB	ADDR OF HASP TASK CONTROL BLOCK
544	(220)	ADDRESS	4	\$HFAM	ADDR OF HASP FILE ALLOC MAP
548	(224)	ADDRESS	4	\$ICELOST	ADDR OF Frozen ICE queue
552	(228)	ADDRESS	4	\$#INDEXA	"V(\$#INDEX)" ADDR OF SYSOUT CLS QUEUE INDEX
556	(22C)	ADDRESS	4	\$INIWARM	Addr of INIWARM passed from HASPIR* to HASPWARM
560	(230)	ADDRESS	4	\$JESACCT	ADDR OF JES2-TO-NET ACCT TABLE
564	(234)	ADDRESS	4	\$JESTOKA	ADDR OF JES2 SECURITY TOKEN
568	(238)	CHARACTER	8	\$JESUSER	User id from JES2 token
576	(240)	CHARACTER	8	\$JESSECL	SECLABLE from JES2 token
584	(248)	ADDRESS	4	\$JNEW	ADDR MOST RECENT JESNEWS CB
588	(24C)	ADDRESS	4	\$JNTPTR	ADDR OF HASP JOB NUMBER TABLE
592	(250)	ADDRESS	4	\$ZJCPtr	Pointer to the Zone Job Container (ZJC) CTENT.
596	(254)	ADDRESS	4	\$JOBQPTR	ADDR OF HASP JOB QUEUE ORIGIN
600	(258)	ADDRESS	4	\$JOTABLE	ADDRESS OF HASP JOT ORIGIN
604	(25C)	ADDRESS	4	\$JOTPOST	ADDRESS OF JOTPOST MAP
608	(260)	ADDRESS	4	\$JQEEXT	ADDRESS OF EXTENSION AREA
612	(264)	ADDRESS	4	\$JQXPTR	Addr of HASP JQX CTENT

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
616	(268)	ADDRESS	8	\$JQYPTR	Pointer to HASP JQY CTENT
624	(270)	ADDRESS	8	\$JQSPTR	Pointer to HASP JQS CTENT
632	(278)	ADDRESS	4	\$JOXPTR	Addr of HASP JOX CTENT
636	(27C)	ADDRESS	4	\$JSAPTR	Addr of Job Selection Area
640	(280)	ADDRESS	4	\$JWELTBL	ADDR OF JOE/WRITER EXCLUDE LIST TABLE
644	(284)	ADDRESS	4	\$JWEHAVT	ADDR OF ADDRESS SPACE VECTOR TABLE TO CONTAIN WRITER ID NUM
648	(288)	ADDRESS	4	\$KITPTR	ADDRESS OF HASP KIT ORIGIN
652	(28C)	ADDRESS	4	\$LCKPTR	ADDRESS OF HASP LOAD CKPT TABLE
656	(290)	ADDRESS	4	\$LSPTR	Pointer to main JES2 linkage stack for main task
660	(294)	ADDRESS	4	\$MASTER	ADDRESS OF MASTER CKPT AREA
664	(298)	ADDRESS	4	\$MASTERI	ADDRESS OF MSTR CKP I/O AREA
668	(29C)	ADDRESS	4	\$MCONMSG	ADDR REMOTE CONSOLE MSG QUEUE
672	(2A0)	ADDRESS	4	\$MWORK	ADDR OF RTAM GENERAL WORK AREA
676	(2A4)	ADDRESS	4	\$NETACCT	ADDR OF NET-TO-JES2 ACCT TABLE
680	(2A8)	ADDRESS	4	\$NITABLE	ADDR OF NODE INFORMATION TABLE
684	(2AC)	ADDRESS	4	\$NITCPTR	Pointer to CKPTed NITs
688	(2B0)	SIGNED	4	\$NITCSEQ	Current seq# of CKPTed NITs
692	(2B4)	ADDRESS	4	\$NUCFIXD	"V(\$FIXEND)" ADDR OF NUC PAGEFIXED AREA END
696	(2B8)	SIGNED	4	\$PROCDDN	PROCLIB DD number to use
700	(2BC)	ADDRESS	4	\$PADDR	"V(PADDR)" ADDR OF PRIVATE RTN LIST
704	(2C0)	ADDRESS	4	\$PERFCB	Performance data anchor CB (holds TEWA address before PERFCB memory obtained)
708	(2C4)	ADDRESS	4	\$POLCYDD	Addr of POLICYLIB PAD chain
712	(2C8)	ADDRESS	4	\$PRFDATA	"V(PRFTABLE)" Addr of PERFDATA subscripts
716	(2CC)	ADDRESS	4	\$PITABLE	ADDR HASP PARTITION INFO TABLE
720	(2D0)	ADDRESS	4	\$PRMDTBL	ADDRESS OF PRMODE TABLE
724	(2D4)	CHARACTER	8	\$HASPPRM	INITIALIZATION PARMS DD NAME
732	(2DC)	CHARACTER	8	\$PRMMEMB	DEFAULT PARM MEMBER NAME
740	(2E4)	ADDRESS	4	\$QINDEXA	"V(\$QINDEX)" ADDR OF JOB CLASS QUEUE INDEX
744	(2E8)	ADDRESS	4	\$QSE1	ADDRESS OF 1ST HASP QSE
748	(2EC)	ADDRESS	4	\$RATABLE	ADDR OF REMOTE ATTRIBUTE TABLE
752	(2F0)	ADDRESS	4	\$RCDFRST	Addr of first RECYDAS
756	(2F4)	ADDRESS	4	\$RPLCOMQ	Addr of SNA/RPL compl queue
760	(2F8)	ADDRESS	4	\$RMTSON	ADDRESS OF REMOTE SIGN-ON TABLE
764	(2FC)	ADDRESS	4	\$RTIMTAB	"V(\$TIMETAB)" ADDR ESTIMATED TIME PRIO TABLE
768	(300)	ADDRESS	4	\$SAVAREA	Addr next available general save area
772	(304)	ADDRESS	4	\$SAVALST	Last available save area
776	(308)	ADDRESS	4	\$SBMT	Submit command work area
780	(30C)	ADDRESS	4	\$SFWA	ADDR OF SWBTU FUNCTIONS WORK AREA (\$SFW)
784	(310)	ADDRESS	4	\$SCQADDR	Address SCQ CTENT
788	(314)	ADDRESS	4	\$SCT	Address of Spin Comm Table

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
792	(318)	ADDRESS	4	\$SMFBUSY	ADDR SMF BUFFER QUEUED FOR I/O
796	(31C)	ADDRESS	4	\$SPOOLQ	BAD TRACK GROUPS TO FORMAT QUES
800	(320)	ADDRESS	4	\$SOCKETBL	TCP/IP SOCKET TABLE
804	(324)	ADDRESS	4	\$STWORK	ADDR OF SUBTASK WORK AREA
808	(328)	ADDRESS	4	\$HCCT	HASP COMMON COMMUNICATION TABLE
812	(32C)	ADDRESS	4	\$STQEACT	ADDR OF 1ST ACTIVE STQE
816	(330)	ADDRESS	4	\$BSCCHEQ	ADDR of BSC channel end Q
820	(334)	ADDRESS	4	\$TQEQUE	ADDR OF HASP TIMER Q ELEMENT Q
824	(338)	ADDRESS	4	\$TRGENER	"V(TRGENER)" Generic translate table
828	(33C)	ADDRESS	4	\$VLOGQUE	VTAM OPEN/CLOSE ACB SUBTASK QUE
832	(340)	ADDRESS	4	\$WLMDATA	Addr of WLM data bundle
836	(344)	ADDRESS	4	\$WSAPTR	ADDR OF WORK SELECTION AREA
840	(348)	ADDRESS	4	\$XFRACTV	ADDRESS OF 1ST ACTIVE XFR DCT
844	(34C)	ADDRESS	4	\$XFRBEND	ADDR OF XFR BUFFER COMPLETION Q
848	(350)	ADDRESS	4	\$XFRDEND	ADDR OF XFR DCT SUBTASK COMP Q
852	(354)	ADDRESS	4	\$XITADDR	ADDR OF EXIT INFO TABLE (XIT)
856	(358)	SIGNED	4	\$PLXDYNI	CPOOL ID for PLX dynamic areas
864	(360)	ADDRESS	8	\$BADTRTG	Addr of BADTRACK TGM
Keep the EBCDIC level and binary product/service levels together.					
872	(368)	BITSTRING	10	\$JES2_LEVEL(0)	Level information
872	(368)	CHARACTER	8	\$LEVEL	Version of the JES2 macros used to assemble HASPNUC <--+
880	(370)	ADDRESS	1	\$PLVL	Binary product level |
881	(371)	ADDRESS	1	\$SLVL	Binary service level <--+
882	(372)	ADDRESS	2	(0)	Ensure product level is defined correctly
882	(372)	SIGNED	2	\$JQEFUDG	Number of TIMECLOC fudges since the last JES2 start
884	(374)	BITSTRING	4		Reserved
Track group map table \$TGMADDR through \$TGBAD must be kept together					
888	(378)	DBL WORD	8	\$TGMADDR(0)	ADDR HEADER OF TRACK GROUP
888	(378)	ADDRESS	8	\$TGMHEAD	Address of TGM group head
896	(380)	ADDRESS	8	\$TGMAP	Address of master TGM
904	(388)	ADDRESS	8	\$TGBAD	Address of bad TGM
904	(388)	X'2'	0	\$TBLNUM	"(*-\$TGMAP)/8" Number of entries in table
912	(390)	ADDRESS	4	\$TGRADDR	Addr checkpointed BLOB
912	(390)	X'28'	0	\$TGRHDR	"40" Length of BLOB header
RESERVED AREA FOR USER FIELDS					
916	(394)	ADDRESS	4	\$UPADDR	ADDR OR USER PRIVATE ADD TABLE
920	(398)	ADDRESS	4	\$USXADDR	USXADDR address
924	(39C)	ADDRESS	4	\$USER1	RESERVED FOR USER
928	(3A0)	ADDRESS	4	\$USER2	RESERVED FOR USER

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
932	(3A4)	ADDRESS	4	\$USER3	RESERVED FOR USER
936	(3A8)	ADDRESS	2	\$USER4	RESERVED FOR USER
938	(3AA)	ADDRESS	2	\$USER5	RESERVED FOR USER
HASP OPERATING CONSTRAINTS					
940	(3AC)	SIGNED	2	\$PPBSIZE	Size of the PCE Perf block
942	(3AE)	ADDRESS	2	\$NUMCPTS	NUMBER OF CPTS
944	(3B0)	ADDRESS	4	\$PRIOUT	"V(\$OUTTAB)" OUTPUT PRIORITY TABLE
948	(3B4)	ADDRESS	4	\$SYNCTOL	TOD CLOCK SYNC ERROR TOLERANCE
952	(3B8)	DBL WORD	8	\$CKPTLEV	LEVEL NUMBER OF CKPT DATA
952	(3B8)	X'3B8'	0	\$CKPTLVP	"\$CKPTLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
952	(3B8)	X'3BC'	0	\$CKLEVNM	"\$CKPTLEV+4,4,C'F'" Fullword level for messages and CTLB comparisons
960	(3C0)	SIGNED	4	\$CKOLDLV	Original checkpoint level # for JOTPOST comparison
964	(3C4)	SIGNED	4	\$TOTCKSZ	Size of the checkpoint data set in 4K pages
968	(3C8)	ADDRESS	4	\$DELAYTM	MODEL 20 DELAY TIME
972	(3CC)	SIGNED	2	\$KITNUM	NUM KITS PRESENT IN SYSTEM
974	(3CE)	SIGNED	2	\$WARMACT	Nr of active warmstart PCEs
976	(3D0)	SIGNED	4	\$LOCKOUT	LOCKOUT WARN TIME, SECS/100
980	(3D4)	SIGNED	4	\$MINHOLD(0)	Minimum hold time, secs/100
984	(3D8)	SIGNED	4	\$ORIGMHD	Original minhold (used to restore \$MINHOLD after all warmstart PCEs have gone dormant)
988	(3DC)	ADDRESS	4	\$MAXINT	MAX INT FOR CKPTW, SECS/100
992	(3E0)	SIGNED	4	\$MINDORM	MINIMUM DORMANT TIME, SECS/100
996	(3E4)	SIGNED	4	\$MAXDORM	MAXIMUM DORMANT TIME, SECS/100
1000	(3E8)	ADDRESS	4	\$DDSEGLM	SEGLIM VALUE
1004	(3EC)	ADDRESS	2	\$MAXDELT	MAXIMUM MESSAGE DELAY TIME
1006	(3EE)	ADDRESS	2	\$MAXMSGQ	MAXIMUM MSGS TO QUEUE ON SPOOL
1008	(3F0)	ADDRESS	2	\$NUMPATH	NUMBER OF PATHS PER NIT
1010	(3F2)	ADDRESS	2	\$MAXHOP	MAXIMUM NJE HOP COUNT
1012	(3F4)	ADDRESS	2	\$AUTOINV	SNA AUTOLOGON SCAN INTERVAL
1014	(3F6)	ADDRESS	2	\$NUMAUTO	NUMBER OF AUTOLOGON REMOTES
1016	(3F8)	SIGNED	4	\$MVSPSEQ	MVS product level at IPL
1020	(3FC)	BITSTRING	1	\$EDSSTAT	EDS status flags
		1...		\$EDSGPTS	"B'10000000'" GP task shortage
1021	(3FD)	ADDRESS	1	\$NENFINP	\$NOTENFs in progress
1022	(3FE)	ADDRESS	1	\$CIPERAS	C/I subtasks per addr space
1023	(3FF)	ADDRESS	1	\$OPTSTA2	More initialization options
		1...		\$OP2COMP	"B'10000000'" Compat mode cold start
		.1..		\$OP2FULF	"B'01000000'" Full function cold start

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
\$OPTSTAT INITIALIZATION OPTION DEFINITIONS \$OPTSTAT IS PART OF SMF RECORD 43					
1024	(400)	BITSTRING	1	\$OPTSTAT(0)	HASP Init Options (Use BL1 so offset table will be satisfied, but you need AL1 to assign initial value to the byte)
		1... ..		\$OPTFMT	"B'10000000'" FORMAT-- FORCE FORMAT OPTION (OPP IS NOFMT = DEFAULT)
		.1.. ..		\$OPTCOLD	"B'01000000'" COLD -- COLD START OPTION (OPP IS WARM = DEFAULT)
		..1.		\$OPTREQ	"B'00100000'" REQ -- REQUEST OPTION = DEFAULT (OPPOSITE IS NOREQ)
		...1		\$OPTLIST	"B'00010000'" LIST -- HASPPARM LIST = DEFAULT (OPPOSITE IS NOLIST)
		.... 1..		\$OPTLOG	"B'00001000'" LOG -- HASPPARM LOG = DEFAULT (OPPOSITE IS NOLOG)
		.... ..1.		\$OPTCONS	"B'00000010'" CONSOLE- CONSOLE OPTION
		.... ...1		\$OPTQWIK	"B'00000001'" QUICK-- NON-ALL-SYSTEMS WARM START (FMT/COLD MUST BE OFF)
1024	(400)	X'38'	0	\$OPTSTD	"\$OPTREQ+\$OPTLIST+\$OPTLOG" DEFAULTS = NOFMT, WARM, REQ, LIST, LOG
\$OPTSTA1 MORE INITIALIZATION OPTION DEFINITIONS CKPTN OPTION SETS THE FOLLOWING BITS IN \$OPTSTA1 \$OP1SPEC \$OP1CKPT DEFAULT 0 0 CKPT1 1 0 CKPT2 1 1					
1025	(401)	BITSTRING	3	\$OPTSTA1(0)	MORE INIT OPTIONS
		1... ..		\$OP1SPEC	"B'10000000'" CKPTN -- READ FROM A SPECIFIC DATA SET
		.1.. ..		\$OP1CKPT	"B'01000000'" CKPTN -- WHICH CKPT TO READ FROM FIRST
		..1.		\$OP1PJS2	"B'00100000'" \$PJES2 - TERMINATE JES2 OPT
		...1		\$OP1SVAL	"B'00010000'" Do spool validation
		.... 1..		\$OP1SFCE	"B'00001000'" Whether spool validation done or not was a forced condition
		.... .1..		\$OP1UNAC	"B'00000100'" UNACTIVATE system
		.... ..1.		\$OP1SVLH	"B'00000010'" Spool validate attempted on last start
1025	(401)	X'0'	0	\$OPT1STD	"0" Default is no SPOOL validation
1026	(402)	BITSTRING	3	\$RUNOPTS(0)	JES2 RUN OPTIONS
		.... .1..		\$PRTYOUT	"X'04'" OUTPUT card 'PRTY=' option
		.... ..1.		\$PRI0OPT	"X'02'" PRIORITY card option
		.... ...1		\$PRTYJOB	"X'01'" Job card 'PRTY=' option
1027	(403)	ADDRESS	1	\$PRTOPTS	PRINT OPTIONS
		1... ..		\$PRTBOPT	"X'80'" Local print dbl-buffering option
		.1.. ..		\$PUNBOPT	"X'40'" Local punch dbl-buffering option
		..1.		\$RPRBOPT	"X'20'" Remote print dbl-buffering option

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		\$RPUBOPT	"X'10'" Remote punch dbl-buffering option
		.... 1...		\$PRTRANS	"X'08'" Print translate option
		.... .1..		\$DMNDSET	"X'04'" Specify demand setup option
		.... ..1.		\$USERSET	"X'02'" Specify user setup option
		.... ...1		\$CREATE	"X'01'" JOE create time updated only at create time
1028	(404)	ADDRESS	1	\$RJEOPTS	HASP REMOTE JOB ENTRY OPTIONS
		1...		\$ADDSYNS	"X'80'" Additional synchronous idles option
1029	(405)	ADDRESS	1	\$RJBOPT	Job scan flags:
		1...		\$ACTIGN	"B'10000000'" Job account information is ignored
		.1..		\$ACTREQ	"B'01000000'" Job account information is required
		...1		\$OPTINTR	"B'00010000'" Back to back C/I
		.... 1...		\$PRCJ3CL	"B'00001000'" Process JES3 JECL
		.... .1..		\$SLSLEOF	"B'00000100'" Treat null JCL card // as EOF
1030	(406)	ADDRESS	1	\$LINECT	MAXIMUM LINES PER PAGE
1031	(407)	ADDRESS	1	\$NJEOPTS	HASP NJE options:
		1...		\$MAILMSG	"B'10000000'" ISSUE MAIL NOTIFY MSG
JECL processing options for JES2 and JES3. Each statement uses two bits: - 00 ignore the statement - 01 process and warn - 10 recognize and fail - 11 process the statement Each bit group in the four byte field is numbered left to right: - left-most two bits - number 0 - next two bits - number 1 - etc.					
1032	(408)	BITSTRING	4	\$J2CLOPT	JES2 JECL options: default - process all
1032	(408)	X'408'	0	\$J2CLOP1	"\$J2CLOPT+0,1" first byte of \$J2CLOPT
1032	(408)	X'409'	0	\$J2CLOP2	"\$J2CLOPT+1,1" second byte of \$J2CLOPT
1032	(408)	X'40A'	0	\$J2CLOP3	"\$J2CLOPT+2,1" third byte of \$J2CLOPT
1032	(408)	X'40B'	0	\$J2CLOP4	"\$J2CLOPT+3,1" fourth byte of \$J2CLOPT
1032	(408)	X'0'	0	\$J2CLJBP	"0" bit grp for JOBPARM
1032	(408)	X'1'	0	\$J2CLMSG	"1" bit grp for MESSAGE
1032	(408)	X'2'	0	\$J2CLNTA	"2" bit grp for NETACCT
1032	(408)	X'3'	0	\$J2CLNFY	"3" bit grp for NOTIFY
1032	(408)	X'4'	0	\$J2CLOUT	"4" bit grp for OUTPUT
1032	(408)	X'5'	0	\$J2CLPRY	"5" bit grp for PRIORITY
1032	(408)	X'6'	0	\$J2CLRTE	"6" bit grp for ROUTE
1032	(408)	X'7'	0	\$J2CLSET	"7" bit grp for SETUP
1032	(408)	X'8'	0	\$J2CLXEQ	"8" bit grp for XEQ
1032	(408)	X'9'	0	\$J2CLXMT	"9" bit grp for XMIT
1036	(40C)	BITSTRING	4	\$J3CLOPT	JES2 JECL options: default - ignore all

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1036	(40C)	X'40C'	0	\$J3CLOP1	"\$J3CLOPT+0,1" first byte of \$J3CLOPT
1036	(40C)	X'40D'	0	\$J3CLOP2	"\$J3CLOPT+1,1" second byte of \$J3CLOPT
1036	(40C)	X'40E'	0	\$J3CLOP3	"\$J3CLOPT+2,1" third byte of \$J3CLOPT
1036	(40C)	X'40F'	0	\$J3CLOP4	"\$J3CLOPT+3,1" fourth byte of \$J3CLOPT
1036	(40C)	X'0'	0	\$J3CLMN	"0" bit grp for / MAIN
1036	(40C)	X'1'	0	\$J3CLDS	"1" bit grp for / DATASET
1036	(40C)	X'2'	0	\$J3CLEDS	"2" bit grp for / ENDDATASET
1036	(40C)	X'3'	0	\$J3CLFMT	"3" bit grp for / FORMAT
1036	(40C)	X'4'	0	\$J3CLNET	"4" bit grp for / NET
1036	(40C)	X'5'	0	\$J3CLNTA	"5" bit grp for / NETACCT
1036	(40C)	X'6'	0	\$J3CLOPR	"6" bit grp for / OPERATOR
1036	(40C)	X'7'	0	\$J3CLPAU	"7" bit grp for / PAUSE
1036	(40C)	X'8'	0	\$J3CLPRC	"8" bit grp for / PROCESS
1036	(40C)	X'9'	0	\$J3CLEPR	"9" bit grp for / ENDPROCESS
1036	(40C)	X'A'	0	\$J3CLRTE	"10" bit grp for / ROUTE
If there is a problem performing a job or output queue verify, the reason and related data are stored in the following fields.					
1040	(410)	SIGNED	4	\$QVERDAT	Queue verification data
1044	(414)	BITSTRING	1	\$QVERRSN	Queue verification reason
JQE verification error indicator					
		.... ..1		\$QVRNJTE	"X'01'" JNT validation error
		.... ..1.		\$QVRNFRE	"X'02'" Job on free que not free
		.... ..11		\$QVRNFRC	"X'03'" Free JQE count is bad
		.... .1..		\$QVRNRQE	"X'04'" Error on rebuild queue
		.... .1.1		\$QVRNBDQ	"X'05'" Bad queue in JQE
		.... .11.		\$QVRNBDC	"X'06'" Wrong class from JQE
		.... .111		\$QVRNBDF	"X'07'" Wrong flags in JQE's CAT
		.... 1...		\$QVRNBDI	"X'08'" Wrong index in JQE's CAT
		.... 1..1		\$QVRNMJN	"X'09'" Missing job number
		.... 1.1.		\$QVRNJXE	"X'0A'" JIX error
		.... 1.11		\$QVRNJXM	"X'0B'" JQE not in JIX
		.... 11..		\$QVRNART	"X'0C'" Artificial bit on in JQE
		.... 11.1		\$QVRNXTH	"X'0D'" JQE extension too high
		.... 111.		\$QVRNXTO	"X'0E'" JQE extension is odd
		.... 1111		\$QVRNXTF	"X'0F'" JQE extension is free
		...1		\$QVRNWQE	"X'10'" JQE on WLM queue
		...1 ...1		\$QVRNWQN	"X'11'" WLMQ bad next pointer
		...1 ..1.		\$QVRNJQC	"X'12'" JQE in use count bad
		...1 ..11		\$QVRNWQP	"X'13'" WLMQ bad prev pointer
		...1 .1..		\$QVRNWQX	"X'14'" WLMQ JQE/JQX loop
		...1 .1.1		\$QVRNJQO	"X'15'" Invalid JQE chain field
		...1 .11.		\$QVRNJQL	"X'16'" JQE loop detected

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .111		\$QVRNWWQ	"X'17'" WLMQ on wrong srvclass q
		...1 1...		\$QVRNDJN	"X'18'" DJB Q next pointer 2 big
		...1 1..1		\$QVRNDJX	"X'19'" Loop in DJB queue
		...1 1.1.		\$QVRNDJQ	"X'1A'" JQE not xeq on DJB queue
		...1 1.11		\$QVRNDJZ	"X'1B'" DJB Q next pointer zero
		...1 11..		\$QVRNDJE	"X'1C'" DJB name not = JQEJNAME
		...1 11.1		\$QVRNDJA	"X'1D'" DJB executing job not fnd
		...1 111.		\$QVRNDJB	"X'1E'" DJB executing key/nr bad
		...1 1111		\$QVRNDJC	"X'1F'" DJB executing key & nr do not match
		..1.		\$QVRNDJF	"X'20'" DJB not found
		..1. ...1		\$QVRNJBC	"X'21'" Invalid JQE back chain index in JQX
Dependency network verification error indicator					
		..1. ..1.		\$QVRNLDN	"X'22'" Dependency network associated with a 'logging job' is in error.
		..1. ..11		\$QVRNSDN	"X'23'" A job scheduled to a dependency network does not correctly address the dependency network.
		..1. .1..		\$QVRNZNF	"X'24'" Dependency network ZOD was not found
		..1. .1.1		\$QVRNZFQ	"X'25'" In use control block found w/ free queue indx
		..1. .11.		\$QVRNZAI	"X'26'" ZJC address/index mismatch
		..1. .111		\$QVRNNTZ	"X'27'" ZJC address passed in is not a ZOD
		..1. 1...		\$QVRNRSV	"X'28'" ZJC reserved area not zeroes
		..1. 1..1		\$QVRNZRS	"X'29'" ZOD reserved area not zeroes
		..1. 1.1.		\$QVRNZNX	"X'2A'" ZJC on next ZOD chain is not a ZOD
		..1. 1.11		\$QVRNNLG	"X'2B'" Logging job JQE for ZOD not found
		..1. 11..		\$QVRNLJI	"X'2C'" Logging job JQE ZOD flds do not match ZOD values
		..1. 11.1		\$QVRNNTJ	"X'2D'" ZJC address being proc is not a ZJI
		..1. 111.		\$QVRNJNX	"X'2E'" ZJC on next ZJI chain is not a ZJI
		..1. 1111		\$QVRNJZD	"X'2F'" ZJI ZOD address bad/does not match input ZOD
		..11		\$QVRNJPF	"X'30'" ZJI Parent ZDB address bad or fields mismatch
		..11 ...1		\$QVRNJDF	"X'31'" ZJI Dep ZDB address bad or fields mismatch
		..11 ..1.		\$QVRNJCF	"X'32'" ZJI next concurrent job not a ZJI
		..11 ..11		\$QVRNJSF	"X'33'" ZJI next jobset job not a ZJI
		..11 .1..		\$QVRNJEJ	"X'34'" ZJI next inerror job not a ZJI
		..11 .1.1		\$QVRNJJQ	"X'35'" ZJI JQE not found, not initialization

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..11 .11.		\$QVRNJN	"X'36'" ZJI JQE job name does not match ZJI job name
		..11 .111		\$QVRNJJK	"X'37'" ZJI JQE job key does not match ZJI job key
		..11 1...		\$QVRNJJR	"X'38'" ZJI JQE not marked as registered
		..11 1..1		\$QVRNJJJ	"X'39'" ZJI JQE index does not match ZJI index
		..11 1.1.		\$QVRNJIN	"X'3A'" ZJI next inerror not a ZJI
		..11 1.11		\$QVRNJI#	"X'3B'" ZOD inerror count does not match chain ent cnt
		..11 11..		\$QVRNDFQ	"X'3C'" ZDB free queue index not zero
		..11 11.1		\$QVRNDFI	"X'3D'" ZDB calculated ZJC does not match chain ent cnt
		..11 111.		\$QVRNDFT	"X'3E'" ZDB ZJC does not have type "ZDB"
		..11 1111		\$QVRNDNX	"X'3F'" ZDB next ZDB index does not point to a ZDB
		.1..		\$QVRNDPI	"X'40'" ZDB parent index is 0
JQE extensions verification error indicator \$QEXTVER					
		.1.. ...1		\$QVRNETH	"X'41'" JQE extension too high
		.1.. ..1.		\$QVRNETO	"X'42'" JQE extension is odd
		.1.. ..11		\$QVRNENF	"X'43'" JQE extension not free
BERT verification error found \$BERTFIX					
		.1.1 ...1		\$QVRNBFR	"X'51'" BERT free queue error
		.1.1 ..1.		\$QVRNBIM	"X'52'" BERT internal map error
		.1.1 ..11		\$QVRNBDB	"X'53'" BERT dynamic queue error
		.1.1 .1..		\$QVRBNBQ	"X'54'" BERT named int head error
		.1.1 .1.1		\$QVRNBNI	"X'55'" BERT named int BERT error
		.1.1 .11.		\$QVRNBQH	"X'56'" BERT named que head error
		.1.1 .111		\$QVRNBQE	"X'57'" BERT named que element er
		.1.1 1...		\$QVRNBQL	"X'58'" BERT named que loop error
		.1.1 1..1		\$QVRNBQV	"X'59'" BERT named que validity e
		.1.1 1.1.		\$QVRNBJF	"X'5A'" BERT JQE point to free
		.1.1 1.11		\$QVRNBJH	"X'5B'" BERT JQE point range err
		.1.1 11..		\$QVRNBJE	"X'5C'" BERT JQE element error
		.1.1 11.1		\$QVRNBOH	"X'5D'" BERT JOE point range err
		.1.1 111.		\$QVRNBOE	"X'5E'" BERT JOE element error
		.1.1 1111		\$QVRNBOR	"X'5F'" BERT orphan found
CAT verification error found \$CATINIT					
		.11. ...1		\$QVRNCER	"X'61'" CAT error found
Dependency network verification error ind (continued)					
		.111 ...1		\$QVRNDPT	"X'71'" ZDB parent index points to a non-ZJI ZJC

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.111 .1.		\$QVRNDPN	"X'72'" ZDB parent name does not match parent ZJI name
		.111 .11		\$QVRNDNP	"X'73'" ZDB next parent index ZDB points to a non-ZDB
		.111 .1..		\$QVRNDDI	"X'74'" ZDB dependent index is 0
		.111 .1.1		\$QVRNDDT	"X'75'" ZDB dependent job index points to non-ZJI ZJC
		.111 .11.		\$QVRNDDN	"X'76'" ZDB dependent job name does not match ZJI jobn
		.111 .111		\$QVRNDDX	"X'77'" ZDB dependent next index is not a ZDB
		.111 1...		\$QVRORZO	"X'78'" Orphaned ZOD - associated logging JOE not valid.
		.111 1..1		\$QVRORZI	"X'79'" Orphaned ZJI - associated logging JOE not valid or registered job is not valid.
		.111 1.1.		\$QVRFZLP	"X'7A'" Loop in free ZJC chain
		.111 1.11		\$QVRZJLP	"X'7B'" Loop in ZJI chain
		.111 11..		\$QVRINLP	"X'7C'" Loop in "in-error" chain
		.111 11.1		\$QVRZDLP	"X'7D'" Loop in ZDB chain
		.111 111.		\$QVRZIXE	"X'7E'" Bad chaining index in some ZJC list/chain
		.111 1111		\$QVRORZD	"X'7F'" Orphaned ZDB
		1...		\$QVRZJCT	"X'80'" Unknown ZJC type
JOE verification error indicator					
		1... ...1		\$QVRNOTE	"X'81'" JOE type error
		1... ...1.		\$QVRNOJE	"X'82'" JOE chain error
		1... ...11		\$QVRNORQ	"X'83'" JOE rebuild queue error
		1... ...1..		\$QVRNORE	"X'84'" JOE rebuild chaining err
		1... ...1.1		\$QVRNOR2	"X'85'" JOE rebuild chaining err
		1... ...11.		\$QVRNOR3	"X'86'" JOE rebuild chaining err
		1... ...111		\$QVRNOR4	"X'87'" JOE rebuild chaining err
		1... 1...		\$QVRNOR5	"X'88'" JOE rebuild chaining err
		1... 1..1		\$QVRNOCE	"X'89'" Char JOE error
		1... 1.1.		\$QVRNOCO	"X'8A'" Char JOE order error
		1... 1.11		\$QVRNOCQ	"X'8B'" Char JOE queue error
		1... 11..		\$QVRNOC1	"X'8C'" Char JOE queue error
		1... 11.1		\$QVRNOCC	"X'8D'" Char JOE count error
		1... 111.		\$QVRNOC2	"X'8E'" Char JOE queue error
		1... 1111		\$QVRNOWE	"X'8F'" Work JOE error
		1..1		\$QVRNOWQ	"X'90'" Work JOE queue error
		1..1 ...1		\$QVRNOWC	"X'91'" Work JOE class error
		1..1 ...1.		\$QVRNOW1	"X'92'" Work JOE queue error
		1..1 ...11		\$QVRNOW2	"X'93'" Work JOE queue error
		1..1 ...1..		\$QVRNOW3	"X'94'" Work JOE queue error
		1..1 ...1.1		\$QVRNOW4	"X'95'" JOE on purge or rebuild q
		1..1 ...11.		\$QVRNOW5	"X'96'" Work JOE queue error
		1..1 ...111		\$QVRNOW6	"X'97'" Work JOE queue error

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1..1 1...		\$QVRNOW7	"X'98'" Work JOE queue error
		1..1 1..1		\$QVRNOW8	"X'99'" Work JOE queue error
		1..1 1.1.		\$QVRNCQ1	"X'9A'" Work/char JOE queue error
		1..1 1.11		\$QVRNCQ2	"X'9B'" Work/char JOE queue error
		1..1 11..		\$QVRNCQ3	"X'9C'" Work/char JOE queue error
		1..1 11.1		\$QVRNCQ4	"X'9D'" Work/char JOE queue error
		1..1 111.		\$QVRNCQ5	"X'9E'" Work/char JOE queue error
		1..1 1111		\$QVRNCQ6	"X'9F'" Work/char JOE queue error
		1.1.		\$QVRNCQ7	"X'A0'" Work/char JOE queue error
		1.1. ...1		\$QVRNCQ8	"X'A1'" Work/char JOE queue error
		1.1. ..1.		\$QVRNTQE	"X'A2'" JOE queue error
		1.1. ..11		\$QVRNTRE	"X'A3'" JOE route error
		1.1. .1..		\$QVRNTR2	"X'A4'" JOE route error
		1.1. .1.1		\$QVRNTUE	"X'A5'" JOE user error
		1.1. .11.		\$QVRNTU2	"X'A6'" JOE user error
		1.1. .111		\$QVRNTU3	"X'A7'" JOE user error
		1.1. 1...		\$QVRNTU4	"X'A8'" JOE user error
		1.1. 1..1		\$QVRNTPE	"X'A9'" JOE priority error
		1.1. 1.1.		\$QVRNTP2	"X'AA'" JOE priority error
		1.1. 1.11		\$QVRNTP3	"X'AB'" JOE priority error
		1.1. 11..		\$QVRNTCE	"X'AC'" JOE class error
		1.1. 11.1		\$QVRNJAR	"X'AD'" Artificial bit on in JOE
		1.1. 111.		\$QVRNJOE	"X'AE'" JOT validation error
JOE verification error indicator					
		11.. ...1		\$QVRZFRE	"X'C1'" ZJC on free queue is not free.
		11.. ...1.		\$QVRZIDX	"X'C2'" ZJC on free queue does not have an ascending index.
		11.. ...11		\$QVRZCOU	"X'C3'" Count of ZJCs in the free queue is incorrect.
1045	(415)	ADDRESS	1	\$SPVLRSN	Reason code for forced spool validation
1045	(415)	X'1'	0	\$SPV1QER	"1" Forced on, queue error
1045	(415)	X'2'	0	\$SPV1VAL	"2" Forced on, prior error
1045	(415)	X'3'	0	\$SPV1OPT	"3" Forced on, init option
1045	(415)	X'4'	0	\$SPV1SPL	"4" Forced off, missing spools
1045	(415)	X'5'	0	\$SPV1BRT	"5" Forced off, BERT shortage
1045	(415)	X'6'	0	\$SPV1STR	"6" Forced off, stor shortage
\$DEBUG Option Definitions					
1046	(416)	BITSTRING	1	\$DEBGOPS(0)	DEBUG option flag
1047	(417)	ADDRESS	1	\$DEBGOP2	Second debug options \$DEBGOPS bit definitions
The \$DEBGOPS bit definitions are moved to \$HASPEQU because of the need of Storage Debug Flag in CPOOL					
1047	(417)	X'FF'	0	\$DBGALL	"FF"

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
ESTIMATED COUNT FIELDS DEFAULTS, MAPPED BY THE \$EST MACRO					
1048	(418)	ADDRESS	4	\$EST1(0)	FIRST ESTIMATED COUNT TABLE
1048	(418)	X'5'	0	\$ESTTCNT	"5" NUMBER OF ESTIMATED CNT TABLES
1048	(418)	ADDRESS	4	\$ESTPAGE	
1048	(418)	X'8'	0	\$ESTPG9L	"8" 9'S LIMIT FOR ESTNUM
1060	(424)	ADDRESS	4	\$ESTBYTE	
1060	(424)	X'6'	0	\$ESTMX9L	"6" 9'S LIMIT FOR ESTNUM
1072	(430)	ADDRESS	4	\$ESTLNCT	
1072	(430)	X'6'	0	\$ESTLN9L	"6" 9'S LIMIT FOR ESTNUM
1084	(43C)	ADDRESS	4	\$ESTPUN	
1084	(43C)	X'8'	0	\$ESTPN9L	"8" 9'S LIMIT FOR ESTNUM
1096	(448)	ADDRESS	4	\$ESTIME	
1096	(448)	X'4'	0	\$ESTIM9L	"4" 9'S LIMIT FOR ESTNUM
Values for buffer management - limits, thresholds, free counts, wait counts, etc.					
1108	(454)	SIGNED	2	\$NUMBSC	HASP BSC BUFFER LIMIT
1110	(456)	SIGNED	2	\$BSCPRCT	BSC BUF THRESHOLD PERCENT
1112	(458)	SIGNED	2	\$BSCPRIV	Privileged BSC buffers
1114	(45A)	SIGNED	2	\$BSCFREC	Free BSC buffer count
1116	(45C)	SIGNED	2	\$BSCWBF	Number of BSC buffers being \$WAITed for
1118	(45E)	SIGNED	2	\$BSCNWBFB	Number of non-wait requests for BSC buffers
1120	(460)	SIGNED	2	\$BSCLGRQ	Largest unfulfilled request for BSC buffers
1122	(462)	SIGNED	2	\$NUMBUF	HASP BUFFER LIMIT
1124	(464)	SIGNED	2	\$BUFPRCT	BUFFER THRESHOLD PERCENTAGE
1126	(466)	SIGNED	2	\$BUFPRIV	Privileged HASP buffers
1128	(468)	SIGNED	2	\$LBFFREC	Free LBUF buffer count
1130	(46A)	SIGNED	2	\$BUFWBF	Number of HASP buffers being \$WAITed for
1132	(46C)	SIGNED	2	\$BUFNWBF	Number of non-wait requests for HASP buffers
1134	(46E)	SIGNED	2	\$BUFLGRQ	Largest unfulfilled request for HASP buffers
1136	(470)	SIGNED	2	\$NUMBUFEX	Control Block buffer limit
1138	(472)	SIGNED	2	\$BFXPRCT	CB THRESHOLD PERCENTAGE
1140	(474)	SIGNED	2	\$BFXPRI	Privileged CB buffers by \$T to calc free count
1142	(476)	SIGNED	2	\$LBXFREC	Free XBUF buffer count
1144	(478)	SIGNED	2	\$BFXWBF	Number of CB buffers being \$WAITed for
1146	(47A)	SIGNED	2	\$BFXNWBFB	Number of non-wait requests for CB buffers
1148	(47C)	SIGNED	2	\$BFXLGRQ	Largest unfulfilled request for CB buffers
1150	(47E)	SIGNED	2	\$NUMVTAM	HASP VTAM BUFFER LIMIT
1152	(480)	SIGNED	2	\$VTMPRCT	VTAM BUF THRESHOLD PERCENT

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1154	(482)	SIGNED	2	\$VTMPRIV	Privileged SNA buffers
1156	(484)	SIGNED	2	\$VTMFREC	Free VTAM buffer count
1158	(486)	SIGNED	2	\$VTMWBF	Number of VTAM buffers being \$WAITed for
1160	(488)	SIGNED	2	\$VTMNWBF	Number of non-wait requests for VTAM buffers
1162	(48A)	SIGNED	2	\$VTMLGRQ	Largest unfulfilled request for VTAM buffers
1164	(48C)	SIGNED	2	\$NUMNHB	HASP NHB buffer limit
1166	(48E)	SIGNED	2	\$NHBPRCT	NHB BUF threshold percent
1168	(490)	SIGNED	2	\$NHBLIM	Old NHB buffer limit used by \$T to calc free count
1170	(492)	SIGNED	2	\$NHBFREC	Free NHB count
1172	(494)	SIGNED	2	\$NHBWBF	Number of NHB buffers being \$WAITed for
1174	(496)	SIGNED	2	\$NHBWNWBF	Number of non-wait requests for NHB buffers
1176	(498)	SIGNED	2	\$NHBGRQ	Largest unfulfilled request for NHB buffers
1178	(49A)	ADDRESS	2		Reserved
1180	(49C)	SIGNED	2	\$MAXSESS	MAXIMUM NUMBER OF SESSIONS
1182	(49E)	ADDRESS	2	\$ICEPRCT	Threshold of ICES
ICE free count must be in the second half of a fullword for use by compare and swap logic. \$ICEFREC is defined in the second half of the word which also contains \$ICELIM, which is the old (not actual) count of ICES.					
1184	(4A0)	SIGNED	4	(0)	
1184	(4A0)	SIGNED	2	\$ICELIM	(OLD) count of ICES
1186	(4A2)	SIGNED	2	\$ICEFREC	Free count of ICES
1188	(4A4)	SIGNED	2	\$ICEFRZC	Number of frozen ICES
1190	(4A6)	SIGNED	2	\$ABDNBUF	Number of times buffers were abandoned
1192	(4A8)	ADDRESS	2	\$NUMCMDS	HASP CMBs for commands (default set in IRPL) Mirrored in CCTCMDMX
1194	(4AA)	ADDRESS	2	\$CMDPRCT	CMD THRESHOLD PERCENTAGE
1196	(4AC)	ADDRESS	2	\$NUMCMBS	HASP CONSOLE MESSAGE BUFFERS
1198	(4AE)	ADDRESS	2	\$CMBPRCT	CMB THRESHOLD PERCENTAGE
1200	(4B0)	SIGNED	2	\$CMBLIM	Old CMB limit used by \$T to calculate free count
1202	(4B2)	ADDRESS	2		Reserved
CMB free count must be in the second half of a fullword for use by compare and swap logic. \$CMBFRER is a fullword with the first half reserved, and \$CMBFREC in the second half.					
1204	(4B4)	SIGNED	4	(0)	Force fullword alignment
1204	(4B4)	SIGNED	2		and reserve first half
1206	(4B6)	ADDRESS	2	\$CMBFREC	COUNT OF FREE CMBS
1208	(4B8)	ADDRESS	2	\$NMSGPRC	Notify msg threshold perct
\$MG607F1 and \$MG607F2 must be kept together					

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1210	(4BA)	BITSTRING	2	\$MG607FL(0)	HASP607 message flags
1210	(4BA)	BITSTRING	1	\$MG607F1	HASP607 reason codes
		1... ..		\$M607IO	"B'10000000'" Outstanding I/O
		.1..		\$M607WTO	"B'01000000'" Outstanding WTO activity
		..1.		\$M607ACT	"B'00100000'" Active processors (excluding execution and line manager PCEs)
		...1		\$M607HLD	"B'00010000'" Outstanding held processors
		.... 1...		\$M607LCK	"B'00001000'" STC/TSU intrdr locks held
		.... .1..		\$M607CRS	"B'00000100'" Outstanding cross sys rqsts
		.... ..1.		\$M607SPN	"B'00000010'" Outstanding spin activity
		.... ...1		\$M607PCE	"B'00000001'" Clean withdrawal prohibited due to ended (disposed) processors
1211	(4BB)	BITSTRING	1	\$MG607F2	More HASP607 reason codes
		1... ..		\$M607ESP	"B'10000000'" Outstanding EOM, SAPI or PSO
		.1..		\$M607AAS	"B'01000000'" Active address spaces (execution PCE)
		..1.		\$M607NET	"B'00100000'" Active network devices (line manager PCE)
		...1		\$M607DIL	"B'00010000'" DILBERT DWAs waiting to be processed
		.... 1...		\$M607ACM	"B'00001000'" Alternate command processor processing commands
		.... .1..		\$M607SPM	"B'00000100'" Active SP00L migration
		.... ..1.		\$M607CKR	"B'00000010'" CKPT reconfig in progress
1212	(4BC)	SIGNED	4	\$MG607TM	Time of last 607 message
1216	(4C0)	SIGNED	4	\$NMSGNUM	Current # of notify buffers
1220	(4C4)	SIGNED	4	\$NMSGFRE	Free Notify msg buf count
1224	(4C8)	ADDRESS	2	\$DISPCNT	PASS NUMBER THROUGH DISPATCHER CODE W/O RUNNING OUT OF WORK
1226	(4CA)	ADDRESS	2	\$DISPACE	PACING VALUE (EFFECTS HOW OFTEN CERTAIN DISPATCHER FUNCTIONS ARE DONE IN A BUSY SYSTEM.
1228	(4CC)	ADDRESS	2	\$NUMSMFB	NUMBER OF HASP SMF BUFFERS
1230	(4CE)	ADDRESS	2	\$SMFPRCT	SMF BUFFER THRESHOLD PERCENTAGE
1234	(4D2)	ADDRESS	2	\$SMFFREC	COUNT OF FREE SMF BUFFERS
1236	(4D4)	SIGNED	2	\$SMFLIM	Old SMF limit used by \$T to calculate free count
1238	(4D6)	ADDRESS	2	\$TGFSIZE	NO. OF BUFFERS PER TRACK GROUP
1240	(4D8)	SIGNED	4	\$TGFREEB(0)	TGs free (set at end of KBL0B for JES2 monitor)
1244	(4DC)	ADDRESS	2	\$TTBPRCT	TRACE TABLE THRESHOLD PERCENT (ONLY ACCURATE DURING THRESHOLD PROCESS, CCTTRCWP FIELD ALWAYS CORRECT
1246	(4DE)	SIGNED	2	\$ASVMAXU	Copy of ASVTMAXU
1248	(4E0)	SIGNED	2	\$VERSNUM	NUMBER OF CKPT VERSIONS

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1250	(4E2)	SIGNED	2	\$VERSFRE	NUMBER CKPT VERS FREE
1252	(4E4)	SIGNED	2	\$VERSWRN	USAGE THRESHLD FOR WTO WRN
1254	(4E6)	BITSTRING	3	\$VERSSTT(0)	VERSIONING STATUS
		1... ..		\$VERSACT	"B'10000000'" ACTIVE
		..1.		\$VERSKPT	"B'00100000'" SUSPENDED
		...1		\$VERSINI	"B'00010000'" INITIALIZING
1255	(4E7)	ADDRESS	1	\$SPINACT	Count of active SPIN PCes
1256	(4E8)	SIGNED	4	\$MAXVUSE	Max Number versions in use
1260	(4EC)	SIGNED	4	\$MAXFAIL	SEQUENCE FAIL COUNT
1264	(4F0)	SIGNED	4	\$NUMFAIL	TOTAL FAIL COUNT
1268	(4F4)	ADDRESS	1	\$NOPRCCW	MAXIMUM CCW'S USED BY PRINT
1269	(4F5)	ADDRESS	1	\$NOPUCCW	MAXIMUM CCW'S USED BY PUNCH
1270	(4F6)	ADDRESS	1	\$SEPPAGE	Separator page options
		1... ..		\$LSEPNON	"B'10000000'" Local sep size of NONE
		.1..		\$LSEPHAF	"B'01000000'" Local sep size of HALF
		..1.		\$LSEPFUL	"B'00100000'" Local sep size of FULL
		...1		\$LSEPDBL	"B'00010000'" Local sep size of DOUBLE
		.... 1...		\$RSEPNON	"B'00001000'" Remote sep size of NONE
		.... .1..		\$RSEPHAF	"B'00000100'" Remote sep size of HALF
		.... ..1.		\$RSEPFUL	"B'00000010'" Remote sep size of FULL
		.... ...1		\$RSEPDBL	"B'00000001'" Remote sep size of DOUBLE
1271	(4F7)	ADDRESS	1		Reserved
1272	(4F8)	ADDRESS	4	\$RSRVCKG	CKG OF RESERVED CKPT DS
1276	(4FC)	ADDRESS	4	\$SPOOLCB	SPOOL CB address
TABLE FOR HASP497 DOM ID					
1280	(500)	ADDRESS	4	\$DOMID1(0)	DOMID TABLE HEADER
1280	(500)	ADDRESS	4	\$ERDM497	DOMID MSG497 (ERROR CORRECTION)
1284	(504)	ADDRESS	4	\$RBDM497	DOMID MSG497 (REBUILD)
1284	(504)	X'2'	0	\$DOMIDN	"(*-\$DOMID1)/4" NUMBER OF TABLE ENTRIES
1288	(508)	ADDRESS	4	\$SCLPEND	Address of \$SJ service classes pending dereg.
1292	(50C)	BITSTRING	1	\$PRTOPT2(0)	Additional Print Opts
		1... ..		\$PRTCALL	"B'10000000'" All chnls are new pages
1293	(50D)	CHARACTER	1	\$CCOMCHR	HASP COMMAND ID CHAR (OS INPUT)
1294	(50E)	CHARACTER	1	\$RCOMCHR	HASP COMMAND ID CHAR (RDR/RMT)
1295	(50F)	BITSTRING	1	\$PRFXFLG	PREFIX FLAG
		..1.		\$SCOPSYS	"B'00100000'" SCOPE=SYSTEM - DEFAULT
		...1		\$SCOPSPL	"B'00010000'" SCOPE=SYSPLEX
1296	(510)	SIGNED	4	(0)	ALIGN FOR CL INSTRUCTIONS
1296	(510)	CHARACTER	8	\$STDFORM	STANDARD FORMS ID
1304	(518)	CHARACTER	4	\$PRTFCB	STANDARD FCB IMAGE ID
1308	(51C)	CHARACTER	4	\$PRTUCS	STANDARD UCS IMAGE ID
1312	(520)	CHARACTER	4	\$NIPFCB	3800 INSTALLATION FCB DEFAULT

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1316	(524)	CHARACTER	4	\$NIPUCS	3800 INSTALLATION UCS DEFAULT
1320	(528)	CHARACTER	4	\$NIPFLSH	3800 INSTALLATION FLASH FRAME DFT
1324	(52C)	ADDRESS	2	\$RMTNUM	Highest Allowed Remote
1326	(52E)	ADDRESS	2		Reserved for future use
1328	(530)	ADDRESS	2	\$MLBFSIZ	HASP MULTI-LEAVING BUFFER SIZE
1330	(532)	ADDRESS	2	\$BFSZBSC	HASP BSC RJE Buffer Size
1332	(534)	ADDRESS	2	\$BFSZSNA	HASP SNA RJE BUFFER SIZE
1334	(536)	ADDRESS	2	\$BFSZPP	HASP Print/Punch buf size
1336	(538)	SIGNED	2		Reserved for future use
1338	(53A)	ADDRESS	1	\$STIMASK	SPOOL OFFLOAD I/O MGR SCAN MASK
	1...			\$STIMBUF	"B'10000000'" \$STIMASK BIT FOR BUFFER SCAN
	.1..			\$STIMTIM	"B'01000000'" \$STIMASK BIT FOR TIMER SCAN
	..1.			\$STIMDCT	"B'00100000'" \$STIMASK BIT FOR DCT SCAN
	...1			\$STIMSBT	"B'00010000'" \$STIMASK BIT FOR SUB-TASK SCAN
1339	(53B)	ADDRESS	1	\$SPOLMSG	MAX SPOOL BUFFERS FOR MSGS/RMT
1340	(53C)	ADDRESS	1	\$BSPGCT	PAGES BETWEEN BSP TABLE ENTRIES
1341	(53D)	ADDRESS	1	\$BSPNTE	BSP TABLE ENTRIES
1342	(53E)	ADDRESS	2	\$BSPSIZ	BSP TABLE SIZE
1344	(540)	ADDRESS	1	\$JCOPYLM	OUTPUT JOB COPY LIMIT
1345	(541)	CHARACTER	1	\$CCOMCH	TEMP FOR \$T PREFIX CHAR
1346	(542)	ADDRESS	2	\$HTDIST	2770/2780 HORIZONTAL TAB SPACING
1348	(544)	ADDRESS	2	\$NUMACE	NUMBER OF AUTOMATIC CMD ELEMENTS
1350	(546)	ADDRESS	2	\$MAXPART	MAXIMUM ACTIVE BATCH INITIATORS
1352	(548)	ADDRESS	1	\$SPOFERR	SPOOL OFFLOAD ERROR THRESHOLD
1353	(549)	CHARACTER	1	\$RDRAREA	CMD REDIRECT AREA DEFAULT
1354	(54A)	BITSTRING	2		Reserved
1356	(54C)	ADDRESS	4	\$TRTIME	TRACE TABLE TRUNCATION TIME
1360	(550)	ADDRESS	2	\$LIRCT	CKPT LOST INTERRUPT RETRY CT
1362	(552)	BITSTRING	2		Reserved
1364	(554)	ADDRESS	2	\$RETRYCT	CKPT I/O ERROR RETRY CTR
1366	(556)	ADDRESS	2	\$SCANPDL	LENGTH USED FOR \$SCAN PARAMETER DISPLAYS (INIT, COMMANDS)
1368	(558)	SIGNED	4	\$SCANMDL	MAXIMUM DISPLAY LINES FOR \$SCAN CALLS FOR INIT AND CMDS FROM NJE, RJE, OR MCS WITHOUT L=CCA
1372	(55C)	ADDRESS	4	\$CTBADA(16)	BAD value
1436	(59C)	ADDRESS	4	\$ROLLSAV	\$ROLL save area (PSV64 map)
1440	(5A0)	SIGNED	8	\$ERRBEAR	BEAR at time of \$ERROR
1448	(5A8)	ADDRESS	8	\$ESQPTR	Ptr to ESQ origin
1456	(5B0)	ADDRESS	8	\$LIMPTR	Ptr to LIMITS origin
GENERAL WORK AREA FOR USE BY MAIN TASK					
1464	(5B8)	DBL WORD	8	(0)	ALIGN \$SCANXWA

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1464	(5B8)	CHARACTER	12	\$SCANXWA	WORK AREA FOR HASPSXIT, PASSING DATA BETWEEN PRE/POST EXITS, STABS
1464	(5B8)	CHARACTER	18		ASSURE SUFFICIENT \$DEST LENGTH
Remap \$SCANXWA for use in HASP581 message					
1464	(5B8)	CHARACTER	8	\$M581DVN	Logical device name
1472	(5C0)	SIGNED	4	\$M581RC	DYNALLOc return code
1476	(5C4)	BITSTRING	2	\$M581ERR	DYNALLOc error code
1478	(5C6)	BITSTRING	2	\$M581INF	DYNALLOc info code
1480	(5C8)	BITSTRING	1	\$M581FLG	Flags for HASP581 msg
		1...		\$M581FGF	"B'10000000'" - \$GETWORK failed for DAIRFAIL parm list
		.1..		\$M581FL1	"B'01000000'" - DAIRFAIL formatted text (level 1) to display
		..1.		\$M581FL2	"B'00100000'" - DAIRFAIL formatted text (level 2) to display
		...1		\$M581FNT	"B'00010000'" - No formatted text (needed to ensure a non-zero DISPER= byte)
Remap \$SCANXWA for us by \$D/\$T PCE command					
1464	(5B8)	SIGNED	2	\$DPCEDEF	Number of PCEs defined
1466	(5BA)	SIGNED	2	\$DPCEALC	Number of PCEs allocated
1468	(5BC)	SIGNED	2	\$DPCEEND	Number of PCEs ENDED
1472	(5C0)	SIGNED	4	\$DPCEACT	\$ACTIVE count for PCEs
1476	(5C4)	BITSTRING	1	\$DPCEFLG	Flag byte
		1...		\$DPCETON	"B'10000000'" Trace on flag
		.1..		\$DPCETOF	"B'01000000'" Trace off flag
		..1.		\$DPCECMD	"B'00100000'" Trace modified
1476	(5C4)	X'C0'	0	\$DPCEMTX	"\$DPCETON+\$DPCETOF" Trace mixed
1476	(5C4)	X'A0'	0	\$DPCEMSO	"\$DPCETON+\$DPCECMD" Trace set on
1476	(5C4)	X'60'	0	\$DPCEMSF	"\$DPCETOF+\$DPCECMD" Trace set OFF
		...1		\$DPCEMSY	"B'00010000'" Dispatchable flag on
		.... 1...		\$DPCEMSN	"B'00001000'" Dispatchable flag off
		.... .1..		\$DPCEMSM	"B'00000100'" Dispatchable modified
1476	(5C4)	X'18'	0	\$DPCEMSX	"\$DPCEMSY+\$DPCEMSN" Dispatchable mixed
1476	(5C4)	X'14'	0	\$DPCEMSO	"\$DPCEMSY+\$DPCEMSM" Dispatchable set on
1476	(5C4)	X'C'	0	\$DPCEMSF	"\$DPCEMSN+\$DPCEMSM" Dispatchable set off
1476	(5C4)	X'D'	0	\$DPCELEN	"*- \$DPCEDEF" Length of work area
Remap \$SCANXWA for use in \$D/T SPOOLDEF command					
1464	(5B8)	CHARACTER	5	\$SPLDFV0	VOLUME prefix
1469	(5BD)	BITSTRING	1	\$SPLDFFG	SPOOLDEF flag byte
		1...		\$SPLDFAV	"B'10000000'" Compression is available
1482	(5CA)	X'12'	0	\$SCANXWL	"*-\$SCANXWA" Length of \$SCANXWA

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
\$SCANXWA/\$GENWORK guard bytes					
1484	(5CC)	SIGNED	4	(0)	Align guard byte
1484	(5CC)	BITSTRING	4	\$SCNGRD	Guard bytes for \$SCANXWA
1488	(5D0)	DBL WORD	8	\$GENWORK(0)	GENERAL WORK AREA FOR MAIN TASK
THIS AREA IS USED BY HASPSCAN AND HASPSXIT AS A WORK AREA					
1488	(5D0)	BITSTRING	24	\$SCNDL24	WORK AREA FOR \$SCAN SERVICE
1488	(5D0)	X'5D0'	0	\$SCNDWKA	"\$GENWORK+00,08,C'D'" WORK AREA FOR \$SCAN SERVICE
1488	(5D0)	X'5D8'	0	\$SCNDWKB	"\$GENWORK+08,08,C'D'" WORK AREA FOR \$SCAN SERVICE
1488	(5D0)	X'5E0'	0	\$SCNDWKC	"\$GENWORK+16,08,C'X'" WORK AREA FOR \$SCAN SERVICE
1488	(5D0)	X'5D0'	0	\$SCNDL16	"\$GENWORK+00,16,C'X'" WORK AREA FOR \$SCAN SERVICE
1512	(5E8)	SIGNED	4	\$SCNLLIM	\$SCAN lower limit work area
THIS WORK AREA IS USED BY THE SRVPRSCN ROUTINE IN HASPSERV TO PROCESS A \$TDEVN COMMAND OR A PRINT/PUNCH INITIALIZATION STATEMENT					
1488	(5D0)	BITSTRING	8	\$PRMDSAV	SAVE AREA FOR PRMODE OPERAND
1496	(5D8)	BITSTRING	8	\$PRMDINX	PRMODE INDEX LIST FROM DCT
1504	(5E0)	BITSTRING	1	\$PRMDFLG	PRMODE FLAG BYTE
		1... ..		\$PRMDEND	"B'10000000'" END OF OPERAND FOUND
1504	(5E0)	X'11'	0	\$PRMDWKL	"*-\$GENWORK" LENGTH OF PRMODE SCAN WORK AREA
THIS WORK AREA IS USED BY THE \$DTEDYN SERVICE ROUTINE FOR THE MVS ATTACH MACRO PARAMETER LIST					
MACDATE 06/29/23					
1488	(5D0)	SIGNED	4	\$DTELSTF(0)	
1488	(5D0)	ADDRESS	4		DE OR EPLOC ADDRESS
1492	(5D4)	ADDRESS	4		DCB ADDRESS
1496	(5D8)	ADDRESS	4		NEW FORMAT + ECB ADDR
1500	(5DC)	ADDRESS	4		GSPL OR GSPV
1504	(5E0)	ADDRESS	4		SHSPV OR SHSPL
1508	(5E4)	ADDRESS	4		EXIT ROUTINE ADDRESS
1512	(5E8)	ADDRESS	2		DPMOD VALUE
1514	(5EA)	ADDRESS	1		LPMOD VALUE
1515	(5EB)	ADDRESS	1		STATUS BYTE
1516	(5EC)	ADDRESS	4	(2)	EP NAME SPACE
1524	(5F4)	ADDRESS	4		ADDRESS OF JSCB
1528	(5F8)	ADDRESS	4		(E)STAI PARM LIST
1532	(5FC)	ADDRESS	4		EXIT ADDRESS
1536	(600)	ADDRESS	4		TASKLIB
1540	(604)	ADDRESS	1		FLAG BYTE

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1541	(605)	ADDRESS	1		TASK ID
1542	(606)	ADDRESS	2		PARM LIST LENGTH
1544	(608)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
1548	(60C)	ADDRESS	1		SET FLAGS
1549	(60D)	ADDRESS	1		SET UP FORMAT NUMBER
1550	(60E)	BITSTRING	10		RESERVED BYTES FOR FUTURE
1550	(60E)	X'5D0'	0	\$DTELST	"\$DTELSTF,*-\$DTELSTF" EQUATE FOR BASE AND LENGTH
THIS WORK AREA IS USED BY THE \$DTEDYN SERVICE ROUTINE FOR THE MVS TCBTOKENmacro parameter list					
MACDATE = 04/03/89					
1488	(5D0)	SIGNED	4	\$DTELST2(0)	
1488	(5D0)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
1488	(5D0)	BITSTRING	8		
1496	(5D8)	SIGNED	4		
1500	(5DC)	ADDRESS	4		
1504	(5E0)	ADDRESS	4		ASCB ADDRESS (INPUT)
1508	(5E4)	SIGNED	4	(0)	FLAGS (INPUT)
1508	(5E4)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
1509	(5E5)	SIGNED	3		RESERVED
1509	(5E5)	X'5D0'	0	\$DTELIS2	"\$DTELST2,*-\$DTELST2" EQUATE FOR BASE AND LENGTH
This work area is used by the \$SCAN facility to build certain variations of the \$HASPO03 message					
1488	(5D0)	SIGNED	4	\$SCANWKA(0)	
1488	(5D0)	BITSTRING	40		List of diagnostic levels
1528	(5F8)	CHARACTER	100		Work area
This work area is used by anyone that might have to reference the entire system affinity mask					
1488	(5D0)	BITSTRING	4	\$GENSYS	Sys affinity work area
1492	(5D4)	BITSTRING	4	\$GENWTHT	Total member mask for WITH= processing
1496	(5D8)	BITSTRING	4	\$GENWTHW	Work member mask for WITH= processing
1500	(5DC)	CHARACTER	8	\$GENWTJN	Last reference job name
1628	(65C)	X'8C'	0	\$GENWRKL	"*-\$GENWORK"
\$SCANXWA/\$GENWORK guard bytes					
1628	(65C)	BITSTRING	4	\$GENGRD	Guard bytes for \$GENWORK
PROCESSOR DEPENDENT FLAG BYTES					
1632	(660)	BITSTRING	3	\$PROCESS(0)	General process flg
1632	(660)	X'3'	0	\$PROCDFT	"\$RASSIGN+\$ECKTRMJ" Flags on by default
		1... ..		\$PRONEWS	"B'10000000'" JNEW CB being updated

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		\$SPINJQE	"B'01000000'" JQE added to \$SPIN queue
		..1.		\$PRSCNWB	"B'00100000'" Bypass \$SCAN FILTER=WB optimization
		...1		\$PRODISP	"B'00010000'" Processors have been ended (disposed)
		.... 1...		\$ARMVR	"B'00001000'" Verification of ARM registrations required
		.... ..1.		\$RASSIGN	"B'00000010'" Assign original job number, even if outside JOBDEF RANGE
		.... .1..		\$INTRDCB	"B'00000100'" Use DCB attributes associated with INTRDR for SYSIN data sets. See comment for RID1UDCB in \$DCT.
		.... ...1		\$ECKTRMJ	"B'00000001'" Remote Member Jettison flag - \$ECKPTLOCK done whenever a member fails
1633	(661)	BITSTRING	1	\$MCONFG1	REMOTE CONSOLE PROCESSOR FLAG
		1...		\$MCONACT	"X'80'" Remote console has output activity
		.1..		\$MCONWAT	"X'40'" Remote console waiting for jobqueue
		..1.		\$MCONNPM	"X'20'" Network path manager busy
		...1		\$MCONWPM	"X'10'" Console waiting on path manager
1634	(662)	BITSTRING	1	\$COMMFG1	COMMAND PROCESSOR FLAG
		1...		\$COMMDWN	"X'80'" XEQ/CKPT/SPIN Shutdown complete
		.1..		\$COMMWAT	"X'40'" HASPCOMM waiting for checkpoint
		..1.		\$COMMABT	"X'20'" Command being aborted
1635	(663)	BITSTRING	1	\$EXECFG1	EXECUTION PROCESSOR FLAG
		1...		\$EXECDWN	"X'80'" XEQ shutdown complete
		.1..		\$EXECSPN	"X'40'" XEQ is ready for SPIN to do its final processing
		..1.		\$EXECEDS	"X'20'" XEQ is ready for EDS to do its final processing
1636	(664)	BITSTRING	1	\$CKPTFG1(0)	Ckpt Processor flag
1636	(664)	X'39'	0	\$CK1DFLT	"\$CKPTDPY+\$CKPTLDP+\$CKPTTMD+\$CKPTDPS" CKPTDEF DEFAULT: MODE=DUPLEX,DUPLEX=ON
		1...		\$CKPTDWN	"B'10000000'" XEQ,CKPT SHUTDOWN COMPLETE
		.1..		\$CKPTMSG	"B'01000000'" Do not issue HASP479 msg
		..1.		\$CKPTTMD	"B'00100000'" TELLS SCAN WE'RE IN DPLX MD
		...1		\$CKPTDPS	"B'00010000'" INDICATES SET TO DUPLEX ON
		.... 1...		\$CKPTDPY	"B'00001000'" INDICATES IN DUPLEX MODE
		.... .1..		\$CKPTTEK	"B'00000100'" \$T'D NEWCKPTN FIELD
		.... ..1.		\$CKPTPRI	"B'00000010'" INDICATES PRIO AGING USED
		.... ...1		\$CKPTLDP	"B'00000001'" INDICATES DUPLEXING LOCALLY

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1637	(665)	BITSTRING	1	\$CKPTFG2	Checkpoint processor flag
		1...		\$CK2DIAG	"B'10000000" We're in the dialog
		.1..		\$CK2INIT	"B'01000000" Initialization operation
		..1.		\$CK2EXTN	"B'00100000" CKPT EXTEND pending
		...1		\$CK2CKPW	"B'00010000" CKPT write requested
1638	(666)	BITSTRING	1	\$CKPTFG3	CHECKPOINT PROCESSOR FLAG
		1...		\$CK3KRD1	"B'10000000" KREAD1 processing active
		.1..		\$CK3BYLK	"B'01000000" CKPT lock msg bypassed
		..1.		\$CK3CHLG	"B'00100000" BUILDING CH LOG PACKETS
		...1		\$CK34KPG	"B'00010000" BUILDING 4K PAGE PACKETS
		.... ...1		\$CK3ACTV	"B'00000001" CKPT PCE is active (has been dispatched)
1639	(667)	BITSTRING	1	\$CKPTFG4	CHECKPOINT PROCESSOR FLAG
		..1.		\$CK4OPVY	"B'00100000" Request to change OPVERIFY to YES
		...1		\$CK4OPVN	"B'00010000" Request to change OPVERIFY to NO
		.... 1...		\$CK4OPRQ	"B'00001000" Work bit for \$SCAN to set operator request
		.... .1..		\$CK4HRSV	"B'00000100" Hardware reserve or CF lock
		.... ..1.		\$CK4CKPC	"B'00000010" KFORMAT needed because CKPT size was changed via operator command or init has deferred format to end of warmstart
		.... ...1		\$CK4CKAB	"B'00000001" CKPT subtask ABENDED and cannot find CKG to post
1640	(668)	BITSTRING	1	\$TRCFG1	TRACE LOG PROCESSOR FLAG
		1...		\$TRCSYSX	"B'10000000" Tell EVTL to shut down
		.... ...1		\$TRCDWN	"B'00000001" Tell XEQ of trace log shutdown
<p>\$CKPTLOC is used in combination with \$CKPTUPD to determine if the CKPT data set size (the size of a CTENT) has changed. Every time the size is altered \$CKPTUPD is incremented. If \$CKPTLOC is not the same as \$CKPTUPD, then an update has occurred and the CKPT control blocks need to be updated.</p>					
1641	(669)	BITSTRING	1	\$CKPTLOC	Local copy of \$CKPTUPD
1642	(66A)	BITSTRING	1	\$CKPTFG5	Checkpoint flag
		1...		\$CK5QSUS	"B'10000000" PCE obtained the queues
		.1..		\$CK5ACT	"B'01000000" \$ACTIVATE has occurred
		..1.		\$CK5QMOD	"B'00100000" JQE changed queues
1643	(66B)	SIGNED	1	\$BERTHRS	Minimum BERTs required for \$QADD to be processed
MISCELLANEOUS HASP CONTROL FIELDS					
1644	(66C)	SIGNED	4	\$WRKAREA(0)	General work areas
1644	(66C)	ADDRESS	4	\$MSAVE(5)	RTAM NON-REENTRANT REG SAVE AREA
1664	(680)	BITSTRING	8		Reserved

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1672	(688)	DBL WORD	8	\$POSTSAV(6)	Save area for \$POST et al
Work area used very early during JES2 initialization. These fields are not used once HASPIRA (HASPINIT) gets control.					
1672	(688)	X'670'	0	\$STARTTM	"\$MSAVE+4,16" STCKE time at label HASP
1672	(688)	X'6E8'	0	\$STARTCP	"\$SPMSKWA,8" CPU time at label HASP
1720	(6B8)	DBL WORD	8	\$DOUBLE	JES2 MAIN-TASK SCRATCH WORK AREA
1720	(6B8)	X'6B8'	0	\$SINGLE	"\$DOUBLE,4,C'X'" JES2 MAIN-TASK 4 byte area
1728	(6C0)	DBL WORD	8	\$DWORK	JES2 MAIN-TASK SCRATCH WORK AREA
1736	(6C8)	DBL WORD	8	\$DWORK2	JES2 MAIN-TASK SCRATCH WRK AREA
1736	(6C8)	X'6B8'	0	\$WORK16	"\$DOUBLE,16,C'X'" JES2 MAIN-TASK 16 BYTE AREA
1736	(6C8)	X'6B8'	0	\$WORK24	"\$DOUBLE,24,C'X'" JES2 MAIN-TASK 24 BYTE AREA
1744	(6D0)		1	\$STKEWRK(0)	STCKE work area
1744	(6D0)	X'74'	0	\$WRKAREL	"*- \$WRKAREA" General work area length
1760	(6E0)	BITSTRING	4		Reserved for future use
1764	(6E4)	ADDRESS	4	\$CATCACH	CAT cache pointer for this member.
1768	(6E8)	SIGNED	4	(0)	Ensure fullword alignment
1768	(6E8)	BITSTRING	32	\$SPMSKWA	SPOOL MASK WORK AREA
1800	(708)	CHARACTER	32	\$BLANKS	32 blank characters
1832	(728)	DBL WORD	8	(0)	Ensure doubleword alignment
1832	(728)	BITSTRING	64	\$ZEROS	16 words of zeros
1832	(728)	X'728'	0	\$ZEROES	"\$ZEROS" ALTERNATE NAME FOR \$ZEROS
1832	(728)	X'728'	0	\$ZERO	"\$ZEROS" Another name for \$ZEROS
1896	(768)	BITSTRING	4	\$ZEROFFF	QUEUE ELEMENT CHAIN MASK
1896	(768)	X'768'	0	\$OFFF	"\$ZEROFFF" ALTERNATE NAME FOR \$ZEROFFF
1900	(76C)	BITSTRING	4	\$000F	INDEX ELEMENT MASK
1904	(770)	BITSTRING	4	\$ALLFFS	FULLWORD OF X'FF'S
1904	(770)	X'770'	0	\$MINUS1	"\$ALLFFS" ALTERNATE NAME FOR \$ALLFFS
1908	(774)	BITSTRING	4	\$MINUS2	CONSTANT -2
		1...		\$WSUSER	"X'80'" WS USER CRITERION INDICATION
1912	(778)	BITSTRING	4	\$WSBITOF	USED TO TURN USER ID BIT OFF
1916	(77C)	BITSTRING	8	\$MAXDBLE	MAX POSITIVE NUMBER IN DOUBLEWORD
1916	(77C)	X'77C'	0	\$MAXFULL	"\$MAXDBLE,4" MAX POSITIVE NUMBER IN FULLWORD
1916	(77C)	X'77C'	0	\$MAXHALF	"\$MAXDBLE,2" MAX POSITIVE NUMBER IN HALFWORD
1916	(77C)	X'77C'	0	\$7FFF	"\$MAXDBLE,2" HIGH BIT OFF MASK
1916	(77C)	X'77C'	0	\$HIBITOF	"\$MAXDBLE,4" FULL WORD HI-ORDER BIT MASK
1924	(784)	SIGNED	8	\$D1(0)	Double word constant 1
1924	(784)	SIGNED	4	\$F0	FULLWORD CONSTANT 0
1924	(784)	X'786'	0	\$H0	"\$F0+2,2,C'H'" HALFWORD CONSTANT 0
1928	(788)	SIGNED	4	\$F1	FULLWORD CONSTANT 1

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1928	(788)	X'78A'	0	\$H1	"\$F1+2,2,C'H'" HALFWORD CONSTANT 1
1932	(78C)	SIGNED	4	\$F2	FULLWORD CONSTANT 2
1932	(78C)	X'78E'	0	\$H2	"\$F2+2,2,C'H'" HALFWORD CONSTANT 2
1936	(790)	SIGNED	4	\$F3	FULLWORD CONSTANT 3
1936	(790)	X'78F'	0	\$H3	"\$F2+3,3,C'H'" HALFWORD CONSTANT 3
1940	(794)	SIGNED	4	\$F4	FULLWORD CONSTANT 4
1940	(794)	X'796'	0	\$H4	"\$F4+2,2,C'H'" HALFWORD CONSTANT 4
1944	(798)	SIGNED	4	\$F5	FULLWORD CONSTANT 5
1944	(798)	X'79A'	0	\$H5	"\$F5+2,2,C'H'" HALFWORD CONSTANT 5
1948	(79C)	SIGNED	4	\$F6	FULLWORD CONSTANT 6
1948	(79C)	X'79E'	0	\$H6	"\$F6+2,2,C'H'" HALFWORD CONSTANT 6
1952	(7A0)	SIGNED	4	\$F7	FULLWORD CONSTANT 7
1952	(7A0)	X'7A2'	0	\$H7	"\$F7+2,2,C'H'" HALFWORD CONSTANT 7
1956	(7A4)	SIGNED	4	\$F8	FULLWORD CONSTANT 8
1956	(7A4)	X'7A6'	0	\$H8	"\$F8+2,2,C'H'" HALFWORD CONSTANT 8
1960	(7A8)	SIGNED	4	\$F15	FULLWORD CONSTANT 15
1964	(7AC)	SIGNED	4	\$F255	FULLWORD CONSTANT 255
1964	(7AC)	X'7AE'	0	\$H255	"\$F255+2,2,C'H'" HALFWORD CONSTANT 255
1968	(7B0)	SIGNED	4	\$F4096	FULLWORD CONSTANT 4096
1968	(7B0)	X'7B2'	0	\$H4096	"\$F4096+2,2,C'H'" HALFWORD CONSTANT 4096
1972	(7B4)	SIGNED	4	\$F65535	FULLWORD CONSTANT 65535
1976	(7B8)	SIGNED	4	\$HIBITON(0)	FULL WORD HI-ORDER BIT MASK
1976	(7B8)	X'6CC'	0	\$HEXTRAN	"*-C'0'" HEXADECIMAL-TO-EBCDIC
1980	(7BC)	CHARACTER	16		TRANSLATE TABLE
1996	(7CC)	BITSTRING	11		Reserved
SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.					
2007	(7D7)	ADDRESS	1	\$JSPLL	Length of JESSPOOL class
2008	(7D8)	CHARACTER	8	\$JSPLV	JESSPOOL class
2008	(7D8)	X'7D7'	0	\$JSPL	"\$JSPLL,*-\$JSPLL,C'X'" JESSPOOL SAF class
2016	(7E0)	DBL WORD	8	\$CLOCK	LAST INTERVAL TIMER CLOCK VALUE
2024	(7E8)	BITSTRING	16	\$MVSWAIT	STCKE Time of MVS WAIT
2040	(7F8)	BITSTRING	16	\$MVSDISP	STCKE Time when JES2 is dispatched from MVS WAIT
2056	(808)	ADDRESS	4	\$REGSAVC(18)	NON-REENTRANT REG. SAVE AREA
2056	(808)	X'810'	0	\$REGSAVE	"\$REGSAVC+2*4,4" NON-REENTRANT REG SAVE AREA (16 WORDS-NOTE OVERLAY DEFINITION)
2128	(850)	ADDRESS	1	\$PSWSAVE	NON-REENTRANT PSW CC SAVE BYTE
2129	(851)	ADDRESS	1	\$PSWMODE	Non-reentrant PSW ASC save byte (copied from PSVMODE)
2130	(852)	ADDRESS	1	\$PSWAMOD	Non-reentrant PSW AMODE save byte (copied from PSVAMODE)
2140	(85C)	BITSTRING	8		Reserved

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The \$XCFFLG1 and \$XCFFLG2 flags indicate the states of the automatic restart function. \$XCFFLG1 can only be modified in the main task. \$XCFFLG1 is manipulated by SCAN which can return the field to a previous state. This is done via the method SCAN uses to backup the storage that it is modifying (see \$SCANB macro). \$XCFFLG2 is modified when JESXCF has failed. The \$XCF1STR flag indicates a request to start the automatic restart function (AUTOESYS=ON by the operator). The \$XCF1STP flag indicates a request to stop the automatic restart function (AUTOESYS=OFF by the operator). The \$XCF1NXC in the off state indicates that the automatic restart function is active (ON). The \$XCF1NXC in the on state indicates that the automatic restart function is inactive (OFF). The \$XCF1ERR flag on indicates that the main task XCF function or the group exit has had an error. With the \$XCF1ERR flag set, the display for MASDEF will show AUTOESYS=FAILED. The \$XCF2ERR flag on indicates that the group exit has had an error. The \$XCF1NRS indicates that RESTART=NO was selected on the MASDEF statement. The \$XCF1NRS flag off will indicate that RESTART=YES was chosen.</p>					
2148	(864)	ADDRESS	1	\$XCFFLG1	XCF status flags
		1... ..		\$XCF1NAR	"B'10000000" Request no auto restart
		.1.. ..		\$XCF1NRS	"B'01000000" No XCF restart from this member
		..1.		\$XCF1ERR	"B'00100000" XCF environment failed
		...1		\$XCF1STR	"B'00010000" Request to set AUTOESYS on
		.... 1...		\$XCF1STP	"B'00001000" Request to set AUTOESYS off
		.... .1..		\$XCF1SGO	"B'00000100" An MVS has left the Sysplex
		.... ..1.		\$XCF1MUD	"B'00000010" A member has changed state
2149	(865)	ADDRESS	1	\$XCFFLG2	JESXCF status flag
		1... ..		\$XCF2ERR	"B'10000000" JESXCF environment failed
2152	(868)	ADDRESS	4	\$XCFIXVT	JESXCF Group token this is a copy of the \$HCCT field CCTIXVT
2156	(86C)	SIGNED	4	\$TOTCKRN	Total number of 4K records in the checkpoint (this includes the checkpoint records, master record and change log)
2160	(870)	ADDRESS	4	\$DISPSVA	"V(\$DISPSAV)" Dispatcher PCE save area
2164	(874)	SIGNED	4	\$CKPTOAC	TOKEN CURRENT CKPT I/O
2168	(878)	SIGNED	4	\$CKPTONX	TOKEN NEXT SCHED CKPT I/O
2176	(880)	DBL WORD	8	\$SIDTIME	TOD OF LAST CKPT FOR THIS SYSTEM
2184	(888)	CHARACTER	4	\$SID	Member name (SMF) for this member
2188	(88C)	ADDRESS	4	\$OWNNIT	ADDR OF THIS SYSTEM'S NIT ENTRY
2192	(890)	CHARACTER	8	\$SNV(0)	JES NAME AND VERSION
2192	(890)	CHARACTER	4	\$SSNM	NAME OF SUBSYSTEM
2196	(894)	CHARACTER	4	\$SSVS	VERSION, RELEASE, MOD
2200	(898)	ADDRESS	3	\$SYSID(0)	SYSTEM IDENTIFICATION
2200	(898)	ADDRESS	2	\$OWNNODE	NUMBER OF THIS NODE
2202	(89A)	ADDRESS	1	\$SIDBUSY	System ID of this member

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2203	(89B)	ADDRESS	1		Reserved for future use
2204	(89C)	SIGNED	2	\$SIDINDX	System ID index (4 * (\$SIDBUSY-1))
2206	(89E)	ADDRESS	1	\$SUBTASK	HASP SUBTASK SYSTEM STATUS
2207	(89F)	BITSTRING	1	\$STATUS(0)	System status
2208	(8A0)	BITSTRING	4		Reserved for future use
2212	(8A4)	ADDRESS	4	\$CYLMAPL	Direct access allocation map len (\$NUMTG/8)
2216	(8A8)	BITSTRING	2		Reserved for future use
2218	(8AA)	SIGNED	2	\$TGAENUM	NUMBER OF TGAE'S IN PRIMARY ALLOC IOT (MIN 50) - reset to smallest number which will fit given IOTs may have small or larger PDDBs
2220	(8AC)	ADDRESS	4	\$AFFLEN	Number of bytes needed to hold system affinity bits
2220	(8AC)	X'8AE'	0	\$AFFLENH	"\$AFFLEN+2,2" Halfword of SYSAFF bytes
2220	(8AC)	X'4'	0	\$CTLBLEN	"L'\$CKLEVMN" Size of the control byte entries CTLB's and CLCB's
2224	(8B0)	BITSTRING	1	\$STATUS1(0)	More HASP status flags
<p>If a \$PJES2,ABEND is issued and a coupling facility checkpoint write is still active, COMM will issue the HASP552 message and wait for a post from CKPT to indicate the write is done. This bit will be set by COMM when CKPT is NOT to wait for XEQ processing to finish before posting COMM that checkpoint processing is complete.</p>					
		1...		\$SDWNFST	"B'10000000" Shut down fast. CKPT don't wait for XEQ
		.1..		\$JINITIP	"B'01000000" JES2 initialization is in progress
		..1.		\$ST1PJTM	"B'00100000" \$PJES2,TERM issued
		...1		\$WRMDONE	"B'00010000" Warm start completed
		.... 1...		\$STOPXEQ	"B'00001000" \$P XEQ issued
		.... .1..		\$CATMAX	"B'00000100" CAT max JOBS has been newly reached or has been \$T'ed
		.... ..1.		\$WLMDIFF	"B'00000010" This member at WLM Service definition different from JESplex level
		.... ...1		\$WLMRGOK	"B'00000001" Force registration of all queues successful
2225	(8B1)	BITSTRING	1	\$STATUS2(0)	More status
		1...		\$BRTCLN	"B'10000000" PREBERTs owned by ABENDED PCEs exist
		.1..		\$XEQINT	"B'01000000" Call \$CATJCNT to initialize CATCURJ (xeq) class cnt
		..1.		\$PDYNDET	"B'00100000" At least one ENDED PCE has been dynamically detached
		...1		\$AUTONJE	"B'00010000" Automatic connect of NJE devices is allowed (NJEDEF CONNECT=YES)
		.... 1...		\$AUTORST	"B'00001000" Automatic restart of NJE devices is allowed
		.... .1..		\$MODREFR	"B'00000100" Refresh of JES2 load modules allowed
		.... ..1.		\$BERTNNM	"B'00000010" BERT shortage inhibits normal processing

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		\$STRTDSI	"B'00000001'" JES2 started without the NODSI PPT/SCHEDxx option
2226	(8B2)	SIGNED	2	\$CTLBLNH(0)	Size of cntl bytes
2228	(8B4)	BITSTRING	1	\$JOABTYP	JOA BERT type
2229	(8B5)	BITSTRING	3	\$AFFINTY	Our system affinity token
2232	(8B8)	BITSTRING	4	\$XCFXEQP	Members \$POSTed via XCF for new jobs to execute
2236	(8BC)	ADDRESS	4	\$MAXREST	Max resistance of a path
2240	(8C0)	ADDRESS	2	\$NODREST	RESISTANCE OF THIS NODE
2242	(8C2)	ADDRESS	2	\$NODETOL	PATH RESISTANCE TOLERANCE
2244	(8C4)	ADDRESS	2	\$NITESIZ	SIZE OF NIT ELEMENT
2246	(8C6)	BITSTRING	1	\$MASPOST	CROSS-SYSTEM POST FLAG BYTES
2247	(8C7)	BITSTRING	1	\$PCEPOST	\$\$POST FLAG BYTE
		1...		\$PCEASYN	"B'10000000'" ASYNCH POST FLAG BIT
		.1..		\$PCEPRIX	"B'01000000'" Priority PCE's XECB post
2248	(8C8)	ADDRESS	2	\$BUFLENG	HASP IN-CORE BUFFER SIZE
2250	(8CA)	BITSTRING	1	\$STATUS3(0)	Status flags 3
		1...		\$INCHECK	"B'10000000'" Init deck checking active
		.1..		\$INCCKKD	"B'01000000'" Unable to get CKPT data
		..1.		\$PCYSYNC	"B'00100000'" Policy SYNC request complete
		...1		\$STOPCNV	"B'00010000'" \$P CNVT issued
		.... 1...		\$STCNMSG	"B'00001000'" \$P CNVT 2223 msg issued
		.... .1..		\$PCYSYNE	"B'00000100'" Policy SYNC request error
		.... ..1.		\$JQRBRSW	"B'00000010'" JQRBs suspended for resource group event
2251	(8CB)	ADDRESS	1		Reserved
2252	(8CC)	ADDRESS	4	\$ACTIVE	COUNT OF ACTIVE FUNCTIONS
2256	(8D0)	ADDRESS	4	\$ACTVFSS	COUNT OF ACTIVE FSS'S
2260	(8D4)	BITSTRING	8	\$SJFJDVT	DEFAULT JDVT NAME
2268	(8DC)	BITSTRING	8	\$MSKNODE	MASK NODE NUMBER (MDCTNODE)
2276	(8E4)	ADDRESS	4	\$ERRTRCA	"V(HASPTRCA)" TERM/RECOVERY CONTROL AREA
2280	(8E8)	SIGNED	4	\$HETOKEN	HASP MAIN TASK ESTAE TOKEN
2284	(8EC)	SIGNED	2	\$CHLOGSZ	Change log size this member
2286	(8EE)	SIGNED	2	\$REVCNT	NUMBER OF PCES IN RECOVERY
2288	(8F0)	ADDRESS	4	\$ERRERPL	ADDR OF ERPL IF \$ERROR, ELSE 0
2292	(8F4)	ADDRESS	4	\$ERRAFF	ADDR of affinity field or token for dump
2296	(8F8)	SIGNED	8	\$ERRREGS(3)	REGS 15, 0, 1 BEFORE \$ERROR
2296	(8F8)	X'900'	0	\$ERRREG0	"\$ERRREGS+8,8" REG 0 SLOT IN \$ERRREGS
2320	(910)	SIGNED	4	\$ERRCODE	CATASTROPHIC ERROR REASON CODE
2324	(914)	ADDRESS	4	\$ERRJQE	Related JQE addr (\$ERROR)
2328	(918)	ADDRESS	4	\$ERREOPT	RECVOPTS name addr (\$ERROR)
2332	(91C)	ADDRESS	2	\$EXCPCT	ACTIVE HASP I/O COUNT
2334	(91E)	ADDRESS	1	\$XWTRFLG	EXTERNAL WRITERS FLAG

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$XWTRACT	"B'10000000'" POST XWTR ACTIVE
2335	(91F)	ADDRESS	1	\$MAXCMCT	MAXIMUM CONSOLE MESSAGE COUNT
2336	(920)	ADDRESS	4	\$FSSETIM	TIME INTERVAL FOR ERROR ASSUMED FOR FSS/FSA/ORDERS (5 MINUTES)
2340	(924)	ADDRESS	4	\$RBFADDR	ADDR FOR TERM AS FAILING ADDR AT OUR RB LEVEL, IF NON-ZERO REGS ARE \$REGSAVE/\$CURPCE (NOT SDWA)
2344	(928)	BITSTRING	1	\$WARMTP	Warmstart type descriptor FLAG.
WARM EQU X'80' Single-member warmstart HOT EQU X'40' Hot start indicator QUICK EQU X'20' Quick start indicator CONFIG EQU X'10' All-member warmstart ESYS EQU X'08' \$E MEMBER(x) warmstart COLD EQU X'04' Cold start MVS IPL EQU X'02' MVS was IPLed COLDFMT EQU X'01' Cold start with format INITCHK EQU X'FF' Init deck check (all					
2345	(929)	BITSTRING	1	\$BRTDTYP	\$DOGBERT working value for BERT type
2346	(92A)	ADDRESS	2		Reserved for future use
2348	(92C)	SIGNED	4	\$WRMINIT(0)	# OF USER REQUESTED WARM PCES
2348	(92C)	SIGNED	2	\$WRMREG	# OF PCES FOR REGULAR WARMSTART
2350	(92E)	SIGNED	2	\$WRMESYS	# OF PCES FOR \$E SYS RESTART
2352	(930)	ADDRESS	4	\$ERDOMID	DOM id for \$HASP400 message
2356	(934)	ADDRESS	4	\$ACCBAD	CMB ADDRESS FOR HASP601 MESSAGE
2360	(938)	ADDRESS	4	\$NDDOMID	MESSAGE ID FOR HASP607 MSG
2364	(93C)	ADDRESS	4	\$SDCBAD	CMB ADDRESS FOR HASP623 MESSAGE
2368	(940)	SIGNED	4	\$HASP051	HASP051 DOM ID
2372	(944)	ADDRESS	4	\$PBELST	List of PREBERTs
2376	(948)	ADDRESS	2	\$PITNUM	NUMBER OF PITS FOR SCANTAB (\$MAXINIT, LATER \$MAXPART)
2378	(94A)	ADDRESS	2	\$NITECNT	COUNT OF NIT ENTRIES FOR SCANTAB, (\$MAXNODE, LATER \$NUMNODE)
2380	(94C)	ADDRESS	4	\$BRTFREC	Free BERT count (accurate only during thrshld proc)
HASP DEVICE CONTROL TABLE CHAIN POINTERS AND RELATED FIELDS. LOCAL/LINE/LOGON DCTS ARE CHAINED IN \$DCTPOOL USING THE DCTCHAIN FIELD. ALL OTHER DCTS ARE CHAINED IN \$DCTPOL2 USING DCTCHAIN. OTHER DCT CHAINING IS AS COMMENTED BELOW AND IN THE \$DCT MACRO PROLOG.					
2384	(950)	ADDRESS	4	\$DCTPOOL	FIRST HASP DCT IN LOCAL DEVICE, LINE, AND LOGON CHAIN
2388	(954)	ADDRESS	4	\$DCTPOL2	FIRST HASP DCT IN CHAIN OF ALL OTHER DCTS
2392	(958)	ADDRESS	4	\$RDRDCT	FIRST LOCAL READER DCT ADDR
2396	(95C)	ADDRESS	4	\$PRTDCT	FIRST LOCAL PRINTER DCT ADDR
2400	(960)	ADDRESS	4	\$PUNDCT	FIRST LOCAL PUNCH DCT ADDR
2404	(964)	ADDRESS	4	\$ROUTDCT	FIRST NJE ROUTE DCT ADDR
2408	(968)	ADDRESS	4	\$LNEDCT	FIRST LINE DCT ADDR
2412	(96C)	ADDRESS	4	\$MLNEDCT	FIRST MAS LINE DCT ADDR
2416	(970)	ADDRESS	4	\$LOGNDCT	FIRST LOGON DCT ADDR
2420	(974)	ADDRESS	4	\$SRVDCT	FIRST SERVER DCT
2424	(978)	ADDRESS	4		Reserved

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2428	(97C)	ADDRESS	4	\$NETLDCT	First network xmitter/ receiver DCT
2432	(980)	ADDRESS	4	\$NETDCTS	FIRST FREE NETWORK DCT GROUP ADDR, GROUP CHAIN PTR = DCTDCB, IN-GROUP CHAIN = MDCTDCT
2436	(984)	ADDRESS	4	\$RMTDCTS	RMT RDR/PRPU DCTS, DCTCHAIN CONNCTS ALL (R1 RDRS/PRTS/PUNS, R2, ETC), IN- RMT VIA RATRDCT/MDCTDCT
2440	(988)	ADDRESS	4	\$OLDDCTS	Chain of unused DCTs that are eligible for reuse (these are not in any other chain of DCTs)
2444	(98C)	ADDRESS	4	\$OFFDCT	FIRST OFFLOAD DCT ADDRESS, TRANSMITTERS/RECEIVERS ARE CHAINED OFF THESE DCTS WITH XDCTDCT
2448	(990)	ADDRESS	4	\$OJR DCT	FIRST OFF.JR DCT ADDRESS
2452	(994)	ADDRESS	4	\$OSR DCT	FIRST OFF.SR DCT ADDRESS
2456	(998)	ADDRESS	4	\$OJT DCT	FIRST OFF.JT DCT ADDRESS
2460	(99C)	ADDRESS	4	\$OST DCT	FIRST OFF.ST DCT ADDRESS
2464	(9A0)	ADDRESS	4	\$LDVCACH	Ptr to \$#POST cache for local devices (PRT/PUN)
Pointers to active (not drained) DCTs. Pointers are pairs, heads and tails. Queue is FIFO					
2468	(9A4)	ADDRESS	4	\$NJEADCT(2)	Network SYSOUT xmitter DCTs
2476	(9AC)	ADDRESS	4	\$OFFADCT(2)	Spl offload xmitter DCTs
2484	(9B4)	ADDRESS	4	\$LCLADCT(2)	Local printer/punch DCTs
DCT COUNT FIELDS FOR DEVICES THAT DO NOT CORRESPOND WITH PROCESSORS (PCES) ON A ONE-FOR-ONE BASIS.					
2492	(9BC)	SIGNED	2	\$NUMLNES	NUMBER OF NJE/RJE LINES
2494	(9BE)	SIGNED	2	\$NUMMLNE	NUMBER OF MAS LINES
2496	(9C0)	SIGNED	2	\$NETLNES	NUMBER OF NETWORK LINES
2498	(9C2)	SIGNED	2	\$NUMLOGS	NUMBER OF LOGON DCTS
2500	(9C4)	SIGNED	2	\$NUMSRVS	NUMBER OF SERVER DCTS
2502	(9C6)	SIGNED	2	\$NUMOFFS	NUMBER OF OFFLOAD DEVICE DCTS
2504	(9C8)	SIGNED	2		Reserved
2506	(9CA)	ADDRESS	4	\$NUMLDEV(0)	Sub-device counts
2506	(9CA)	ADDRESS	1	\$NUMNJT	JOB XMITTERS PER NETLNE
2507	(9CB)	ADDRESS	1	\$NUMNJR	JOB RECEIVERS PER NETLNE
2508	(9CC)	ADDRESS	1	\$NUMNST	SYSOUT XMITTERS PER NETLNE
2509	(9CD)	ADDRESS	1	\$NUMNSR	SYSOUT RECEIVERS PER NETLNE
More DEBUG flags. Mirrored in HCCT. Bit definitions in \$HASPEQU.					
2510	(9CE)	BITSTRING	1	\$DEBGOP3	Third debug byte
2511	(9CF)	BITSTRING	1	\$DEBGOP4	Fourth debug byte

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
THE HASP PROCESSOR CONTROL ELEMENT (PCE) CHAIN POINTERS AND COUNT FIELDS. EACH SUBSECTION IS MAPPED USING THE OFFSETS PROVIDED BELOW. THE PCE TABLE (\$PCETAB) ENTRIES IN HASPTABS CONTAIN HCT OFFSETS TO THESE FIELDS. EACH PCE CHAIN POINTER POINTS TO THE FIRST PCE OF THAT PCE TYPE IN THE HASP PCE CHAIN, OR IS ZERO TO INDICATE NO PCES. EACH PAIR OF PCE COUNTS REPRESENTS THE NUMBER OF PCES OF THAT TYPE THAT IS 'DEFINED', E.G. THE NUMBER OF DEVICES (DCTS) DEFINED, AND THE NUMBER FOR WHICH PCES ARE CURRENTLY EXISTING, RESPECTIVELY. THE FIRST SETS OF FIELDS MUST BE TOGETHER BECAUSE OF THE \$HCCT MAPPING AND IT'S USE BY \$\$POST.					
2511	(9CF)	X'8'	0	\$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH
2511	(9CF)	X'0'	0	\$PCEHCTP	"0,4" PCE POINTER
2511	(9CF)	X'4'	0	\$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2511	(9CF)	X'0'	0	\$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2511	(9CF)	X'2'	0	\$PCEHCTA	"2,2" ALLOCATED PROCESSOR COUNT
SPECIAL PROCESSORS, MAPPING MUST MATCH CCTPCEPE ORDER					
2512	(9D0)	SIGNED	4	\$POSTELS(0)	START OF PCE ELEMENTS
2512	(9D0)	ADDRESS	4	\$COMMPCE	COMMAND PROCESSOR
2516	(9D4)	ADDRESS	2	\$NUMCOMM	
2520	(9D8)	ADDRESS	4	\$EXECPCPE	EXECUTION PROCESSOR
2524	(9DC)	SIGNED	2	\$NUMEXEC	
2528	(9E0)	ADDRESS	4	\$ASYNPCE	ASYN I/O PROCESSOR
2532	(9E4)	SIGNED	2	\$NUMASYN	
2536	(9E8)	ADDRESS	4	\$XTIMPCE	TIME EXCESSION PROCESSOR
2540	(9EC)	SIGNED	2	\$NUMXTIM	
2544	(9F0)	ADDRESS	4	\$TIMEPCE	STIMER/TTIMER PROCESSOR
2548	(9F4)	SIGNED	2	\$NUMTIMR	
2552	(9F8)	ADDRESS	4	\$TRCPCE	EVENT TRACE LOG PROCESSOR
2556	(9FC)	SIGNED	2	\$NUMEVTL	
2560	(A00)	ADDRESS	4	\$SPOLPCE	SPOOL MANAGER PROCESSOR
2564	(A04)	SIGNED	2	\$NUMSPOL	
2568	(A08)	ADDRESS	4	\$MLLMPCE	LINE MANAGER PROCESSOR
2572	(A0C)	SIGNED	2	\$NUMMLLM	
2576	(A10)	ADDRESS	4	\$SOMPCE	SPOOL OFFLOAD PROCESSOR
2580	(A14)	SIGNED	2	\$NUMSOM	
2584	(A18)	ADDRESS	4	\$CKPTPCE	CHECKPOINT PROCESSOR
2588	(A1C)	SIGNED	2	\$NUMCKPT	
2592	(A20)	ADDRESS	4	\$MCONPCE	REMOTE CONSOLE PROCESSOR
2596	(A24)	SIGNED	2	\$NUMMCON	
2600	(A28)	ADDRESS	4	\$SFSPCE	SCHEDULER FACILITY SRV PCE
2604	(A2C)	SIGNED	2	\$NUMSFS	
2608	(A30)	ADDRESS	4	\$ENFPCE	ENF LISTEN Processor
2612	(A34)	SIGNED	2	\$NUMENF	
2616	(A38)	ADDRESS	4	\$JQRPCE	JQE Request Processor
2620	(A3C)	SIGNED	2	\$NUMJQR	
2624	(A40)	ADDRESS	4	\$MISCPCE	Miscellaneous processor

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2628	(A44)	SIGNED	2	\$NUMMISC	
2632	(A48)	ADDRESS	4	\$DREPPCE	Data repository management
2636	(A4C)	SIGNED	2	\$NUMDREP	processor
END OF COMMON HCCT MAPPING					
2640	(A50)	ADDRESS	4	\$RDRPCE	LOCAL READERS
2644	(A54)	SIGNED	2	\$NUMRDRS	
2648	(A58)	ADDRESS	4	\$IRCPCE	Internal reader cleanup
2652	(A5C)	SIGNED	2	\$NUMIRC	
2656	(A60)	ADDRESS	4	\$TPRDPCE	RJE READERS
2660	(A64)	SIGNED	2	\$NUMTPRD	
2664	(A68)	ADDRESS	4	\$JCLPCE	CONVERSION PROCESSOR
2668	(A6C)	SIGNED	2	\$NUMCNVT	
2672	(A70)	ADDRESS	4	\$PSOPCE	PSO PROCESSORS
2676	(A74)	SIGNED	2	\$NUMPSO	
2680	(A78)	ADDRESS	4	\$OUTPCE	OUTPUT PROCESSOR
2684	(A7C)	SIGNED	2	\$NUMOUT	
2688	(A80)	ADDRESS	4	\$PRTPCE	LOCAL PRINTERS
2692	(A84)	SIGNED	2	\$NUMPRTS	
2696	(A88)	ADDRESS	4	\$TPPRPCE	RJE PRINTERS
2700	(A8C)	SIGNED	2	\$NUMTPPR	
2704	(A90)	ADDRESS	4	\$PUNPCE	LOCAL PUNCHES
2708	(A94)	SIGNED	2	\$NUMPUNS	
2712	(A98)	ADDRESS	4	\$TPPUPCE	RJE PUNCHES
2716	(A9C)	SIGNED	2	\$NUMTPPU	
2720	(AA0)	ADDRESS	4	\$PURGPCE	PURGE PROCESSORS
2724	(AA4)	SIGNED	2	\$NUMPURG	
2728	(AA8)	ADDRESS	4	\$DLSPCE	Deadline scheduling PCE
2732	(AAC)	SIGNED	2	\$NUMDLSP	
2736	(AB0)	ADDRESS	4	\$PRTYPCE	PRIORITY AGING PROCESSOR
2740	(AB4)	SIGNED	2	\$NUMPTY	
2744	(AB8)	ADDRESS	4	\$PRYOPCE	OUTPUT PRIO AGING PROCESSOR
2748	(ABC)	SIGNED	2	\$NUMPRYO	
2752	(AC0)	ADDRESS	4	\$WARPCE	WARM START PROCESSORS
2756	(AC4)	SIGNED	2	\$NUMWARM	
2756	(AC4)	X'4'	0	\$WARMCNT	"4" Number of \$E SYS warmstart PCEs after init complete
2760	(AC8)	ADDRESS	4	\$NJTPCE	NJE JOB TRANSMITTERS
2764	(ACC)	SIGNED	2	\$NUMNJTS	
2768	(AD0)	ADDRESS	4	\$OJTPCE	OFFLOAD JOB TRANSMITTERS
2772	(AD4)	SIGNED	2	\$NUMOJTS	
2776	(AD8)	ADDRESS	4	\$NJRPCE	NJE JOB RECEIVERS
2780	(ADC)	SIGNED	2	\$NUMNJRS	
2784	(AE0)	ADDRESS	4	\$OJRPCE	OFFLOAD JOB RECEIVERS
2788	(AE4)	SIGNED	2	\$NUMOJRS	
2792	(AE8)	ADDRESS	4	\$NSTPCE	NJE SYSOUT TRANSMITTERS

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2796	(AEC)	SIGNED	2	\$NUMNSTS	
2800	(AF0)	ADDRESS	4	\$OSTPCE	OFFLOAD SYSOUT TRANSMITTERS
2804	(AF4)	SIGNED	2	\$NUMOSTS	
2808	(AF8)	ADDRESS	4	\$NSRPCE	NJE SYSOUT RECEIVERS
2812	(AFC)	SIGNED	2	\$NUMNSRS	
2816	(B00)	ADDRESS	4	\$OSRPCE	OFFLOAD SYSOUT RECEIVERS
2820	(B04)	SIGNED	2	\$NUMOSRS	
2824	(B08)	ADDRESS	4	\$NPMPCE	NETWORK PATH MANAGER
2828	(B0C)	SIGNED	2	\$NUMNPM	
2832	(B10)	ADDRESS	4	\$NRPMPCE	NETWORK RESOURCE MONITOR
2836	(B14)	SIGNED	2	\$NUMNRM	
2840	(B18)	ADDRESS	4	\$NRRPCE	NJE ROUTE RECEIVER
2844	(B1C)	SIGNED	2	\$NUMNRR	
2848	(B20)	ADDRESS	4	\$NRTPCE	NJR ROUTE TRANSMITTER
2852	(B24)	SIGNED	2	\$NUMNRT	
2856	(B28)	ADDRESS	4	\$RESMPCE	RESOURCE MANAGER
2860	(B2C)	SIGNED	2	\$NUMRESM	
2864	(B30)	ADDRESS	4	\$STACPCE	STATUS/CANCEL PROCESSOR
2868	(B34)	SIGNED	2	\$NUMSTAC	
2872	(B38)	ADDRESS	4	\$SPINPCE	SPIN PROCESSOR
2876	(B3C)	SIGNED	2	\$NUMSPIN	
2880	(B40)	ADDRESS	4	\$FCLPCE	FSS CLEANUP ON EOM PCES
2884	(B44)	SIGNED	2	\$NUMFCL	
2888	(B48)	ADDRESS	4	\$JCMDPCE	Job command processor
2892	(B4C)	SIGNED	2	\$NUMJCMD	
2896	(B50)	ADDRESS	4	\$XCFPCE	COUPLING PROCESSOR
2900	(B54)	SIGNED	2	\$NUMXCF	
2904	(B58)	ADDRESS	4	\$XCMPCE	XCF Command processor
2908	(B5C)	SIGNED	2	\$NUMXCM	
2912	(B60)	ADDRESS	4	\$ARMPCE	ARM SUPPORT PROCESSOR
2916	(B64)	SIGNED	2	\$NUMARM	
2920	(B68)	ADDRESS	4	\$SNFPCE	SPOOL Management Processor
2924	(B6C)	SIGNED	2	\$NUMSNF	
2928	(B70)	ADDRESS	4	\$SPIPCE	Sysout API Processor
2932	(B74)	SIGNED	2	\$NUMSPI	
2936	(B78)	ADDRESS	4	\$DILPCE	Do It Later Processor
2940	(B7C)	SIGNED	2	\$NUMDIL	
2944	(B80)	ADDRESS	4	\$ALIPCE	Acquire Lock & Initiate
2948	(B84)	SIGNED	2	\$NUMALI	Cleanup Executor
2952	(B88)	ADDRESS	4	\$EOMPCE	EOM Processor
2956	(B8C)	SIGNED	2	\$NUMEOM	
2960	(B90)	ADDRESS	4	\$DAWNPCE	Distributed Available Work
2964	(B94)	SIGNED	2	\$NUMDAWN	Notification processor
2968	(B98)	ADDRESS	4	\$CDCPCE	Cross-system Device
2972	(B9C)	SIGNED	2	\$NUMCDC	Communication processor

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2976	(BA0)	ADDRESS	4	\$JOEIPCE	JOEINDEX service
2980	(BA4)	SIGNED	2	\$NUMJOEI	processor
2984	(BA8)	ADDRESS	4	\$EDSPCE	Email Delivery Services
2988	(BAC)	SIGNED	2	\$NUMEDS	processor
2992	(BB0)	ADDRESS	4	\$PCYPCE	Policy services
2996	(BB4)	SIGNED	2	\$NUMPCY	processor
3000	(BB8)	ADDRESS	4	\$DRTMPCE	Data repository track
3004	(BBC)	SIGNED	2	\$NUMDRTM	management processor
3004	(BBC)	X'BB8'	0	\$POSTLST	"*-\$PCEHCTE" ADDR OF LAST PCE ELEMENT
3008	(BC0)	BITSTRING	8	\$RSV3(0)	RESERVED FOR FUTURE IBM USE
3016	(BC8)	ADDRESS	8	\$SDQPTR	Ptr to Side Queue Area
HASP PROCESSOR CONTROL ELEMENT DISPATCHER FIELDS					
3024	(BD0)	ADDRESS	4	\$PCEORG	ADDRESS OF FIRST PCE
3028	(BD4)	ADDRESS	4	\$PCELAST	ADDRESS OF LAST PCE
3032	(BD8)	ADDRESS	4	\$CURPCE	ADDRESS OF CURRENT PCE (IF ANY)
3036	(BDC)	ADDRESS	4	\$PCEPSTC	Non-main task PCE post chn
3040	(BE0)	BITSTRING	4		Reserved
3048	(BE8)	DBL WORD	8	(0)	ALIGN DISPATCHER ECF FIELDS
3048	(BE8)	BITSTRING	8	\$HASPECF	MASTER EVENT CONTROL FIELD, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE POSTED
3056	(BF0)	BITSTRING	8	\$MASECF	CROSS-SYSTEM EVENT CONTROL FIELD, RESOURCES \$POSTED IN THIS ECF WILL BE PROPAGATED TO OTHER MEMBERS
3064	(BF8)	BITSTRING	1	\$MLLMECF	LINE MGR ECF, IF BIT IS 1 LINE MGR SHOULD BE \$POSTED IF SAME \$HASPECF FLAG \$POSTED AND \$DRMLLM IS ON
<p>PROCESSOR QUEUES</p> <p>There are 2 queues of \$XECBs in JES2. The first is the queue of \$XECBs that have been \$WAITed on. This is a double threaded queue with \$XECBQF pointing to the first element and \$XECBQL pointing to the last. This queue has both converted and unconverted \$XECBs on it. The second queue is the queue of converted \$XECBs that have been posted. \$XECBs are added out of the MVS POST exit and removed by the main task. This is a single threaded stack pointed to by \$EXTECBQ. Note: a \$XECB can only be placed on this queue if it is currently being \$WAITed on (it is on the \$XECBQF). To ensure this a CDS is used in JES2's MVS POST exit. This requires the 3 pointers to be arranged with the POSTED queue chain fields be between the 2 waited on chain fields. Do not change the order of these fields.</p>					
3072	(C00)	BITSTRING	0	\$XECBQ(0)	Queue head of all \$XECBs currently defined to JES2 dispatcher (serialized by JES2 main task)
3072	(C00)	ADDRESS	4	\$XECBQF	1st \$XECB on chain
3076	(C04)	ADDRESS	4	\$EXTECBQ	QUEUE HEAD OF XECBS FOR PCES TO BE DISPATCHED.
3080	(C08)	ADDRESS	4	\$XECBQL	Last \$XECB on chain
3084	(C0C)	ADDRESS	4	\$DRQUES	DISPATCHER RESOURCE WAIT QUEUES, DOUBLE WORDS, FORWARD/BACKWARD POINTERS FOR CIRCULAR QUEUES
3088	(C10)	SIGNED	4	\$READY(0)	PCES READY FOR DISPATCH
3088	(C10)	ADDRESS	4	\$READYF	First \$PCE on queue

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3092	(C14)	ADDRESS	4	\$READYL	Last \$PCE on queue
3096	(C18)	ADDRESS	8	\$CDIPTR	Ptr to CDI origin
3104	(C20)	ADDRESS	8	\$CDTPTR	Ptr to CDT origin
3112	(C28)	ADDRESS	8	\$RGDPTR	Ptr to RGD origin
All variable located between \$SAVEBEG and \$SAVEEND will be regularly checkpointed by JES2 and will be restored on any warm start of JES2.					
3120	(C30)	DBL WORD	8	\$SAVEBEG(0)	Beginning of save area
3120	(C30)	CHARACTER	4	\$MSTRID	MASTER RECORD EYECATCHER
3124	(C34)	SIGNED	4	\$MASTERL	CHECKPOINT MASTER RCD LEN
New \$MSTRVER values require a change to the \$SCANTAB for \$ACTIVATE/\$D ACTIVATE. Also the equates for \$MSTRVER must be defined for the \$HCCT and \$HFCT master record version fields					
3128	(C38)	ADDRESS	1	\$MSTRVER	Master record version
3128	(C38)	X'B'	0	\$MSTRHI	"\$MSTRZ32" Most current ckpt version
3128	(C38)	X'6'	0	\$MSTRVRN	"6" Pre-OS 240 version #
3128	(C38)	X'7'	0	\$MSTRVR4	"7" OS 240 - OS 210 version #
3128	(C38)	X'8'	0	\$MSTRZ2	"8" z/OS 1.2 version #
3128	(C38)	X'8'	0	\$MSTRV12	"\$MSTRZ2" Compatible equate
3128	(C38)	X'9'	0	\$MSTRZ11	"9" z/OS 1.11 version #
3128	(C38)	X'A'	0	\$MSTRZ22	"10" z/OS 2.2 version #
3128	(C38)	X'B'	0	\$MSTRZ32	"11" z/OS 3.2 version #
When the size of the checkpoint is updated, the count in \$CKPTUPD is updated. If the count in the master record does not match the count on the local member (\$CKPTLOC), then the checkpoint has been updated.					
3129	(C39)	BITSTRING	1	\$CKPTUPD	CKPT update pending mask
3130	(C3A)	SIGNED	2	\$MSTHCTL(0)	Length of CKPT HCT area
3132	(C3C)	ADDRESS	4	\$CHLOGLN	LENGTH USED PART CH LOG
3136	(C40)	SIGNED	2	\$CKTSEQN	Ckpt tuning cycle number
3138	(C42)	SIGNED	1	\$WCHECK	CKPT WRITE-CHECK-RCD Value
3139	(C43)	BITSTRING	1	\$CKPTFLG	CHECKPOINT DISPOSITION
3140	(C44)	BITSTRING	8	\$CKPUSER	CHECKPOINTED USER FIELD
3148	(C4C)	BITSTRING	4	\$NEWSJQE	OFFSET OF JES2-NEWS JQE OR ZERO
3152	(C50)	BITSTRING	4	\$NEWSIOT	MTTR OF JES2-NEWS IOT, OR 0
3156	(C54)	BITSTRING	2	\$NEWSCLV	Level of current NEWS (one matching IOT in \$NEWSIOT)
3158	(C56)	BITSTRING	2	\$NEWSLVL	Level number of news data set being created (same as \$NEWSCLV if none being created)
3160	(C58)	ADDRESS	2	\$QSELEN	Length of a QSE
3162	(C5A)	ADDRESS	2	\$ESQLEN	Length of ESQ entry
3164	(C5C)	ADDRESS	4	\$JQFREEI	First free JQE index
\$JQHEADI through \$JQRBLDI (including the equate \$JQBDTY) must remain together. The scanning of the job queues depends on this.					

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3168	(C60)	ADDRESS	4	\$JQHEADL(47)	Heads of active job queue element (JQE) chains (JQE index)
3168	(C60)	X'4'	0	\$JQHEADL	"4" LENGTH OF JOB QUE HEAD ENTRY
3168	(C60)	X'2F'	0	\$JQTYPES	"(*-\$JQHEADL)/\$JQHEADL" NUMBER OF JOB QUEUES
3168	(C60)	X'90'	0	\$JQCLSSZ	"36*\$JQHEADL" NUMBER OF EXEC JOB CLASS QUEUES
3356	(D1C)	ADDRESS	4	\$JQRBLDI	Job Rebuild Queue head (JQE index)
3356	(D1C)	X'30'	0	\$JQRBDTY	"(*-\$JQHEADL)/\$JQHEADL" Number of job queues including rebuild queue
3360	(D20)	SIGNED	2	\$REBLDS	Total number of job/output rebuilds since last cold or all member warm start
3362	(D22)	SIGNED	2	\$KITNUM2	Num KITs in the checkpoint
3364	(D24)	SIGNED	2	\$JQELEN	TOTAL LENGTH OF A JQE
3366	(D26)	SIGNED	2	\$JQEMSKL	LENGTH-1 OF JQE SPLS USED MASK
3368	(D28)	SIGNED	2	\$JQEEXFR	OFFSET TO POSSIBLE FREE EXTENSION AREA IN MASTER RECORD
3370	(D2A)	ADDRESS	2	\$MAXESZ	Maximum size of extension
<p>\$HASP355 and some \$HASP050 resources have a sysplex scope and need to be CKPTed. Here we maintain the member id of the JES that has issued the message for each resource. Also the threshold for each resource is maintained here. The time stamp for the HASP355 message is saved for comparison within the sysplex. Any new \$HASP050 resources with a sysplex scope must have a SYSID and threshold percent pair, such as the ones below, added somewhere in the checkpointed portion of the HCT. Also the list of resources to be dealt with on a restart must be updated in HASPIRDA.</p>					
3372	(D2C)	SIGNED	2	\$RSCTABL(0)	Starting point of member ids and threshold values
3372	(D2C)	BITSTRING	1	\$JQSYSID	SYSID for JQE message
3373	(D2D)	ADDRESS	2	\$JQEPRCT	JQE threshold percentage
3375	(D2F)	BITSTRING	1	\$JOSYSID	SYSID for JOE message
3376	(D30)	ADDRESS	2	\$JOEPRCT	JOE threshold percentage
3378	(D32)	BITSTRING	1	\$JNSYSID	SYSID for JOB num message
3379	(D33)	ADDRESS	2	\$JNOPRCT	JOB NUM threshold percent
3381	(D35)	BITSTRING	1	\$TGSYSID	SYSID for TRK GRP message
3382	(D36)	ADDRESS	2	\$TGPRCT	TRK GRP threshold percent
3384	(D38)	SIGNED	4	\$SPFTIME	Time HASP355 message issued
3388	(D3C)	BITSTRING	1	\$ZJSYSID	SYSID for ZJC message
3389	(D3D)	ADDRESS	2	\$ZJCPRCT	ZJC threshold percentage
3391	(D3F)	ADDRESS	1		Reserved
3392	(D40)	BITSTRING	4	\$RSOCLDP	RSO cleaned up for mem mask
3396	(D44)	SIGNED	4	\$DRXJQE	Offset for repository JQE
3400	(D48)	SIGNED	4	\$SCQJQE	OFFSET OF SHRD COMM QUEUE JQE
3404	(D4C)	BITSTRING	32	\$SPLEXST	BIT MSK OF EXISTNG SPLS
3436	(D6C)	BITSTRING	32	\$SPLSLCT	SPLS ABLE TO SELECT WRK
3468	(D8C)	BITSTRING	1	\$SPLINAC	MASK OF INACTIVE SPOOLS

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
\$TGALLOC = \$TGTOTAL-\$TGFFREE The number of track groups in use for all active spool volumes. Note: track groups assigned to the BLOB are considered allocated for purposes of this count \$TGTOTAL = Number of track groups on STATUS=ACTIVE spool volumes. \$TGDEFND = Number of track groups associated with any spool volume. \$TGFFREE = Number of track groups available for allocation (on STATUS=ACTIVE spool volumes.) Note: track groups assigned to the BLOB are not considered free for purposes of this count \$NUMTG = Initialization Statement number of track groups in the system (size of TGM).					
3500	(DAC)	ADDRESS	4	\$TGALLOC	NUM OF AVAILABLE TGS ALLOCATED
3504	(DB0)	ADDRESS	4	\$TGTOTAL	TOTAL NUMBER OF AVAILABLE TGS
3508	(DB4)	ADDRESS	4	\$TGDEFND	NUMBER OF DEFINED TGS
3512	(DB8)	ADDRESS	4	\$TGFFREE	FREE TG COUNT
3516	(DBC)	ADDRESS	2	\$QSEMAX	Number of members possible
3518	(DBE)	ADDRESS	2	\$QSENDEF	NUMBER OF DEFINED SYSTEMS
3520	(DC0)	SIGNED	4	\$CKRECS	Number of 4K CKPT pages (z11 mode only)
3524	(DC4)	SIGNED	4	\$DASWRKQ	OFFSET OF 1ST DAS ON DAS WORK Q
3528	(DC8)	SIGNED	4	\$DASTRKQ	OFFSET OF 1ST DAS REP. IN TGM
3532	(DCC)	SIGNED	4	\$DATAKEY	MASTER PERIPHERAL DATA SET KEY
3536	(DD0)	CHARACTER	4	\$HASPID	CHECKPOINT RECORD IDENTIFICATION
3540	(DD4)	CHARACTER	8	\$NDENAME	Node name
The following 2 fields are used for \$HASP050 processing					
3548	(DDC)	BITSTRING	1	\$BTSYSID	SYSID for BERT message
3549	(DDD)	ADDRESS	2	\$BRTPRCT	BERT threshold percentage
3551	(DDF)	BITSTRING	1	\$FNCCNT	Number of volumes to fence a job to
3552	(DE0)	SIGNED	4	\$ZAPTIME	Time last ZAPJOB executed
ZJC CTENT (job zone) info (also see \$ZJCPT, \$ZJCNM, and \$ZJCLEN) NOTE: - Also see \$ZJC.					
3556	(DE4)	SIGNED	4	\$ZODHEAD	Index of the first Zone Job Object Definition (ZOD) in the ZJC CTENT.
3560	(DE8)	SIGNED	4	\$ZJCFREI	Index of the first Zone Job Container (ZJC) object in FREE chain.
3564	(DEC)	SIGNED	4	\$ZJCFREN	Count of FREE Zone Job Container (ZJC) objects.
The next two fields represent the highest and lowest VRM (Version, Release, Modification) JES2s active in the JESplex. See the \$JES2xxx equates in \$HASPEQU.					
3568	(DF0)	SIGNED	2	\$MASVER(0)	Versions active in JESplex
3568	(DF0)	SIGNED	1	\$HIGHVER(0)	Highest active JES2
3569	(DF1)	SIGNED	1	\$LOWVER(0)	Lowest active JES2
3570	(DF2)	ADDRESS	2	\$PRIRATE	PRIORITY AGING RATE
3572	(DF4)	ADDRESS	1	\$PRIHIGH	JOB PRIORITY AGING UPPER
3573	(DF5)	ADDRESS	1	\$PRILOW	AND LOWER LIMITS

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3574	(DF6)	ADDRESS	2	\$PRORATE	OUTPUT PRIORITY AGING RATE
3576	(DF8)	ADDRESS	2	\$PRTYOHI	OUTPUT PRIORITY AGING UPPER
3578	(DFA)	ADDRESS	2	\$PRTYOLO	AND LOWER LIMITS
3580	(DFC)	BITSTRING	1	\$FLAG1	Checkpointed flag byte
		1...		\$UNSPUN	"B'10000000" UNPROC SPIN IOTS QUEUED
		.1..		\$NONSHR	"B'01000000" NON-SHARED SPOOLS ALLOWED
		..1.		\$MASACTV	"B'00100000" SPECIFIES MORE THAN ONE RUNNING SYSTEM FOR MAS AND IS SET EVERY CHECKPOINT CYCLE
		...1		\$MVFENCE	"B'00010000" SPOOL FENCING (MINIMUM NUMBER OF VOLUMES PER JOB) IN EFFECT
		.... 1...		\$EXECDUP	"B'00001000" Duplicate job checking is suppressed
		.... .1..		\$CNVTWEE	"B'00000100" Indicates the converter should wait for EXCL ENQs
		.... ..1.		\$UNSPUND	"B'00000010" Deferred UNSPUN jobs exist
		.... ...1		\$PRUNSP	"B'00000001" PROCESSING UNSPUN OUTPUT
3581	(DFD)	BITSTRING	1	\$FLAG2(0)	2nd ckptpointed flag byte
		1...		\$WTBSYJO	"B'10000000" AN OUTPUT PROCESSOR IS WAITING AVAILABILITY OF A BUSY JOE
		.1..		\$CF1VOL	"B'01000000" MAS knows CKPT1 is volatile
		..1.		\$CF2VOL	"B'00100000" MAS knows CKPT2 is volatile
		...1		\$CKOPVER	"B'00010000" CKPTDEF OPVERIFY=YES
		.... 1...		\$CKREFHC	"B'00001000" CKPT Config Health Check should be refreshed

The format of MTTRs is controlled by the following 4 bits. \$SPLADRA and \$SPLADRS control whether relative or absolute track addressing is used. \$SPLLGDS and \$SPLMTT control the number of bits assigned to the tracks. These bits are only used when the volume is started.

Track addresses (MTTRs) come in 3 formats:

- absolute track addressing (traditional format)
TT is a 16 bit absolute track address.
- Relative track addressing (default)
TT is a 16 bit relative track address.
- Large data set format. Track address format is MTTr, tt is a 20 bit relative track address.

```

$ $ $ $
S S S S
P P P L
L L L P
A A L M
D D G T
R R D T
A S S T Meaning
0 0 0 0 Absolute track addressing (deprecated)
1 x 0 0 Relative track addressing (always)
0 1 0 0 Relative track addressing (ifneeded)
1 x 1 0 Large data set support is active and
      20 bit TTs used if SPOOL data set being
      started has >64K tracks.
1 x 1 1 Large data set support is active and
      20 bit TTs used for all new SPOOL volumes
$SPLADRA and $SPLADRS are no longer used as of
z/OS 1.7. Relative track addressing is always used
if the volume is started by 1.7.

```

.... 1...	\$SPLADRA	"B'00001000" Always use relative addr.
-----------	-----------	--

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		\$SPLADRS	"B'00000100'" Use relative addr as needed
Sniff faster flag. If on, perform sniffing as quickly as possible until a "house call" has been made for all track groups. After all track groups have been sniffed, revert to one house call / week. The MOOB (Extent, offset, bit) where "GCRATE=FAST" began is kept in \$FASNIFF.					
		.... ..1.		\$SNIFAST	"B'00000010'" In "GCRATE=FAST" mode
		.... ...1		\$SNFNSYM	"B'00000001'" Suppress SYMREC generation during sniffer
\$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.					
3582	(DFE)	SIGNED	2	\$CKPCTPW	Count of checkpoint writes
3584	(E00)	SIGNED	4	\$OPSPJNO	LAST JOB IN JIX EXAMINED FOR UNSPUN WORK
3588	(E04)	SIGNED	2	\$CLRECN	NUMBER OF 4K RECS IN CH LG
COLD START INFORMATION - VERSION, SYSID, DATE, TIME					
3590	(E06)	CHARACTER	5	\$COLDJSN	NAME OF JOB ENTRY SUBSYSTEM
3595	(E0B)	CHARACTER	8	\$COLDVSN	VERSION OF JES2
3603	(E13)	CHARACTER	11	\$COLDJSP	
3614	(E1E)	CHARACTER	4	\$COLDSID	SMF SYSID FOLLOWED BY A SPACE
3619	(E23)	BITSTRING	1	\$FLAG5	5th checkpointed flag
		1...		\$ZEROTGS	"B'10000000'" Zero just-freed SP00L TGs
		.1..		\$LDSRENA	"B'01000000'" Large dataset range is enabled.
		..1.		\$CNVSCHE	"B'00100000'" Use scheduling environ affinity for conversion
		...1		#POSTWTO	"B'00010000'" Message when \$#POST
		.... 1...		\$ENFJPLX	"B'00001000'" ENF 58/70/78 JESplex only
		.... .1..		\$CCMAUTO	"B'00000100'" if on, CYCLEMGT=AUTO if off, CYCLEMGT=MANUAL
		.... ..1.		\$CONSETP	"B'00000010'" if on, at least one concurrent-set is awaiting execution green light via IWMBLOC
		.... ...1		\$HOPERSW	"B'00000001'" Jobs in OUTPUT suspended for resource group event
EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. \$FLAG6 must be kept in sync with: CCTFLAG6 in the HCCT PDBEVTLS in the Pddb NJH2FLG2 in the NJE job header					
3620	(E24)	BITSTRING	1	\$FLAG6	6th checkpointed flag
		1...		\$EVTLSMF	"B'10000000'" Suppress EVENTLOG SMF rec
		..1.		\$EVTLRST	"B'00100000'" Suppress EVENTLOG RESTART

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		\$EVLTRC	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		\$EVLUSR	"B'00001000'" Suppress EVENTLOG USER rc
Feature Suppression flags. \$KFCFLG7 must be kept in sync with: CCTKFCF7 in the HCCT Bit settings are interpreted as follows:					
3621	(E25)	BITSTRING	1	\$KFCFLG7	7th checkpointed flag Kill Feature Conditions
		1...		\$EVTLOFF	"B'10000000'" Suppress EVENTLOG writes
		.1..		\$NONPNJE	"B'01000000'" Suppress non-printable data sets on NJE
		..1.		\$DRXOFF	"B'00100000'" Suppress data repository processing
		...1		\$JHISTRY	"B'00010000'" Suppress job history collection
		.... 1...		\$JHSTRYR	"B'00001000'" Job history recently suppressed
		.... .1..		\$NOSNQ	"B'00000100'" Suppress system data set ENQs
		.... ..1.		\$ENHJBS	"B'00000010'" Suppress enhanced job selection
Advanced Format flags.					
3622	(E26)	BITSTRING	1	\$FLAGA	8th checkpointed flag
		1...		\$ADVENCs	"B'10000000'" Encryption support has been activated at least once. Once set, down level MAS members (<2.4) may not join. Once set never unset
		.1..		\$ADVENCA	"B'01000000'" Data set encryption is allowed.
		..1.		\$ADV FALL	"B'00100000'" Always create advanced format HDBs
EQU B'00010000' Reserved (was \$CDIENA)					
3623	(E27)	BITSTRING	1		Reserved for future use
3624	(E28)	SIGNED	4	\$COLDDTM(2)	DATE AND TIME STAMP IN 'TIME BIN' FORMAT
3632	(E30)	SIGNED	4	\$LASTCLD	STCK time of cold start
3636	(E34)	SIGNED	4	\$LASTSPV	STCK time of last track group map rebuild
3640	(E38)	CHARACTER	4	\$SPVMNAM	Member name of system doing spool validation
3644	(E3C)	SIGNED	4	\$LASTAMW	STCK time of last all member warm start
3648	(E40)	CHARACTER	4	\$AMWMNAM	Member name of system doing all member warm start
THE FOLLOWING FIELDS ARE USED FOR CHECKPOINT VERIFICATION DURING A WARM START OF JES2					
3652	(E44)	ADDRESS	2	\$NUMNODE	MAXIMUM NUMBER OF NODES
3654	(E46)	CHARACTER	5	\$SPOOL	SPOOL VOLUME PREFIX

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3659	(E4B)	SIGNED	1	\$SPLEN	NUMBER-1 OF CHARS OF \$SPOOL
3660	(E4C)	SIGNED	2	\$SPOLNUM	NUMBER OF SPOOL VOLUMES
3660	(E4C)	X'E4D'	0	\$SPLNUMB	"\$SPOLNUM+1,1" ALLOWED (ONE BYTE VERSION)
3662	(E4E)	ADDRESS	2	\$BUFSIZE	HASP BUFFER SIZE
3664	(E50)	ADDRESS	2	\$ESQNUM	Number of ESQ entries
3666	(E52)	CHARACTER	1	\$BADJNC	Char for bad jobname
3667	(E53)	BITSTRING	1	\$FLAG3(0)	3rd ckpt flag
		1...		\$SPLLGDS	"B'10000000'" Large SPOOL DS support active
		.1..		\$SPLMTT	"B'01000000'" Always use new MQTR fmt
		..1.		\$SPLLGUS	"B'00100000'" Large data sets was active at least once
EQU B'00000010' Reserved (used in z8 thru					
EQU B'00010000' Reserved (used in z7 thru					
EQU B'00001000' Reserved (used in z7 thru					
EQU B'00000100' Reserved (used in z8 thru					
		.... ...1		\$SNFZ7FS	"B'00000001'" Z7 or later fast sniff mode
3668	(E54)	ADDRESS	4	\$NUMJOES	NUMBER OF JOB OUTPUT ELEMENTS
3672	(E58)	ADDRESS	2	\$NODEID	NUMBER OF THIS NODE
3674	(E5A)	ADDRESS	1	\$RECINCR	RECORD ALTERNATION PARAMETER
3675	(E5B)	ADDRESS	1	\$TCELSIZ	NBR OF BUFFERS IN A TRAKCELL
3676	(E5C)	ADDRESS	4	\$NUMTG	TOTAL NUMBER OF TRACK GROUPS
3680	(E60)	BITSTRING	1	\$DESTFLG	USERDEST flag
		1...		\$DESTNNN	"B'10000000'" Nnnnn is a userid
		.1..		\$DESTRNN	"B'01000000'" Rnnnn is a userid
		..1.		\$DESTRMN	"B'00100000'" RMnnnn is a userid
		...1		\$DESTRMT	"B'00010000'" RMTnnnn is a userid
		.... 1...		\$DESTUNN	"B'00001000'" Unnnn is a userid
		.... .1..		\$DESTDLC	"B'00000100'" Display 'LOCAL.' if userid (only set in HCCT)
		.... ...1.		\$DESTNNR	"B'00000010'" DEST=userid is not allowed; Must use nodename.userid
3681	(E61)	SIGNED	1	\$JIXMPCN	Count of job numbers freed since last JIX map update
3682	(E62)	ADDRESS	2	\$JNTSIZE	JNT size (JIX prefix)
3684	(E64)	SIGNED	4	\$BERTNUM	Number of BERTs
3688	(E68)		4	\$SPLBYTES	Bytes of spool (FP value)
3692	(E6C)	CHARACTER	8	\$XCFGPNM	XCF Group Name
3700	(E74)	SIGNED	4	\$JQEFCRN	Count of free JQEs
3704	(E78)	ADDRESS	4	\$JQENUM	Max number of jobs in the system
3708	(E7C)	SIGNED	2	\$ZJCLEN	Length of a Zone Job Container (ZJC) object in the ZJC CTENT.

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3710	(E7E)	BITSTRING	1	\$FLAG4	4th ckptpointed flag byte
		1...		\$BERT255	"B'10000000" Free BERTs < 255
EQU B'01000000' Was \$A24852 Bits must be defined with 16 "left" of MIN					
		..1.		\$BERT16	"B'00100000" Free BERTs <= 16
		...1		\$BERTMIN	"B'00010000" Free BERTs <= \$BERTHRS
		.... 1...		\$BERTESH	"B'00001000" Extreme BERT shortage detected - Q errors expected
		.... .1..		\$SPLEASS	"B'00000100" Extended addressing space (EAS) has been activated at least once. Once set - down level MAS members (<12) may not join. Once set - never unset.
		.... ..1.		\$SPLEASA	"B'00000010" JES2 data set allocation (DISP=old/new) may reside in EAV cyl managed-(EAS) storage. This pertains to spool and checkpoint data sets.
		.... ...1		\$MCJCLAS	"B'00000001" At least 1 multi character batch jobclass or job class group exists
3711	(E7F)	ADDRESS	1	\$DASEXSZ	DAS extension size
3712	(E80)	BITSTRING	6	\$LASNIFL	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)
<p>The following field represents the MOOB (extent offset bit) of the first track group sniffed while in "GCRATE=FAST" mode. See \$SNIFAST flag bit. A zero value in this field means that no "GCRATE=FAST" has ever been done since the last cold start. This field is meaningless unless the \$SNIFAST flag is set.</p> <p>This field is set to the current \$LASNIFF as soon as the \$SNIFAST bit is set. The high order value of STCK is stored in \$FASNIFF when "GCRATE=FAST" ends for diagnostic purposes.</p> <p>NOTE GCRATE - Garbage Collection RATE (internally sniff fast).</p>					
3718	(E86)	BITSTRING	6	\$FASNIFL	Extent number, Extent TG offset and bit of first trackgroup examined by sniffer in "fast" mode
3724	(E8C)	SIGNED	4	\$TIPSJBN	TIPS Job number
3728	(E90)	DBL WORD	8	\$CLASDUP(0)	Classes with CAT3DUOK on
3736	(E98)	SIGNED	2	\$JQXSIZE	JQX array entry size.
3738	(E9A)	SIGNED	2	\$RCDSIZE	RECY array entry size.
3740	(E9C)	SIGNED	2	\$JOXSIZE	JOX array entry size.
3742	(E9E)	BITSTRING	1	\$JXFLAG	JOE index control flags
		1...		\$JXFCRT	"B'10000000" JOE index was created
		.1..		\$JXFACT	"B'01000000" JOE index is active (up to date)
		..1.		\$JXFBLD	"B'00100000" Build is in progress
3743	(E9F)	ADDRESS	1	\$RJOBOP2	Ckpted job options
		1...		\$LOGFOLD	"B'10000000" Fold JESYSMSG output
		.1..		\$PRECHECK	"B'01000000" NJE Precheck dubious jobs
		..1.		\$VFYSUBN	"B'00100000" NJE verify subnet paths

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1		\$HTTPNFY	"B'00010000'" Enable job notifications via HTTP POST
3744	(EA0)	ADDRESS	4	\$ZJCNUM	Number of Zone Job Container (ZJC) objects in the ZJC CTENT.
The following fields are only written to the checkpoint in z22 \$ACTIVATE mode.					
3748	(EA4)	SIGNED	4	\$CONJNUM	Number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set
3752	(EA8)	ADDRESS	4	\$ZODJNUM	Number of jobs allowed to be defined in a JOBGROUP
3756	(EAC)	BITSTRING	1	\$PRAFLAG	Privilege control flags
		1...		\$PRASUSP	"B'10000000'" Privilege support has been suspended due to reason code in \$PRAERR. Warm start required to fix.
		.1..		\$PRAO0FF	"B'01000000'" Privilege support has been turned off due to operator request.
		..1.		\$PRASMAL	"B'00100000'" Privilege small environment active
3757	(EAD)	BITSTRING	1	\$PRERR	Reason privilege support was suspended - see error reason codes in \$PRA
3758	(EAE)	ADDRESS	1	\$PRINCNT	Number of MAS wide PRAOBJ fetches - since priv resources have been checked for activation/ reset eligibility
3759	(EAF)	BITSTRING	1		Reserved for future use
3760	(EB0)	BITSTRING	2		Reserved (was half of \$DADFRCT)
3762	(EB2)	SIGNED	2	\$CDILEN	Length of CDI entry
3764	(EB4)	SIGNED	4	\$CDINUM	Current nr of CDI entries
3768	(EB8)	SIGNED	4	\$CDTLEN	Current length of CDT area
\$MAXLVL is the highest level of JES2 to have ever completed a warm/cold start on this checkpoint. (this value goes up but never does down)					
3772	(EBC)	BITSTRING	2	\$MAXLVL	Highest level of JES2
3774	(EBE)	SIGNED	2	\$RGDLEN	Length of RGD entry
3776	(EC0)	SIGNED	4	\$RGDNUM	Current nr of RGD entries
3780	(EC4)	ADDRESS	2	\$JQYSIZE	JQY array entry size
3782	(EC6)	ADDRESS	2	\$JQSSIZE	JQS array entry size
3784	(EC8)	ADDRESS	4	\$DRXNUM	Current number of DRINDEX entries
3788	(ECC)	ADDRESS	2	\$DRIXLEN	Length of a DRX (DRINDEX entries)
3790	(ECE)	ADDRESS	2	\$DRIXPLN	Length of the DRX prefix area
The following 2 fields are used for \$HASP050 processing					
3792	(ED0)	ADDRESS	2	\$DRXPRCT	DRX threshold percentage
3794	(ED2)	BITSTRING	1	\$DRSYSID	SYSID for DRX message
3795	(ED3)	BITSTRING	1		Reserved
3796	(ED4)	SIGNED	4	\$DRTMLEN	Length of DRTM (Repository Track Map CTENT)
3800	(ED8)	ADDRESS	2	\$DRTMPLN	Length of the DRTM prefix area

Table 231. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3802	(EDA)	BITSTRING	2		Reserved
3804	(EDC)	SIGNED	4	(11)	Reserved for future use
3848	(F08)	SIGNED	4	\$SAVEEND_Z22(0)	Z22 end of CKPTed HCT
3848	(F08)	X'2D8'	0	\$SAVELEN_Z22	"\$SAVEEND_Z22-\$SAVEBEG" Length of z22 checkpointed HCT
The following fields are only written to the checkpoint in z32 \$ACTIVATE mode.					
3848	(F08)	SIGNED	4	(12)	Reserved for future use
3896	(F38)	SIGNED	4	\$SAVEEND(0)	z/OS 3.2 end of CKPTed HCT
3896	(F38)	X'308'	0	\$SAVELEN_Z32	"\$SAVEEND-\$SAVEBEG" Length of z/OS 3.2 checkpointed HCT
3896	(F38)	X'308'	0	\$SAVELEN	"\$SAVEEND-\$SAVEBEG" Length of z/OS 3.2 checkpointed HCT
HASP R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S() HALFWORDS, NOT ZEROS, IN THIS AREA.					
3896	(F38)	X'C8'	0	\$HCTPSZ	"4096-(*-HCT) "
3896	(F38)	BITSTRING	1	\$PATCHSP(0)	DEFINE PATCH SPACE
3896	(F38)	X'1000'	0	\$HCTLEN	"*-HCT" LENGTH OF ENTIRE HCT

Table 232. Cross Reference for \$HCT

Name	Offset	Hex Tag
\$#INDEXA	228	
\$ABDNBUF	4A6	0
\$ACCMBAD	934	
\$ACTABLE	168	
\$ACTIGN	405	80
\$ACTIVE	8CC	
\$ACTREQ	405	40
\$ACTRNUM	E8	
\$ACTVFSS	8D0	
\$ADDSYNS	404	80
\$ADVENCA	E26	40
\$ADVENCs	E26	80
\$ADV FALL	E26	20
\$AFFINTY	8B5	0
\$AFFLEN	8AC	
\$AFFLENH	8AC	8AE
\$ALIPCE	B80	
\$ALLFFS	770	FFFFFFFF
\$AMWMNAM	E40	40404040
\$APPLTBL	16C	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$AQSE	170	
\$ARMPCE	B60	
\$ARMVR	660	8
\$ASVMAXU	4DE	0
\$ASYNQ	174	
\$ASYNPCE	9E0	
\$ASYPCIQ	178	
\$AUTOINV	3F4	
\$AUTONJE	8B1	10
\$AUTORST	8B1	8
\$BADJNC	E52	6F
\$BADTRTG	360	
\$BERTESH	E7E	8
\$BERTHRS	66B	0
\$BERTMIN	E7E	10
\$BERTNNM	8B1	2
\$BERTNUM	E64	0
\$BERTPTR	17C	
\$BERT16	E7E	20
\$BERT255	E7E	80
\$BFSZBSC	532	208
\$BFSZPP	536	0
\$BFSZSNA	534	190
\$BFXLGRQ	47C	0
\$BFXNWB	47A	0
\$BFXPRCT	472	50
\$BFXWBF	478	0
\$BITSONA	180	
\$BLANKS	708	40404040
\$BRTCLN	8B1	80
\$BRTDTYP	929	0
\$BRTFREC	94C	
\$BRTPRCT	DDD	
\$BSCCHEQ	330	
\$BSCFREC	45A	0
\$BSCLGRQ	460	0
\$BSCNWB	45E	0
\$BSCPRCT	456	50
\$BSCPRIV	458	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$BSCWBF	45C	0
\$BSPGCT	53C	
\$BSPNTE	53D	
\$BSPSIZ	53E	1C
\$BTSYSID	DDC	0
\$BUFLENG	8C8	0
\$BUFLGRQ	46E	0
\$BUFNWBF	46C	0
\$BUFPRCT	464	50
\$BUFPRIV	466	0
\$BUFSIZE	E4E	F98
\$BUFWBF	46A	0
\$BUFXPRI	474	0
\$BUSYQUE	184	
\$BUSYRQ	188	
\$CATCACH	6E4	
\$CATMAX	8B0	4
\$CATQUE	18C	
\$CCMAUTO	E23	4
\$CCOMCH	541	5B
\$CCOMCHR	50D	5B
\$CDCPCE	B98	
\$CDILEN	EB2	0
\$CDINUM	EB4	0
\$CDIPTR	C18	
\$CDTLEN	EB8	0
\$CDTPTR	C20	
\$CF1VOL	DFD	40
\$CF2VOL	DFD	20
\$CHLOG	190	
\$CHLOGLN	C3C	
\$CHLOGSZ	8EC	0
\$CIPERAS	3FE	
\$CKG1	194	
\$CKG2	198	
\$CKLEVNM	3B8	3BC
\$CKOLDLV	3C0	
\$CKOPVER	DFD	10
\$CKPCTPW	DFE	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$CKPTDPS	664	10
\$CKPTDPY	664	8
\$CKPTDWN	664	80
\$CKPTFG1	664	39
\$CKPTFG2	665	0
\$CKPTFG3	666	0
\$CKPTFG4	667	0
\$CKPTFG5	66A	0
\$CKPTFLG	C43	0
\$CKPTLDP	664	1
\$CKPTLEV	3B8	0
\$CKPTLOC	669	0
\$CKPTLVP	3B8	3B8
\$CKPTMSG	664	40
\$CKPTOAC	874	
\$CKPTONX	878	
\$CKPTPCE	A18	
\$CKPTPRI	664	2
\$CKPTQHD	1A0	
\$CKPTTEK	664	4
\$CKPTTMD	664	20
\$CKPTUPD	C39	0
\$CKPUSER	C44	0
\$CKRECS	DC0	0
\$CKREFHC	DFD	8
\$CKTSEQN	C40	0
\$CKW	1A4	
\$CK1DFLT	664	39
\$CK2CKPW	665	10
\$CK2DIAG	665	80
\$CK2EXTN	665	20
\$CK2INIT	665	40
\$CK3ACTV	666	1
\$CK3BYLK	666	40
\$CK3CHLG	666	20
\$CK3KRD1	666	80
\$CK34KPG	666	10
\$CK4CKAB	667	1
\$CK4CKPC	667	2

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$CK4HRVS	667	4
\$CK40PRQ	667	8
\$CK40PVN	667	10
\$CK40PVY	667	20
\$CK5ACT	66A	40
\$CK5QMOD	66A	20
\$CK5QSUS	66A	80
\$CLASDUP	E90	
\$CLCB	19C	
\$CLOCK	7E0	0
\$CLRECN	E04	0
\$CMBFREC	4B6	0
\$CMBLIM	4B0	0
\$CMBPRCT	4AE	
\$CMDPRCT	4AA	
\$CNVSCHE	E23	20
\$CNVTWEE	DFC	4
\$COLDDTM	E28	0
\$COLDJSN	E06	D1C5E2F2
\$COLDJSP	E13	40C3D6D3
\$COLDSID	E1E	
\$COLDVSN	E0B	40404040
\$COMEXTN	1A8	
\$COMMABT	662	20
\$COMMDWN	662	80
\$COMMFG1	662	0
\$COMMPCE	9D0	
\$COMMQTP	1B0	
\$COMMQUE	1AC	
\$COMMWAT	662	40
\$CONJNUM	EA4	0
\$CONSETP	E23	2
\$CPTMAP	1C0	
\$CPTPOOL	1C4	
\$CREATE	403	1
\$CTBADA	55C	
\$CTLBLEN	8AC	4
\$CTLBLNH	8B2	4
\$CURPCE	BD8	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$CYLMAPL	8A4	
\$DADEBAD	1C8	
\$DADFMEM	C6	0
\$DADFRCT	D0	0
\$DASAREA	1CC	
\$DASEXSZ	E7F	
\$DASEXT	1D4	
\$DASFRST	1D0	
\$DASTRKQ	DC8	0
\$DASWRKQ	DC4	0
\$DATAKEY	DCC	0
\$DAWNPCE	B90	
\$DBGALL	417	FF
\$DCTPOL2	954	
\$DCTPOOL	950	
\$DDSEGLM	3E8	
\$DEBGOPS	416	80
\$DEBGOP2	417	
\$DEBGOP3	9CE	0
\$DEBGOP4	9CF	0
\$DELAYTM	3C8	
\$DESTDLG	E60	4
\$DESTFLG	E60	0
\$DESTNNN	E60	80
\$DESTNNR	E60	2
\$DESTRMN	E60	20
\$DESTRMT	E60	10
\$DESTRNN	E60	40
\$DESTUNN	E60	8
\$DIAGTBL	104	
\$DILHEAD	E0	
\$DILPCE	B78	
\$DILTAIL	E4	
\$DISPACE	4CA	A
\$DISPCNT	4C8	0
\$DISPSVA	870	
\$DLSPCE	AA8	
\$DMNDSET	403	4
\$DOMIDN	504	2

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$DOMID1	500	
\$DOMQUE	1D8	
\$DOMQUEA	1DC	
\$DOUBLE	6B8	0
\$DPCEACT	5C0	
\$DPCEALC	5BA	
\$DPCEDEF	5B8	
\$DPCEDSF	5C4	C
\$DPCEDSM	5C4	4
\$DPCEDSN	5C4	8
\$DPCEDSO	5C4	14
\$DPCEDSX	5C4	18
\$DPCEDSY	5C4	10
\$DPCEEND	5BC	
\$DPCEFLG	5C4	
\$DPCELEN	5C4	D
\$DPCETMD	5C4	20
\$DPCETMX	5C4	C0
\$DPCETOF	5C4	40
\$DPCETON	5C4	80
\$DPCETSF	5C4	60
\$DPCETSO	5C4	A0
\$DREPCB	1E0	
\$DREPPCE	A48	
\$DRIXLEN	ECC	
\$DRIXPLN	ECE	
\$DRIXPTR	1E8	
\$DRQUES	C0C	
\$DRSYSID	ED2	0
\$DRTMLEN	ED4	0
\$DRTMPCE	BB8	
\$DRTMPLN	ED8	
\$DRTMPTR	1F0	
\$DRXJQE	D44	0
\$DRXNUM	EC8	
\$DRXOFF	E25	20
\$DRXPRCT	ED0	
\$DSPXITA	7C	
\$DSTRSTK	160	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$DTEALOC	11C	
\$DTEASST	128	
\$DTECKCF	144	
\$DTECKDA	148	
\$DTECKVR	140	
\$DTECNVT	138	
\$DTEEOM	150	
\$DTEGSUB	14C	
\$DTEIMAG	118	
\$DTELAST	114	
\$DTELM	154	
\$DTELIST	60E	5D0
\$DTELIST2	5E5	5D0
\$DTELSTF	5D0	
\$DTELST2	5D0	
\$DTEMIG	124	
\$DTEOFF	13C	
\$DTEORG	110	
\$DTESMF	12C	
\$DTESPOL	120	
\$DTEVTM	130	
\$DTEWTO	134	
\$DWAHEAD	B8	
\$DWATAIL	BC	
\$DWORK	6C0	0
\$DWORK2	6C8	0
\$D1	784	
\$ECBEXTN	78	1800000
\$ECKTRMJ	660	1
\$EDSGPTS	3FC	80
\$EDSPCE	BA8	
\$EDSSTAT	3FC	0
\$EMEMAFF	1F8	0
\$ENFJPLX	E23	8
\$ENFPCE	A30	
\$ENHJBS	E25	2
\$EOMPCE	B88	
\$ERDM497	500	
\$ERDOMID	930	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$ERRAFF	8F4	
\$ERRBEAR	5A0	0
\$ERRCODE	910	0
\$ERREOPT	918	
\$ERRERPL	8F0	
\$ERRJQE	914	
\$ERRREGS	8F8	
\$ERRREG0	8F8	900
\$ERRTABA	1FC	
\$ERRTRCA	8E4	
\$ESQLEN	C5A	
\$ESQNUM	E50	
\$ESQPTR	5A8	
\$ESTBYTE	424	
\$ESTIME	448	
\$ESTIM9L	448	4
\$ESTLNCT	430	
\$ESTLN9L	430	6
\$ESTMX9L	424	6
\$ESTPAGE	418	
\$ESTPG9L	418	8
\$ESTPN9L	43C	8
\$ESTPUN	43C	
\$ESTTCNT	418	5
\$EST1	418	
\$EVTLOFF	E25	80
\$EVTLRST	E24	20
\$EVTLSMF	E24	80
\$EVTLTRC	E24	10
\$EVTLUSR	E24	8
\$EXCPCT	91C	0
\$EXCPEXA	8C	
\$EXECDUP	DFC	8
\$EXECDWN	663	80
\$EXECEDS	663	20
\$EXECFG1	663	0
\$EXECPCCE	9D8	
\$EXECSPN	663	40
\$EXTECBQ	C04	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$EZAADDR	200	
\$FASNIFL	E86	0
\$FCLPCE	B40	
\$FLAGA	E26	0
\$FLAG1	DFC	0
\$FLAG2	DFD	18
\$FLAG3	E53	A0
\$FLAG4	E7E	0
\$FLAG5	E23	0
\$FLAG6	E24	0
\$FNCCNT	DDF	0
\$FREEJOE	EC	
\$FSSETIM	920	
\$F0	784	0
\$F1	788	1
\$F15	7A8	F
\$F2	78C	2
\$F255	7AC	FF
\$F3	790	3
\$F4	794	4
\$F4096	7B0	1000
\$F5	798	5
\$F6	79C	6
\$F65535	7B4	FFFF
\$F7	7A0	7
\$F8	7A4	8
\$GENGRD	65C	CC33AA55
\$GENSYS	5D0	0
\$GENWORK	5D0	
\$GENWRKL	65C	8C
\$GENWTHT	5D4	
\$GENWTHW	5D8	
\$GENWTJN	5DC	
\$GRWORK	20C	
\$GTWKTAB	208	
\$HASCB	210	
\$HASPDCB	214	
\$HASPECB	74	
\$HASPECF	BE8	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$HASPID	DD0	D1C5E2F2
\$HASPMAP	64	
\$HASPPRM	2D4	C8C1E2D7
\$HASPRB	218	
\$HASPTCB	21C	
\$HASP051	940	0
\$HCCT	328	
\$HCTLEN	F38	1000
\$HCTPSZ	F38	C8
\$HETOKEN	8E8	0
\$HEXTRAN	7B8	6CC
\$HFAM	220	
\$HIBITOF	77C	77C
\$HIBITON	7B8	80000000
\$HIGHVER	DF0	6A
\$HOPERSW	E23	1
\$HTDIST	542	A
\$HTTPNFY	E9F	10
\$H0	784	786
\$H1	788	78A
\$H2	78C	78E
\$H255	7AC	7AE
\$H3	790	78F
\$H4	794	796
\$H4096	7B0	7B2
\$H5	798	79A
\$H6	79C	79E
\$H7	7A0	7A2
\$H8	7A4	7A6
\$ICEFREC	4A2	0
\$ICEFRZC	4A4	0
\$ICELIM	4A0	0
\$ICELOST	224	
\$ICEPRCT	49E	50
\$IMAGE	158	
\$INCHECK	8CA	80
\$INCNCKD	8CA	40
\$INIWARM	22C	
\$INTRDCB	660	4

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$IPCSLVL	61	
\$IRCPCE	A58	
\$JAXPTR	108	
\$JCLPCE	A68	
\$JCMDPCE	B48	
\$JCOPYLM	540	
\$JESACCT	230	
\$JESSECL	240	40404040
\$JESTOKA	234	
\$JESUSER	238	40404040
\$JES2_LEVEL	368	
\$JHISTRY	E25	10
\$JHSTRYR	E25	8
\$JINITIP	8B0	40
\$JIXMPCN	E61	0
\$JNEW	248	
\$JNOPRCT	D33	
\$JNSYSID	D32	0
\$JNTPTR	24C	
\$JNTSIZE	E62	
\$JOABTYP	8B4	FF
\$JOBQPTR	254	
\$JOEIPCE	BA0	
\$JOEPRCT	D30	
\$JOSYSID	D2F	0
\$JOTABLE	258	
\$JOTPOST	25C	
\$JOXPTR	278	
\$JOXSIZE	E9C	0
\$JQCLSSZ	C60	90
\$JQEEXFR	D28	0
\$JQEEXT	260	
\$JQEFRCN	E74	0
\$JQEFUDG	372	0
\$JQELEN	D24	0
\$JQEMSKL	D26	3
\$JQENUM	E78	
\$JQEPRCT	D2D	
\$JQFREEI	C5C	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$JQHEADI	C60	
\$JQHEADL	C60	4
\$JQRBDTY	D1C	30
\$JQRBLDI	D1C	
\$JQRBRSW	8CA	2
\$JQRPCE	A38	
\$JQSPTR	270	
\$JQSSIZE	EC6	
\$JQSYSID	D2C	0
\$JQTYPES	C60	2F
\$JQXPTR	264	
\$JQXSIZE	E98	0
\$JQYPTR	268	
\$JQYSIZE	EC4	
\$JSAPTR	27C	
\$JSPL	7D8	7D7
\$JSPLL	7D7	
\$JSPLV	7D8	D1C5E2E2
\$JWEHAVT	284	
\$JWELTBL	280	
\$JXFACT	E9E	40
\$JXFBLD	E9E	20
\$JXFCRT	E9E	80
\$JXFLAG	E9E	0
\$J2CLJBP	408	0
\$J2CLMSG	408	1
\$J2CLNFY	408	3
\$J2CLNTA	408	2
\$J2CLOPT	408	FFFFFFFF
\$J2CLOP1	408	408
\$J2CLOP2	408	409
\$J2CLOP3	408	40A
\$J2CLOP4	408	40B
\$J2CLOUT	408	4
\$J2CLPRY	408	5
\$J2CLRTE	408	6
\$J2CLSET	408	7
\$J2CLXEQ	408	8
\$J2CLXMT	408	9

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$J3CLDS	40C	1
\$J3CLEDS	40C	2
\$J3CLEPR	40C	9
\$J3CLFMT	40C	3
\$J3CLMN	40C	0
\$J3CLNET	40C	4
\$J3CLNTA	40C	5
\$J3CLOPR	40C	6
\$J3CLOPT	40C	0
\$J3CLOP1	40C	40C
\$J3CLOP2	40C	40D
\$J3CLOP3	40C	40E
\$J3CLOP4	40C	40F
\$J3CLPAU	40C	7
\$J3CLPRC	40C	8
\$J3CLRTE	40C	A
\$KFCFLG7	E25	32
\$KITNUM	3CC	
\$KITNUM2	D22	0
\$KITPTR	288	
\$LASNIFL	E80	0
\$LASTAMW	E3C	0
\$LASTCLD	E30	0
\$LASTSPV	E34	0
\$LBFREC	468	0
\$LBXFREC	476	0
\$LCKPTR	28C	
\$LCLADCT	9B4	
\$LDSRENA	E23	40
\$LDVCACH	9A0	
\$LEVEL	368	A961D6E2
\$LIMPTR	5B0	
\$LINECT	406	
\$LIRCT	550	1
\$LMTPBOT	70	
\$LMT1	68	
\$LMT1C	6C	
\$LNEDCT	968	
\$LOCKOUT	3D0	3E8

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$LOGFOLD	E9F	80
\$LOGNDCT	970	
\$LOWVER	DF1	6A
\$LSEPDBL	4F6	10
\$LSEPFUL	4F6	20
\$LSEPHAF	4F6	40
\$LSEPNON	4F6	80
\$LSPTR	290	
\$MACVERS	60	F6
\$MAILMSG	407	80
\$MAINSTK	15C	
\$MASACTV	DFC	20
\$MASECF	BF0	0
\$MASPOST	8C6	0
\$MASTER	294	
\$MASTERI	298	
\$MASTERL	C34	0
\$MASVER	DF0	
\$MAXCMCT	91F	
\$MAXDBLE	77C	7FFFFFFF
\$MAXDELT	3EC	78
\$MAXDORM	3E4	1F4
\$MAXEXSZ	D2A	4E20
\$MAXFAIL	4EC	0
\$MAXFULL	77C	77C
\$MAXHALF	77C	77C
\$MAXHOP	3F2	0
\$MAXINT	3DC	
\$MAXLVL	EBC	0
\$MAXMSGQ	3EE	C8
\$MAXPART	546	3
\$MAXREST	8BC	
\$MAXSESS	49C	0
\$MAXVUSE	4E8	0
\$MCJCLAS	E7E	1
\$MCONACT	661	80
\$MCONFIG1	661	0
\$MCONMSG	29C	
\$MCONNPM	661	20

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$MCONPCE	A20	
\$MCONWAT	661	40
\$MCONWPM	661	10
\$MCT	F4	
\$MG607FL	4BA	
\$MG607F1	4BA	0
\$MG607F2	4BB	0
\$MG607TM	4BC	0
\$MIGRIOQ	1B8	
\$MIGRQCD	1B8	
\$MIGRQSQ	1BC	
\$MINDORM	3E0	64
\$MINHOLD	3D4	5F5E0FF
\$MINUS1	770	770
\$MINUS2	774	FFFFFFFE
\$MISCPCE	A40	
\$MLBFSIZ	530	190
\$MLLMECF	BF8	0
\$MLLMPCE	A08	
\$MLNEDCT	96C	
\$MODREFR	8B1	4
\$MSAVE	66C	
\$MSKNODE	8DC	80402010
\$MSTHCTL	C3A	308
\$MSTRHI	C38	B
\$MSTRID	C30	D4E2E3D9
\$MSTRVER	C38	
\$MSTRVRN	C38	6
\$MSTRVR4	C38	7
\$MSTRV12	C38	8
\$MSTRZ11	C38	9
\$MSTRZ2	C38	8
\$MSTRZ22	C38	A
\$MSTRZ32	C38	B
\$MVFENCE	DFC	10
\$MVSDISP	7F8	
\$MVSPSEQ	3F8	
\$MVSWAIT	7E8	
\$MWORK	2A0	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$M581DVN	5B8	
\$M581ERR	5C4	
\$M581FGF	5C8	80
\$M581FLG	5C8	
\$M581FL1	5C8	40
\$M581FL2	5C8	20
\$M581FNT	5C8	10
\$M581INF	5C6	
\$M581RC	5C0	
\$M607AAS	4BB	40
\$M607ACM	4BB	8
\$M607ACT	4BA	20
\$M607CKR	4BB	2
\$M607CRS	4BA	4
\$M607DIL	4BB	10
\$M607ESP	4BB	80
\$M607HLD	4BA	10
\$M607IO	4BA	80
\$M607LCK	4BA	8
\$M607NET	4BB	20
\$M607PCE	4BA	1
\$M607SPM	4BB	4
\$M607SPN	4BA	2
\$M607WTO	4BA	40
\$NDDOMID	938	
\$NDENAME	DD4	40404040
\$NENFINP	3FD	
\$NETACCT	2A4	
\$NETDCTS	980	
\$NETLDCT	97C	
\$NETLNES	9C0	0
\$NEWSCLV	C54	0
\$NEWSIOT	C50	0
\$NEWSJQE	C4C	0
\$NEWSLVL	C56	0
\$NHBFREC	492	0
\$NHBLGRQ	498	0
\$NHBLIM	490	0
\$NHBNWBF	496	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$NHBPRCT	48E	50
\$NHBWBF	494	0
\$NIPFCB	520	5C5C5C5C
\$NIPFLSH	528	5C5C5C5C
\$NIPUCS	524	C7C6F1F0
\$NITABLE	2A8	
\$NITCPTR	2AC	
\$NITCSEQ	2B0	0
\$NITECNT	94A	0
\$NITESIZ	8C4	0
\$NJEADCT	9A4	
\$NJEOPTS	407	
\$NJRPE	AD8	
\$NJTPCE	AC8	
\$NMSGFRE	4C4	0
\$NMSGNUM	4C0	0
\$NMSGPRC	4B8	
\$NODEID	E58	1
\$NODETOL	8C2	0
\$NODREST	8C0	64
\$NONPNJE	E25	40
\$NONSHR	DFC	40
\$NOPRCCW	4F4	
\$NOPUCCW	4F5	
\$NOSNQ	E25	4
\$NPMPE	B08	
\$NRMPE	B10	
\$NRRPE	B18	
\$NRTPCE	B20	
\$NSRPE	AF8	
\$NSTPCE	AE8	
\$NUCFIXD	2B4	
\$NUMACE	544	14
\$NUMALI	B84	10000
\$NUMARM	B64	10000
\$NUMASYN	9E4	10000
\$NUMAUTO	3F6	0
\$NUMBSC	454	0
\$NUMBUF	462	FFFF

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$NUMBUF	470	FFFF
\$NUMCDC	B9C	10000
\$NUMCKPT	A1C	10000
\$NUMCMBS	4AC	64
\$NUMCMDS	4A8	0
\$NUMCNVT	A6C	A0000
\$NUMCOMM	9D4	
\$NUMCPTS	3AE	0
\$NUMDAWN	B94	10000
\$NUMDIL	B7C	70000
\$NUMDLSP	AAC	10000
\$NUMDREP	A4C	10000
\$NUMDRTM	BBC	10000
\$NUMEDS	BAC	10000
\$NUMENF	A34	10000
\$NUMEOM	B8C	30000
\$NUMEVTL	9FC	10000
\$NUMEXEC	9DC	10000
\$NUMFAIL	4F0	0
\$NUMFCL	B44	10000
\$NUMIRC	A5C	20000
\$NUMJCMD	B4C	10000
\$NUMJOEI	BA4	10000
\$NUMJOES	E54	
\$NUMJQR	A3C	A0000
\$NUMLDEV	9CA	
\$NUMLNES	9BC	0
\$NUMLOGS	9C2	0
\$NUMMCON	A24	10000
\$NUMMISC	A44	10000
\$NUMMLLM	A0C	10000
\$NUMMLNE	9BE	0
\$NUMNHB	48C	FFFF
\$NUMNJR	9CB	
\$NUMNJRS	ADC	0
\$NUMNJT	9CA	
\$NUMNJTS	ACC	0
\$NUMNODE	E44	1
\$NUMNPM	B0C	10000

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$NUMNRM	B14	10000
\$NUMNRR	B1C	0
\$NUMNRT	B24	0
\$NUMNSR	9CD	
\$NUMNSRS	AFC	0
\$NUMNST	9CC	
\$NUMNSTS	AEC	0
\$NUMOFFS	9C6	0
\$NUMOJRS	AE4	0
\$NUMOJTS	AD4	0
\$NUMOSRS	B04	0
\$NUMOSTS	AF4	0
\$NUMOUT	A7C	A0000
\$NUMPATH	3F0	1
\$NUMPCY	BB4	10000
\$NUMPRTS	A84	0
\$NUMPRTY	AB4	10000
\$NUMPRYO	ABC	10000
\$NUMPSO	A74	20000
\$Numpuns	A94	0
\$Numpurg	AA4	A0000
\$NUMRDRS	A54	0
\$NUMRESM	B2C	10000
\$NUMSFS	A2C	10000
\$NUMSMFB	4CC	5
\$NUMSNF	B6C	20000
\$NUMSOM	A14	10000
\$NUMSPI	B74	A0000
\$NUMSPIN	B3C	30000
\$NUMSPOL	A04	10000
\$NUMSRVS	9C4	0
\$NUMSTAC	B34	20000
\$NUMTG	E5C	
\$NUMTIMR	9F4	10000
\$NUMTPPR	A8C	0
\$NUMTPPU	A9C	0
\$NUMTPRD	A64	0
\$NUMVTAM	47E	0
\$NUMWARM	AC4	10000

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$NUMXCF	B54	10000
\$NUMXCM	B5C	10000
\$NUMXTIM	9EC	10000
\$NWECEB	90	
\$OFFADCT	9AC	
\$OFFDCT	98C	
\$OJRDCT	990	
\$OJRPCE	AE0	
\$OJTDCT	998	
\$OJTPCE	AD0	
\$OLDDCTS	988	
\$OPSPJNO	E00	0
\$OPTCOLD	400	40
\$OPTCONS	400	2
\$OPTFMT	400	80
\$OPTINTR	405	10
\$OPTLIST	400	10
\$OPTLOG	400	8
\$OPTQWIK	400	1
\$OPTREQ	400	20
\$OPTSTAT	400	38
\$OPTSTA1	401	0
\$OPTSTA2	3FF	
\$OPTSTD	400	38
\$OPT1STD	401	0
\$OP1CKPT	401	40
\$OP1PJS2	401	20
\$OP1SFCE	401	8
\$OP1SPEC	401	80
\$OP1SVAL	401	10
\$OP1SVLH	401	2
\$OP1UNAC	401	4
\$OP2COMP	3FF	80
\$OP2FULF	3FF	40
\$ORIGMHD	3D8	0
\$OSRDCT	994	
\$OSRPCE	B00	
\$OSTDCT	99C	
\$OSTPCE	AF0	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$OUTPCE	A78	
\$OWNNIT	88C	
\$OWNNODE	898	1
\$PADDR	2BC	
\$PATCHSP	F38	0
\$PBELST	944	
\$PCEASYN	8C7	80
\$PCEHCTA	9CF	2
\$PCEHCTC	9CF	4
\$PCEHCTD	9CF	0
\$PCEHCTE	9CF	8
\$PCEHCTP	9CF	0
\$PCELAST	BD4	
\$PCEORG	BD0	
\$PCEPOST	8C7	0
\$PCEPRIX	8C7	40
\$PCEPSTC	BDC	
\$PCYPCE	BB0	
\$PCYSYNC	8CA	20
\$PCYSYNE	8CA	4
\$PDYNDET	8B1	20
\$PERFCB	2C0	
\$PITABLE	2CC	
\$PITNUM	948	0
\$PLVL	370	
\$PLXDYNI	358	0
\$POLCYDD	2C4	
\$POSTELS	9D0	
\$POSTEXA	84	
\$POSTLST	BBC	BB8
\$POSTSAV	688	0
\$PPBSIZE	3AC	
\$PRAFLAG	EAC	0
\$PRA0OFF	EAC	40
\$PRAPTR	F8	
\$PRASMAL	EAC	20
\$PRASUSP	EAC	80
\$PRCJ3CL	405	8
\$PRECHEK	E9F	40

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$PRERR	EAD	0
\$PRFDATA	2C8	
\$PRFXFLG	50F	20
\$PRIHIGH	DF4	
\$PRILOW	DF5	
\$PRINCNT	EAE	
\$PRIOOPT	402	2
\$PRIOUT	3B0	
\$PRIRATE	DF2	0
\$PRMDEND	5E0	80
\$PRMDFLG	5E0	
\$PRMDINX	5D8	
\$PRMDSAV	5D0	
\$PRMDTBL	2D0	
\$PRMDWKL	5E0	11
\$PRMMEMB	2DC	40404040
\$PROCDDN	2B8	0
\$PROCDFI	660	3
\$PROCESS	660	3
\$PRODISP	660	10
\$PRONEWS	660	80
\$PRORATE	DF6	0
\$PRPUSRV	F0	
\$PRSCNWB	660	20
\$PRTBOPT	403	80
\$PRTCALL	50C	80
\$PRTDCT	95C	
\$PRTFCB	518	F6404040
\$PRTOPTS	403	
\$PRTOPT2	50C	80
\$PRTPCE	A80	
\$PRTRANS	403	8
\$PRTUCS	51C	F0404040
\$PRTYJOB	402	1
\$PRTYOHI	DF8	FF0
\$PRTYOLO	DFA	0
\$PRTYOUT	402	4
\$PRTYPCE	AB0	
\$PRUNSP	DFC	1

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$PRYOPCE	AB8	
\$PSOPCE	A70	
\$PSOTOK	DC	
\$PSWAMOD	852	
\$PSWMODE	851	
\$PSWSAVE	850	
\$PUNBOPT	403	40
\$PUNCT	960	
\$PUNPCE	A90	
\$PURGPCE	AA0	
\$QINDEXA	2E4	
\$QSELEN	C58	C8
\$QSEMAX	DBC	20
\$QSENDEF	DBE	1
\$QSE1	2E8	
\$QVERDAT	410	0
\$QVERRSN	414	
\$QVRFZLP	414	7A
\$QVRINLP	414	7C
\$QVRNART	414	C
\$QVRNBDB	414	53
\$QVRNBDC	414	6
\$QVRNBDF	414	7
\$QVRNBFI	414	8
\$QVRNBDQ	414	5
\$QVRNBFR	414	51
\$QVRNBIM	414	52
\$QVRNBIE	414	5C
\$QVRNBIF	414	5A
\$QVRNBIFH	414	5B
\$QVRNBNI	414	55
\$QVRBNQ	414	54
\$QVRNBOE	414	5E
\$QVRNBOH	414	5D
\$QVRNBOR	414	5F
\$QVRNBQE	414	57
\$QVRNBQH	414	56
\$QVRNBQL	414	58
\$QVRNBQV	414	59

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$QVRNCER	414	61
\$QVRNCQ1	414	9A
\$QVRNCQ2	414	9B
\$QVRNCQ3	414	9C
\$QVRNCQ4	414	9D
\$QVRNCQ5	414	9E
\$QVRNCQ6	414	9F
\$QVRNCQ7	414	A0
\$QVRNCQ8	414	A1
\$QVRNDDI	414	74
\$QVRNDDN	414	76
\$QVRNDDT	414	75
\$QVRNDDX	414	77
\$QVRNDFI	414	3D
\$QVRNDFQ	414	3C
\$QVRNDFT	414	3E
\$QVRNDJA	414	1D
\$QVRNDJB	414	1E
\$QVRNDJC	414	1F
\$QVRNDJE	414	1C
\$QVRNDJF	414	20
\$QVRNDJN	414	18
\$QVRNDJQ	414	1A
\$QVRNDJX	414	19
\$QVRNDJZ	414	1B
\$QVRNDNP	414	73
\$QVRNDNX	414	3F
\$QVRNDPI	414	40
\$QVRNDPN	414	72
\$QVRNDPT	414	71
\$QVRNENF	414	43
\$QVRNETH	414	41
\$QVRNETO	414	42
\$QVRNFRC	414	3
\$QVRNFRE	414	2
\$QVRNJAR	414	AD
\$QVRNJBC	414	21
\$QVRNJCF	414	32
\$QVRNJDF	414	31

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$QVRNJEF	414	34
\$QVRNJI#	414	3B
\$QVRNJIN	414	3A
\$QVRNJJI	414	39
\$QVRNJJK	414	37
\$QVRNJJN	414	36
\$QVRNJJQ	414	35
\$QVRNJJR	414	38
\$QVRNJNX	414	2E
\$QVRNJOE	414	AE
\$QVRNJPF	414	30
\$QVRNJQC	414	12
\$QVRNJQL	414	16
\$QVRNJQO	414	15
\$QVRNJSF	414	33
\$QVRNJTE	414	1
\$QVRNJXE	414	A
\$QVRNJXM	414	B
\$QVRNJZD	414	2F
\$QVRNLDN	414	22
\$QVRNLJI	414	2C
\$QVRNMJN	414	9
\$QVRNNLG	414	2B
\$QVRNNTJ	414	2D
\$QVRNNTZ	414	27
\$QVRNOCC	414	8D
\$QVRNOCE	414	89
\$QVRNOCO	414	8A
\$QVRNOCQ	414	8B
\$QVRNOC1	414	8C
\$QVRNOC2	414	8E
\$QVRNOJE	414	82
\$QVRNORE	414	84
\$QVRNORQ	414	83
\$QVRNOR2	414	85
\$QVRNOR3	414	86
\$QVRNOR4	414	87
\$QVRNOR5	414	88
\$QVRNOTE	414	81

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$QVRNOWC	414	91
\$QVRNOWE	414	8F
\$QVRNOWQ	414	90
\$QVRNOW1	414	92
\$QVRNOW2	414	93
\$QVRNOW3	414	94
\$QVRNOW4	414	95
\$QVRNOW5	414	96
\$QVRNOW6	414	97
\$QVRNOW7	414	98
\$QVRNOW8	414	99
\$QVRNRQE	414	4
\$QVRNRSV	414	28
\$QVRNSDN	414	23
\$QVRNTCE	414	AC
\$QVRNTPE	414	A9
\$QVRNTP2	414	AA
\$QVRNTP3	414	AB
\$QVRNTQE	414	A2
\$QVRNTRE	414	A3
\$QVRNTR2	414	A4
\$QVRNTUE	414	A5
\$QVRNTU2	414	A6
\$QVRNTU3	414	A7
\$QVRNTU4	414	A8
\$QVRNWQE	414	10
\$QVRNWQN	414	11
\$QVRNWQP	414	13
\$QVRNWQX	414	14
\$QVRNWWQ	414	17
\$QVRNXTF	414	F
\$QVRNXTH	414	D
\$QVRNXTO	414	E
\$QVRNZAI	414	26
\$QVRNZFQ	414	25
\$QVRNZNF	414	24
\$QVRNZNX	414	2A
\$QVRNZRS	414	29
\$QVRORZD	414	7F

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$QVRORZI	414	79
\$QVRORZO	414	78
\$QVRZCOU	414	C3
\$QVRZDLP	414	7D
\$QVRZFRE	414	C1
\$QVRZIDX	414	C2
\$QVRZIXE	414	7E
\$QVRZJCT	414	80
\$QVRZJLP	414	7B
\$RASSIGN	660	2
\$RATABLE	2EC	
\$RBDM497	504	
\$RBFADDR	924	
\$RCDFRST	2F0	
\$RCDSIZE	E9A	0
\$RCOMCHR	50E	5B
\$RDRAREA	549	E9
\$RDRDCT	958	
\$RDRPCE	A50	
\$READY	C10	
\$READYF	C10	
\$READYL	C14	
\$REBLDS	D20	0
\$RECINCR	E5A	
\$REVCNT	8EE	0
\$REGSAVC	808	
\$REGSAVE	808	810
\$RESMPCE	B28	
\$RETRYCT	554	2
\$RGDLEN	EBE	0
\$RGDNUM	EC0	0
\$RGDPTR	C28	
\$RJEOPTS	404	
\$RJOB0PT	405	
\$RJOB0P2	E9F	
\$RMTDCTS	984	
\$RMTNUM	52C	0
\$RMTSON	2F8	
\$ROLLSAV	59C	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$ROUTDCT	964	
\$RPLCOMQ	2F4	
\$RPRBOPT	403	20
\$RPUBOPT	403	10
\$RSCTABL	D2C	
\$RSEPDBL	4F6	1
\$RSEPFUL	4F6	2
\$RSEPHAF	4F6	4
\$RSEPNON	4F6	8
\$RSLCONV	C5	20
\$RSLFLAG	C5	0
\$RSLOUTP	C5	40
\$RSLPRCH	C5	80
\$RSLSMAL	C5	10
\$RSOCLDP	D40	0
\$RSRVCKG	4F8	
\$RSV3	BC0	0
\$RTIMTAB	2FC	
\$RUNOPTS	402	2
\$RWL	94	
\$RWLNJRS	A4	
\$RWLNJTS	A8	
\$RWLNSRS	AC	
\$RWLNSTS	B0	
\$RWLPRTS	9C	
\$RWLPUNS	A0	
\$RWLRDRS	98	
\$SAPCACH	C0	
\$SAPTOK	D4	
\$SAVALST	304	
\$SAVAREA	300	
\$SAVEBEG	C30	
\$SAVEBOF	62	
\$SAVEEND	F38	
\$SAVEEND_Z22	F08	
\$SAVELEN	F38	308
\$SAVELEN_Z22	F08	208
\$SAVELEN_Z32	F38	308
\$SBMT	308	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$SCANMDL	558	64
\$SCANPDL	556	40
\$SCANWKA	5D0	
\$SCANXWA	5B8	40404040
\$SCANXWL	5CA	12
\$SCLPEND	508	
\$SCNDL16	5D0	5D0
\$SCNDL24	5D0	
\$SCNDWKA	5D0	5D0
\$SCNDWKB	5D0	5D8
\$SCNDWKC	5D0	5E0
\$SCNGRD	5CC	CC33AA55
\$SCNLLIM	5E8	
\$SCOPSPL	50F	10
\$SCOPSYS	50F	20
\$SCQADDR	310	
\$SCQJQE	D48	0
\$SCT	314	
\$SDCMBAD	93C	
\$SDQPTR	BC8	
\$SDWNFST	8B0	80
\$SEPPAGE	4F6	
\$SFSPCE	A28	
\$SFWA	30C	
\$SID	888	40404040
\$SIDBUSY	89A	
\$SIDINDX	89C	0
\$SIDTIME	880	0
\$SINGLE	6B8	6B8
\$SJFJDVT	8D4	0
\$SLSLEOF	405	4
\$SLVL	371	
\$SMFBUSY	318	
\$SMFFREC	4D2	0
\$SMFLIM	4D4	0
\$SMFPRCT	4CE	
\$SNFNSYM	DFD	1
\$SNFPCE	B68	
\$SNFZ7FS	0	1

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$SNIFAST	DFD	2
\$SNV	890	
\$SOCKETBL	320	
\$SOMPCE	A10	
\$SPFTIME	D38	0
\$SPINACT	4E7	
\$SPINJQE	660	40
\$SPINPCE	B38	
\$SPIPCE	B70	
\$SPLADRA	DFD	8
\$SPLADRS	DFD	4
\$SPLBYTS	E68	0
\$SPLDFAV	5BD	80
\$SPLDFFG	5BD	
\$SPLDFVO	5B8	
\$SPLEASA	E7E	2
\$SPLEASS	E7E	4
\$SPLEXST	D4C	0
\$SPLINAC	D8C	0
\$SPLIOER	164	A
\$SPLEN	E4B	
\$SPLLGDS	E53	80
\$SPLLGUS	E53	20
\$SPLMTT	E53	40
\$SPLNUMB	E4C	E4D
\$SPLSLCT	D6C	0
\$SPMSKWA	6E8	0
\$SPOFERR	548	
\$SPOLMSG	53B	
\$SPOLNUM	E4C	20
\$SPOLPCE	A00	
\$SP00L	E46	E2D7D6D6
\$SP00LCB	4FC	
\$SP00LQ	31C	
\$SPVLRN	415	
\$SPVMNAM	E38	40404040
\$SPV1BRT	415	5
\$SPV10PT	415	3
\$SPV1QER	415	1

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$SPV1SPL	415	4
\$SPV1STR	415	6
\$SPV1VAL	415	2
\$SRVDCT	974	
\$SSNM	890	5C5C5C5C
\$SSVS	894	5C5C5C5C
\$STABNDA	B4	
\$STACPCE	B30	
\$STACTOK	D8	
\$STARTCP	688	6E8
\$STARTTM	688	670
\$STATUS	89F	A0
\$STATUS1	8B0	40
\$STATUS2	8B1	18
\$STATUS3	8CA	0
\$STCNMSG	8CA	8
\$STDFORM	510	E2E3C440
\$STERSTK	164	
\$STIMASK	53A	
\$STIMBUF	53A	80
\$STIMDCT	53A	20
\$STIMSBT	53A	10
\$STIMTIM	53A	40
\$STKEWRK	6D0	0
\$STOPCNV	8CA	10
\$STOPXEQ	8B0	8
\$STQEACT	32C	
\$STRTDSI	8B1	1
\$STUBCNT	C8	0
\$STUBPTR	CC	
\$STWORK	324	
\$ST1PJTM	8B0	20
\$SUBTASK	89E	
\$SXADDR	100	
\$SYMBM	10C	
\$SYNCTOL	3B4	
\$SYSID	898	
\$TBLNUM	388	2
\$TCELSIZ	E5B	

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$TGAENUM	8AA	32
\$TGALLOC	DAC	
\$TGBAD	388	
\$TGDEFND	DB4	
\$TGFREE	DB8	
\$TGFREEB	4D8	7FFFFFFF
\$TGMADDR	378	
\$TGMAP	380	
\$TGMHEAD	378	
\$TGPRCT	D36	
\$TGRADDR	390	
\$TGRHDR	390	28
\$TGSIZE	4D6	1E
\$TGSYSID	D35	0
\$TGTOTAL	DB0	
\$TIMEPCE	9F0	
\$TIPSJBN	E8C	0
\$TOTCKRN	86C	
\$TOTCKSZ	3C4	
\$TPPRPCE	A88	
\$TPPUPCE	A98	
\$TPRDPCE	A60	
\$TQEQUE	334	
\$TRCDWN	668	1
\$TRCFG1	668	0
\$TRCPCE	9F8	
\$TRCSYSX	668	80
\$TRGENER	338	
\$TRTIME	54C	
\$TTBPRCT	4DC	
\$UCT	FC	
\$UNSPUN	DFC	80
\$UNSPUND	DFC	2
\$UPADDR	394	
\$USERSET	403	2
\$USER1	39C	
\$USER2	3A0	
\$USER3	3A4	
\$USER4	3A8	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$USER5	3AA	0
\$USXADDR	398	
\$UVERS	58	40404040
\$VERSACT	4E6	80
\$VERSFRE	4E2	0
\$VERSINI	4E6	10
\$VERSION	50	E2D740F5
\$VERSKPT	4E6	20
\$VERSNUM	4E0	0
\$VERSSTT	4E6	10
\$VERSWRN	4E4	50
\$VFYSUBN	E9F	20
\$VLOGQUE	33C	
\$VTMFREC	484	0
\$VTMLGRQ	48A	0
\$VTMNWBF	488	0
\$VTMPRCT	480	50
\$VTMPRIV	482	0
\$VTMWBF	486	0
\$WARMACT	3CE	0
\$WARMCNT	AC4	4
\$WARMPC	AC0	
\$WARMPTYP	928	
\$WCHECK	C42	0
\$WLMDATA	340	
\$WLMDIFF	8B0	2
\$WLMRGOK	8B0	1
\$WORK16	6C8	6B8
\$WORK24	6C8	6B8
\$WRKAREA	66C	
\$WRKAREL	6D0	74
\$WRMDONE	8B0	10
\$WRMESYS	92E	1
\$WRMINIT	92C	
\$WRMREG	92C	1
\$WSAPTR	344	
\$WSBITOF	778	7F
\$WSUSER	774	80
\$WTBSYJO	DFD	80

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$XCFFLG1	864	
\$XCFFLG2	865	
\$XCFGPNM	E6C	40404040
\$XCFIXVT	868	
\$XCFPCE	B50	
\$XCFXEQP	8B8	0
\$XCF1ERR	864	20
\$XCF1MUD	864	2
\$XCF1NAR	864	80
\$XCF1NRS	864	40
\$XCF1SG0	864	4
\$XCF1STP	864	8
\$XCF1STR	864	10
\$XCF2ERR	865	80
\$XCMPCE	B58	
\$XCPECBX	88	1800000
\$XCWFLAG	C4	0
\$XCWLCEN	C4	40
\$XCWSCEN	C4	80
\$XECBQ	C00	
\$XECBQF	C00	
\$XECBQL	C08	
\$XEQINT	8B1	40
\$XFRACTV	348	
\$XFRBEND	34C	
\$XFRDEND	350	
\$XFRECBX	80	1800000
\$XITADDR	354	
\$XMASADR	204	
\$XTIMPCE	9E8	
\$XWTRACT	91E	80
\$XWTRFLG	91E	
\$ZAPTIME	DE0	0
\$ZERO	728	728
\$ZEROES	728	728
\$ZEROFFF	768	FFFFFF
\$ZEROS	728	0
\$ZEROTGS	E23	80
\$ZJCFREI	DE8	0

Table 232. Cross Reference for \$HCT (continued)

Name	Offset	Hex Tag
\$ZJCFREN	DEC	0
\$ZJCLEN	E7C	0
\$ZJCNUM	EA0	
\$ZJCPRCT	D3D	
\$ZJCPTR	250	
\$ZJSYSID	D3C	0
\$ZODHEAD	DE4	0
\$ZODJNUM	EA8	
\$0FFF	768	768
\$000F	76C	FF
\$7FFF	77C	77C
#POSTWTO	E23	10
HCT	0	

\$HFAM information

\$HFAM programming interface information

\$HFAM is a programming interface.

\$HFAM heading information

Common name: HASP File Allocation Map

Macro ID: \$HFAM

DSECT name: HFAM

Owning component: JES2 (SC1BH)

Eye-catcher ID:
HFAM
Offset: HFAMID-HFAM
Length: L'HFAMID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.

Size: See HFAMLEN

Created by: JES2 Initialization

Pointed to by: \$HFAM field of the \$HCT data area

Serialization: The JES2 Checkpoint data set lock (\$QSUSE) is used.
NOTE: This is a checkpointed control block and part of check record. Any change to this control block will be reflected across systems.

Function:

This dsect is used to map file identification and use information about the two checkpoint data sets and their backups (NEWCKPTS). For the mapping of the individual entries, see the \$HFAME control block.

\$HFAM mapping

Table 233. Structure HFAM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HFAM	HASP FILE ALLOCATION MAP
0	(0)	CHARACTER	308	HFAMREC(0)	Offset table needs hard coded length
0	(0)	CHARACTER	4	HFAMID	HFAM EYE CATCHER
4	(4)	ADDRESS	1	HFAMVER	CONTROL BLOCK VERSION NUMBER
4	(4)	X'3'	0	HFAMVERN	"03" CONTROL BLOCK VER. NUMBER
5	(5)	BITSTRING	1	HFAMLSYS	System # of last system to update the ckpt. (\$SIDBUSY)
6	(6)	BITSTRING	1	HFAMFLAG	FLAG BYTE
		1...		HFAMDPLX	"B'10000000" 0 - COMPLEX IS IN DUAL MODE 1 - COMPLEX IS IN DUPLEX MODE
		.1...		HFAMIDSN	"B'01000000" IGNORE DSN/VOL IN HFAMES
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HFAMCSTR(2)	COLD START TIME STAMP
16	(10)	SIGNED	4	HFAMUSR1	RESERVED FOR USER
20	(14)	CHARACTER	72	HFAMCKP1	DATA SET SPEC FOR CHECKPOINT 1
92	(5C)	CHARACTER	72	HFAMCKP2	DATA SET SPEC FOR CHECKPOINT 2
164	(A4)	CHARACTER	72	HFAMCKN1	DATA SET SPEC FOR NEW CKPT1
236	(EC)	CHARACTER	1	HFAMCKN2	DATA SET SPEC FOR NEW CKPT2
236	(EC)	X'134'	0	HFAMLEN	"*-HFAM" LENGTH OF HFAM
308	(134)	ADDRESS	2	(0)	Ensure hardcoded value
308	(134)	ADDRESS	2	(0)	is accurate

Table 234. Cross Reference for \$HFAM

Name	Offset	Hex Tag
HFAM	0	
HFAMCKN1	A4	
HFAMCKN2	EC	
HFAMCKP1	14	
HFAMCKP2	5C	
HFAMCSTR	8	
HFAMDPLX	6	80
HFAMFLAG	6	
HFAMID	0	C8C6C1D4
HFAMIDSN	6	40
HFAMLEN	EC	134
HFAMLSYS	5	
HFAMREC	0	

Table 234. Cross Reference for \$HFAM (continued)

Name	Offset	Hex	Tag
HFAMUSR1	10		
HFAMVER	4		
HFAMVERN	4		3

\$HFAME information

\$HFAME programming interface information

\$HFAME is a programming interface.

\$HFAME heading information

Common name:	HASP File Allocation Map Entry
Macro ID:	\$HFAME
DSECT name:	HFE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: N/A Key: N/A Residency: See \$HFAM control block, or \$HCCT control block, or \$CKPRECV control block.
Size:	See HFELEN
Created by:	See \$HFAM control block, or \$HCCT control block, or \$CKPRECV control block.
Pointed to by:	HFAMCKP1 field of the \$HFAM data area HFAMCKP2 field of the \$HFAM data area HFAMCKN1 field of the \$HFAM data area HFAMCKN2 field of the \$HFAM data area CCTCKPT1 field of the \$HCCT data area CCTCKPT2 field of the \$HCCT data area CKRHFAME field of the \$CKPRECV data area Various fields in the processor work areas and parameter lists.
Serialization:	None required
Function:	This dsect maps the entry for one file in the HASP File Allocation Map (HFAM). See \$HFAM control block for more information.

\$HFAME mapping

Table 235. Structure HFE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HFE	HASP FILE ALOC MAP ELEMENT

Table 235. Structure HFE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
HFEDSVOL IS USED AS RNAME FOR RESERVE/DEQ MACROS. DO NOT CHANGE THE ORDER OF VOLSER AND DSNAME.					
0	(0)	CHARACTER	0	HFESPEC(0)	Data set spec
0	(0)	CHARACTER	0	HFEDASD(0)	Data set volser and dsn (Used as RNAME when ckpt is on DASD)
0	(0)	CHARACTER	6	HFEVOL	VOL SERIAL NUMBER OF DS
6	(6)	CHARACTER	44	HFEDSN	NAME OF DATA SET
50	(32)	CHARACTER	16	HFESTR	XES Structure name
66	(42)	BITSTRING	1	HFEFLAG1	FLAG BYTE FOR DATA SET
		1...		HFE1INUS	"B'10000000'" DATA SET IN USE
		.1...		HFE1DASD	"B'01000000'" Checkpoint is on DASD
		..1.		HFE1CF	"B'00100000'" Checkpoint is on CF
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
68	(44)	SIGNED	4	HFEUSER1	RESERVED FOR USER
68	(44)	X'48'	0	HFELEN	"*-HFE" LENGTH OF HFAME

Table 236. Cross Reference for \$HFAME

Name	Offset	Hex	Tag
HFE	0		
HFEDASD	0		
HFEDSN	6		
HFEFLAG1	42		
HFELEN	44		48
HFESPEC	0		
HFESTR	32		
HFEUSER1	44		
HFEVOL	0		
HFE1CF	42		20
HFE1DASD	42		40
HFE1INUS	42		80

\$HFCT information

\$HFCT programming interface information

\$HFCT is a programming interface.

\$HFCT heading information

Common name: HASP FSS Communication Table
Macro ID: \$HFCT
DSECT name: HFCT
Owning component: JES2 (SC1BH)

Eye-catcher ID:	MIT entry for HASPFSSM ('MIT HASPFSSM') Offset: 0 Length: 12
Storage attributes:	Subpool: The subpool of the HASPFSSM load module. Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of an FSS address space.
Size:	See the HFCTLEN equate.
Created by:	The HASPFSSM load module is loaded during an FSS CONNECT request through the Functional Subsystem Interface (FSI). The HFCT is part of HASPFSSM.
Pointed to by:	<ul style="list-style-type: none"> - As one of the key JES2 control blocks for processing from an FSS address space, the HFCT address is usually in general purpose register 11 in the assembly environment known as FSS. - Label HASPFCT in HASPFSSM, defined as an external symbol for code in the HASPFSSM load module, is the address of the HFCT. - The HFCT is at the front of the HASPFSSM load module so the module storage address in the MVS CDE for HASPFSSM (if one exists) points to the HFCT. - The FSSHCT field of the FSS's FSSCB common storage control block points to the FSS's HFCT.
Serialization:	The HFCT is loaded and altered during an FSS CONNECT FSI request. From that point in time on, multiple tasks may be executing under the FSS and its Functional Subsystem Applications (FSAs). The HFCT fields are read-only, or used with compare-and-swap techniques.
Function:	The HFCT is the central control block used for JES2 processing in the address space of a Functional Subsystem (FSS) connected to the JES2 subsystem. It is used for most processing within Functional Subsystem Interface (FSI) requests made by FSSs and their applications (FSAs), or directed to them. The HFCT address is normally in general purpose register 11 during processing in the FSS assembly environment. Register 11 addressing for the HFCT is assumed in FSS-oriented JES2 service macros, routines, exits, and general linkage.

\$HFCT mapping

Table 237. Structure HFCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFCT	HASP FSS COMMUNICATION TABLE
0	(0)	BITSTRING	80		HASPFSSM Module Info Table
80	(50)	CHARACTER	8	HFCTVER	Permanently set to SP 5.3.0
Keep the next three fields intact.					
88	(58)	BITSTRING	10	HFCTJES2_LEVEL(0)	Level information

Table 237. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	CHARACTER	8	HFCTLEVL	HASP Version <---+
96	(60)	ADDRESS	1	HFCTPLVL	Product Level |
97	(61)	ADDRESS	1	HFCTSLVL	Service Level <---+
98	(62)	SIGNED	2		Reserved for future use
HASPFSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE SUPPORTED FSS FUNCTIONS.					
100	(64)	SIGNED	4	HFCTFSSF(0)	FSI SUPPORTED FSS FUNCTIONS
100	(64)	ADDRESS	4	HFCTSCNI	CONNECT IDENTIFIER
104	(68)	ADDRESS	4	HFCTSCNA	"V(FSMCONCT)" CONNECT ENTRY POINT
108	(6C)	ADDRESS	4	HFCTSDCI	DISCONNECT IDENTIFIER
112	(70)	ADDRESS	4	HFCTSDCA	"V(FSMCONCT)" DISCONNECT ENTRY POINT
116	(74)	ADDRESS	4	HFCTSGDI	GETDS IDENTIFIER
120	(78)	ADDRESS	4	HFCTSGDA	"V(FSMERROR)" GETDS UNSUPPORTED ON FSS LEVEL
124	(7C)	ADDRESS	4	HFCTSRDI	RELDs IDENTIFIER
128	(80)	ADDRESS	4	HFCTSRDA	"V(FSMERROR)" RELDs UNSUPPORTED ON FSS LEVEL
132	(84)	ADDRESS	4	HFCTSGRI	GETREC IDENTIFIER
136	(88)	ADDRESS	4	HFCTSGRA	"V(FSMERROR)" GETREC UNSUPPORTED ON FSS LEVEL
140	(8C)	ADDRESS	4	HFCTSFRI	FREEREC IDENTIFIER
144	(90)	ADDRESS	4	HFCTSFRA	"V(FSMERROR)" FREEREC UNSUPPORTD ON FSS LEVEL
148	(94)	ADDRESS	4	HFCTSCKI	CHKPT IDENTIFIER
152	(98)	ADDRESS	4	HFCTSCKA	"V(FSMERROR)" CHKPT UNSUPPORTED ON FSS LEVEL
156	(9C)	ADDRESS	4	HFCTSSNI	SEND IDENTIFIER
160	(A0)	ADDRESS	4	HFCTSSNA	"V(FSMSEND)" SEND ENTRY POINT
160	(A0)	X'6'	0	HFCTSIDN	"(*-HFCTSGDI)/8" NUM OF HASPFSM ENTRY PTS
HASPFSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE FSA SUPPORTED FUNCTIONS.					
164	(A4)	SIGNED	4	HFCTFSAF(0)	FSI SUPPORTED FSA FUNCTIONS
164	(A4)	ADDRESS	4	HFCTACNI	CONNECT IDENTIFIER
168	(A8)	ADDRESS	4	HFCTACNA	"V(FSMERROR)" CONNECT UNSUPPORTD ON FSA LEVEL
172	(AC)	ADDRESS	4	HFCTADCI	DISCONNECT IDENTIFIER
176	(B0)	ADDRESS	4	HFCTADCA	"V(FSMERROR)" DISCONT UNSUPPORTD ON FSA LEVEL
180	(B4)	ADDRESS	4	HFCTAGDI	GETDS IDENTIFIER
184	(B8)	ADDRESS	4	HFCTAGDA	"V(FSMGETDS)" GETDS ENTRY POINT
188	(BC)	ADDRESS	4	HFCTARDI	RELDs IDENTIFIER
192	(C0)	ADDRESS	4	HFCTARDA	"V(FSMRELDs)" RELDs ENTRY POINT
196	(C4)	ADDRESS	4	HFCTAGRI	GETREC IDENTIFIER
200	(C8)	ADDRESS	4	HFCTAGRA	"V(FSMGETRC)" GETREC ENTRY POINT
204	(CC)	ADDRESS	4	HFCTAFRI	FREEREC IDENTIFIER
208	(D0)	ADDRESS	4	HFCTAFRA	"V(FSMFRERC)" FREEREC ENTRY POINT

Table 237. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
212	(D4)	ADDRESS	4	HFCTACKI	CHKPT IDENTIFIER
216	(D8)	ADDRESS	4	HFCTACKA	"V(FSMCHKPT)" CHKPT ENTRY POINT
220	(DC)	ADDRESS	4	HFCTASNI	SEND IDENTIFIER
224	(E0)	ADDRESS	4	HFCTASNA	"V(FSMSEND)" SEND ENTRY POINT
ENTRY POINTS FOR PC ROUTINES					
228	(E4)	SIGNED	4	HFCTPCS(0)	PC ROUTINE ID/ADDR PAIRS
228	(E4)	ADDRESS	4	HFCTORDI	ORDER IDENTIFIER
232	(E8)	ADDRESS	4	HFCTORDA	"V(FSMORDER)" ORDER ENTRY POINT
236	(EC)	ADDRESS	4	HFCTPSTI	POST IDENTIFIER
240	(F0)	ADDRESS	4	HFCTPSTA	"V(FSMPOST)" POST ENTRY POINT
240	(F0)	X'2'	0	HFCTPCNO	"(*-HFCTPCS)/8" NUMBER OF PC ROUTINES
240	(F0)	X'54'	0	HFCTETDL	"ETDLEN+(HFCTPCNO*ETDELEN)" LENGTH OF ETD CNTL BLOCK
DEFINED CONSTANTS					
244	(F4)	CHARACTER	8	HFCTBLNK	DOUBLEWORD OF BLANKS
252	(FC)	BITSTRING	64	HFCTZERO	Lots of zeroes
252	(FC)	X'FC'	0	HFCT0000	"HFCTZERO" ALTERNATE NAME FOR HFCTZERO
316	(13C)	BITSTRING	4	HFCT000F	FULLWORD LOW ORDER BYTE MASK
320	(140)	BITSTRING	4	HFCT00FF	FULLWORD LOW HALFWORD MASK
324	(144)	BITSTRING	4	HFCT0FFF	FULLWORD 3 BYTE MASK
328	(148)	BITSTRING	4	HFCTALLF	FULLWORD ALL X'FF'S
328	(148)	X'148'	0	HFCTFFFF	"HFCTALLF" ALTERNATE NAME FOR HFCTALLF
332	(14C)	ADDRESS	4	HFCTBADA(16)	BAD value
DEFINITIONS FOR GENERAL USE					
396	(18C)	ADDRESS	4	HFCTFSSA	ADDR OF FSSCB
400	(190)	ADDRESS	4	HFCTHCCT	ADDR OF HCCT
404	(194)	ADDRESS	4	HFCTDAS1	Addr of first DAS (CCTDAS1)
408	(198)	SIGNED	2	HFCTJQLN	JQE length
410	(19A)	BITSTRING	14		Reserved
DEFINITIONS FOR QUICKCELL POOL MANAGEMENT					
424	(1A8)	ADDRESS	4	HFCTGTQC	"V(FSMGETQC)" ADDR OF GET QUICKCELL ROUTINE
428	(1AC)	ADDRESS	4	HFCTFRQC	"V(FSMFREQC)" ADDR OF FREE QUICKCELL ROUTINE
432	(1B0)	ADDRESS	4	HFCTBLQC	"V(FSMBLQC)" ADDR OF BUILD CELLPOL ROUTINE
436	(1B4)	ADDRESS	4	HFCTQCSU	"V(FSMQCT)" ADDR OF QCT SETUP ROUTINE
440	(1B8)	ADDRESS	4	HFCTQCTH	ADDR OF FIRST QCT
444	(1BC)	SIGNED	4	HFCTQCS1(18)	FSMBLQC + FSMEXTQC SAVE AREA
516	(204)	SIGNED	4	HFCTQCS2(18)	VSM BLDCPOOL MACRO SAVE AREA
DEFINITIONS FOR SAVE AREA AND ERROR SERVICES, ETC					

Table 237. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
588	(24C)	ADDRESS	4	HFCTSAVE	"V(FSMSAVE)" FSMSAVE \$SAVE ROUTINE ADDR
592	(250)	ADDRESS	4	HFCTRET	"V(FSMRETRN)" FSMRETRN \$RETURN ROUTINE ADDR
596	(254)	ADDRESS	4		Reserved for future use
600	(258)	SIGNED	4	HFCTSVSV(18)	SAVE AREA FOR FSMSAVE
672	(2A0)	SIGNED	4	HFCTSRBS(18)	SAVE AREA FOR SRBS (FSMRCRTN)
744	(2E8)	SIGNED	4	HFCTESAV(18)	SAVE AREA FOR \$ERRORS
816	(330)	ADDRESS	4	HFCTETCB	TCB OWNING \$ERROR SAVE
820	(334)	BITSTRING	1	HFCTESVS	\$ERROR SAVE AREA SERIALIZATION
821	(335)	BITSTRING	1	HFCTSAVF	SAVE AREA FLAG BYTE
822	(336)	BITSTRING	1	HFCTCONF	FSS CONNECT/DISCONNECT FLAG
	1...			HFCTGTMM	"B'10000000'" FSVT/ETD/ETC GETMAIN WAS DONE
	.1..			HFCTAXRS	"B'01000000'" AXRES WAS DONE FOR FSS AX
	..1.			HFCTAXST	"B'00100000'" AXSET WAS DONE FOR FSS AX
	...1			HFCTLXRS	"B'00010000'" LXRES WAS DONE FOR FSS LX
	.... 1...			HFCTETCR	"B'00001000'" ETCRE WAS DONE FOR FSS ETD
	.... .1..			HFCTATST	"B'00000100'" ATSET WAS DONE FOR JES2 AX
823	(337)	BITSTRING	1		RESERVED FOR FUTURE USE
SERVICE ROUTINE ENTRY POINTS					
824	(338)	ADDRESS	4	HFCTFSIL	"V(FSMFSLNK)" FSSLINK SERVICE ROUTINE
828	(33C)	ADDRESS	4	HFCTGBLK	"V(FSMGTBLK)" GETBLOCK SERVICE ROUTINE
832	(340)	ADDRESS	4	HFCTRBLK	"V(FSMRTBLK)" RETBLOCK SERVICE ROUTINE
836	(344)	ADDRESS	4	HFCTCATE	"V(FSMCATER)" ADDR OF CAT ERROR ROUTINE
HASPFSM R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S() HALFWORDS, NOT ZEROS, IN THIS AREA.					
836	(344)	X'CB8'	0	HFCTPSZ	"4096-(*-HFCT)"
840	(348)	BITSTRING	1	HFCTPCH(0)	DEFINE PATCH SPACE
840	(348)	X'1000'	0	HFCTLEN	"*-HFCT" Length of the HFCT

Table 238. Cross Reference for \$HFCT

Name	Offset	Hex Tag
HFCT	0	
HFCTACKA	D8	
HFCTACKI	D4	
HFCTACNA	A8	
HFCTACNI	A4	

Table 238. Cross Reference for \$HFCT (continued)

Name	Offset	Hex Tag
HFCTADCA	B0	
HFCTADCI	AC	
HFCTAFRA	D0	
HFCTAFRI	CC	
HFCTAGDA	B8	
HFCTAGDI	B4	
HFCTAGRA	C8	
HFCTAGRI	C4	
HFCTALLF	148	FFFFFFFF
HFCTARDA	C0	
HFCTARDI	BC	
HFCTASNA	E0	
HFCTASNI	DC	
HFCTATST	336	4
HFCTAXRS	336	40
HFCTAXST	336	20
HFCTBADA	14C	
HFCTBLNK	F4	40404040
HFCTBLQC	1B0	
HFCTCATE	344	
HFCTCONF	336	0
HFCTDAS1	194	
HFCTESAV	2E8	0
HFCTESVS	334	0
HFCTETCB	330	
HFCTETCR	336	8
HFCTETDL	F0	54
HFCTFFFF	148	148
HFCTFRQC	1AC	
HFCTFSAF	A4	
HFCTFSIL	338	
HFCTFSSA	18C	
HFCTFSSF	64	
HFCTGBLK	33C	
HFCTGTMN	336	80
HFCTGTQC	1A8	
HFCTHCCT	190	
HFCTJES2_LEVEL	58	
HFCTJQLN	198	0

Table 238. Cross Reference for \$HFCT (continued)

Name	Offset	Hex Tag
HFCTLEN	348	1000
HFCTLEVL	58	A961D6E2
HFCTLXRS	336	10
HFCTORDA	E8	
HFCTORDI	E4	
HFCTPCH	348	0
HFCTPCNO	F0	2
HFCTPCS	E4	
HFCTPLVL	60	
HFCTPSTA	F0	
HFCTPSTI	EC	
HFCTPSZ	344	CB8
HFCTQCSU	1B4	
HFCTQCS1	1BC	0
HFCTQCS2	204	0
HFCTQCTH	1B8	
HFCTRBLK	340	
HFCTRET	250	
HFCTSAVE	24C	
HFCTSAVF	335	0
HFCTSCKA	98	
HFCTSCKI	94	
HFCTSCNA	68	
HFCTSCNI	64	
HFCTSDCA	70	
HFCTSDCI	6C	
HFCTSFRA	90	
HFCTSFRI	8C	
HFCTSGDA	78	
HFCTSGDI	74	
HFCTSGRA	88	
HFCTSGRI	84	
HFCTSIDN	A0	6
HFCTSLVL	61	
HFCTSRBS	2A0	0
HFCTSRDA	80	
HFCTSRDI	7C	
HFCTSSNA	A0	
HFCTSSNI	9C	

Table 238. Cross Reference for \$HFCT (continued)

Name	Offset	Hex Tag
HFCTSVSV	258	0
HFCTVER	50	E2D740F5
HFCTZERO	FC	0
HFCT0FFF	144	FFFFFF
HFCT00FF	140	FFFF
HFCT000F	13C	FF
HFCT0000	FC	FC

\$HJCT information

\$HJCT heading information

Common name:	JES2 Monitor Communication Table
Macro ID:	\$HJCT
DSECT name:	HJCT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	HJCT Offset: JMTID-HJCT Length: L'JMTID
Storage attributes:	Subpool: 1 Key: 1 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The \$HJCT resides in the JES2 monitor address space.
Size:	See JMTSIZE
Created by:	HASJMON
Pointed to by:	- MHBHJCT field of the MONCB data area - MWEHJCT field of the MWE data area - General register 11 when executing code in the 'MONITOR' execution environment.
Serialization:	None required
Function:	The HJCT is the anchor private storage control block for the JES2 monitor address space

\$HJCT mapping

Table 239. Structure HJCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HJCT	, HASP Communications Table
0	(0)	CHARACTER	4	JMTID	Eyecatcher
4	(4)	ADDRESS	1	JMTVRSN	HJCT version
4	(4)	X'1'	0	JMTVRNUM	"1" Current version number

Table 239. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	3		Reserved (and frozen)
8	(8)	ADDRESS	4	JMTOFSTB	Address of offset table, at HJCT offset +8
12	(C)	SIGNED	4		Reserved (and frozen)
16	(10)	ADDRESS	4	JMTHCT	HCT address
20	(14)	ADDRESS	4	JMTHCCT	HCCT address
24	(18)	ADDRESS	4	JMTMONCB	MONCB address
28	(1C)	ADDRESS	4	JMTMODMP	Monitor module map
32	(20)	ADDRESS	4	JMTBADA(16)	BAD address value
96	(60)	SIGNED	4	JMTZEROS(16)	Constant zeros
160	(A0)	SIGNED	4	JMTJES2A	JES2 address space ALET
164	(A4)	ADDRESS	4	JMTJASCB	JES2 ASCB address
168	(A8)	CHARACTER	4	JMTSSNM	JES2 subsystem name
172	(AC)	ADDRESS	4	JMTJ2WAT	JES2 Main MVS wait
176	(B0)	ADDRESS	4	JMTMWE	JES2 monitor work areas
180	(B4)	ADDRESS	4	JMTMSD	Monitor sampling data
184	(B8)	CHARACTER	1	JMTCOMCH	CONCHAR for termination messages
185	(B9)	BITSTRING	1	JMTJSTAT	JES2 status flags (set by sampler)
	1...			JMTJSINI	"B'10000000" JES2 in initialization
	.1...			JMTJSTRM	"B'01000000" JES2 is terminating
186	(BA)	BITSTRING	2		Reserved
188	(BC)	ADDRESS	4	JMTMWT	MVS Wait list
General work area (for MF=L areas messages, etc).					
192	(C0)	BITSTRING	128	JMTGWORK	General work area
320	(140)	SIGNED	4	JMTLWTO(0)	
320	(140)	ADDRESS	2		TEXT LENGTH
322	(142)	BITSTRING	2		MCSFLAGS
324	(144)	ADDRESS	4		MESSAGE TEXT ADDRESS
328	(148)	ADDRESS	1		VERSION LEVEL
329	(149)	BITSTRING	1		MISCELLANEOUS FLAGS
330	(14A)	ADDRESS	1		REPLY LENGTH
331	(14B)	ADDRESS	1		LENGTH OF WPX
332	(14C)	BITSTRING	2		EXTENDED MCS FLAGS
334	(14E)	ADDRESS	2		RESERVED
336	(150)	ADDRESS	4		REPLY BUFFER ADDRESS
340	(154)	ADDRESS	4		REPLY ECB ADDRESS
344	(158)	ADDRESS	4		CONNECT ID
348	(15C)	BITSTRING	2		DESCRIPTOR CODES
350	(15E)	ADDRESS	2		RESERVED
352	(160)	BITSTRING	16		
368	(170)	BITSTRING	2		MESSAGE TYPE
370	(172)	ADDRESS	2		MESSAGE'S PRIORITY
372	(174)	CHARACTER	8		JOB ID
380	(17C)	CHARACTER	8		JOB NAME
388	(184)	CHARACTER	8		RETRIEVAL KEY

Table 239. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
396	(18C)	ADDRESS	4		TOKEN FOR DOM
400	(190)	ADDRESS	4		CONSOLE ID
404	(194)	CHARACTER	8		SYSTEM NAME
412	(19C)	CHARACTER	8		CONSOLE NAME
420	(1A4)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
424	(1A8)	ADDRESS	4		CART ADDRESS
428	(1AC)	ADDRESS	4		WSPARM ADDRESS
428	(1AC)	X'70'	0	JMTLWTOL	"*-JMTLWT0" WTO work area length
432	(1B0)	DBL WORD	8	(0)	
HEX translate table					
432	(1B0)	X'C0'	0	JMTXTRAN	"*-C'0'" Hexadecimal-to-EBCDIC
432	(1B0)	CHARACTER	16		translate table
Probe message areas (mapped by PRBM DSECT in \$MSD)					
448	(1C0)	DBL WORD	8	JMTPROBL(0)	Probe message list
448	(1C0)	ADDRESS	4	JMTPMAIN	Main task activity
452	(1C4)	ADDRESS	4	JMTPBRTL	Bert lock contention
456	(1C8)	ADDRESS	4	JMTPJOBL	Job lock contention
460	(1CC)	ADDRESS	4	JMTPCKPH	Long CKPT hold time
464	(1D0)	ADDRESS	4	JMTPLCMD	Long command processing
464	(1D0)	X'5'	0	JMTPROBC	"(*-JMTPROBL)/4" Count of message areas
Active notice table and flags					
468	(1D4)	ADDRESS	4	JMTNOTMT	Notify message table addr
Notice message table mapping					
468	(1D4)	X'0'	0	JMTNMSK	"0,8" JMTNOTIC mask
468	(1D4)	X'8'	0	JMTNFLG1	"8,1" Flag byte
		1...		JMTN1CRT	"B'10000000'" Critical notice
EQU 9,3 Reserved					
468	(1D4)	X'C'	0	JMTNLEN	"12,2" Message length
468	(1D4)	X'E'	0	JMTNTXT	"14,71" Message text
EQU 85,11 Reserved					
468	(1D4)	X'54'	0	JMTNMSNX	"96-12" Length from JMTNLEN to end
468	(1D4)	X'60'	0	JMTNSIZ	"96" Size of an entry
Notice flags					
472	(1D8)	DBL WORD	8	(0)	Align
472	(1D8)	BITSTRING	8	JMTNOTIC(0)	Current notices
472	(1D8)	BITSTRING	2	JMTNOT01	Notice flag bytes 1
472	(1D8)	BITSTRING	0	JMTN1JNA	"B'1000000000000000'" JES2 A.S. not active

Table 239. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(108)	BITSTRING	0	JMTN1JIN	"B'0100000000000000'" JES2 initializing
472	(108)	BITSTRING	0	JMTN1JTR	"B'0010000000000000'" JES2 terminating
472	(108)	BITSTRING	0	JMTN1CRF	"B'0001000000000000'" CKPT RECONFIG in progress
472	(108)	BITSTRING	0	JMTN1BOS	"B'0000100000000000'" Member is not BOSS
472	(108)	BITSTRING	0	JMTN1ASP	"B'0000010000000000'" A.S. waiting for SP00L sp
472	(108)	BITSTRING	0	JMTN1IPL	"B'0000001000000000'" JES2 IPL required
472	(108)	BITSTRING	0	JMTN1JST	"B'0000000100000000'" JES2 stopped, \$S needed
	1... ..			JMTN1JPX	"B'0000000010000000'" JES2 was \$PXEQed
	.1.. ..			JMTN1PEN	"B'0000000001000000'" A PCE has ended
	..1.			JMTN1NSP	"B'0000000000100000'" All SP00Ls not available
	...1			JMTN1PSP	"B'00000000000010000'" PCES waiting for SP00L sp
	.... 1...			JMTN1FGC	"B'00000000000001000'" Fast SP00L garbage coll
	.... .1..			JMTN1NPM	"B'00000000000000100'" NPM functions suspended
	.... ..1.			JMTN1NNC	"B'00000000000000010'" Node info not in ckpt
	.... ...1			JMTN1LNC	"B'00000000000000001'" Local node name changed
474	(10A)	BITSTRING	2	JMTN0T02	Notice flag bytes 2
474	(10A)	BITSTRING	0	JMTN2WDF	"B'1000000000000000'" WLM policy difference
474	(10A)	BITSTRING	0	JMTN2DUB	"B'0100000000000000'" JES2 dubbed but not perm
474	(10A)	BITSTRING	0	JMTN2CLO	"B'0010000000000000'" Ckpt lockout detected
474	(10A)	BITSTRING	0	JMTN2AHL	"B'0001000000000000'" SP00L automatically halted
474	(10A)	BITSTRING	0	JMTN2LIM	"B'0000100000000000'" Independent mode (local)
474	(10A)	BITSTRING	0	JMTN2SIM	"B'0000010000000000'" Independent mode (Other)
474	(10A)	BITSTRING	0	JMTN2ANJ	"B'0000001000000000'" NJEDEF CONNECT=NO
474	(10A)	BITSTRING	0	JMTN2ANR	"B'0000000100000000'" \$PNET/\$ENET issued
	1... ..			JMTN2DST	"B'0000000010000000'" Non-default DESTDEF set
	.1.. ..			JMTN2BRT	"B'0000000001000000'" BERT shortage inhibiting
	..1.			JMTN2CDR	"B'0000000000100000'" Cross system data retrieval subtask gone
	...1			JMTN2DLS	"B'0000000000010000'" DLS PCE failed
	.... 1...			JMTN2ZGL	"B'0000000000001000'" Jobgroup logging subtask gone

Table 239. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		JMTN2ESA	"B'0000000000000100'" Email services not available
		.... ..1.		JMTN2ESM	"B'000000000000010'" Email services not available on this mbr
		.... ...1		JMTN2JPC	"B'000000000000001'" JES2 was \$PCNVTed
476	(1DC)	BITSTRING	2	JMTN0T03	Notice flag bytes 3
476	(1DC)	BITSTRING	0	JMTN3RLI	"B'1000000000000000'" Active jobs with resource limit impact
476	(1DC)	BITSTRING	0	JMTN3RLW	"B'0100000000000000'" Jobs waiting for resource action WAIT
476	(1DC)	BITSTRING	0	JMTN3RGS	"B'0010000000000000'" Resource groups with resource shortage
478	(1DE)	BITSTRING	2	JMTN0T04	Notice flag bytes 4
Critical notice mask is built when the monitor initialized from the NOTICE table.					
480	(1E0)	SIGNED	8	JMTNOTCR	Mask of critical notices
Patch space for code that uses R11 addressability to the HJCT					
488	(1E8)	SIGNED	4		Reserved
496	(1F0)	DBL WORD	8	(0)	
496	(1F0)	BITSTRING	256	JMTPATCH(2)	Patch space for R11-HJCT code
1008	(3F0)	DBL WORD	8	(0)	Ensure alignment
1008	(3F0)	X'3F0'	0	JMTSIZE	"*-HJCT" HJCT length

Table 240. Cross Reference for \$HJCT

Name	Offset	Hex Tag
HJCT	0	
JMTBADA	20	
JMTCOMCH	B8	
JMTGWORK	C0	0
JMTHCCT	14	
JMTHCT	10	
JMTID	0	C8D1C3E3
JMTJASCB	A4	
JMTJES2A	A0	0
JMTJSINI	B9	80
JMTJSTAT	B9	
JMTJSTRM	B9	40
JMTJ2WAT	AC	
JMTLWTO	140	
JMTLWTOL	1AC	70
JMTMODMP	1C	
JMTMONCB	18	

Table 240. Cross Reference for \$HJCT (continued)

Name	Offset	Hex Tag
JMTMSD	B4	
JMTMWE	B0	
JMTMWT	BC	
JMTNFLG1	1D4	8
JMTNLEN	1D4	C
JMTNMSK	1D4	0
JMTNMSNX	1D4	54
JMTNOTCR	1E0	
JMTNOTIC	1D8	
JMTNOTMT	1D4	
JMTNOT01	1D8	
JMTNOT02	1DA	
JMTNOT03	1DC	
JMTNOT04	1DE	
JMTNSIZ	1D4	60
JMTNTXT	1D4	E
JMTN1ASP	1D8	400
JMTN1BOS	1D8	800
JMTN1CRF	1D8	1000
JMTN1CRT	1D4	80
JMTN1FGC	1D8	8
JMTN1IPL	1D8	200
JMTN1JIN	1D8	4000
JMTN1JNA	1D8	8000
JMTN1JPX	1D8	80
JMTN1JST	1D8	100
JMTN1JTR	1D8	2000
JMTN1LNC	1D8	1
JMTN1NNC	1D8	2
JMTN1NPM	1D8	4
JMTN1NSP	1D8	20
JMTN1PEN	1D8	40
JMTN1PSP	1D8	10
JMTN2AHL	1DA	1000
JMTN2ANJ	1DA	200
JMTN2ANR	1DA	100
JMTN2BRT	1DA	40
JMTN2CDR	1DA	20
JMTN2CLO	1DA	2000

Table 240. Cross Reference for \$HJCT (continued)

Name	Offset	Hex Tag
JMTN2DLS	1DA	10
JMTN2DST	1DA	80
JMTN2DUB	1DA	4000
JMTN2ESA	1DA	4
JMTN2ESM	1DA	2
JMTN2JPC	1DA	1
JMTN2LIM	1DA	800
JMTN2SIM	1DA	400
JMTN2WDF	1DA	8000
JMTN2ZGL	1DA	8
JMTN3RGS	1DC	2000
JMTN3RLI	1DC	8000
JMTN3RLW	1DC	4000
JMTOFSTB	8	
JMTPATCH	1F0	0
JMTPBRTL	1C4	
JMTPCKPH	1CC	
JMTPJOB	1C8	
JMTPLCMD	1D0	
JMTPMAIN	1C0	
JMTPROBC	1D0	5
JMTPROBL	1C0	
JMTSIZE	3F0	3F0
JMTSSNM	A8	D1C5E2F2
JMTVRNUM	4	1
JMTVRSN	4	
JMTXTRAN	1B0	C0
JMTZEROS	60	0

\$ICE information

\$ICE programming interface information

The following fields are **NOT** programming interface information:

- ICE#MSTR
- ICEACPTN
- ICEALCHN
- ICEAPCHN
- ICEFLAGS
- ICEFLGS2

- ICEFLGS3
- ICEFRZRC
- ICEINCT
- ICEINDEX
- ICEINHDD
- ICEINLM
- ICEINTL
- ICELOST
- ICENJEF1
- ICENJEF2
- ICEOUTBF
- ICEOUTCT
- ICEOUTHDD
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESTAT
- ICESUSFL
- ICETEA
- ICETNTRY
- ICETIME
- ICXRFBK
- ICXTWRK

\$ICE heading information

Common name:	Interface Control Element
Macro ID:	\$ICE
DSECT name:	ICE ICETNTRY
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See ICESIZE
Created by:	HASPIRRE HASPSNA

Pointed to by: \$ICELOST field of the \$HCT data area
MDCTICE field of the \$DCT data area
ICEAPCHN field of the \$ICE data area
ICEALCHN field of the \$ICE data area
ICETEMP field of the \$ICE data area
MLMICEQ field of the \$MLMWORK data area
MLMICEQ2 field of the \$MLMWORK data area
MLMXICE field of the \$MLMWORK data area
MLMWRIQ field of the \$MLMWORK data area

Serialization: Normal PCE dispatch serialization

Function: The ICE control block represents a VTAM session between JES2 and an NJE or RJE partner. The ICE is used to hold information about that session. At the end of the ICE there is a rolling trace. Entries are added to this trace whenever a significant event occurs on this session. The trace entries are mapped by the ICETNTRY DSECT.

\$ICE mapping

Table 241. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICE	INTERFACE CONTROL ELEMENT DSECT
0	(0)	BITSTRING	1	ICESTAT	ICE STATUS INDICATORS
		1... ..		ICEDRAIN	"B'10000000'" ICE DRAIN REQ PENDING
		.1.. ..		ICEALLOC	"B'01000000'" ICE ALLOCATED INDICATOR
		..1.		ICETIMER	"B'00100000'" ICE AWAITING TIMER INTRPT
		...1		ICEHOLD	"B'00010000'" ICE TEMPORARY HOLD STATUS
		.... 1...		ICERTRPD	"B'00001000'" ICE AWAITING RTR STATUS
		.... .1..		ICERCVSP	"B'00000100'" ICE RECEIVE CS STATUS
		.... ..1.		ICEABORT	"B'00000010'" ICE ABORT INDICATOR
		.... ...1		ICECLOSE	"B'00000001'" ICE CLOSE INDICATOR
		1111 1111		ICEAVAIL	"B'11111111'" ICE AVAILABLE INDICATOR
1	(1)	BITSTRING	1	ICEFLAGS	SESSION STATUS INDICATORS
		1... ..		ICEINBND	"B'10000000'" SESSION INBOUND ALLOCATED HDX-FF
		.1.. ..		ICEOUTBD	"B'01000000'" SESSION OUTBOUND ALLOCATED HDX-FF
		..1.		ICEREVFL	"B'00100000'" SESSION REVERSED DIRECTION HDX-FF
		...1		ICEINBRK	"B'00010000'" SESSION IN BRACKET STATE
		.... 1...		ICEBBPND	"B'00001000'" SESSION BB PENDING STATE
		.... .1..		ICEEBPND	"B'00000100'" SESSION EB PENDING STATE
		.... ..1.		ICECHDIR	"B'00000010'" SESSION CD PENDING STATE
		.... ...1		ICECNECT	"B'00000001'" SESSION IS CONNECTED (OPNDST)
		...1 11..		ICEBRCKT	"B'00011100'" BRACKET STATUS INDICATOR

Table 241. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10'	0	ICETRCLN	"*-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
		1...		ICESIMPL	"B'10000000'" IMPLIED SUSPEND WITHOUT FM HEADER
		.1..		ICESUSPD	"B'01000000'" SUSPEND IN PROGRESS. \$WAIT NEEDED
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1'	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2'	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3'	0	ICEFRZCR	"3" CRITICAL ERROR
29	(1D)	X'4'	0	ICEFRZRE	"4" HASPSICE RECOVERY
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
		1...		ICEXRDNA	"B'10000000'" DEST NOT ACCEPTING FURTHER DATA
		.1..		ICEXRCPY	"B'01000000'" DEST NOT HANDLING MULTIPLE COPIES
		..1.		ICENSXIT	"B'00100000'" NSXIT SCHEDULED FLAG
		...1		ICEQUIES	"B'00010000'" QUIESCE THEN SHUTDOWN FLAG
		.... 1...		ICERSTSR	"B'00001000'" RESETSR CS MODE RPL ISSUED
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINHDL	INBOUND QUEUE HEAD BUFFER PTR
44	(2C)	ADDRESS	4	ICEINTL	INBOUND QUEUE TAIL BUFFER PTR
48	(30)	ADDRESS	2	ICEOUTLM	OUTBOUND QUEUE LIMIT
50	(32)	ADDRESS	2	ICEOUTCT	OUTBOUND QUEUE COUNTER
52	(34)	ADDRESS	4	ICEOUTBF	OUTBOUND OUTSTANDING BUFFER PTR
56	(38)	ADDRESS	4	ICEOUTHDL	OUTBOUND QUEUE HEAD BUFFER PTR
60	(3C)	ADDRESS	4	ICEOUTTL	OUTBOUND QUEUE TAIL BUFFER PTR
64	(40)	ADDRESS	4	ICEADCT	ADDR OF ASSOCIATED LOGON DCT
68	(44)	ADDRESS	4	ICELDCT	ADDR OF ASSOCIATED LINE DCT
72	(48)	ADDRESS	4	ICERDCT	ADDR OF ASSOCIATED REMOTE DCT (RAT addr during autologon)

Table 241. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	ICESDCT	ADDR OF FIRST SUSPND RJE DCT ADDR OF NEXT TO POST NJE DCT
80	(50)	ADDRESS	4	ICEBUFAD	ADDR OF CURRENTLY SCHED BUFFER
84	(54)	ADDRESS	4	ICECPT	SESSION COMPACTION TABLE ADDR
88	(58)	ADDRESS	4	ICEDCPT	SESSION DECOMPACTION TABLE ADDR
92	(5C)	ADDRESS	4	ICEATE	ADDR OF SESS PARTNRS APT ENTRY
96	(60)	BITSTRING	4	ICEWTIME	SESSION ALLOC WAIT TIME STAMP
100	(64)	ADDRESS	4	ICECNTRS(0)	SESSION STATISTICS COUNTERS
100	(64)	ADDRESS	4	ICETOTAL	SESSION TOTAL SEND/REC COUNT
104	(68)	ADDRESS	4	ICEXRESP	SESSION EXECPTION RESP COUNT
108	(6C)	ADDRESS	4	ICELUSTA	SESSION LOG UNIT STATUS COUNT
112	(70)	ADDRESS	4	ICEBDREJ	SESSION BID REJECTED COUNT
116	(74)	ADDRESS	4	ICETEMP	SESSION TEMPORARY ERROR COUNT
120	(78)	BITSTRING	1	ICEFLGS2	SESSION STATUS FLAGS
	1... ..			ICEFREEZ	"B'10000000'" ICE FREEZE INDICATOR
	.1.. ..			ICEBDS	"B'01000000'" BEGIN DESTINATION SEL. RCVD
	..1.			ICEEDS	"B'00100000'" END DESTINATION SEL. RECVD
	...1			ICESTATI	"B'00010000'" STATE ERROR DETECTED
	.... 1...			ICE1STLU	"B'00001000'" FIRST SESSION FOR SMF
	.... .1..			ICESIGNL	"B'00000100'" DATAFLOW INRPT PENDING
	.... ..1.			ICEOUTBK	"B'00000010'" DF INRPT OUTBD FOR OUTBD
	.... ...1			ICEBREAK	"B'00000001'" DATAFLOW BREAK PENDING
121	(79)	BITSTRING	1	ICENJEF1	NJE FLAG BYTE1-SESS START FLAG
	1... ..			ICENJE	"B'10000000'" ICE BEING USED BY NJE SESSION
	.1.. ..			ICEPRIME	"B'01000000'" ICE REPRESENTS PRIMARY NJE APPL
	.... 1...			ICEFMHR4	"B'00001000'" NJE FMH (TYPE 4) RECEIVED
	.... .1..			ICEFMHRV	"B'00000100'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) RECEIVED
	.... ..1.			ICEFMHS4	"B'00000010'" NJE FM HDR 4 SUCCESSFULLY SENT (+RSP TO HDR RECEIVED)
	.... ...1			ICEFMHST	"B'00000001'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) SUCCESSFULLY SENT
122	(7A)	BITSTRING	1	ICENJEF2	NJE FLAG BYTE2-SESS SHTDWN FLAG
	1... ..			ICEQUIET	"B'10000000'" ORDERLY SHUTDOWN IN PROGRESS
	.1.. ..			ICEUNBD	"B'01000000'" UNBIND RECEIVED FROM PLU
	..1.			ICERSHUT	"B'00100000'" REQUEST SHUTDOWN CONTROL RCVD
	...1			ICETERMS	"B'00010000'" TERMSESS ISSUED
	.... 1...			ICETSC	"B'00001000'" TERMSESS COMPLETE
	.... .1..			ICERCON	"B'00000100'" ICE ALLOCATED TO RCP
	.... ..1.			ICERSCN	"B'00000010'" RESCAN LINES FOR PASSWORD

Table 241. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
123	(7B)	BITSTRING	1	ICEFLGS3	ADDITIONAL SESSION STATUS
		1...		ICE3SIMI	"B'10000000'" SIMLOGON ISSUED
		.1..		ICE3SIMA	"B'01000000'" SIMLOGON ACCEPTED
		..1.		ICE3SIMC	"B'00100000'" SIMLOGON COMPLETE
		...1		ICE3LOGX	"B'00010000'" LOGON EXIT18 INVOKED
		.... 1...		ICE3RATA	"B'00001000'" ICERDCT FIELD CONTAINS A RAT ADDRESS
		.... .1..		ICE3WINC	"B'00000100'" Wait for inbound buffer count to go to zero
124	(7C)	BITSTRING	40	ICEBAREA(0)	BIND/NSP DATA AREA
124	(7C)	BITSTRING	36	ICEBIND	SESSION BIND IMAGE
160	(A0)	BITSTRING	4		Additional space for NSP
164	(A4)	ADDRESS	4	ICELOST	Chain of frozen ICEs
168	(A8)	DBL WORD	8	ICEXTWRK(0)	VTAM EXIT ROUTINE WORK AREA
168	(A8)	SIGNED	4	ICEXTWCD(0)	VTAM EXIT ROUT ACTION CODE WORD
168	(A8)	BITSTRING	3		RESERVED
171	(AB)	BITSTRING	1	ICEXTCOD	VTAM EXIT ROUTINE ACTION CODE
172	(AC)	ADDRESS	4	ICEXTCHN	VTAM EXIT ROUTINE ICE CHAIN
176	(B0)	CHARACTER	8	ICELMODE	VTAM LOGMODE
184	(B8)	DBL WORD	8	ICECLR(0)	End of area to be cleared when ICE is initialized
ICE Trace area This trace area is updated regularly with activity related to this ICE. ICETEA is the address of the current (last used) trace area. The trace wraps when it reaches the end.					
184	(B8)	X'C'	0	ICETNUM	"12" Number of entries in trace
184	(B8)	ADDRESS	4	ICETEA	Addr of current trace entry
188	(BC)	SIGNED	4		Reserved
192	(C0)	DBL WORD	8	ICETTIME	Time of last trace
200	(C8)	DBL WORD	8	ICET1ST(0)	First trace entry
200	(C8)	BITSTRING	0	(0)	Actual trace entries
848	(350)	BITSTRING	1	ICETEND(0)	End of ICE trace table
848	(350)	DBL WORD	8	(0)	Double word align ICE
848	(350)	X'350'	0	ICESIZE	"*-ICE" LENGTH OF ICE DSECT
ICERCVST/ICESNDST					
		1111		ICEDSTRM	"B'11110000'" STATE MASK
		.... ....		ICERESUM	"B'00000000'" RESUME SUSPENDED DATA SET
		...1		ICENMEND	"B'00010000'" NORMAL END OF DATA SET
		..1.		ICEBEGIN	"B'00100000'" BEGINNING OF DATA SET
		..11		ICEODS	"B'00110000'" BEGIN/END OF DATA SET
		.1..		ICESPEND	"B'01000000'" SUSPEND DATA SET
		.1.1		ICEABEND	"B'01010000'" ABORT DATA SET (NO RESUME)
		.11.		ICECONT	"B'01100000'" CONTINUE DESTINATION
		.111		ICESTRS1	"B'01110000'" RESERVED

Table 241. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ICESTRS2	"B'10000000'" RESERVED
		1..1		ICESTRS3	"B'10010000'" RESERVED
		1.1.		ICESTRS4	"B'10100000'" RESERVED
		1.11		ICESTRS5	"B'10110000'" RESERVED
		11..		ICESTRS6	"B'11000000'" RESERVED
		11.1		ICESTRS7	"B'11010000'" RESERVED
		111.		ICENOFMH	"B'11100000'" DATAFLOW HAS NO FMH PENDING
		1111		ICEINSTR	"B'11110000'" DATAFLOW NO FMH PEND
		.... 1...		ICEINCHN	"B'00001000'" DATAFLOW IN CHAIN STATE
		.... .1..		ICEOCPND	"B'00000100'" DATAFLOW EOC PEND STATE
		.... ..1.		ICECNCEL	"B'00000010'" DATAFLOW CHAIN CANCELED
		.... ...1		ICEWTRSP	"B'00000001'" DATAFLOW WAITING FOR RESPONSE

Table 242. Structure ICETNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICETNTRY	, ICE trace entry DSECT
0	(0)	SIGNED	2	ICETTYPE(0)	Trace identifier
0	(0)	BITSTRING	1	ICETID1	Trace identifier 1
0	(0)	X'1'	0	ICETBUF	"1" Buffer end proc
0	(0)	X'2'	0	ICETICE	"2" ICE exit processing
0	(0)	X'3'	0	ICETPEND	"3" TPEND exit processing
0	(0)	X'4'	0	ICETSRMT	"4" Start Remote
0	(0)	X'5'	0	ICETERPL	"5" Execute RPL
0	(0)	X'6'	0	ICETFBUF	"6" Buffer free
0	(0)	X'7'	0	ICETSSAL	"7" Autolog SAF completion
1	(1)	BITSTRING	1	ICETID2	Trace identifier 2 (Meaning based on id 1)
1	(1)	X'2'	0	ICETCLC1	"*-ICETNTRY" Length for compare
2	(2)	SIGNED	2	ICETSEQ	Trace sequence number
4	(4)	BITSTRING	1	ICETREST(0)	Used to skip SEQ in CLC

ICE status fields

4	(4)	BITSTRING	1	ICETSTAT	ICESTAT
5	(5)	BITSTRING	1	ICETFLGS	ICEFLAGS
6	(6)	BITSTRING	1	ICETRCTS	ICERCVST
7	(7)	BITSTRING	1	ICETSNDS	ICESNDST
8	(8)	BITSTRING	1	ICETINDX	ICEINDEX
9	(9)	BITSTRING	2	ICETCID	ICECID+2
11	(B)	BITSTRING	1	ICETSUSF	ICESUSFL
12	(C)	BITSTRING	1	ICETFLG2	ICEFLGS2
13	(D)	BITSTRING	1	ICETFLG3	ICEFLGS3
14	(E)	BITSTRING	1	ICETNJF1	ICENJEF1
15	(F)	BITSTRING	1	ICETNJF2	ICENJEF2

Table 242. Structure ICETNTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
RPL status fields (if no RPL then all fields are X'FF')					
16	(10)	ADDRESS	4	ICETRPLA	RPL address
20	(14)	BITSTRING	1	ICETRREQ	RPLREQ
21	(15)	BITSTRING	1	ICETSRTY	RPLSRTYP
22	(16)	BITSTRING	2	ICETSEQN	RPLSEQNO
24	(18)	BITSTRING	1	ICETVFL2	RPLVTFL2
25	(19)	BITSTRING	3	ICETCNTR	RPLCNTRL
28	(1C)	BITSTRING	1	ICETCHN	RPLCHN
29	(1D)	BITSTRING	1	ICETRH3	RPLRH3
30	(1E)	BITSTRING	1	ICETRTRNC	RPLRTNCD
31	(1F)	BITSTRING	1	ICETFDB2	RPLFDB2
32	(20)	BITSTRING	4	ICETFDBK	RPLFDBK2
36	(24)	BITSTRING	1	ICETRWHH	RPLWHRCH
37	(25)	BITSTRING	1	ICETRWH2	RPLWHRC2
LOGON DCT fields (if no DCT then all fields are X'FF')					
38	(26)	BITSTRING	1	ICETASTA	Logon DCTSTAT
39	(27)	BITSTRING	1	ICETAFLS	Logon DCTFLAGS
40	(28)	BITSTRING	1	ICETAFL2	Logon DCTFLAG2
41	(29)	BITSTRING	1	ICETAMST	Logon MDCTSTAT
LINE DCT fields (if no DCT then all fields are X'FF')					
42	(2A)	BITSTRING	1	ICETLSTA	Line DCTSTAT
43	(2B)	BITSTRING	1	ICETLFLS	Line DCTFLAGS
44	(2C)	BITSTRING	1	ICETLFL2	Line DCTFLAG2
45	(2D)	BITSTRING	1	ICETLMST	Line MDCTSTAT
DEVICE DCT fields (if no device DCT - ICERDCT - then all fields are X'FF')					
46	(2E)	BITSTRING	1	ICETRSTA	Device DCTSTAT
47	(2F)	BITSTRING	1	ICETRFLS	Device DCTFLAGS
48	(30)	BITSTRING	1	ICETRFL2	Device DCTFLAG2
49	(31)	BITSTRING	1	ICETRDID	Device DCTDEVID
ICETCNT is a count of the number of events which have occurred which would have created trace entries which were identical except for the sequence number. The trace entry contains the most recent sequence number.					
52	(34)	BITSTRING	1		Reserved for future
52	(34)	X'31'	0	ICETCLC2	"*-ICETREST" Length for compare
53	(35)	BITSTRING	1	ICETCNT	Count of duplicate traces
53	(35)	X'36'	0	ICETEALN	"*-ICETNTRY" Length of a single entry

Table 243. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ICE	Re-establish ICE DSECT

Table 244. Cross Reference for \$ICE

Name	Offset	Hex	Tag
ICE	0		
ICE	0		
ICE#MSTR	27		
ICEABEND	350		50
ICEABORT	0		2
ICEACPTN	24		0
ICEADCT	40		
ICEALCHN	18		
ICEALLOC	0		40
ICEAPCHN	14		
ICEATE	5C		
ICEAVAIL	0		FF
ICEBAREA	7C		
ICEBBPND	1		8
ICEBDREJ	70		
ICEBDS	78		40
ICEBEGIN	350		20
ICEBIND	7C		0
ICEBRCKT	1		1C
ICEBREAK	78		1
ICEBUFAD	50		
ICECHDIR	1		2
ICECID	10		0
ICECLOSE	0		1
ICECLR	B8		
ICECNCEL	350		2
ICECNECT	1		1
ICECNTRS	64		
ICECONT	350		60
ICECPT	54		
ICEDCPT	58		
ICEDRAIN	0		80
ICEDSTRM	350		F0
ICEEBPND	1		4
ICEEDS	78		20

Table 244. Cross Reference for \$ICE (continued)

Name	Offset	Hex Tag
ICEFLAGS	1	0
ICEFLGS2	78	0
ICEFLGS3	7B	0
ICEFMHRV	79	4
ICEFMHR4	79	8
ICEFMHST	79	1
ICEFMHS4	79	2
ICEFREEZ	78	80
ICEFRZAB	1D	1
ICEFRZCR	1D	3
ICEFRZNL	1D	2
ICEFRZRC	1D	
ICEFRZRE	1D	4
ICEHOLD	0	10
ICEINBND	1	80
ICEINBRK	1	10
ICEINCHN	350	8
ICEINCT	22	
ICEINDEX	4	
ICEINHDD	28	
ICEINLM	20	
ICEINSTR	350	F0
ICEINTL	2C	
ICELDCT	44	
ICELMODE	B0	40404040
ICELOST	A4	
ICELUSTA	6C	
ICENJE	79	80
ICENJEF1	79	0
ICENJEF2	7A	0
ICENMEND	350	10
ICENOFMH	350	E0
ICENSXIT	26	20
ICEOCPND	350	4
ICEODS	350	30
ICEOUTBD	1	40
ICEOUTBF	34	
ICEOUTBK	78	2
ICEOUTCT	32	

Table 244. Cross Reference for \$ICE (continued)

Name	Offset	Hex Tag
ICEOUTH	38	
ICEOUTLM	30	
ICEOUTTL	3C	
ICEPRIME	79	40
ICEQUIES	26	10
ICEQUIET	7A	80
ICERCON	7A	4
ICERCPTN	25	0
ICERCVSP	0	4
ICERCVST	2	0
ICERDCT	48	
ICERESUM	350	0
ICEREVFL	1	20
ICERSCN	7A	2
ICERSHUT	7A	20
ICERSPCT	5	
ICERSTR	26	8
ICERTRPD	0	8
ICERULEN	6	
ICESDCT	4C	
ICESIGNL	78	4
ICESIMPL	1C	80
ICESIZE	350	350
ICESNDST	3	0
ICESPEND	350	40
ICESTAT	0	0
ICESTATI	78	10
ICESTRS1	350	70
ICESTRS2	350	80
ICESTRS3	350	90
ICESTRS4	350	A0
ICESTRS5	350	B0
ICESTRS6	350	C0
ICESTRS7	350	D0
ICESUSFL	1C	
ICESUSPD	1C	40
ICESYMB	8	40404040
ICETAFLS	27	0
ICETAFL2	28	0

Table 244. Cross Reference for \$ICE (continued)

Name	Offset	Hex Tag
ICETAMST	29	0
ICETASTA	26	0
ICETBUF	0	1
ICETCHN	1C	0
ICETCID	9	0
ICETCLC1	1	2
ICETCLC2	34	31
ICETCNT	35	0
ICETCNTR	19	0
ICETEA	B8	
ICETEALN	35	36
ICETEMP	74	
ICETEND	350	
ICETERMS	7A	10
ICETERPL	0	5
ICETFBUF	0	6
ICETFDBK	20	0
ICETFDB2	1F	0
ICETFLGS	5	0
ICETFLG2	C	0
ICETFLG3	D	0
ICETICE	0	2
ICETID1	0	
ICETID2	1	
ICETIMER	0	20
ICETINDX	8	0
ICETLFLS	2B	0
ICETLFL2	2C	0
ICETLMST	2D	0
ICETLSTA	2A	0
ICETNJF1	E	0
ICETNJF2	F	0
ICETNTRY	0	
ICETNUM	B8	C
ICETOTAL	64	
ICETPEND	0	3
ICETRCLN	8	10
ICETRCTS	6	0
ICETRDID	31	0

Table 244. Cross Reference for \$ICE (continued)

Name	Offset	Hex Tag
ICETREST	4	
ICETRFLS	2F	0
ICETRFL2	30	0
ICETRH3	1D	0
ICETRPLA	10	
ICETRREQ	14	0
ICETRSTA	2E	0
ICETRTNC	1E	0
ICETRWHH	24	0
ICETRWH2	25	0
ICETSC	7A	8
ICETSEQ	2	
ICETSEQN	16	0
ICETSNDS	7	0
ICETSRMT	0	4
ICETSRTY	15	0
ICETSSAL	0	7
ICETSTAT	4	0
ICETSUSF	B	0
ICETIME	C0	
ICETTYPE	0	
ICETVFL2	18	0
ICET1ST	C8	
ICEUNBD	7A	40
ICEWTIME	60	0
ICEWTRSP	350	1
ICEXRCPY	26	40
ICEXRDNA	26	80
ICEXRESP	68	
ICEXRFBK	26	0
ICEXTCHN	AC	
ICEXTCOD	AB	0
ICEXTWCD	A8	
ICEXTWRK	A8	
ICE1STLU	78	8
ICE3LOGX	7B	10
ICE3RATA	7B	8
ICE3SIMA	7B	40
ICE3SIMC	7B	20

Table 244. Cross Reference for \$ICE (continued)

Name	Offset	Hex Tag
ICE3SIMI	7B	80
ICE3WINC	7B	4

\$INIWARM information

\$INIWARM heading information

Common name:	HASPIR* to HASPWARM Communications block.
Macro ID:	\$INIWARM
DSECT name:	INW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	INIW Offset: INWID Length: 4
Storage attributes:	Subpool: 0 Key: 1 Residency: Real and virtual anywhere
Size:	See INWSIZE
Created by:	HASPIRA
Pointed to by:	\$INIWARM field of the \$HCT data area
Serialization:	None necessary. HASPIR* modules are only modules updating the area.
Function:	There is data and circumstances uncovered by initialization modules which need to be known by warmstart. The warmstart PCE is created late in initialization and thus is unavailable for storing the data. The initialization PCE is removed after initialization completes and thus is unavailable to warmstart. This block fills the gap.

\$INIWARM mapping

Table 245. Structure INW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	INW	
0	(0)	CHARACTER	4	INWID	Eye catcher
4	(4)	BITSTRING	200	INWQSE	Qse for this member that existed before initialization began
204	(CC)	BITSTRING	1	INWFLAG1	Flags
		.1..		INW1BRTD	"B'01000000" BERT \$DISTERR issued
205	(CD)	ADDRESS	4	INDOM493	DOM id for HASP493 issued from initialization
209	(D1)	BITSTRING	3	INWBRTLN	Length of BERT usage map
212	(D4)	ADDRESS	4	INWBRTMP	BERT usage map

Table 245. Structure INW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The TSUCLASS, STCCCLASS and JOBCCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions are copied from \$CIRWORK in case installation processing wants to change the default values. \$ADD JOBCCLASS uses these values post initialization.</p>					
216	(D8)	CHARACTER	24	INWROPSL	TSUCLASS defaults
240	(F0)	CHARACTER	24	INWROPST	STCCCLASS defaults
264	(108)	CHARACTER	24	INWROPSU	JOBCCLASS defaults
<p>If there is a STEPLIB in the JES2 PROC, INWSTEPL points to a data area that contains the data sets in the STEPLIB concatenation. This area is mapped using the INIDSN mapping below.</p>					
288	(120)	ADDRESS	4	INWSTEPL	STEPLIB data set info
<p>The following maps the initialization data sets used when JES2 was started and the number of cards read from each. This area is mapped using the INIDSN mapping below.</p>					
292	(124)	ADDRESS	4	INWDECKL	Init deck info address
Command used to start JES2					
296	(128)	CHARACTER	126	INWSTRCM	Command used to start JES2
424	(1A8)	SIGNED	4	(0)	Alignment
Ultimate default job class for JES2					
424	(1A8)	CHARACTER	8	INWDEFCL	Default job class
Initialization status indicators					
432	(1B0)	BITSTRING	1	INWIFLAG	Init status flags
		1...		INWIFWRN	"B'10000000" Warning message issued
		.1..		INWIFIER	"B'01000000" Error on init statement
		..1.		INWIFVAL	"B'00100000" Error post init deck
		...1		INWIFREA	"B'00010000" Init deck read/open error
		.... 1...		INWIFCFG	"B'00001000" Incompatible configuration
		.... .1..		INWIFXIT	"B'00000100" Exit requested termination
433	(1B1)	BITSTRING	1	INWIFLG2	Init status flags
		1...		INWF2JQE	"B'10000000" Job queue error
		.1..		INWF2JXE	"B'01000000" JQE Extension error
		..1.		INWF2JOE	"B'00100000" Output queue error
		...1		INWF2BRT	"B'00010000" BERT error encountered
		.... 1...		INWF2CAT	"B'00001000" CAT error encountered
434	(1B2)	BITSTRING	2		Reserved
Error counts (corresponds to flags above)					
436	(1B4)	SIGNED	4	INWICWRN	Warning message count
440	(1B8)	SIGNED	4	INWICIER	Error on init statement

Table 245. Structure INW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
444	(18C)	SIGNED	4	INWICVAL	Error post init deck
448	(1C0)	SIGNED	4	INWICREA	Init deck read/open error
452	(1C4)	SIGNED	4	INWICCFG	Incompatible configuration
456	(1C8)	SIGNED	4	INWICXIT	Exit requested termination
460	(1CC)	BITSTRING	4		Reserved
Token returned by the call to the IFAEDREG register service that needs to be saved and passed into the IFAEDDRG deregister service.					
464	(1D0)	CHARACTER	8	INWDRGTK	Register Service Token
472	(1D8)	DBL WORD	8	(0)	Ensure alignment
472	(1D8)	X'1D8'	0	INWSIZE	"*-INW" Length of INIWARM

Table 246. Structure INIDSN

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	INIDSN	, Data set list header
0	(0)	CHARACTER	4	IDSNDID	Eyecatcher
4	(4)	SIGNED	4	IDSNNLEN	Total length of area
8	(8)	SIGNED	4	IDSNNFRST	First data set number
12	(C)	SIGNED	4	IDSNNLAST	and last data set number
16	(10)	SIGNED	4	IDSNNMAX	Max space for DS names
20	(14)	SIGNED	4		Reserved
24	(18)	CHARACTER	8	IDSNNTYPE	Type of data sets
32	(20)	DBL WORD	8	IDSNNSTRT(0)	Start of DSN list
32	(20)	BITSTRING	18432	(0)	Default number of entries
18464	(4820)	DBL WORD	8	(0)	End of header
18464	(4820)	X'4820'	0	IDSNNSIZE	"*-INIDSN" Default area length

Table 247. Structure INIDSNE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	INIDSNE	, Data set list entry
0	(0)	CHARACTER	54	IDSENAM(0)	Data set name (and member)
0	(0)	CHARACTER	44	IDSEDSN	Data set name
44	(2C)	CHARACTER	10	IDSEMEMA(0)	Member area
44	(2C)	CHARACTER	1	IDSEMEMO	Open parenthesis
45	(2D)	CHARACTER	8	IDSEMEMB	Member name
53	(35)	CHARACTER	1	IDSEMEMC	Close parenthesis
54	(36)	BITSTRING	6	IDSEVOL	First VOLSER
60	(3C)	BITSTRING	8	IDSEUNIT	First UNIT address
68	(44)	SIGNED	4	IDSECNCT	Type dependent count
72	(48)	DBL WORD	8	(0)	Alignment
72	(48)	X'48'	0	IDSESIZE	"*-INIDSNE" Data set entry length

Table 248. Cross Reference for \$INIWARM

Name	Offset	Hex Tag
IDSECNT	44	
IDSEDSN	0	
IDSEMEMA	2C	
IDSEMEMB	2D	
IDSEMEMC	35	
IDSEMEMO	2C	
IDSENAME	0	
IDSESIZE	48	48
IDSEUNIT	3C	
IDSEVOL	36	
IDSNFRST	8	1
IDSNID	0	C9C4E2D5
IDSNLAST	C	1
IDSNLEN	4	
IDSNMAX	10	100
IDSNSIZE	4820	4820
IDSNSTRT	20	
IDSNTYPE	18	
INDOM493	CD	
INIDSN	0	
INIDSNE	0	
INW	0	
INWBRTLN	D1	
INWBRTMP	D4	
INWDECKL	124	
INWDEFCL	1A8	
INWDRGTK	1D0	
INWFLAG1	CC	
INWF2BRT	1B1	10
INWF2CAT	1B1	8
INWF2JOE	1B1	20
INWF2JQE	1B1	80
INWF2JXE	1B1	40
INWICCFG	1C4	
INWICIER	1B8	
INWICREA	1C0	
INWICVAL	1BC	
INWICWRN	1B4	
INWICXIT	1C8	

Table 248. Cross Reference for \$INIWARM (continued)

Name	Offset	Hex Tag
INWID	0	C9D5C9E6
INWIFCFG	1B0	8
INWIFIER	1B0	40
INWIFLAG	1B0	
INWIFLG2	1B1	
INWIFREA	1B0	10
INWIFVAL	1B0	20
INWIFWRN	1B0	80
INWIFXIT	1B0	4
INWQSE	4	
INWROPSL	D8	F0F0F0F0
INWROPST	F0	F0F0F0F0
INWROPSU	108	F0F0F0F0
INWSIZE	1D8	1D8
INWSTEPL	120	
INWSTRCM	128	
INW1BRTD	CC	40

\$IOT information

\$IOT programming interface information

The following field is **NOT** programming interface information:

- IOTTGADR

\$IOT heading information

Common name: JES2 Input/Output Table

Macro ID: \$IOT

DSECT name: IOT

Owning component: JES2 (SC1BH)

Eye-catcher ID: IOT
Offset: IOTID-IOT
Length: L'IOTID

Storage attributes: Subpool: 0 for Main Task,
230 for User Environment,
231 for Spin IOT.
Key: 1 for Main Task,
5 for User Environment,
1 for Spin IOT.
Residency: The \$IOT is a JES2 spool resident control block.
Real and virtual storage can be anywhere (above or below 16M).

Size:	See IOTLENG
Created by:	Primary Allocation IOT - Most commonly created at reader time (HASPRDR), but also created dynamically when spin data sets are allocated. Secondary Allocation IOT - \$TRACK routine in HASPTRAK and \$STRAK routine in HASCSRIC as are needed. PDDB only IOT - HASPNET, HASPRDR, HASCDSAL or HASCJBST.
Pointed to by:	CHKIOTTC field of the \$CHK data area (addr on spool) GCBIOTTR field of the \$GCB data area (addr on spool) CCTSPIOT field of the \$HCCT data area (LIFO spin Q) CCTSPIOT field of the \$HCCT data area (FIFO spin Q) \$NEWSIOT field of the \$HCT data area (addr on spool) JCTSPIOT field of the \$JCT data area (addr on spool) JCTIOT field of the \$JCT data area (addr on spool) JIBIOT field of the \$JIB data area JIBIOTTR field of the \$JIB data area (addr on spool) JIBFIOTR field of the \$JIB data area (addr on spool) JNEWIOTT field of the \$JNEW data area (addr on spool) JOEIOTTR field of the \$JOE data area (addr on spool) JQETRAK_Z22 field of \$JQE data area (addr on spool) JQYTRAK field of the \$JQE data area (addr on spool) MTLMTTR field of the \$MTL data area (addr on spool) PDBPIOT field of the \$PDDB data area PDBSPTR field of the \$PDDB data area (addr on spool) PSOIOT field of the \$PSO data area (addr on spool) PSOANCHR field of the \$PSO data area (addr on spool) SDBPIOT field of the \$SDB data area SDBAIOT field of the \$SDB data area SJB IOT field of the \$SJB data area SJBSP IOT field of the \$SJB data area SJXBS IOT field of the \$SJXB data area SJXRIOT field of the \$SJXB data area TABAIOT field of the \$TAB data area Various fields in the processor work areas and parameter lists.
Serialization:	While a job is in execution, the IOT resides in the user address space, so that no other JES2 PCE will update the IOT. At other times, various types of serialization are used for the different types of IOTs. ENQ/DEQ logic is used for Secondary Allocation IOTs. Compare-and-swap logic is used for Spin IOTs.
Function:	The IOT is a spool resident control block that describes the spool space used by a job (all the space allocated to data sets, control blocks, etc.). It also holds the information on the job's data sets.

\$IOT mapping

Table 249. Structure IOT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOT	HASP INPUT/OUTPUT TABLE DSECT

Table 249. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL. BUFMEMD1, BUFMEMW1, BUFMEMW2, BUFMEMW3, and BUFMEMW5 are used by HAM when writing out IOTs for SYSOUT data sets. They cannot be used in the IOT if it could be written by HASCHAM.</p>					
0	(0)	X'50'	0	IOTFLAG4	"BUFMEFLG1-BFPDSECT+IOT,1" Fourth flag byte (memory resident only)
0	(0)	X'80'	0	IOT4CKPT	"BUFM1CKP" Rewrite this IOT
0	(0)	X'51'	0	IOTFLAG5	"BUFMEMF2-BFPDSECT+IOT,1" Fifth flag byte (memory resident only)
0	(0)	X'80'	0	IOT5CSDB	"BFD2CSDB" B'10000000' Write IOT in HAM (under the SDB)
0	(0)	X'40'	0	IOT5CSFR	"BFD2CSFR" B'01000000' HAM CEA should free IOT
0	(0)	X'10'	0	IOT5IOE	"BFD2IOE" B'00010000' I/O error (HAM PUT only)
0	(0)	X'58'	0	IOTJCT	"BUFMEMW6-BFPDSECT+IOT,4" Storage address of JCT (referenced only in allocation IOTs)
0	(0)	X'5C'	0	IOTIOT	"BUFMEMW7-BFPDSECT+IOT,4" Storage address of next IOT
0	(0)	X'10'	0	IOTIOT64	"BFPCHN64-BFPDSECT+IOT,8" 64 bit storage address of next IOT
0	(0)	X'5C'	0	IOTCSASP	"BUFMEMW7-BFPDSECT+IOT,4" CSA spin IOT chain pointer
0	(0)	X'64'	0	IOTBWP	"BUFWRBWK-BFPDSECT+IOT,4" Storage address of prev IOT
0	(0)	X'64'	0	IOTJOE	"BUFWRBWK-BFPDSECT+IOT,4" Offset of JOE for SPIN IOT while in HASPSPIN
<p>There will be only one secondary allocation IOT on this memory chain.</p>					
0	(0)	X'4C'	0	IOTIOTA	"BUFMEMW4-BFPDSECT+IOT,4" Storage address of secondary IOT
<p>The following fields are used ONLY in the CSA SPIN IOT. They can be used because the only buffer prefix field used in the CSA queued SPIN IOT is the CSA chaining field.</p>					
24	(18)	CHARACTER	8	IOTNTEYE	Eye catcher
32	(20)	CHARACTER	32	IOTNOTPL	Parm list storage for \$HNOTIFY call from DSAL
End of buffer prefix fields					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	IOTSTART	"*" START OF DATA WRITTEN TO SPOOL
<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)</p>					
104	(68)	CHARACTER	4	IOTID	Eyecatcher

Table 249. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
108	(6C)	CHARACTER	8	IOTJNAME	Job name
116	(74)	SIGNED	4	IOTJBNUM	Job number
120	(78)	SIGNED	4	IOTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	IOTSPLNG	"*-IOTID"
128	(80)	ADDRESS	2	IOTLENG	LENGTH OF IOT INCLUDING PREFIX
130	(82)	BITSTRING	1	IOTFLAG1	FIRST FLAG BYTE
131	(83)	BITSTRING	1	IOTFLAG2	SECOND FLAG BYTE
132	(84)	BITSTRING	4	IOTTRACK	TRACK ADDRESS OF THIS IOT
136	(88)	BITSTRING	4	IOTIOTTR	TRACK ADDRESS OF NEXT IOT
<p>IOTMTHER is the allocation IOT associated with the PDDBs in this IOT. It is the job allocation IOT in non-spin PDDB-only IOTs, and the spin 'mother' IOT in spin-daughter PDDB IOTs. It is zero in the job (primary) allocation IOT and spin mother (primary) allocation IOTs and in secondary allocation IOTs. IOTMTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.</p>					
140	(8C)	SIGNED	4	IOTMTHER	MTTR of mother alloc IOT
144	(90)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Characteristic (MOC) spool chain
148	(94)	SIGNED	4		Reserved
140	(8C)	BITSTRING	6	IOTPRMQT	MQTR of primary alloc IOT
146	(92)	BITSTRING	2		Reserved
148	(94)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
152	(98)	SIGNED	2	IOTTGOFL	Offset of 1st MQT Version 1 IOTs only. Must be zero in version 0 IOTs
154	(9A)	SIGNED	2	IOTTGOFF	Offset of free TGAE space
156	(9C)	SIGNED	4	IOTJQOFF	JQE OFFSET
160	(A0)	BITSTRING	1	IOTFLAG3	Third flag byte
IOTFLAG3					
	1... ..			IOT3NUTK	"B'10000000" New track obtained after a close failure
	.1.. ..			IOT3MOCF	"B'01000000" Mother instance counting has failed
<p>TGAEs in IOTs come in 3 flavors. Version 0 - Old style IOT with all TGAEs being 3 bytes in length Version 1 - An IOT that started off as a version 0 IOT with 3 byte TGAEs but an M of X'FF' was added to convert remaining TGAEs to 5 byte TGAEs Version 2 - An IOT with all 5 byte TGAEs</p>					
161	(A1)	BITSTRING	1	IOTVER	IOT Version number
161	(A1)	X'0'	0	IOTVER0	"0" Vrsn 0 IOT (short TGAEs)
161	(A1)	X'1'	0	IOTVER1	"1" Vrsn 1 IOT (Mixed TGAEs)
161	(A1)	X'2'	0	IOTVER2	"2" Vrsn 2 IOT (long TGAEs)
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	(2)	Reserved for future use
172	(AC)	SIGNED	4	IOTPDDBP	OFFSET BEYOND LAST PDDB IN IOT

Table 249. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	SIGNED	4	IOTPDDB	OFFSET TO FIRST PDDB IN IOT
180	(B4)	SIGNED	4	IOTDSCT	Offset of DSCT in IOT
184	(B8)	BITSTRING	4	IOTCKRC	MTTR OF CHK SPL REC - SPIN IOTS
188	(BC)	SIGNED	4	IOTMUCTR	Multiple Output Characteristics (MOC) Counter
192	(C0)	SIGNED	4	IOTCKTKN	Checkpoint token for spin data sets
196	(C4)	CHARACTER	8	IOTUSER	Userid which allocated datasets in this IOT (Only set by spool reload)
208	(D0)	DBL WORD	8		Reserved for future use
ALLOCATION IOT (BOTH PRIMARY AND SECONDARY)					
216	(D8)	DBL WORD	8	IOTALTAB(0)	Allocation TAB (DWORD aligned for CDS on TABMTTR). Refer to the \$TAB macro for TAB type descriptions
216	(D8)	X'D8'	0	IOTMSTAB	"IOTALTAB,L'IOTALTAB" Former field name for non-IBM code references
228	(E4)	SIGNED	4		Reserved
232	(E8)	DBL WORD	8	(0)	ALIGN FOLLOWING DOUBLEWORD
232	(E8)	SIGNED	4	IOTCYMXM	MAX TTR THIS TRACK GROUP
236	(EC)	SIGNED	4	IOTCELL	MTTR OF NEXT AVAILABLE TRACCELL
236	(EC)	X'E8'	0	IOTRCPBA	"IOTCYMXM,*-IOTCYMXM" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES IN RTAM
240	(F0)	BITSTRING	32	IOTSPMSK	MASK OF SPOOLS ALLOCATED ON
272	(110)	BITSTRING	32	IOTSAMSK	SPOOLS ALLOWED MASK
304	(130)	SIGNED	3	IOTFAMLY	Family ID for MOCA IOTs
307	(133)	BITSTRING	1		Reserved for future use
308	(134)	ADDRESS	4		Reserved for future use
312	(138)	DBL WORD	8		Reserved for future use
312	(138)	X'3'	0	IOTTGAEL	"3" Length of short TGAE (MTT)
312	(138)	X'5'	0	IOTTGA2L	"5" Long TGAE length (MQT)
312	(138)	X'140'	0	IOTTGAE	"*" START OF TRACK GROUP ALLOCATION ENTRIES (TGAE'S)
NON-ALLOCATION IOT (PDDB IOT)					
216	(D8)	DBL WORD	8	(2)	RESERVED FOR FUTURE USE
232	(E8)	SIGNED	4	IOTPDDB1(0)	FIX IOT OFFSET TO LOCATION OF FIRST PDDB WITHIN A PDDB IOT
IOTFLAG1					
	.1..			IOT1UNSP	"B'01000000'" IOT IS UNSPIN
	..1.			IOT1AL02	"B'00100000'" IOT IS SECONDARY ALLOCATION IOT
	...1			IOT1SPIN	"B'00010000'" IOT TYPE IS SPIN
	.... 1...			IOT1ALOC	"B'00001000'" IOT is a primary allocation IOT (mutually exclusive with IOT1AL02)
	.... .1..			IOT1NTPR	"B'00000100'" TO BE PROC. BY SPIN/HOLD
	.... ..1.			IOT1NEWS	"B'00000010'" JESNEWS IOT

Table 249. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		IOT1NEW	"B'00000001'" 2NDARY ALLOC IOT HAS BEEN BUILT
		IOTFLAG2			
		1...		IOT2UNAL	"B'10000000'" IOT HAS BEEN UNALLOCATED
		.1...		IOT2RUBL	"B'01000000'" IOT IS REUSABLE
		..1.		IOT2RUED	"B'00100000'" IOT HAS BEEN REUSED
		...1		IOT2NLPL	"B'00010000'" IOT CONTAINS ONLY NULL PLACEHOLDER PDDBS
		.... 1...		IOT2NSPN	"B'00001000'" SPIN IOT WAS UNALLOCATED AS NO-SPIN
		.... .1..		IOT2DSCT	"B'00000100'" DSCT contains valid info
		.... ..1.		IOT2SPNB	"B'00000010'" IOT is busy in HASPSPIN
		.... ...1		IOT2SPER	"B'00000001'" I/O error incurred writing IOT

Table 250. Cross Reference for \$IOT

Name	Offset	Hex	Tag
IOT	0		
IOTALTAB	D8		
IOTBWP	0		64
IOTCELL	EC		
IOTCKRC	B8		
IOTCKTKN	C0		
IOTCSASP	0		5C
IOTCYMXM	E8		
IOTDSCT	B4		
IOTFAMLY	130		
IOTFLAG1	82		
IOTFLAG2	83		
IOTFLAG3	A0		
IOTFLAG4	0		50
IOTFLAG5	0		51
IOTID	68		
IOTIOT	0		5C
IOTIOTA	0		4C
IOTIOTTR	88		
IOTIOT64	0		10
IOTJBKEY	78		
IOTJBNUM	74		
IOTJCT	0		58

Table 250. Cross Reference for \$IOT (continued)

Name	Offset	Hex Tag
IOTJNAME	6C	
IOTJOE	0	64
IOTJQOFF	9C	
IOTLENG	80	
IOTMSTAB	D8	D8
IOTMTHER	8C	
IOTMUCTR	BC	
IOTMULTR	90	
IOTNOTPL	20	
IOTNTEYE	18	
IOTPDDB	B0	
IOTPDDBP	AC	
IOTPDDB1	E8	
IOTPRMQT	8C	
IOTRCPBA	EC	E8
IOTSAMSK	110	
IOTSPLNG	7C	18
IOTSPMSK	F0	
IOTSTART	0	68
IOTTGAE	138	140
IOTTGAEL	138	3
IOTTGATR	94	
IOTTGA2L	138	5
IOTTGOFF	9A	
IOTTGOFL	98	
IOTTRACK	84	
IOTUSER	C4	
IOTVER	A1	
IOTVER0	A1	0
IOTVER1	A1	1
IOTVER2	A1	2
IOT1ALOC	140	8
IOT1AL02	140	20
IOT1NEW	140	1
IOT1NEWS	140	2
IOT1NTPR	140	4
IOT1SPIN	140	10
IOT1UNSP	140	40
IOT2DSCT	140	4

Table 250. Cross Reference for \$IOT (continued)

Name	Offset	Hex Tag
IOT2NLPL	140	10
IOT2NSPN	140	8
IOT2RUBL	140	40
IOT2RUED	140	20
IOT2SPER	140	1
IOT2SPNB	140	2
IOT2UNAL	140	80
IOT3MOCF	A0	40
IOT3NUTK	A0	80
IOT4CKPT	0	80
IOT5CSDB	0	80
IOT5CSFR	0	40
IOT5IOE	0	10

\$IRE information

\$IRE programming interface information

\$IRE is a programming interface.

\$IRE heading information

Common name:	IRE
Macro ID:	\$IRE
DSECT name:	IRE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	IRE Offset: IREEYE-IRE Length: L'IREEYE
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in extended common storage
Size:	See IRELEN
Created by:	As a part of an ECSA CPOOL, the storage is obtained at CPOOL build time (called out of JES2 initialization processing). Elements are obtained during internal reader allocation processing.
Pointed to by:	CCTINTRE field of the HCCT data area HSBINTRE field of the HASB data area IRENEXT field of the IRE data area IREASNXT field of the IRE data area RIDIRE field of the IRWD data area

Serialization:

The IRE data area is obtained and added to the chains in the user address space. However, the IRE can only be deleted from the HCCT chain in the JES2 main task because the chain can be run by \$DRDI processing.

Function:

This area maps the data area used to track usage of internal readers. Each allocated has associated with it one tracking element in ECSA. This is used for the \$DRDI command.

\$IRE mapping

Table 251. Structure IRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRE	, Internal Reader Element
0	(0)	CHARACTER	4	IREEYE	Eyecatcher
4	(4)	ADDRESS	1	IREVER	Version
4	(4)	X'1'	0	IREVERN	"1" Initial version
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	10	IREDEVN	Device name
16	(10)	ADDRESS	4	IRENEXT	Next IRE on HCCT chain
20	(14)	ADDRESS	4	IREASNXT	Next IRE on HASB chain
24	(18)	ADDRESS	4	IREIRWD	Associated IRWD
28	(1C)	ADDRESS	4	IRESJB	Owning SJB (or zero)
32	(20)	ADDRESS	4	IREHASB	Owning HASB
36	(24)	BITSTRING	8	IREASCBT	Owning address space token
44	(2C)	CHARACTER	8	IREOJOBN	Owning job name
52	(34)	CHARACTER	8	IREOJBID	and JOBID
60	(3C)	SIGNED	4	IREJOBCT	Total job count
64	(40)	CHARACTER	8	IRECJOBN	Job name, JOBID and
72	(48)	CHARACTER	8	IRECJBID	job key of job currently
80	(50)	SIGNED	4	IRECJKEY	on this internal reader
84	(54)	SIGNED	4	IRECUREC	Records read for current job
88	(58)	CHARACTER	12	IRECCARD	Card currently being processed
100	(64)	BITSTRING	1	IRERAUTH	Reader command authority (see IRSRAUTH for bits)
101	(65)	BITSTRING	1	IREFLAGS	Processing flags
		1...		IRESIIND	"B'10000000" Independent mode
		.1..		IREHOLDJ	"B'01000000" Hold job (\$TJ...,H)
		..1.		IRETRACE	"B'00100000" Tracing is active
		...1		IREIRCAC	"B'00010000" IRE active in cleanup processing
		.... 1...		IRECLOSG	"B'00001000" INTRDR CLOSEing
102	(66)	BITSTRING	1	IRESTATS	Current RDR status
		1...		IREINACT	"B'10000000" IRE element logically deleted
		.1..		IREALLOC	"B'01000000" Internal reader allocated
		..1.		IREACTIV	"B'00100000" Internal reader active
103	(67)	BITSTRING	1		Reserved

Table 251. Structure IRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	CHARACTER	8	IREJCLAS	Default Job class
112	(70)	CHARACTER	1	IREMCLAS	Default MSGCLASS
113	(71)	CHARACTER	7		Reserved
120	(78)	BITSTRING	4	IRESIAFF	Default system affinity
124	(7C)	SIGNED	4	IREPRINT(0)	Default print route code
124	(7C)	SIGNED	2	IREPRNOD	Node number
126	(7E)	SIGNED	2	IREPRRTE	Local printer/remote number
128	(80)	CHARACTER	8	IREPRSER	Print userid
136	(88)	SIGNED	4	IREPUNCH(0)	Default punch route code
136	(88)	SIGNED	2	IREPUNOD	Node number
138	(8A)	SIGNED	2	IREPURTE	Local punch/remote number
140	(8C)	CHARACTER	8	IREPUSER	Punch userid
148	(94)	SIGNED	4	(3)	Reserved
160	(A0)	DBL WORD	8	(0)	Alignment
160	(A0)	X'A0'	0	IRELEN	"*-IRE" Length of data area

Table 252. Cross Reference for \$IRE

Name	Offset	Hex Tag
IRE	0	
IREACTIV	66	20
IREALLOC	66	40
IREASCBT	24	
IREASNXT	14	
IRECCARD	58	
IRECJBID	48	
IRECJKEY	50	
IRECJOBN	40	
IRECLOSG	65	8
IRECUREC	54	
IREDEVN	6	
IREEYE	0	C9D9C540
IREFLAGS	65	
IREHASB	20	
IREHOLDJ	65	40
IREINACT	66	80
IREIRCAC	65	10
IREIRWD	18	
IREJCLAS	68	
IREJOBCT	3C	
IRELEN	A0	A0
IREMCLAS	70	

Table 252. Cross Reference for \$IRE (continued)

Name	Offset	Hex Tag
IRENEXT	10	
IREOJBID	34	
IREOJOBN	2C	
IREPRINT	7C	
IREPRNOD	7C	
IREPRRTE	7E	
IREPRSER	80	
IREPUNCH	88	
IREPUNOD	88	
IREPURTE	8A	
IREPUSER	8C	
IRERAUTH	64	
IRESIAFF	78	
IRESIIND	65	80
IRESJB	1C	
IRESTATS	66	
IRETRACE	65	20
IREVER	4	
IREVERN	4	1

\$IRIS information

\$IRIS programming interface information

\$IRIS is a programming interface.

\$IRIS heading information

Common name:	IRIS
Macro ID:	\$IRIS
DSECT name:	IRIS
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	IRIS Offset: IRSEYE-IRS Length: L'IRSEYE
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in common storage
Size:	See IRISLEN
Created by:	HASPIRMA during JES2 initialization processing

Pointed to by: CCTBATMD field of the HCCT data area
CCTIRSMD field of the HCCT data area
CCTSTCMD field of the HCCT data area
CCTTSOMD field of the HCCT data area

Serialization: None required

Function: This area maps the data area used to store defaults for internal readers (as set from INTRDR initialization statement). One exists for each type of internal reader (in ECSA) even though the initialization statement only applies to batch internal readers.

\$IRIS mapping

Table 253. Structure IRIS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRIS	, Internal reader init statement
0	(0)	CHARACTER	4	IRISEYE	Eyecatcher
4	(4)	ADDRESS	1	IRISVER	Version
4	(4)	X'1'	0	IRISVERN	"1" Initial version
5	(5)	BITSTRING	1	IRSFLAGS	Processing flags
		1...		IRSSIIND	"B'10000000'" Independent mode
		.1..		IRSHOLDJ	"B'01000000'" Hold job (\$TJ...,H)
		...1		IRSBLIM	"B'00010000'" Honor BYTES= values
6	(6)	BITSTRING	1	IRSPRINC	Priority increment
7	(7)	BITSTRING	1	IRSPRLIM	Priority limit
8	(8)	CHARACTER	8	IRSJCLAS	Default Job class
16	(10)	CHARACTER	1	IRSMCLAS	Default MSGCLASS
17	(11)	CHARACTER	7		Reserved
24	(18)	SIGNED	4	IRSPRINT(0)	Default print route code
24	(18)	SIGNED	2	IRSPRNOD	Node number
26	(1A)	SIGNED	2	IRSPRTE	Local printer/remote number
28	(1C)	CHARACTER	8	IRSPRSER	Print userid
36	(24)	SIGNED	4	IRSPUNCH(0)	Default punch route code
36	(24)	SIGNED	2	IRSPUNOD	Node number
38	(26)	SIGNED	2	IRSPURTE	Local punch/remote number
40	(28)	CHARACTER	8	IRSPUSER	Punch userid
48	(30)	BITSTRING	4	IRSSIAFF	Default system affinity
52	(34)	BITSTRING	1	IRSRAUTH	Reader command authority
		.... 1...		IRSREJRM	"B'00001000'" Remote restriction
		.... .1..		IRSREJJB	"B'00000100'" Restricted from job commands
		.... ..1.		IRSREJDV	"B'00000010'" Restricted from device commands
		.... ...1		IRSREJSY	"B'00000001'" Restricted from system commands
53	(35)	BITSTRING	1	IRSTRFLG	Tracing flags (ONLY)
		1...		IRSTRACE	"B'10000000'" Tracing is active
		.1..		IRSTRFAS	"B'01000000'" ASID filtering active

Table 253. Structure IRIS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		IRSTRFJN	"B'00100000'" JOBNAME filtering active
		...1		IRSTRFJ#	"B'00010000'" JOB number filtering act
54	(36)	SIGNED	2	IRSTRASI	Trace ASID option
56	(38)	CHARACTER	8	IRSTRJBN	Trace job name option
64	(40)	SIGNED	4	IRSTRJNO	Trace job number option
68	(44)	SIGNED	4	(3)	Reserved
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	IRISLEN	"*-IRIS" Length of data area

Table 254. Cross Reference for \$IRIS

Name	Offset	Hex	Tag
IRIS	0		
IRISEYE	0	C9D9C9E2	
IRISLEN	50		50
IRISVER	4		
IRISVERN	4		1
IRSB LIM	5		10
IRSFLAGS	5		
IRSHOLDJ	5		40
IRSJCLAS	8		
IRSMCLAS	10		
IRSPRINC	6		
IRSPRINT	18		
IRSPRLIM	7		
IRSPRNOD	18		
IRSPRTE	1A		
IRSPR SER	1C		
IRSPUNCH	24		
IRSPUNOD	24		
IRSPURTE	26		
IRSPUSER	28		
IRSRAUTH	34		
IRSREJDV	34		2
IRSREJJB	34		4
IRSREJRM	34		8
IRSREJSY	34		1
IRSSIAFF	30		
IRSSIIND	5		80
IRSTRACE	35		80

Table 254. Cross Reference for \$IRIS (continued)

Name	Offset	Hex Tag
IRSTRASI	36	
IRSTRFAS	35	40
IRSTRFJ#	35	10
IRSTRFJN	35	20
IRSTRFLG	35	
IRSTRJBN	38	
IRSTRJNO	40	

\$IRWD information

\$IRWD programming interface information

\$IRWD is a programming interface.

\$IRWD heading information

Common name:	IRWD
Macro ID:	\$IRWD
DSECT name:	IRWD
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	IRWD Offset: RIDID-IRWD Length: L'RIDID
Storage attributes:	Subpool: 249 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space that allocated the internal reader
Size:	See RIDSIZE
Created by:	HASCDSAL during allocation processing
Pointed to by:	IREIRWD field of the IRE data area DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address
Serialization:	None required
Function:	This data area represents an internal reader allocated in an application address space.

\$IRWD mapping

Table 255. Structure IRWD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRWD	, Internal Reader work area
0	(0)	CHARACTER	4	RIDID	IRWD eyecatcher

Table 255. Structure IRWD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	RIDCWKAR(0)	Common work area
3624	(E28)	ADDRESS	4	RIDHCCT	HCCT address
3628	(E2C)	ADDRESS	4	RIDIRE	Associated IRE address
3632	(E30)	ADDRESS	4	RIDIRIS	IRIS address
3636	(E34)	ADDRESS	4	RIDTRE	TRE address (in HINTRDR)
ASOK fields. For details, see ASOK DSECT in \$SDB					
3640	(E38)	BITSTRING	8	RIDASOK(0)	ASOK fields
3642	(E3A)	SIGNED	2	RIDASOK0	Ordinality of ASOK L1
3644	(E3C)	SIGNED	2	RIDASOK1	Offset into Level 1 ASOK
3646	(E3E)	SIGNED	2	RIDASOK2	Offset into Level 2 ASOK
3648	(E40)	DBL WORD	8	RIDLOCK	Lock owning TCB info (or zero if not locked)
Default values for this internal reader (from allocation time)					
3656	(E48)	BITSTRING	1	RIDFLAGD	Default flag settings
		1...		RIDDLOCL	"B'10000000" Force SYSAFF to local
		.1..		RIDDHOLD	"B'01000000" Force TYPRUN=HOLD (DD HOLD=YES)
		..1.		RIDDROUT	"B'00100000" A default print/punch routing has been passed
3657	(E49)	BITSTRING	1	RIDRECFM	RECFM of intrdr dataset, bits defined in DCB under DCBRECFM
3658	(E4A)	SIGNED	2	RIDLRECL	LRECL of intrdr dataset
3660	(E4C)	CHARACTER	1	RIDMCLAS	Default MSGCLASS
3661	(E4D)	CHARACTER	7		Reserved
3668	(E54)	SIGNED	4	RIDDPRT(0)	Default print route code
3668	(E54)	SIGNED	2	RIDDPRND	Node number
3670	(E56)	SIGNED	2	RIDDPRRT	Local printer/remote number
3672	(E58)	CHARACTER	8	RIDDPRUS	Print userid
3680	(E60)	SIGNED	4	RIDDPUN(0)	Default punch route code
3680	(E60)	SIGNED	2	RIDDPUND	Node number
3682	(E62)	SIGNED	2	RIDDPURT	Local punch/remote number
3684	(E64)	CHARACTER	8	RIDDPUUS	Punch userid
Internal reader processing options					
3692	(E6C)	BITSTRING	1	RIDFLAG1	Miscellaneous flag byte, serialized by SJB lock
		1...		RID1LRDF	"B'10000000" OPEN set default LRECL or lrecl value specified by user at open intrdr time is to be overridden.
		.1..		RID1BLIM	"B'01000000" Honor BYTES= values for internal readers
		..1.		RID1ESSM	"B'00100000" Reader is owned by the emergency subsystem
3693	(E6D)	BITSTRING	3		Reserved
3696	(E70)	ADDRESS	4	RIDSJB	SJB address

Table 255. Structure IRWD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3700	(E74)	CHARACTER	8	RIDJOBID	Internal reader job id
3708	(E7C)	ADDRESS	4	RIDSYML	Address of TU symbol list to pass in with jobs submitted on this intrdr
3712	(E80)	ADDRESS	4	RIDFRDR	\$FRDR pointer if \$SUBMIT
3716	(E84)	SIGNED	4	(13)	Reserved
3716	(E84)	X'F00'	0	RIDSIZE	"((*-IRWD+127)/128)*128" Length of DSECT

Table 256. Cross Reference for \$IRWD

Name	Offset	Hex	Tag
IRWD	0		
RIDASOK	E38		
RIDASOK0	E3A		
RIDASOK1	E3C		
RIDASOK2	E3E		
RIDCWKAR	8		
RIDDHOLD	E48		40
RIDDLOCL	E48		80
RIDDPKND	E54		
RIDDPKRT	E56		
RIDDPRT	E54		
RIDDPKUS	E58		
RIDDPUN	E60		
RIDDPUND	E60		
RIDDPURT	E62		
RIDDPUUS	E64		
RIDDRUT	E48		20
RIDFLAGD	E48		
RIDFLAG1	E6C		
RIDFRDR	E80		
RIDHCCT	E28		
RIDID	0		C9D9E6C4
RIDIRE	E2C		
RIDIRIS	E30		
RIDJOBID	E74		
RIDLOCK	E40		
RIDLRECL	E4A		
RIDMCLAS	E4C		
RIDRECFM	E49		
RIDSIZE	E84		F00
RIDSJB	E70		

Table 256. Cross Reference for \$IRWD (continued)

Name	Offset	Hex Tag
RIDSYML	E7C	
RIDTRE	E34	
RID1BLIM	E6C	40
RID1ESSM	E6C	20
RID1LRDF	E6C	80

\$JCMWORK information

\$JCMWORK heading information

Common name:	JES2 Job Command PCE Work Area
Macro ID:	\$JCMWORK
DSECT name:	PCE (\$JCMWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol JCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$JCMDPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by the JES2 Job Command Processor and by its support routines and exits. \$JCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJCMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$JCMWORK mapping

Table 257. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT

Table 257. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
336	(150)	ADDRESS	4	JCMDSJBQ	Address of current SJB queue head
344	(158)	DBL WORD	8	(0)	Force double-word alignment
344	(158)	X'8'	0	JCMPCEWS	"*-PCEWORK" Length of work area

\$JCT information

\$JCT programming interface information

\$JCT is a programming interface.

\$JCT heading information

Common name: JES2 Job Control Table

Macro ID: \$JCT

DSECT name: JCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JCT '
Offset: JCTIDENT-JCT
Length: 4

Storage attributes: Subpool: 7 in JES2 main task environment;
230 in USER or SUBTASK environments
Key: 1
Residency: The \$JCT is a JES2 spool resident control block.
Virtual storage can be anywhere (above or below 16M)
in the JES2 main task and must be below 16M in all
other environments. Real storage can be anywhere.

Size: JCTFEND-JCT is the length of the fixed portion.
The JCT is contained in a buffer of size \$BUFSIZE
which is a field in \$HCT.

Created by: Initially created by HASPRDR or HASPNSR when a job
enters the system.
In-storage versions of the control block are created
by \$CBIO READ VERIFY=JCT.

Pointed to by: FSAJCTAD field of the \$FSACB data area
IOTJCT field of the \$IOT data area
JIBJCTMQ field of the \$JIB data area
JIBJCTA field of the \$JIB data area (address on spool)
JQETRAK_Z22 field of the \$JQE data area (address on spool)
JQYTRAK field of the \$JQE data area (address on spool)
SJBJCT field of the \$SJB data area
Various fields in the processor work areas and
parameter lists.

Serialization: Serialized under the JES2 TCB.

Function:

The Job Control Table is the primary job oriented control block. It is created by the input service processor and written to spool. Other processors then read this control block and rewrite it to spool as needed. The control block contains two types of information: Accounting information from the accounting field of the JOB card or /*JOBPARM control card and accounting information gathered during job processing. This control block is the primary contributor to the SMF Purge record (Type 26) as well as many other SMF records.

\$JCT mapping

Table 258. Structure JCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JCT	JOB CONTROL TABLE DSECT
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
0	(0)	X'50'	0	JCTFLAG5	"BUFMTLG1-BFPDSECT+JCT,1" Memory-only flag byte
0	(0)	X'80'	0	JCT5CKPT	"BUFMTCKP" Rewrite this JCT
		.... ...1		JCT5EXTA	"B'00000001'" Local JCT extension allowed
0	(0)	X'5C'	0	JCTLEXTA	"BUFMEMW7-BFPDSECT+JCT,4,C'A'" Local JCT extension address
End of buffer prefix fields					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	JCTSTART	"*" START OF DATA WRITTEN TO SPOOL
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
104	(68)	CHARACTER	4	JCTIDENT	Eyecatcher
108	(6C)	CHARACTER	8	JCTJNAME	Job name
116	(74)	SIGNED	4	JCTJBNUM	Job number
120	(78)	SIGNED	4	JCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	JCTSPLNG	"*-JCTIDENT"
128	(80)	ADDRESS	2	JCTLENG	LENGTH OF JCT INCLUDING PREFIX
130	(82)	BITSTRING	1	JCTFLAG1	FLAGS 1 ---
		1...		JCT1SJOB	"X'80'" Job ran because of \$\$ J
		.1..		JCTBURST	"X'40'" JOB OUTPUT BURST OPTION
		..1.		JCT1INTJ	"X'20'" Internally created job (Job has no subsystem datasets)
		...1		JCT1LDR	"X'10'" JOB CREATED BY LOADER DEV.
		.... 1...		JCT1RECV	"X'08'" JOB RECEIVED ON SYSOUT RCVR

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JCT1NUNK	"X'04'" Token is NJE unknown
		.... ..1.		JCT1UNDF	"X'02'" JCTJUSID is undefined user
		.... ...1		JCT1ODEL	"X'01'" Job offloaded DISP=DELETE
131	(83)	BITSTRING	1	JCTJTFLG	JOB TERM FLAGS (SSJTFLG1)
132	(84)	CHARACTER	8	JCTJDVT	JDVT NAME
140	(8C)	BITSTRING	4	JCTTRAK_Z11	Track address (MTTR) of this JCT (only valid up to version \$J2PZ111)
144	(90)	BITSTRING	4	JCTSPIOT_Z11	Track address (MTTR) of 1st spin IOT (only valid up to version \$J2PZ111)
148	(94)	BITSTRING	4	JCTIOT_Z11	Track address (MTTR) of 1st regular IOT (only valid up to version \$J2PZ111)
152	(98)	BITSTRING	4	JCTOCTTR_Z11	Track address (MTTR) of OCR table (only valid up to version \$J2PZ111)
156	(9C)	BITSTRING	4	JCTXTRK_Z11	Track address (MTTR) of 1st XMIT track (only valid up to version \$J2PZ111)
156	(9C)	X'A0'	0	JCTRMP1	"*" End of remapped field
Resource management fields reuse old MTTR fields that are not used since JCTVER = \$J2PZ112 (see also CATRSREN in \$CAT)					
140	(8C)	BITSTRING	2	JCTTG LIM	Resource usage limit for TG resource (% * 100)
142	(8E)	BITSTRING	1	JCTTGACT	Resource action for TGs
143	(8F)	BITSTRING	2	JCTJOLIM	Resource usage limit for JOE resource (% * 100)
145	(91)	BITSTRING	1	JCTJOACT	Resource action for JOEs
146	(92)	BITSTRING	2		Reserved
160	(A0)	BITSTRING	4	JCTXBUFO	BUFFER OFFSET IN 1ST XMIT TRACK
164	(A4)	BITSTRING	32	JCTSAMSK	SPOOLS ALLOWED MASK
196	(C4)	SIGNED	4	JCTPDDBK	PERIPHERAL DATA SET KEY
200	(C8)	SIGNED	4	JCTPDDBO	DS KEY FOR LAST INPUT Pddb OR 100 (X'64') IF NO SYSIN
204	(CC)	SIGNED	4	JCTCNVRC	RETURN CODE FROM JCL CONVERTER
204	(CC)	X'0'	0	JCTCOK	"0" JCL converted without err
204	(CC)	X'4'	0	JCTCJCL	"4" JCL error detected by CNV
204	(CC)	X'8'	0	JCTCIO	"8" I/O error detected by CNV
204	(CC)	X'4'	0	JCTCDUPL	"JCTCJCL" Duplicate logon executing
204	(CC)	X'C'	0	JCTCSECF	"12" Security envir. could not be established for the job
204	(CC)	X'10'	0	JCTCNWT	"16" JCL couldn't be converted The referenced JCLLIB data set not available
204	(CC)	X'24'	0	JCTCABND	"36" I/O error using RPLs
204	(CC)	X'26'	0	JCTCIOER	"38" I/O error on PROCLIB
204	(CC)	X'28'	0	JCTCJDVT	"40" Input JDVT not found
204	(CC)	X'36'	0	JCTCSYSE	"54" System error
204	(CC)	X'38'	0	JCTGMFAL	"56" Converter GETMAIN failed
204	(CC)	X'3C'	0	JCTCFOPN	"60" Fake open failure
208	(D0)	SIGNED	4	JCTUSER0	RESERVED FOR USER

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
212	(D4)	SIGNED	4	JCTUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	JCTUSER2	RESERVED FOR USER
220	(DC)	SIGNED	4	JCTUSER3	RESERVED FOR USER
224	(E0)	SIGNED	4	JCTUSER4	RESERVED FOR USER
228	(E4)	SIGNED	4	JCTUSER5	RESERVED FOR USER
232	(E8)	SIGNED	4	JCTUSER6	RESERVED FOR USER
236	(EC)	SIGNED	4	JCTUSER7	RESERVED FOR USER
240	(F0)	SIGNED	4	JCTUSER8	RESERVED FOR USER
244	(F4)	SIGNED	4	JCTUSER9	RESERVED FOR USER
248	(F8)	SIGNED	4	JCTUSERA	RESERVED FOR USER
252	(FC)	SIGNED	4	JCTUSERB	RESERVED FOR USER
256	(100)	SIGNED	4	JCTUSERC	RESERVED FOR USER
260	(104)	SIGNED	4	JCTUSERD	RESERVED FOR USER
264	(108)	SIGNED	4	JCTUSERE	RESERVED FOR USER
268	(10C)	SIGNED	4	JCTUSERF	RESERVED FOR USER
272	(110)	CHARACTER	2	JCTPRTY	PRIORITY OR JOB CARD 'PRTY='
274	(112)	SIGNED	2	JCTJSSSTP	JOB SELECT RESTART STEP (SSRQSTEP)
276	(114)	SIGNED	2	JCTASID	ASID OF JOB
278	(116)	SIGNED	1	JCTVER	JCT version - contains the JES2 product level where the JCT was created. See \$J2Pxxx in \$HASPEQU.
278	(116)	X'31'	0	JCTCVER	"49" Current version
279	(117)	BITSTRING	1	JCTFLAGZ	Flag byte:
		1...		JCTZEMID	"B'10000000" Job has EMAIL= id
		.1..		JCTZPRIV	"B'01000000" Privileged job
		..1.		JCTZLGPD	"B'00100000" Job uses was created using large - PDBLENM sized PDBBs
		...1		JCTZSCHN	"B'00010000" SCHENV specified in JCL
		.... 1...		JCTZSCHU	"B'00001000" SCHENV updated
		.... .1..		JCTZSCHM	"B'00000100" JCTZSCHN and JCTZSCHU meaningful (INPUT phase with OA61880 applied)
280	(118)	BITSTRING	1	JCTFLAG2	FLAG BYTE
		1...		JCT2TWOJ	"B'10000000" Two jobcards XMIT
		.1..		JCT2AVDP	"B'01000000" DO NOT DO AUTH VERIFICATION IN JOB INITIATION, ALREADY DONE, JOB PASSED VERIFICATION CHECK
		..1.		JCT2AVF	"B'00100000" JOB FAILED AUTH VERIFICATION IN CALL FROM JES2
		...1		JCT2AVD	"B'00010000" AUTH VERIFICATION DONE
		.... 1...		JCT2TJOB	"B'00001000" Job token received
		.... .1..		JCT2EXEC	"B'00000100" Job entered execution OK
		.... ..1.		JCT2SDCR	"B'00000010" SAF CALL FOR SYSIN CREATE NOT YET DONE FOR SYSIN DATA SETS
		.... ...1		JCT2IOT2	"B'00000001" SYSTEM DATA SETS SPAN 2 IOTS (NOT INCLUDING MULTI-DEST COPIES)
281	(119)	BITSTRING	1	JCTFLAG3	Flag Byte

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JCT3TPI	"X'80'" Transaction initiator
		.1..		JCT3BATI	"X'40'" Batch initiator
		..1.		JCT3JDSP	"X'20'" JESDS PROCESSING COMPLETED
		...1		JCT3NCF	"X'10'" Suppress notification of store-and-forward
		.... 1...		JCT3NCA	"X'08'" Suppress notification of reached ultimate dest
		.... .1..		JCT3NOTK	"X'04'" At least one D/S needs a Job Level Token
		.... ..1.		JCT3FORM	"X'02'" FORMS specified in JCL
		.... ...1		JCT3RJCS	"X'01'" Job card processed locally
282	(11A)	BITSTRING	1	JCTJSFLG	JOB SELECT FLAGS (SSRQFLG1)
283	(11B)	BITSTRING	1	JCTSMFLG	SMF FLAGS
		11.1 1...		JCTSMFL0	"B'11011000'" Reserved
		..1.		JCTNOUS0	"B'00100000'" Do not take IEFUS0 exit
		.... .1..		JCTNOTY6	"B'00000100'" Do not produce Type 6 SMF record
		.... ..1.		JCTNOUJP	"B'00000010'" Do not take IEFUJP exit
		.... ...1		JCTNOT26	"B'00000001'" Do not produce Type 26 SMF record
KEEP THE FIELDS JCTJOBFL AND JCTJBOPT TOGETHER FOR SMF					
284	(11C)	BITSTRING	1	JCTJOBFL	HASP Job flags (same as CATJOBFL)
		1...		JCTBATCH	"B'10000000'" Batch job
		.1..		JCTTSUJB	"B'01000000'" Time sharing user
		..1.		JCTSTCJB	"B'00100000'" System task
284	(11C)	X'E0'	0	JCTVALJB	"JCTBATCH+JCTTSUJB+JCTSTCJB" valid types
		...1		JCTNOJNL	"B'00010000'" No journal option
		.... 1...		JCTNOUPT	"B'00001000'" No output option
		.... .1..		JCTTSCAN	"B'00000100'" TYPRUN=SCAN was specified
		.... ..1.		JCTTCOPY	"B'00000010'" TYPRUN=COPY was specified
		.... ...1		JCTRSTRT	"B'00000001'" Allow warmstart to re- queue to XEQ
285	(11D)	BITSTRING	1	JCTJBOPT	HASP Job options (same as CATJBOPT)
		1...		JCTPRICD	"B'10000000'" PRIORITY card or JOB card 'PTY=' present (not used in CATJBOPT field)
		.1..		JCTSETUP	"B'01000000'" SETUP card(S) present (not used in CATJBOPT field)
		..1.		JCTTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		JCTNOLOG	"B'00010000'" NO job log option
		.... 1...		JCTXBMII	"B'00001000'" XBM II job
		.... .1..		JCTINRDR	"B'00000100'" Job was entered on INTRDR (not used in CATJBOPT field)
		.... ..1.		JCTRERUN	"B'00000010'" Job was re-run (not used in CATJBOPT field)
		.... ...1		JCTQHELD	"B'00000001'" Not used in JCTJBOPT, indicates class queue is held in CATJBOPT

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
286	(11E)	BITSTRING	2	JCTMXLRC	Max LRECL of JCL stream
288	(120)	SIGNED	4	(0)	
288	(120)	CHARACTER	8	JCTJOBID	HASP ASSIGNED JOB IDENTIFICATION
Keep next 24 bytes intact for SMF - JCTPNAME thru JCTPRIO					
296	(128)	CHARACTER	20	JCTPNAME	PROGRAMMER'S NAME FROM JOB CARD
316	(13C)	CHARACTER	1	JCTMCLAS	MSGCLASS FROM JOB CARD
317	(13D)	CHARACTER	1	JCTJCLAS	HASP EXECUTION JOB CLASS
318	(13E)	BITSTRING	4	JCTAIPRI(0)	All initial priorities
318	(13E)	BITSTRING	1	JCTIPRIO	Initial XEQ selection
319	(13F)	BITSTRING	1	JCTPRIO	Actual XEQ selection
320	(140)	BITSTRING	1	JCTIOPRI	Initial output selection
321	(141)	BITSTRING	1	JCTOPRIO	Actual output selection
322	(142)	BITSTRING	2	(0)	Job suppression flags
322	(142)	BITSTRING	1	JCTEVTLF	EVENTLOG data set flags
	1...			JCTESMF	"B'10000000" Supp EVENTLOG SMF recs
EQU B'01111000' Reserved internal use					
323	(143)	BITSTRING	1	JCTFEAS	Feature suppression flags
	1...			JCTEVTW	"B'10000000" Suppress EVENTLOG write
	.1..			JCTNNJE	"B'01000000" Suppress non-printable data sets on NJE
324	(144)	SIGNED	4	JCTROUTE(0)	INPUT ROUTE CODE
324	(144)	SIGNED	2	JCTRNODE	NODE NUMBER
326	(146)	SIGNED	2	JCTRRMT	REMOTE NUMBER
Keep next 28 bytes intact for SMF - JCTINDEV thru JCTESTPU					
328	(148)	CHARACTER	8	JCTINDEV	HASP INPUT DEVICE NAME
336	(150)	CHARACTER	4	JCTACCTN	JOB ACCOUNTING NUMBER FROM JOB CARD
340	(154)	CHARACTER	4	JCTROOMN	PROGRAMMER'S ROOM NUMBER
344	(158)	SIGNED	4	JCTETIME	ESTIMATED EXECUTION TIME
348	(15C)	SIGNED	4	JCTESTLN	ESTIMATED OUTPUT LINES
352	(160)	SIGNED	4	JCTESTPU	ESTIMATED PUNCHED OUTPUT
356	(164)	CHARACTER	8	JCTFORMS	JOB OUTPUT FORMS
364	(16C)	BITSTRING	1	JCTFLAG4	Flag byte 4
	1...			JCT4PASE	"B'10000000" Password is encrypted
	.1..			JCT4NPSE	"B'01000000" New password is encrypted
	..1.			JCT4UJNM	"B'00100000" Exit 2/52 updated job name
	...1			JCT4RCST	"B'00010000" Return code info set (JCTMAXRC and JCTLSTAB)
	.... 1...			JCT4WINI	"B'00001000" Job ran under a WINIT (Work Load Manager INIT)
	.... .1..			JCT4EJOB	"B'00000100" Job restarted
	.... ..1.			JCT4LCDF	"B'00000010" JCTLINCT value from \$LINECT
	.... ...1			JCT4STAB	"B'00000001" JCTLSTAB set by JES2

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
365	(16D)	BITSTRING	1	JCTCPYCT	JOB PRINT COPY COUNT
JCTJLOGD is a date token used to determine if a date line is needed in the job log. The token is remainder after dividing the number of days since JAN 1, 1900 by 254 plus 1. A value of zero indicates there is no date in the job log yet, a value of X'FF' indicates no dates are to be placed into the job log.					
366	(16E)	BITSTRING	1	JCTJLOGD	JOB log date token
367	(16F)	BITSTRING	1	JCTLINCT	LINES PER PAGE
368	(170)	SIGNED	4	JCTESTPG	ESTIMATED PAGE OUTPUT
372	(174)	SIGNED	4	JCTESTBY	ESTIMATED BYTE OUTPUT
376	(178)	SIGNED	4	JCTPROUT(0)	JOB PRINT ROUTE CODE
376	(178)	SIGNED	2	JCTPRNOD	NODE NUMBER
378	(17A)	SIGNED	2	JCTPRRMT	REMOTE NUMBER
380	(17C)	CHARACTER	8	JCTPRRID	PRINTER EBCDIC RMT/USERID
388	(184)	SIGNED	4	JCTPUOUT(0)	JOB PUNCH ROUTE CODE
388	(184)	SIGNED	2	JCTPUNOD	NODE NUMBER
390	(186)	SIGNED	2	JCTPURMT	REMOTE NUMBER
392	(188)	CHARACTER	8	JCTPURID	PUNCH EBCDIC RMT/USERID
400	(190)	CHARACTER	8	JCTPROC�	PROCEDURE DDNAME
408	(198)	CHARACTER	8	JCTPASS	CURRENT PASSWORD
416	(1A0)	CHARACTER	8	JCTNUPAS	NEW PASSWORD
424	(1A8)	CHARACTER	8	JCTGRPID	GROUPID
432	(1B0)	CHARACTER	8	JCTNOTUS	Notify user id
432	(1B0)	X'1B0'	0	JCTTSUID	"JCTNOTUS,7" TIME SHARING USR FOR NOTIFY
440	(1B8)	BITSTRING	1	JCTTSUAF	INPUT SYSAF FOR NOTIFY
441	(1B9)	CHARACTER	9	JCTIDLEN(0)	FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER FOR RACROUTE USE
441	(1B9)	CHARACTER	1	JCTUIDL	USERID LENGTH
442	(1BA)	CHARACTER	8	JCTJUSID	USERID (FROM JOB CARD)
450	(1C2)	CHARACTER	8	JCTENCKY	Password encryption key
458	(1CA)	SIGNED	2	JCTRXLEN	Free space in JCT for JCT extensions
460	(1CC)	SIGNED	3	JCTFAMILY	Highest family ID used by MOCA IOTs
463	(1CF)	SIGNED	1	JCT#IOTS	Number of IOTs required to house system PDDBs
464	(1D0)	SIGNED	4	(0)	Ensure fullword for token
464	(1D0)	BITSTRING	1	JCTTOKEN	Security TOKEN for job
KEEP NEXT 48 BYTES INTACT FOR SMF - JCTCNVON THROUGH JCTODTOF					
544	(220)	SIGNED	4	JCTCNVON	TIME ON JCL CONVERSION PROCESSOR
548	(224)	SIGNED	4	JCTCDTON	DATE ON JCL CONVERSION PROCESSOR
552	(228)	SIGNED	4	JCTCNVOF	TIME OFF JCL CONVERSION PROCESSOR
556	(22C)	SIGNED	4	JCTCDTOF	DATE OFF JCL CONVERSION PROCESSOR
560	(230)	SIGNED	4	JCTXEQON	TIME ON EXECUTION PROCESSOR
564	(234)	SIGNED	4	JCTXDTON	DATE ON EXECUTION PROCESSOR
568	(238)	SIGNED	4	JCTXEQOF	TIME OFF EXECUTION PROCESSOR

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
572	(23C)	SIGNED	4	JCTXDTOF	DATE OFF EXECUTION PROCESSOR
576	(240)	SIGNED	4	JCTOUTON	TIME ON OUTPUT PROCESSOR
580	(244)	SIGNED	4	JCTODTON	DATE ON OUTPUT PROCESSOR
584	(248)	SIGNED	4	JCTOUTOF	TIME OFF OUTPUT PROCESSOR
588	(24C)	SIGNED	4	JCTODTOF	DATE OFF OUTPUT PROCESSOR
KEEP NEXT 28 BYTES INTACT FOR SMF - JCTCARDS THROUGH JCTOTSID					
592	(250)	SIGNED	4	JCTCARDS	TOTAL NUMBER OF INPUT CARDS
596	(254)	SIGNED	8	JCTLIPUS(0)	Number of lines AND cards
596	(254)	SIGNED	4	JCTLINES	Generated output lines
600	(258)	SIGNED	4	JCTPUNCH	Generated punched output
604	(25C)	CHARACTER	4	JCTRDSID	Input member name
608	(260)	CHARACTER	4	JCTCVSID	Conversion member name
612	(264)	CHARACTER	4	JCTEXSID	Execution member name
616	(268)	CHARACTER	4	JCTOTSID	Output member name
620	(26C)	SIGNED	4	JCTPAGES	GENERATED OUTPUT PAGES
624	(270)	SIGNED	4	JCTBYTES	GENERATED OUTPUT BYTES
628	(274)	SIGNED	4	JCTSPUNB	TOTAL BYTES IN SPUN DATASET(S)
632	(278)	SIGNED	2	JCTXEQND	INITIAL EXECUTION NODE
634	(27A)	SIGNED	2	JCTXNODE	ACTUAL EXECUTION NODE
636	(27C)	CHARACTER	4	JCTNJSID	JOB XMITTER PROCESSOR SYSTEM ID
640	(280)	SIGNED	4	JCTNJTON	TIME ON JOB TRANSMITTER PROCESSOR
644	(284)	SIGNED	4	JCTNDTON	DATE ON JOB TRANSMITTER PROCESSOR
648	(288)	SIGNED	4	JCTNJTOF	TIME OFF JOB TRANSMITTER PROCESSOR
652	(28C)	SIGNED	4	JCTNDTOF	DATE OFF JOB TRANSMITTER PROCESSOR
656	(290)	CHARACTER	8	JCTNACCT	NETWORK ACCOUNTING NUMBER
664	(298)	CHARACTER	8	JCTNOJID	ORIGINAL JOB IDENTIFICATION
672	(2A0)	CHARACTER	8	JCTNNDEV	JOB TRANSMITTER DEVICE NAME
680	(2A8)	CHARACTER	8	JCTNONDE	NETWORK ORIGINAL NODE NAME
688	(2B0)	CHARACTER	8	JCTNOUSR	SUBMITTING USERID
696	(2B8)	CHARACTER	8	JCTNXNDE	NETWORK EXECUTION NODE NAME
704	(2C0)	CHARACTER	8	JCTNNNDE	NETWORK NEXT NODE NAME
712	(2C8)	CHARACTER	8	JCTNLNDE	NETWORK LAST NODE NAME
720	(2D0)	SIGNED	4	JCTESOUT	ESTIMATED OUTPUT (LINES+CARDS)
724	(2D4)	SIGNED	4	JCTXOUT	GENERATED OUTPUT RECORDS
728	(2D8)	CHARACTER	8	JCTPSN1	STEP NAME FROM EXEC STEP
736	(2E0)	CHARACTER	8	JCTPSN2	STEP NAME OF CALLING STEP
744	(2E8)	DBL WORD	8	(0)	Ensure doubleword boundary
744	(2E8)	BITSTRING	144	JCTWORK	144-BYTE WORK AREA
888	(378)	BITSTRING	80	JCTXWRK	80-BYTE WORK AREA FOR RDR EXITS
Start of the JMR area. Note that starting with release 2.1, the JMR is split into two areas. The original area exists here. The new area is constructed on the fly from fields in the JCTX					
888	(378)	X'3C8'	0	JCTJMRST	"*" START OF JMR AREA

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
KEEP THE FIELDS JCTJMRJN, JCTDRON, AND JCTRDTON TOGETHER FOR SMF					
968	(3C8)	CHARACTER	8	JCTJMRJN	JMR JOB NAME
976	(3D0)	SIGNED	4	JCTDRON	TIME ON INPUT PROCESSOR
980	(3D4)	SIGNED	4	JCTRDTON	DATE ON INPUT PROCESSOR
984	(3D8)	BITSTRING	4	JCTCPUID	JMR CPU IDENTIFICATION
988	(3DC)	CHARACTER	8	JCTUSEID	JMR installation data field
996	(3E4)	BITSTRING	1	JCTSTEP	CURRENT STEP NUMBER
997	(3E5)	BITSTRING	1	JCTINDC	JMR SMF OPTIONS
998	(3E6)	BITSTRING	2	JCTJTCC(0)	CONDITION CODE
999	(3E7)	BITSTRING	1	JCTCLASS	HASP EXECUTION JOB CLASS
1000	(3E8)	SIGNED	4	JCTUCOM	JMR USER COMMUNICATION AREA
1004	(3EC)	SIGNED	4	JCTUJVP	JMR ADDRESS OF USER EXIT ROUTINE
KEEP THE FIELDS JCTRDROF AND JCTRDTOF TOGETHER FOR SMF					
1008	(3F0)	SIGNED	4	JCTRDROF	TIME OFF INPUT PROCESSOR
1012	(3F4)	SIGNED	4	JCTRDTOF	DATE OFF INPUT PROCESSOR
1016	(3F8)	SIGNED	4	JCTJOBIN	JMR JOB SYSIN COUNT
1020	(3FC)	BITSTRING	2	JCTRDR	READER DEVICE TYPE AND CLASS
1022	(3FE)	BITSTRING	1	JCTJMOPT	JMR SMF OPTIONS
	..1.			JCTJMRUX	"B'00100000" Take user exits for SMF
1023	(3FF)	BITSTRING	1	JCTJMRVR	JMR version
	.... ....			JCTVER0	"X'00'" Version 0
	.... ...1			JCTVER1	"X'01'" Version 1
1024	(400)	SIGNED	4	JCTJMRND(0)	END OF JMR
1024	(400)	X'3C8'	0	JCTJMR	"JCTJMRST,*-JCTJMRST" Reference for entire JMR
1024	(400)	X'38'	0	JCTJMRL	"*-JCTJMRST" Length of JMR in JCT and job correlator
1024	(400)	BITSTRING	32	JCTXMASK	EXIT JOB MASK
1056	(420)	SIGNED	4	JCTJQE	OFFSET OF HASP JOB QUEUE ENTRY
1060	(424)	CHARACTER	8	JCTNNODE	NOTIFICATION NODE
1068	(42C)	SIGNED	2	JCTCHNDX	CREATED HEADER TABLE INDEX
1070	(42E)	BITSTRING	10	JCTCHDRT	CREATED HEADER TABLE
1080	(438)	ADDRESS	4	JCTNJHTR_Z11	MTTR OF JOB HEADER (only valid up to version \$J2PZ111)
1084	(43C)	ADDRESS	4	JCTNJTTR_Z11	MTTR OF JOB TRAILER (only valid up to version \$J2PZ111)
1088	(440)	BITSTRING	1	JCTAXCLS	Actual execution class
1089	(441)	BITSTRING	1	JCTAXPR	Actual execution priority
1096	(448)	DBL WORD	8	JCTXSTRT	Execution start time (STCK)
1104	(450)	DBL WORD	8	JCTXSTOP	Execution stop time (STCK)
1112	(458)	DBL WORD	8	JCTETS	System entry Time (STCK)
1120	(460)	CHARACTER	8	JCTDEPT	Programmer's department id
1128	(468)	CHARACTER	8	JCTBLDG	Programmer's building id
1136	(470)	CHARACTER	8	JCTROOM	PROGRAMMER'S ROOM
1144	(478)	CHARACTER	8	JCTSGRP	Submitting group

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<div>The job accounting packet format is: DC Y(length) length of packet not including this halfword followed by a variable length string of this format: DC AL1(number-of-pairs-that-follow) followed by 0 or more accounting pairs Accounting pairs are of the form: DC AL1(length),C'string of length "length" A length of 0 indicates an omitted field Example: (X3600,42,,ABC) on the JOB card will result in the packet looking like: DC H'15' Length of following DC FL1'4' Nr of fields DC FL1'5' Length of field 1 DC C'X3600' Field 1 DC FL1'2' Length of field 2 DC C'42' Field 2 DC FL1'0' Length of field 3 (null) DC FL1'3' Length of field 4 DC C'ABC' Field 4</div>					
1152	(480)	SIGNED	2	JCTACCTL(0)	Beginning of acct. packet
1152	(480)	SIGNED	2	JCTACTLG	Length of job accounting
1154	(482)	BITSTRING	145	JCTJOBAC	Job accounting string
1299	(513)	BITSTRING	1		Reserved
1300	(514)	SIGNED	4	(0)	Ensure alignment
1300	(514)	CHARACTER	8	JCTSECLB	SECLABEL of job
1308	(51C)	SIGNED	4	JCTJPERD	STCK for end of READER
1312	(520)	DBL WORD	8	JCTJPEST	Program entry start time for JSAB (Time off JCL conversion processor STCK)
1320	(528)	CHARACTER	8	JCTNXUID	Network execution userid (from XMIT or XEQ)
1328	(530)	CHARACTER	8	JCTMVSNM	Execution MVS System name
1336	(538)	BITSTRING	3	JCTMAXRC	Max return code
1339	(53B)	BITSTRING	3	JCTLSTAB	Last ABEND code
1342	(53E)	CHARACTER	8	JCTWSCN	WLM service class name
1350	(546)	CHARACTER	8	JCTWOSCN	WLM (original) srv cls name
1358	(54E)	BITSTRING	4	JCTWEARR	TOD when job re-enqueued
1362	(552)	CHARACTER	16	JCTSCHEN	SCHENV for job
1378	(562)	BITSTRING	1	JCTNFLG1	Networking flags
		1... ..		JCTN1EOT	"B'10000000'" EOT received for NJE job
		.1..		JCTN1DUB	"B'01000000'" Job origin node is dubious
1379	(563)	BITSTRING	1	JCTFLAG7	Flag byte 7
		1... ..		JCT7NQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE
		.1..		JCT7NQAL	"B'01000000'" - Allow the job to downgrade SYSDSN ENQs to SHR control when no longer needed EXCL when requested via JCL DSEENQSHR keyword on JOB statement - Both bits off disables the function (disallow)
		..1.		JCT7PCNV	"B'00100000'" - preconversion JCT. MQTR of new JCT is in JCTPCVTK
		...1		JCT7FAIC	"B'00010000'" - Fail job after conversion

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		JCT7BNOT	"B'00001000'" - NOTIFY=&SYSUID and &SYSUID is a special local destination
		.... .1..		JCT7UNTL	"B'00000100'" - Hold job due to HOLDUNTL
		.... ..1.		JCT7GDGS	"B'00000010'" - GDGBIAS=STEP default
		.... ...1		JCT7MCSP	"B'00000001'" - MSGCLASS set by policy
<p>In preconversion JCT, JCTPCTRK points to a postconversion JCT. In a postconversion JCT, JCTPCTRK points to a preconversion JCT under the following conditions:</p> <ol style="list-style-type: none"> 1. Job has been validated (JCT2AVDP is on), AND 2. Either of the password fields is not already encrypted(JCT4PASE or JCT4NPSE is off), AND 3. Password fields, JCTPASS and JCTNUPAS, are not null (zero or blank). <p>Note that this field will remain non-zero if a job is re-converted.</p>					
1380	(564)	ADDRESS	4	JCTPCTRK_Z11	Track addr of pre-conv JCT (only valid up to version \$J2PZ111)
1384	(568)	BITSTRING	1	JCTFLAG6	Flag byte
		1...		JCT6LSRC	"B'10000000'" JOBRCL=LASTRC is default
		.1..		JCT6RQST	"B'01000000'" JCTREQRC has been set
		..1.		JCT6RQAB	"B'00100000'" JCTREQRC has ABEND code
		...1		JCT6RSPC	"B'00010000'" JOBRCL=STEP found
		.... 1...		JCT6JBRC	"B'00001000'" JOBRCL present on job card
		.... .1..		JCT6DFJG	"B'00000100'" Job represents a JOBGROUP
		.... ..1.		JCT6CONC	"B'00000010'" Job in concurrent set
		.... ...1		JCT6NETS	"B'00000001'" Job has / NET statement.
1385	(569)	BITSTRING	3	JCTREQRC	RC of requested step
1388	(56C)	BITSTRING	1	JCTFLAG8	Excession limit flags: (from / MAIN)
		1...		JCT8LJLC	"X'80'" Lines Limit is Cancel
		.1..		JCT8LJLD	"X'40'" Lines Limit is Dump
		..1.		JCT8LJLW	"X'20'" Lines Limit is Warning
		.... 1...		JCT8PJLC	"X'08'" Pages Limit is Cancel
		.... .1..		JCT8PJLD	"X'04'" Pages Limit is Dump
		.... ..1.		JCT8PJLW	"X'02'" Pages Limit is Warning
1389	(56D)	BITSTRING	1	JCTFLAG9	More Excession limit flags: (from / MAIN)
		1...		JCT9BJLC	"X'80'" Bytes Limit is Cancel
		.1..		JCT9BJLD	"X'40'" Bytes Limit is Dump
		..1.		JCT9BJLW	"X'20'" Bytes Limit is Warning
		.... 1...		JCT9CJLC	"X'08'" Cards Limit is Cancel
		.... .1..		JCT9CJLD	"X'04'" Cards Limit is Dump
		.... ..1.		JCT9CJLW	"X'02'" Cards Limit is Warning
1390	(56E)	BITSTRING	2		RESERVED FOR FUTURE USE
1392	(570)	SIGNED	4		RESERVED FOR FUTURE USE
1396	(574)	SIGNED	4		RESERVED FOR FUTURE USE

Table 258. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1400	(578)	SIGNED	4	JCTFEND_Z11(0)	End of fixed portion of JCT (only valid up to version \$J2PZ111)
The following eight MQTR fields are only valid at version \$J2PZ112 and greater.					
1400	(578)	BITSTRING	6	JCTCURTK	Track address (MQTR) of this JCT
1406	(57E)	BITSTRING	6	JCTSPNTK	Track address (MQTR) of 1st spin IOT
1412	(584)	BITSTRING	6	JCTIOTTK	Track address (MQTR) of 1st regular IOT
1418	(58A)	BITSTRING	6	JCTOCTTK	Track address (MQTR) of OCR table
1424	(590)	BITSTRING	6	JCTXMTTK	Track address (MQTR) of 1st XMIT track
1430	(596)	BITSTRING	6	JCTNJHTK	Track address (MQTR) of job header.
1436	(59C)	BITSTRING	6	JCTNJTTK	Track address (MQTR) of job trailer.
1442	(5A2)	BITSTRING	6	JCTPCVTK	Track address (MQTR) of pre-conv JCT. See the description of field JCTPCTRK_Z11 for more info.
1448	(5A8)	SIGNED	4	JCTFEND(0)	End of fixed portion of JCT
It is required that the JCT have enough space left after the fixed portion of the JCT (i.e. after JCTFEND) for \$JCT extensions. Enough space is arbitrarily declared to be 512 bytes in a buffer which is at its minimum size (2048). If the following SCON gets an assembly error, then there is not enough space left over.					
1448	(5A8)	ADDRESS	2	JCTLEFT(0)	
The following fields define the local extension to the JCT pointed to by JCTLEXTA. This extension is a local data area managed by the \$JCTXnnn services.					
1448	(5A8)	X'0'	0	JCTLXID	"0,4,C'C'" Eyecatcher ('JCLX')
1448	(5A8)	X'4'	0	JCTLXLEN	"4,2,C'H'" Remaining free space
1448	(5A8)	X'6'	0	JCTLXPRES	"L'JCTLXID+L'JCTLXLEN" Length of prefix
1448	(5A8)	X'2000'	0	JCTLXSIZ	"8192" Size of local extension

Table 259. Cross Reference for \$JCT

Name	Offset	Hex Tag
JCT	0	
JCT#IOTS	1CF	
JCTACCTL	480	
JCTACCTN	150	
JCTACTLG	480	
JCTAIPRI	13E	
JCTASID	114	
JCTAXCLS	440	
JCTAXPR	441	
JCTBATCH	11C	80

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTBLDG	468	
JCTBURST	82	40
JCTBYTES	270	
JCTCABND	CC	24
JCTCARDS	250	
JCTCDTOF	22C	
JCTCDTON	224	
JCTCDUPL	CC	4
JCTCFOPN	CC	3C
JCTCHDRT	42E	
JCTCHNDX	42C	
JCTCIO	CC	8
JCTCIOER	CC	26
JCTCJCL	CC	4
JCTCJDVT	CC	28
JCTCLASS	3E7	
JCTCNVOF	228	
JCTCNVON	220	
JCTCNVRC	CC	
JCTCNWT	CC	10
JCTCOK	CC	0
JCTCPUID	3D8	
JCTCPYCT	16D	
JCTCSECF	CC	C
JCTCSYSE	CC	36
JCTCURTK	578	
JCTCVER	116	31
JCTCVSID	260	
JCTDEPT	460	
JCTENCKY	1C2	
JCTESMF	142	80
JCTESOUT	2D0	
JCTESTBY	174	
JCTESTLN	15C	
JCTESTPG	170	
JCTESTPU	160	
JCTETIME	158	
JCTETS	458	
JCTEVTLF	142	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTEVTW	143	80
JCTEXSID	264	
JCTFAMLY	1CC	
JCTFEAS	143	
JCTFEND	5A8	
JCTFEND_Z11	578	
JCTFLAGZ	117	
JCTFLAG1	82	
JCTFLAG2	118	
JCTFLAG3	119	
JCTFLAG4	16C	
JCTFLAG5	0	50
JCTFLAG6	568	
JCTFLAG7	563	
JCTFLAG8	56C	
JCTFLAG9	56D	
JCTFORMS	164	
JCTGMFAL	CC	38
JCTGRPID	1A8	
JCTIDENT	68	
JCTIDLEN	1B9	
JCTINDC	3E5	
JCTINDEV	148	
JCTINRDR	11D	4
JCTIOPRI	140	
JCTIOT_Z11	94	
JCTIOTTK	584	
JCTIPRIO	13E	
JCTJBKEY	78	
JCTJBNUM	74	
JCTJB0PT	11D	
JCTJCLAS	13D	
JCTJDVT	84	
JCTJLOGD	16E	
JCTJMOPT	3FE	
JCTJMR	400	3C8
JCTJMRJN	3C8	
JCTJMRL	400	38
JCTJMRND	400	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTJMRST	378	3C8
JCTJMRUX	3FE	20
JCTJMRVR	3FF	
JCTJNAME	6C	
JCTJOACT	91	
JCTJOBAC	482	
JCTJOBFL	11C	
JCTJOBID	120	
JCTJOBIN	3F8	
JCTJOLIM	8F	
JCTJPERD	51C	
JCTJPEST	520	
JCTJQE	420	
JCTJSFLG	11A	
JCTJSSTP	112	
JCTJTCC	3E6	
JCTJTFLG	83	
JCTJUSID	1BA	
JCTLEFT	5A8	
JCTLENG	80	
JCTLEXTA	0	5C
JCTLINCT	16F	
JCTLINES	254	
JCTLIPUS	254	
JCTLSTAB	53B	
JCTLXID	5A8	0
JCTLXLEN	5A8	4
JCTLXPRES	5A8	6
JCTLXSIZ	5A8	2000
JCTMAXRC	538	
JCTMCLAS	13C	
JCTMVSNM	530	
JCTMXLRC	11E	
JCTNACCT	290	
JCTNDTOF	28C	
JCTNDTON	284	
JCTNFLG1	562	
JCTNJHTK	596	
JCTNJHTR_Z11	438	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTNJSID	27C	
JCTNJTOF	288	
JCTNJTON	280	
JCTNJTTK	59C	
JCTNJTTR_Z11	43C	
JCTNLNDE	2C8	
JCTNNDEV	2A0	
JCTNNJE	143	40
JCTNNNDE	2C0	
JCTNNODE	424	
JCTNOJID	298	
JCTNOJNL	11C	10
JCTNOLOG	11D	10
JCTNONDE	2A8	
JCTNOTUS	1B0	
JCTNOTY6	11B	4
JCTNOT26	11B	1
JCTNOUJP	11B	2
JCTNOUPT	11C	8
JCTNOUSO	11B	20
JCTNOUSR	2B0	
JCTNUPAS	1A0	
JCTNXNDE	2B8	
JCTNXUID	528	
JCTN1DUB	562	40
JCTN1E0T	562	80
JCTOCTTK	58A	
JCTOCTTR_Z11	98	
JCTODTOF	24C	
JCTODTON	244	
JCTOPRIO	141	
JCTOTSID	268	
JCTOUTOF	248	
JCTOUTON	240	
JCTPAGES	26C	
JCTPASS	198	
JCTPCTRK_Z11	564	
JCTPCVTK	5A2	
JCTPDDBK	C4	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTPDDBO	C8	
JCTPNAME	128	
JCTPRICD	11D	80
JCTPRIO	13F	
JCTPRNOD	178	
JCTPROCN	190	
JCTPROUT	178	
JCTPRRID	17C	
JCTPRRMT	17A	
JCTPRTY	110	
JCTPSN1	2D8	
JCTPSN2	2E0	
JCTPUNCH	258	
JCTPUNOD	184	
JCTPUOUT	184	
JCTPURID	188	
JCTPURMT	186	
JCTQHED	11D	1
JCTRDR	3FC	
JCTRDR0F	3F0	
JCTRDRON	3D0	
JCTRDSID	25C	
JCTRDT0F	3F4	
JCTRDTON	3D4	
JCTREQRC	569	
JCTRERUN	11D	2
JCTRMP1	9C	A0
JCTRNODE	144	
JCTROOM	470	
JCTROOMN	154	
JCTROUTE	144	
JCTRRMT	146	
JCTRSTRT	11C	1
JCTRXLN	1CA	
JCTSAMSK	A4	
JCTSCHEN	552	
JCTSECLB	514	
JCTSETUP	11D	40
JCTSGRP	478	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTSMFLG	11B	
JCTSMFL0	11B	D8
JCTSPIOT_Z11	90	
JCTSPLNG	7C	18
JCTSPNTK	57E	
JCTSPUNB	274	
JCTSTART	0	68
JCTSTCJB	11C	20
JCTSTEP	3E4	
JCTTCOPY	11C	2
JCTTGACT	8E	
JCTTGLIM	8C	
JCTTHOLD	11D	20
JCTTOKEN	1D0	
JCTTRAK_Z11	8C	
JCTTSCAN	11C	4
JCTTSUAF	1B8	
JCTTSUID	1B0	1B0
JCTTSUJB	11C	40
JCTUCOM	3E8	
JCTUIDL	1B9	
JCTUJVP	3EC	
JCTUSEID	3DC	
JCTUSERA	F8	
JCTUSERB	FC	
JCTUSERC	100	
JCTUSERD	104	
JCTUSERE	108	
JCTUSERF	10C	
JCTUSER0	D0	
JCTUSER1	D4	
JCTUSER2	D8	
JCTUSER3	DC	
JCTUSER4	E0	
JCTUSER5	E4	
JCTUSER6	E8	
JCTUSER7	EC	
JCTUSER8	F0	
JCTUSER9	F4	

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCTVALJB	11C	E0
JCTVER	116	
JCTVER0	3FF	0
JCTVER1	3FF	1
JCTWEARR	54E	
JCTWORK	2E8	
JCTWOSCN	546	
JCTWSCN	53E	
JCTXBMII	11D	8
JCTXBUFO	A0	
JCTXDTOF	23C	
JCTXDTON	234	
JCTXEQND	278	
JCTXEQOF	238	
JCTXEQON	230	
JCTXMASK	400	
JCTXMTTK	590	
JCTXNODE	27A	
JCTXOUT	2D4	
JCTXSTOP	450	
JCTXSTRT	448	
JCTXTRK_Z11	9C	
JCTXWRK	378	
JCTZEMID	117	80
JCTZLGPD	117	20
JCTZPRIV	117	40
JCTZSCHM	117	4
JCTZSCHN	117	10
JCTZSCHU	117	8
JCT1INTJ	82	20
JCT1LDR	82	10
JCT1NUNK	82	4
JCT1ODEL	82	1
JCT1RECV	82	8
JCT1SJ0B	82	80
JCT1UNDF	82	2
JCT2AVD	118	10
JCT2AVDP	118	40
JCT2AVF	118	20

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCT2EXEC	118	4
JCT2IOT2	118	1
JCT2SDCR	118	2
JCT2TJOB	118	8
JCT2TW0J	118	80
JCT3BATI	119	40
JCT3FORM	119	2
JCT3JDSP	119	20
JCT3NCA	119	8
JCT3NCF	119	10
JCT3NOTK	119	4
JCT3RJCS	119	1
JCT3TPI	119	80
JCT4EJOB	16C	4
JCT4LCDF	16C	2
JCT4NPSE	16C	40
JCT4PASE	16C	80
JCT4RCST	16C	10
JCT4STAB	16C	1
JCT4UJNM	16C	20
JCT4WINI	16C	8
JCT5CKPT	0	80
JCT5EXTA	0	1
JCT6CONC	568	2
JCT6DFJG	568	4
JCT6JBRC	568	8
JCT6LSRC	568	80
JCT6NETS	568	1
JCT6RQAB	568	20
JCT6RQST	568	40
JCT6RSPC	568	10
JCT7BN0T	563	8
JCT7FAIC	563	10
JCT7GDGS	563	2
JCT7MCSP	563	1
JCT7NQAL	563	40
JCT7NQAU	563	80
JCT7PCNV	563	20
JCT7UNTLL	563	4

Table 259. Cross Reference for \$JCT (continued)

Name	Offset	Hex Tag
JCT8LJLC	56C	80
JCT8LJLD	56C	40
JCT8LJLW	56C	20
JCT8PJLC	56C	8
JCT8PJLD	56C	4
JCT8PJLW	56C	2
JCT9BJLC	56D	80
JCT9BJLD	56D	40
JCT9BJLW	56D	20
JCT9CJLC	56D	8
JCT9CJLD	56D	4
JCT9CJLW	56D	2

\$JCTX information

\$JCTX programming interface information

\$JCTX is a programming interface.

\$JCTX heading information

Common name: JES2 Job Control Table Extension

Macro ID: \$JCTX

DSECT name: JCTX

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JCTX'
Offset: JCXEYE-JCTX
Length: 4

Storage attributes: Subpool: 7 in JES2 main task environment;
230 in USER or SUBTASK environments
Key: 1
Residency: The \$JCTX is an extension of the \$JCT, currently residing in the same spool buffer as the \$JCT. No code dependencies (other than in the \$JCTX service routines themselves) should rely on this.
Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

Size: JCXORG-JCTX defines the length of the base section of the JCTX. JCXLEN contains the total length of the extension.

Created by: \$JCTXADD routine in HASCXJCT.
In-storage versions of the control block are created by \$CBIO READ VERIFY=JCT.

Pointed to by: \$JCTXGET macro should be used to find the address of the extension.

Serialization: Serialization is the same as for the \$JCT.

Function: The Job Control Table Extension gives an installation the ability to associate their own information with a job without modifying the Job Control Table. These extensions may be manipulated using the \$JCTXADD, \$JCTXEXP, \$JCTXGET, and \$JCTXREM services. The \$JCTX mapping is also used as the parameter list to the \$JCTX service routines. These parameter lists are created by the \$JCTXxxx macros and deleted by the corresponding routines.

\$JCTX mapping

Table 260. Structure JCTX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JCTX	
0	(0)	CHARACTER	4	JCXEYE	JCTX Eyecatcher
4	(4)	CHARACTER	4	JCXTYPE	Extension Type
8	(8)	SIGNED	2	JCXMOD	Extension Modifier
10	(A)	SIGNED	2	JCXLEN	Extension Length
<p>The variable information in the \$JCTX begins at label JCXORG. Note that different mappings will exist for different values of TYPE and MOD. The instruction "ORG ," should not be used in the mappings for any extension, as this sets the location counter to the highest value defined so far. If multiple sections are defined, this could lead to an erroneous mapping.</p>					
12	(C)	SIGNED	4	JCXORG(0)	Origin for variable data portions of \$JCT extension.
12	(C)	X'C'	0	JCXBASLN	"JCXORG-JCTX" Length of base section of the \$JCTX
<p>IBM supplied extension for JESLOG spin control. The JCXTYPE is "IBM" The JCXMOD is JCXJLGM</p>					
12	(C)	X'1'	0	JCXJLGM	"1" Modifier
12	(C)	BITSTRING	6	JCXJLOG	JES log control
12	(C)	X'12'	0	JCXJLEN	"*-JCTX" Extension length
<p>IBM supplied extension for advanced features The JCXTYPE is "IBM" The JCXMOD is JCXADVM</p>					
12	(C)	X'2'	0	JCXADVM	"2" Modifier
12	(C)	CHARACTER	8	JCXJCLA8	Extended execution job class name
20	(14)	CHARACTER	8	JCXAXCL8	Extended actual execution job class name
28	(1C)	CHARACTER	8	JCXMVSSB	Submitting MVS system name
36	(24)	BITSTRING	6	JCXJSMTK	MQTR of JSMT (Job symbol table)
36	(24)	X'2A'	0	JCXADVSZ	"*-JCTX" Extension length

Table 260. Structure JCTX (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
IBM supplied extension for encryption/compression statistics The JCXTYPE is "IBM" The JCXMOD is JCXENCM This section only exists if there are encrypted or compressed data sets					
12	(C)	X'3'	0	JCXENCM	"3" Modifier
12	(C)	BITSTRING	4		Reserved
16	(10)	ADDRESS	8	JCXBYTEC	Total job uncompressed byte count
24	(18)	ADDRESS	8	JCXBCOMP	Total job compressed byte count
32	(20)	SIGNED	4	JCXCMPT	Compressed data set count
36	(24)	SIGNED	4	JCXENCCT	Encrypted data set count
36	(24)	X'28'	0	JCXENCLN	"*-JCTX" Extension length
IBM supplied extension for AI-Infused Selection The JCXTYPE is "IBM" The JCXMOD is JCXAISM This section only exists if there were system symbols related to AIS specified at input time, or if a HOLDUNTIL was specified.					
12	(C)	X'4'	0	JCXAISM	"4" Modifier
12	(C)	BITSTRING	1	JCXFLAG1	Flag Byte
		1...		JCX1UNTU	"B'10000000'" HOLDUNTIL timezone ON = UTC OFF = local time
		.1..		JCX1UNTG	"B'01000000'" HOLDUNTIL time granularity ON = seconds OFF = minutes
		..1.		JCX1HSYM	"B'00100000'" HOLDUNTIL was set by the symbol at Input
		...1		JCX1DDL	"B'00010000'" DEADLINE timezone ON = UTC OFF = local time
13	(D)	BITSTRING	6	JCXUNTL	HOLDUNTIL timestamp in ETOD Same value as JQAs JQAUNTL
19	(13)	BITSTRING	6	JCXDDL	DEADLINE timestamp in ETOD
25	(19)	BITSTRING	7		Reserved
32	(20)	DBL WORD	8	(0)	Doubleword alignment
32	(20)	BITSTRING	8	JCXJBTK	JOBTOKEN job signature
40	(28)	BITSTRING	4	JCXJBTK1	Local job signature one
44	(2C)	BITSTRING	4	JCXJBTK2	Local job signature two
44	(2C)	X'30'	0	JCXAISLN	"*-JCTX" Extension length

Table 261. Cross Reference for \$JCTX

Name	Offset	Hex Tag
JCTX	0	
JCXADVM	C	2
JCXADVSZ	24	2A
JCXAISLN	2C	30
JCXAISM	C	4
JCXAXCL8	14	
JCXBASLN	C	C

Table 261. Cross Reference for \$JCTX (continued)

Name	Offset	Hex Tag
JCXBCOMP	18	
JCXBYTEC	10	
JCXCMPCT	20	
JCXDDLN	13	
JCXENCCT	24	
JCXENCLN	24	28
JCXENCM	C	3
JCXEYE	0	D1C3E3E7
JCXFLAG1	C	
JCXJBTK	20	
JCXJBTK1	28	
JCXJBTK2	2C	
JCXJCLA8	C	
JCXJLEN	C	12
JCXJLGM	C	1
JCXJLOG	C	
JCXJSMTK	24	
JCXLEN	A	
JCXMOD	8	
JCXMVSSB	1C	
JCXORG	C	
JCXTYPE	4	
JCXUNTLL	D	
JCX1DDLU	C	10
JCX1HSYM	C	20
JCX1UNTG	C	40
JCX1UNTU	C	80

\$JESLOG information

\$JESLOG programming interface information

\$JESLOG is a programming interface.

\$JESLOG heading information

Common name: JES log control
Macro ID: \$JESLOG
DSECT name: JLG
Owning component: JES2 (SC1BH)

Eye-catcher ID: "None"
Offset: N/A
Length: N/A

Storage attributes: Subpool: n/a
Key: n/a
Residency: This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

Size: See JLGLEN

Created by: See "hosting" control blocks

Pointed to by: No pointers

Serialization: None required

Function: The JESLOG describes how the spinning of JESLOG (JESYSMSG and JESJOBLOG) is to be supported.

\$JESLOG mapping

Table 262. Structure JLG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JLG	
0	(0)	BITSTRING	1	JLGFLAG1	Flags - JESMSG LG/JESYSMSG
		1...		JLG1ELIG	"B'10000000'" Spin eligible
		.1..		JLG1TIMI	"B'01000000'" Spin on time interval
		..1.		JLG1TIMD	"B'00100000'" Spin on time of day
		...1		JLG1LINE	"B'00010000'" Spin upon line delta
		.... 1...		JLG1SUP	"B'00001000'" Suppress
		.... .1..		JLG1NOSP	"B'00000100'" No Spin
		.... .1..		JLG1NOCM	"B'00000100'" Not spinnable via command
1	(1)	SIGNED	1	JLGSOURC	Source of JESLOG info
1	(1)	X'0'	0	JLGSEXIT	"0" JESLOG from Exit
1	(1)	X'1'	0	JLGSJCL	"1" JESLOG from JCL
1	(1)	X'2'	0	JLGSCAT	"2" JESLOG from CAT
1	(1)	X'3'	0	JLGSSRR	"3" JESLOG from IEFSSRR
1	(1)	X'4'	0	JLGSPLCY	"4" JESLOG from Policy
JLGVALUE has one of the following values: <ul style="list-style-type: none"> o 0 if no bit on in JLGFLAG1 or just JLG1ELIG on or just JLG1SUP on o Increment in seconds if JLG1TIMI on o Increment in TOD clock units if JLG1TIMI on and embedded in the SJXB o Number of seconds past midnight if JLG1TIMD on o Number of TOD clock units past midnight if JLG1TIMD on and embedded in the SJXB o Line delta if JLG1LINE on 					
2	(2)	SIGNED	4	JLGVALUE	Value used for JESLOG spin decisions (see above)
2	(2)	X'6'	0	JLGLEN	"*-JLG" Length of area
6	(6)	ADDRESS	2	(0)	Ensure length is 6

Table 263. Cross Reference for \$JESLOG

Name	Offset	Hex Tag
JLG	0	
JLGFLAG1	0	
JLGLEN	2	6
JLGSCAT	1	2
JLGSEXIT	1	0
JLGSJCL	1	1
JLGSOURC	1	
JLGSPLCY	1	4
JLGSSRR	1	3
JLGVALUE	2	
JLG1ELIG	0	80
JLG1LINE	0	10
JLG1NOCM	0	4
JLG1NOSP	0	4
JLG1SUP	0	8
JLG1TIMD	0	20
JLG1TIMI	0	40

\$JIB information

\$JIB programming interface information

The following fields are **NOT** programming interface information:

- JIBGCB
- JIBJSPA

\$JIB heading information

Common name: JES2 JOE Information Block

Macro ID: \$JIB

DSECT name: JIB

Owning component: JES2 (SC1BH)

Eye-catcher ID: JIB
Offset: JIBID-JIB
Length: L'JIBID

Storage attributes: Subpool: 230
Key: 1
Residency: If the FSS supports AMODE 31, then ANY. If the FSS only supports AMODE 24, then storage is obtained below the line. Real storage is anywhere.
The storage resides in the FSS address space.

Size: See JIBSIZE

Created by: HASPFSSM

Pointed to by: FSAREQQS field of the FSACB data area
 FSAACTQS field of the FSACB data area
 FSARETQS field of the FSACB data area
 JIBNEXT field of the JIB data area
 QCTSTKHD field of the QCT data area

Serialization: Standard FSA level control block serialization.

Function: The JIB is used to pass JOE level information between the JES2 main task (in HASPFSSP) and the FSS address space (HASPFSM). In addition, HASPFSSM uses the JIB to store JOE level information.

\$JIB mapping

Table 264. Structure JIB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JIB	JOE INFORMATION BLOCK
0	(0)	CHARACTER	4	JIBID	JIB IDENTIFIER
4	(4)	SIGNED	4	JIBNEXT	POINTER TO NEXT JIB ON QUEUE
8	(8)	SIGNED	4	JIBJ2RAB(0)	BEGIN JES2 RELDS CMS COPY AREA
8	(8)	CHARACTER	8	JIBMIDSE	JIB unprintable reason code
16	(10)	SIGNED	4	JIBFLAGS(0)	JIB FLAG BYTES
16	(10)	BITSTRING	1	JIBFLG1	FIRST FLAG BYTE
		1...		JIBFREQ	"B'10000000" JIB IS A REQUEST FOR A JOE
		.1..		JIBFACT	"B'01000000" JIB IS ACTIVE ON DEVICE
		..1.		JIBFRET	"B'00100000" JIB IS BEING RETURNED TO JES
		...1		JIBFINIT	"B'00010000" JIB IS INITIALIZED
		.... 1...		JIBFCOMP	"B'00001000" JIB COMPLETELY PROCESSED
		.... .1..		JIBFINCP	"B'00000100" JIB NOT COMPLETELY PROCESSED
		.... ..1.		JIBFCPB	"B'00000010" CHECKPOINT BUFFER ACQUIRED
		.... ...1		JIBIOERR	"B'00000001" I/O ERROR ON JCT/IOT READ
17	(11)	BITSTRING	1	JIBFLG2	SECOND FLAG BYTE
		1...		JIBFSTOP	"B'10000000" \$Z COMMAND
		.1..		JIBFDEL	"B'01000000" \$C COMMAND
		..1.		JIBFRST	"B'00100000" \$E COMMAND
		...1		JIBFINT	"B'00010000" \$I COMMAND
		.... 1...		JIBFBKSP	"B'00001000" \$B COMMAND
		.... .1..		JIBFJHPG	"B'00000100" JOB HEADER PAGE REQUIRED
		.... ..1.		JIBFJTPG	"B'00000010" JOB TRAILER PAGE REQUIRED
		.... ...1		JIBFNEWS	"B'00000001" JES2 NEWS DATA SET ACQUIRED
18	(12)	BITSTRING	1	JIBFLG3	THIRD FLAG BYTE
		1...		JIBFFSTP	"B'10000000" 1ST Pddb BEING GETDSD FROM JOE

Table 264. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1...		JIBFLSTP	"B'01000000'" LAST PDDb BEING GETDSD FROM JOE
		..1.		JIBFCPVL	"B'00100000'" VALID CKPT RECORD READ FOR JOE
		...1		JIBFCPER	"B'00010000'" I/O ERROR ON SPOOL CKPT RECORD
		.... 1...		JIBFUNPR	"B'00001000'" UNPRINTABLE JOE IN JIB
		.... .1..		JIBFONDV	"B'00000100'" ON DEVICE MSG NEEDED FOR JOE
		.... ..1.		JIBFOPIC	"B'00000010'" JIB CANCELLED DURING SETUP
		.... ...1		JIB3AUTH	"B'00000001'" JESNEWS AUTHORIZATION FAILURE
19	(13)	BITSTRING	1	JIBFLG4	FOURTH FLAG BYTE
		1...		JIB4RSV1	"B'10000000'" Reserved for future use
		.1...		JIB4DUMD	"B'01000000'" Dummy data set being processed
		..1.		JIB4FSSR	"B'00100000'" HASP704 for FSS reason
		...1		JIBSWBER	"B'00010000'" SWB error
		.... 1...		JIB4RDIP	"B'00001000'" FSA posted for GETDS as dataset RELDSed incomplete & FSA was waiting for work
		.... .1..		JIB4OPIN	"B'00000100'" Operator intervention requested for dataset within JIB
		.... ..1.		JIB4REPO	"B'00000010'" JIB's dataset going thru reposition
		.... ...1		JIB4NENF	"B'00000001'" Data set select ENF was sent when JOE header page was printed
20	(14)	BITSTRING	1	JIBUNPRR	REASON PRT DS UNPRINTABLE
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	JIBJ2GAB(0)	BEGIN JES2 GETDS CMS COPY AREA
24	(18)	BITSTRING	1	JIBFLG5	Fifth Flag Byte
		1...		JIB5JCOR	"B'10000000'" Job correlator in GETDS data
25	(19)	BITSTRING	3		RESERVED FOR FUTURE USE
28	(1C)	SIGNED	4	JIBJOEI	Index of JOE in the JOT
32	(20)	SIGNED	4	JIBJ2RAE(0)	END OF JES2 RELDS CMS COPY AREA
32	(20)	BITSTRING	6	JIBJCTMQ	JCT track address (JQYTRAK)
38	(26)	BITSTRING	2		Reserved for future use
40	(28)	SIGNED	4	JIBJBNUM	Job number
44	(2C)	CHARACTER	8	JIBJOBID	HASP JOB IDENTIFIER
52	(34)	ADDRESS	4	JIBJKEY	HDBDSKEY FOR CB VERIFICATION
56	(38)	BITSTRING	192	JIBNEWS	Copy of current JNEW CB (used for JESNEWS)
248	(F8)	SIGNED	4	JIBJ2GAC(0)	Begin JES2 GETDS CMS copy area for Job Correlator
248	(F8)	CHARACTER	64	JIBJCOR	Job Correlator
312	(138)	SIGNED	4	JIBJ2GAE(0)	END OF JES2 GETDS CMS COPY AREA
312	(138)	SIGNED	4	JIBWORK(4)	WORK AREA FOR \$VERIFY IN FSSM
328	(148)	CHARACTER	8	JIBDEVN	EBCDIC device name
336	(150)	ADDRESS	4	JIBSJIOB	Normal SJIOB pointer

Table 264. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
340	(154)	ADDRESS	4	JIBCSJIO	CHK record SJIOB pointer
344	(158)	ADDRESS	4	JIBJCT	POINTER TO JCT
348	(15C)	ADDRESS	4	JIBIOT	POINTER TO IOT
352	(160)	BITSTRING	6	JIBIOTTK	IOT MQTR (CURRENT OR RESET)
358	(166)	BITSTRING	2		Reserved
360	(168)	ADDRESS	4	JIBPDDDB	POINTER TO NEXT ASSIGNABLE PDDDB
364	(16C)	ADDRESS	4	JIBFPDB	FIRST PDDDB OFFSET IN JIB
368	(170)	ADDRESS	4	JIBFIOTR	IOT MTTR OF FIRST PDDDB
372	(174)	ADDRESS	4	JIBCPBUF	CHECKPOINT I/O BUFFER ADDRESS
376	(178)	ADDRESS	4	JIBGCB	POINTER TO GCB CHAIN
380	(17C)	SIGNED	4	JIBDSACT	DATA SETS ASSIGNED COUNT
384	(180)	SIGNED	4	JIBDSEQN	DATA SET SEQUENCE NUMBER
388	(184)	CHARACTER	8	JIBSECLB	Security label of the job
396	(18C)	BITSTRING	224	JIBJSPA	JSPA AREA
620	(26C)	BITSTRING	4	(2)	Reserved
620	(26C)	X'274'	0	JIBSIZE	"*-JIB" Length of JIB base. Note that the length of a JIB is JIBSIZE, plus the size of the prototype JOA, which is appended to the end of the JIB.
628	(274)	SIGNED	2	JIBJOAPR(0)	Prototype (copy) JOA. The size of a JIB is calculated dynamically at runtime by the FSMQCT routine in HASPFSSM

Table 265. Cross Reference for \$JIB

Name	Offset	Hex Tag
JIB	0	
JIBCPBUF	174	
JIBCSJIO	154	
JIBDEVN	148	
JIBDSACT	17C	
JIBDSEQN	180	
JIBFACT	10	40
JIBFBKSP	11	8
JIBFCOMP	10	8
JIBFCPB	10	2
JIBFCPER	12	10
JIBFCPVL	12	20
JIBFDEL	11	40
JIBFFSTP	12	80
JIBFINCP	10	4
JIBFINIT	10	10
JIBFINT	11	10
JIBFIOTR	170	

Table 265. Cross Reference for \$JIB (continued)

Name	Offset	Hex Tag
JIBFJHPG	11	4
JIBFJTPG	11	2
JIBFLAGS	10	
JIBFLG1	10	
JIBFLG2	11	
JIBFLG3	12	
JIBFLG4	13	
JIBFLG5	18	
JIBFLSTP	12	40
JIBFNEWS	11	1
JIBFONDV	12	4
JIBFOPIC	12	2
JIBFPDB	16C	
JIBFREQ	10	80
JIBFRET	10	20
JIBFRST	11	20
JIBFSTOP	11	80
JIBFUNPR	12	8
JIBGCB	178	
JIBID	0	
JIBIOERR	10	1
JIBIOT	15C	
JIBIOTTK	160	
JIBJBNUM	28	
JIBJCOR	F8	
JIBJCT	158	
JIBJCTMQ	20	
JIBJKEY	34	
JIBJOAPR	274	
JIBJOBID	2C	
JIBJOEI	1C	
JIBJSPA	18C	
JIBJ2GAB	18	
JIBJ2GAC	F8	
JIBJ2GAE	138	
JIBJ2RAB	8	
JIBJ2RAE	20	
JIBMIDSE	8	
JIBNEWS	38	

Table 265. Cross Reference for \$JIB (continued)

Name	Offset	Hex Tag
JIBNEXT	4	
JIBPDDB	168	
JIBSECLB	184	
JIBSIZE	26C	274
JIBSJI0B	150	
JIBSWBER	13	10
JIBUNPRR	14	
JIBWORK	138	
JIB3AUTH	12	1
JIB4DUMD	13	40
JIB4FSSR	13	20
JIB4NENF	13	1
JIB4OPIN	13	4
JIB4RDIP	13	8
JIB4REPO	13	2
JIB4RSV1	13	80
JIB5JC0R	18	80

\$JNEW information

\$JNEW programming interface information

\$JNEW is a programming interface.

\$JNEW heading information

Common name:	JNEW Control Block
Macro ID:	\$JNEW
DSECT name:	JNEW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	JNEW Offset: JNEWID-JNEW Length: L'JNEWID
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual storage is 31 bit. No restriction on real storage
Size:	See JNEWSIZE
Created by:	JESNEWS processing in HASPJOS

Pointed to by: \$JNEW field of the \$HCT data area
JNEWNEXT field of the \$JNEW data area
PPPANEWS field of the \$PPPWORK data area
JIBNEWS field of the \$JIB data area

Serialization: Creation is serialized by the \$PRONEWS flag of the \$PROCESS byte in the HCT

Function: The JNEW is the control block representing the JESNEWS data set. It contains the JESNEWS data set resource name and the TOKEN associated with the data set. The format of the entity name is "nodeid.jes_userid.\$JESNEWS.jesnews_jobid.Dnews_level.JESNEWS".
The JNEW is located in the JES2 address space. It is created by \$#NEWS when a new news data set is created and by \$#GTNEWS when a printer requests the current news.

\$JNEW mapping

Table 266. Structure JNEW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JNEW	
0	(0)	CHARACTER	4	JNEWID	JNEW identifier
4	(4)	ADDRESS	1	JNEWVERS	Version
		.... ...1		JNEWVRSN	"X'01'" Version equate
5	(5)	BITSTRING	1	JNEWFLAG	Flag byte
		1...		JNEWMOVD	"B'10000000'" JESNEWS was moved
6	(6)	ADDRESS	2		Reserved
8	(8)	SIGNED	4	JNEWUSE	Use Count
12	(C)	ADDRESS	4	JNEWNEXT	Address of next JNEW
16	(10)	SIGNED	4	JNEWJNUM	Job number of JQE
20	(14)	SIGNED	4	JNEWLEVL	Level of the news
24	(18)	SIGNED	4	JNEWMTTR	MTTR of JESNEWS data set
28	(1C)	SIGNED	4	JNEWIOTT	MTTR of JESNEWS IOT
32	(20)	SIGNED	4	JNEWRECT	Data set record count
36	(24)	SIGNED	4	JNEWPGCT	Page data page count
40	(28)	BITSTRING	80	JNEWTOKN	JESNEWS Security token
120	(78)	CHARACTER	53	JNEWENTY	JESNEWS entity name
173	(AD)	BITSTRING	1	JNEWRECF	Data set record format
174	(AE)	BITSTRING	2	JNEWRECL	Maximum data set record lng
176	(B0)	BITSTRING	6	JNEWMQTR	MQTR of JESNEWS data set
182	(B6)	BITSTRING	6	JNEWIOTQ	MQTR of JESNEWS IOT
188	(BC)	BITSTRING	4		Reserved
192	(C0)	DBL WORD	8	(0)	Ensure boundry
192	(C0)	X'C0'	0	JNEWSIZE	"*-JNEW" Size of JNEW control block

Table 267. Cross Reference for \$JNEW

Name	Offset	Hex Tag
JNEW	0	
JNEWENTY	78	
JNEWFLAG	5	
JNEWID	0	
JNEWIOTQ	B6	
JNEWIOTT	1C	
JNEWJNUM	10	
JNEWLEVL	14	
JNEWMOVD	5	80
JNEWMQTR	B0	
JNEWMTTR	18	
JNEWNEXT	C	
JNEWPGCT	24	
JNEWRECF	AD	
JNEWRECL	AE	
JNEWRECT	20	
JNEWSIZE	C0	C0
JNEWTOKN	28	
JNEWUSE	8	
JNEWVERS	4	
JNEWVRSN	4	1

\$JNT information

\$JNT programming interface information

\$JNT is a programming interface.

\$JNT heading information

Common name: HASP Job Number Table

Macro ID: \$JNT

DSECT name: JNT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'JNT '
Offset: JNTID-JNT
Length: 4

Storage attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

Size: JNTLEN + (2 * 32768) - R4 mode <32K jobs
JNTLEN + (2 * 65534) - R4 mode >=32K jobs
JNTLENZ2 + (4 * 65536) - z2 mode

Created by: JES2 initialization allocates storage for the JNT.
The checkpoint versions subtask creates copies of the JNT in the checkpoint versions data space.

Pointed to by: The \$JNTPTR field of the \$HCT data area.
The DSRVJNPT field of the IAZDSERV data area.

Serialization: JES2 checkpoint data set lock (\$QSUSE)

Function: Maps the job number table in the 4K checkpoint page area. Contains all job number information including the JIX (job number index).

\$JNT mapping

Table 268. Structure JNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JNT	JOB NUMBER TABLE DSECT
0	(0)	CHARACTER	4	JNTID	JNT IDENTIFIER
4	(4)	ADDRESS	1	JNTVRSN	JNT VERSION
4	(4)	X'4'	0	JNTVERS	"4" JNT VERSION NUMBER
5	(5)	ADDRESS	1	JNTRSV1	RESERVED
6	(6)	SIGNED	2	JNTCATCT	Counter that is incremented every time an execution class (CAT) or execution class group (GRPOBJ) is changed. Used to trigger a REFRESH of the in- memory CAT/GRPOBJ cache.
8	(8)	SIGNED	4	JNTLCMIN	LOCAL MINIMUM JOB NUMBER
12	(C)	SIGNED	4	JNTLCMAX	LOCAL MAXIMUM JOB NUMBER
16	(10)	SIGNED	4	JNTLSTAL	LAST ALLOCATED JOB NUMBER
20	(14)	SIGNED	4	JNTFRCNT	NUMBER OF FREE JOB NUMBERS
24	(18)	ADDRESS	4	JNTJBMAX	TOTAL NUMBER OF JOB NUMBERS
28	(1C)	SIGNED	4	(2)	Reserved for future use
36	(24)	SIGNED	4	JNTBSEND(0)	End of base section
36	(24)	X'24'	0	JNTBLEN	"*-JNT" Length of the base JNT
<p>JNTJXMAP is a map of the allocated job numbers in the JIX. The map contains one bit for every 32 job numbers. Therefore, a bit being on indicates that one or more job numbers within the 32 job number range are allocated in the JIX. We selected one bit to represent 32 job numbers because 999999 job numbers could be accounted for and still keep the z2 JNT in a single buffer (not including the JIX).</p>					
36	(24)	BITSTRING	1	JNTJXMAP	Jix map of allocated job numbers
36	(24)	X'F43'	0	JNTJXMLN	"*-JNTJXMAP" Length of JNTJXMAP
3944	(F68)	SIGNED	4	JNTJIXZ2(0)	Start of z2 JIX
3944	(F68)	X'F68'	0	JNTLENZ2	"*-JNT" Length of the z2 JNT
3944	(F68)	X'10000'	0	JNTJXENT	"65536" Number of JIX entries

Table 269. Cross Reference for \$JNT

Name	Offset	Hex Tag
JNT	0	
JNTBLEN	24	24
JNTBSEND	24	
JNTCATCT	6	
JNTFRCNT	14	
JNTID	0	D1D5E340
JNTJBMAX	18	
JNTJIXZ2	F68	
JNTJXENT	F68	10000
JNTJXMAP	24	
JNTJXMLN	24	F43
JNTLCMAX	C	
JNTLCMIN	8	
JNTLENZ2	F68	F68
JNTLSTAL	10	
JNTRSV1	5	
JNTVERS	4	4
JNTVRSN	4	

\$JOE information

\$JOE programming interface information

\$JOE is a programming interface.

\$JOE heading information

Common name:	Job Output Element
Macro ID:	\$JOE
DSECT name:	JOE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	The pool of JOEs is preceded by an eyecatcher '**JOE POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage attributes:	Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy. Key: 1 Residency: The JOE is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.
Size:	See JOESIZE.

Created by:

JES2 Initialization allocates memory for the pool of JOEs. The checkpoint versions subtask creates the dataspace copies. The \$#ADD service routine creates elements within the pool.

Pointed to by:

The following fields contain indexes to \$JOEs from the address in field \$JOTABLE in the \$HCT data area. The offsets are converted to addresses by adding the value in \$JOTABLE to the offset. The indexes are converted to addresses by multiplying by JOESIZE and then adding the value in \$JOTABLE to the calculated offset.

JOTFREQI field of the \$JOT data area
 JOTCHRQI field of the \$JOT data area
 JOTPRGQI field of the \$JOT data area
 JOTHLQI field of the \$JOT data area
 JOTCLSQI field of the \$JOT data area
 JOTNTWQI field of the \$JOT data area
 JQEJOEI field of the \$JQE data area
 JOENEXTI field of the \$JOE data area
 JOEPREVI field of the \$JOE data area
 JOENXJQI field of the \$JOE data area
 JOECHARI field of the \$JOE data area
 JOECHNXI field of the \$JOE data area
 JOEWKPTI field of the \$JOE data area

 The following fields contain offsets to \$JOEs:

PSOWKOFF field of the \$PSO data area
 PSOCHOFF field of the \$PSO data area
 JOENETCH field of the \$JOE data area

 The following fields contain addresses of \$JOEs:

PQEJWJOE field of the \$PQE data area
 PQEDWJOE field of the \$PQE data area
 PQHXJOE field of the \$PQH data area

 Various fields in the processor work areas and parameter lists contain offsets or addresses of JOEs.

Serialization:

The JES2 checkpoint (\$QSUSE) for change, the owning job's job lock for selection. JOEs in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since they could be changing, they may be page-released or they may be all zeros.

WORK JOEs are managed by the \$DOGJOE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to work JOEs (CHAR JOEs should never be updated except by the appropriate \$# service). With the exception of a few bits, you must obtain an update mode JOA before making any updates to a work JOE.

Function:

The JOE control block represents group of sysout data sets (PDDBs) with compatible output grouping characteristics. It is a checkpointed control block that represents queued and active output work.

There are two main types of JOEs, work JOEs and characteristics JOEs. Work JOEs are the queue elements used to select, hold, track, etc. an output group. The chains that are run to select output work are those of work JOEs. Work JOEs contain attributes of JOEs that vary frequently such as class, record counts and page counts. One characteristics JOE exists for each unique combination of other characteristics not in the work JOE that vary less frequently such as userid, writer id and security label for all the JOEs in the MAS. One characteristics JOE may represent multiple work JOEs.

The work JOEs are chained by SYSOUT classes, from anchors in the Job Output Table (JOT). The JOT anchors are in the CKPT, located in the front of the section for the JOEs.

The JOEs written to the checkpoint exist in multiple copies: main and I/O checkpoint areas. The main and I/O CKPT areas in storage each have a copy, and are in subpool 0. There may be 1 or more versions in the CKPT Versions dataspace as well.

Copies of JOEs may be made in other control blocks, for example in the JIB that flows through the FSS output logic in an FSS address space (copied from the JES2 address space).

\$JOE mapping

Table 270. Structure JOE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JOE	JOB OUTPUT ELEMENT DSECT
0	(0)	X'0'	0	JOA	"JOE,0,C'J'" JOE is sometimes a JOA
0	(0)	X'8'	0	JOEVRSN	"8" JOE control block version
Work JOE starts here					
0	(0)	X'0'	0	JOEWSTRT	"*,0,C'J'" Start of work JOE area
0	(0)	BITSTRING	1	JOETYPE	JOE TYPE
		1...		JOEWORK	"B'10000000'" THIS IS A WORK JOE
		.1..		JOECHARJ	"B'01000000'" THIS IS A CHAR JOE
		11..		JOEFREE	"B'11000000'" THIS IS A FREE JOE
		..1.		JOEINDEX	"B'00100000'" This is an index JOE
0	(0)	X'0'	0	JOEWB1	"JOE,*,JOE,C'X'" 1st work JOE block
1	(1)	ADDRESS	3	JOENEXTI	Next WORK-JOE in class q or next CHAR-JOE (index) or next index JOE (index)
4	(4)	BITSTRING	1	JOECURCL	JOE CURRENT SYSOUT CLASS (reserved in the CHAR JOE)
4	(4)	X'4'	0	JOEWB2	"JOECURCL,*,JOECURCL,C'X'" 2nd work JOE block

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOE queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.</p>					
5	(5)	ADDRESS	3	JOEPREVI	Previous WORK-JOE in class queue or previous CHAR-JOE (index)
8	(8)	BITSTRING	1	JOEFLAG5	Common area JOE flag byte
		.... ..1		JOE5RBLD	"B'00000001'" This JOE is on the Rebuild queue
		.... ..1.		JOE5ZAP	"B'00000010'" JOE (and JQE) zapped by ZAPJOB
		.... ..1..		JOE5ESSM	"B'00000100'" Owning job was submitted via emergency subsystem
8	(8)	X'8'	0	JOEWB3	"JOEFLAG5,*-JOEFLAG5,C'X'" 3rd work JOE block
9	(9)	BITSTRING	1	JOE#BRTS	Number of BERTS used by this JOE
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	BITSTRING	1	JOEFLAG1	WORK-JOE FLAGS
		1...		JOE1CKV	"B'10000000'" CHECKPOINT ELEMENT VALID FLAG
		.1..		JOE1SPIN	"B'01000000'" SPIN JOE FLAG
		..1.		JOE1PRT	"B'00100000'" JOE ON-PRINTER FLAG
		...1		JOE1PUN	"B'00010000'" JOE ON-PUNCH FLAG
		.... 1...		JOE1CJES	"B'00001000'" ckpted by JES (not by FSS). If JOE is interrupted and later processed by FSS, bit indicates to invalidate ckpt + reset counts
<p>JOE1CPDS is set on when a JOE is built and when PDDBs are grouped into the JOE. JOE1CPDS is never turned off even if there are no more PDDBs with PDB3PAGE on</p>					
		.... ..1..		JOE1CPDS	"B'00000100'" One or more PDDBs within this JOE are Page mode (i.e. PDB3PAGE is on)
<p>JOE1CTKN is set on when a JOE is built if a PDDB being represented by the JOE has a client token associated with it (a client token was returned on the dynamic allocation for the SYSOUT data set represented by the PDDB).</p>					
		.... ..1.		JOE1CTKN	"B'00000010'" A PDDB within this JOE has a client token associated with it(i.e. PDB9CTKN on)
		.... ..1		JOE1ART	"B'00000001'" This is an artificial JOE
13	(D)	ADDRESS	3	JOEJQEI	JQE for this JOE (index)
16	(10)	BITSTRING	1	JOEFLAG2	MORE WORK JOE FLAGS
		1...		JOE2TCEL	"B'10000000'" TRACK-CELL JOE FLAG
		.1..		JOE2DMND	"B'01000000'" DEMAND-SETUP JOE FLAG
		..1.		JOE2SYSN	"B'00100000'" SYSTEM GENERATED JOE NAME FLAG
		...1		JOE2CLNE	"B'00010000'" SET MULTIPLE COPIES OF THIS JOE
		.... 1...		JOE2UPRI	"B'00001000'" USER SPECIFY PRIORITY FLAG

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JOE2IPAD	"B'00000100'" Destination is in IP-format
		.... ..1.		JOE2NUNK	"B'00000010'" Tokens are NJE unknown user
		.... ...1		JOE2UNSP	"B'00000001'" JOE CREATED BY UNSPUN PROC
16	(10)	X'C'	0	JOEWB4	"JOEFLAG1,*-JOEFLAG1,C'X'" 4th work JOE block
17	(11)	ADDRESS	3	JOENXJQI	Next WORK-JOE with same job (index)
20	(14)	BITSTRING	1	JOEFLAG3	THIRD WORK JOE FLAG
		1...		JOE3CPER	"B'10000000'" PERM I/O ERROR ON CHK SPOOL REC
		.1..		JOE3IOTV	"B'01000000'" JOE'S IOT HAS BEEN WRITTEN
		..1.		JOE3NWTG	"B'00100000'" GET NEW TRK GRP FOR CHK
20	(14)	X'10'	0	JOE3TODP	"\$ODPURGE" JOE IS OUTDISP=PURGE
The 4 following bits must match definitions in STATSSL3/ESWPSSL3.					
20	(14)	X'8'	0	JOE3TODW	"\$ODWRITE" JOE IS OUTDISP=WRITE
20	(14)	X'4'	0	JOE3TODH	"\$ODHOLD" JOE IS OUTDISP=HOLD
20	(14)	X'2'	0	JOE3TODK	"\$ODKEEP" JOE IS OUTDISP=KEEP
20	(14)	X'1'	0	JOE3TODL	"\$ODLEAVE" JOE IS OUTDISP=LEAVE
20	(14)	X'1F'	0	JOE3TODA	"\$ODANYWP" ALL OUTDISP BIT SETTINGS
20	(14)	X'14'	0	JOEWB5	"JOEFLAG3,*-JOEFLAG3,C'X'" 5th work JOE block
21	(15)	ADDRESS	3	JOECHARI	Characteristic JOE for this WORK-JOE (index)
24	(18)	BITSTRING	1	JOEOFFSL	OFFLOAD SELECT BYTE
24	(18)	X'18'	0	JOEWB6	"JOEOFFSL,*-JOEOFFSL,C'X'" 6th work JOE block
25	(19)	ADDRESS	3	JOECHNXI	Next WORK-JOE, same CHAR (index)
28	(1C)	BITSTRING	1	JOEFLAG4	FOURTH WORK JOE FLAG
		1...		JOE4JNEW	"B'10000000'" JESNEWS JOE FLAG
		.1..		JOE4CRTM	"B'01000000'" JOECRTME update pending
		..1.		JOE4DAUG	"B'00100000'" JOE created from daughter spin IOT
		...1		JOE4DSCT	"B'00010000'" Valid DSCT in spin IOT
		.... 1...		JOE4PRIO	"B'00001000'" Installation set Priority
		.... .1..		JOE4DSID	"B'00000100'" DSID= 3540 HELD DATA SET
		.... ..1.		JOE4NPSO	"B'00000010'" JOE IS NOT AVAILABLE TO PSO
		.... ...1		JOE4PRST	"B'00000001'" JOE priority has been set by \$#BLD
Flag byte JOEFLGT2 is used by various processors (HASPFSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both \$T0 and \$R command processing.					

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
29	(1D)	BITSTRING	1	JOEFLGT2	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in Pddb. See also JOEFLAGT.
		.1..		JOE2TUSE	"B'01000000'" Userid changed via commands
		..1.		JOETPSOC	"B'00100000'" JOE created by PSO/SAPI
		...1		JOETPSOA	"B'00010000'" PSO/SAPI added Pddb to JOE
		.... 1...		JOETPSOD	"B'00001000'" PSO/SAPI deleted Pddb from JOE
30	(1E)	BITSTRING	1	JOEHOLD	JOE hold type (also called JOE blocked type)
OHLDOPE B'10000000' Operator HOLD/blocked OHLDSYS B'00100000' System HOLD/blocked OHLDALL B'11111111' ALL HOLD/blocked					
31	(1F)	BITSTRING	1	JOEHSRNS	System HOLD/blocked reason
OHLDJX01 X'01' FSI RELDS UNPRINTABLE SWB ERROR OHLDJX02 X'02' FSI RELDS UNPRINTABLE FSA OHLDJX03 X'03' SAF CALL FAILED IN HASPPRPU OHLDJX04 X'04' TRANSMISSION FAILED IN HASPNET OHLDJX05 X'05' NJE Hop Count Exceeded OHLDJX06 X'06' Held by Sysout API OHLDJX07 X'07' JCT/IOT I/O error (SAPI) OHLDJ233 X'33' OFFLOAD WITH HOLD OHLDJ234 X'34' PROGRAM CHECK IN HASPPRPU OHLDJ235 X'35' PROGRAM CHECK IN USER EXIT OHLDJ236 X'36' PROGRAM CHECK IN SWBTUREQ					
32	(20)	SIGNED	4	JOEFSID	FSID IF JOE ACTIVE ON AN FSA
32	(20)	X'20'	0	JOEFSSID	"JOEFSID,2,C'H'" FSS ID
32	(20)	X'22'	0	JOEFSID	"JOEFSID+2,2,C'H'" FSA ID
32	(20)	X'20'	0	JOENETCH	"JOEFSID,4,C'A'" Offset of next JOE on SYSOUT transmitter chain
36	(24)	SIGNED	2	JOEPRIO	JOE PRIORITY X'0000' - X'0FF0'
38	(26)	SIGNED	2	JOEJNEWL	JESNEWS number for JESNEWS
40	(28)	SIGNED	4	JOECPADR_Z2	CKPT SP00L record addr (MTTR) z2 mode only (reserved in z11 mode)
THESE FIELDS MUST BE KEPT TOGETHER					
44	(2C)	BITSTRING	4	JOERECCT	TOTAL RECORD COUNT
48	(30)	BITSTRING	4	JOEPGCT	TOTAL PAGE RECORD COUNT
52	(34)	BITSTRING	4	JOEWRECN	NUM OF RECS PROCESSED SO FAR
56	(38)	BITSTRING	4	JOEWPAGN	NUM OF PAGES PROCESSED SO FAR
END OF SECTION THAT MUST BE KEPT TOGETHER					
60	(3C)	SIGNED	4	JOEIOTTR_Z2	JOE IOT track addr (MTTR) z2 mode only (reserved in z11 mode)
64	(40)	BITSTRING	3	JOEDEVID	USER DEVICE IDENTIFICATION
Flag byte JOEFLAGT is used by various processors (HASPFFSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PddbS, hence causing the PddbS to be re-grouped. These flags are currently being set by both \$T0 and \$R command processing.					

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
67	(43)	BITSTRING	1	JOEFLAGT	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in Pddb. See also JOEFLGT2.
		1...		JOEFTMOD	"B'10000000'" JOE overrides Pddb settings or network data set header settings
		.1..		JOEFTFMS	"B'01000000'" FORMS CHANGED
		..1.		JOEFTFCB	"B'00100000'" FCB CHANGED
		...1		JOEFTUCS	"B'00010000'" UCS CHANGED
		.... 1...		JOEFTWRT	"B'00001000'" WRITER CHANGED
		.... .1..		JOEFTFLH	"B'00000100'" FLASH CHANGED
		.... ..1.		JOEFTBRT	"B'00000010'" BURST CHANGED
		.... ...1		JOEFTPRM	"B'00000001'" PRMODE CHANGED
68	(44)	SIGNED	4	JOEROUT(0)	REMOTE ID OF DATA
68	(44)	SIGNED	2	JOERNODE	NODE NUMBER
70	(46)	SIGNED	2	JOEREMOT	REMOTE NUMBER
70	(46)	X'46'	0	JOERUNIT	"JOEREMOT" UNIT ADDRESS
72	(48)	CHARACTER	12	JOEID(0)	JOE IDENTIFICATION BLOCK
72	(48)	CHARACTER	8	JOENAME	JOE'S OUTPUT GROUP NAME
72	(48)	X'4F'	0	JOESGNB1	"JOENAME+7" JOENAME SIGN NIBBLE FOR EBCDIC
80	(50)	SIGNED	2	JOEID1	JOE'S OUTPUT GROUP 1ST ID
82	(52)	SIGNED	2	JOEID2	JOE'S OUTPUT GROUP 2ND ID
84	(54)	SIGNED	4	JOECRTME	JOE CREATION TIME
88	(58)	CHARACTER	8	JOECRUID	Creator userid for Dataset
96	(60)	SIGNED	4	JOEBERTT	Token representing the BERTS for this JOE (In z11 mode)
96	(60)	X'60'	0	JOESWBOT_Z2	"JOEBERTT,4,C'X'" Track address of JOE SWBIT chain for SWBTU overrides (MTTR) z2 mode only
100	(64)	BITSTRING	1	JOEBUSY	JOE busy system id
101	(65)	SIGNED	3	JOEFAMILY	Mother/Daughter Family ID
101	(65)	X'1C'	0	JOEWB7	"JOEFLAG4,*-JOEFLAG4,C'X'" 7th work JOE block
104	(68)	SIGNED	4	JOE1END(0)	END OF WORK-JOE
104	(68)	X'68'	0	JOEWSIZE	"*-JOEWSTRT" Size of Work JOE
CHAR JOE starts here					
104	(68)	X'68'	0	JOECSTRT	"*,0,C'J'" Start of CHAR JOE area
104	(68)	BITSTRING	1	JCETYPE	JOETYPE JOE Type
104	(68)	X'68'	0	JOECB1	"JOECSTRT,*-JOECSTRT,C'X'" 1st CHAR JOE block
105	(69)	ADDRESS	3	JCENEXTI	JOENEXTI Next CHAR-JOE
108	(6C)	BITSTRING	1	JOECR2	Reserved
108	(6C)	X'6C'	0	JOECB2	"JOECR2,*-JOECR2,C'X'" 2nd CHAR JOE block

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOE queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.					
109	(6D)	ADDRESS	3	JCEPREVI	JOEPREVI Previous CHAR-JOE
112	(70)	BITSTRING	1	JCEFLAG5	JOEFLAG5 Common area JOE flag byte
112	(70)	X'70'	0	JOECB3	"JCEFLAG5,*-JCEFLAG5,C'X'" 3rd CHAR JOE block
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	BITSTRING	1	JOECR4	Reserved - Do not use. This allows us to use JOE1ART directly for an art JOE check instead of having to check JOETYPE first.
116	(74)	X'74'	0	JOECB4	"JOECR4,*-JOECR4,C'X'" 4th CHAR JOE block
117	(75)	ADDRESS	3	JOEWKPTI	WORK-JOE with like CHAR-JOE (index)
IF YOU ADD OR DELETE SETUP FIELDS, YOU MUST UPDATE THE EQUATES FOR THE \$D F COMMAND IN HASPCOMM					
120	(78)	CHARACTER	8	JOEFORM	FORMS NAME
128	(80)	CHARACTER	4	JOEFCB	FCB NUMBER
132	(84)	CHARACTER	4	JOEUCS	UCS NUMBER
136	(88)	CHARACTER	8	JOEWTRID	DATA SET EXTERNAL WRITER NAME
144	(90)	CHARACTER	8	JOEUSER	USER ID
152	(98)	CHARACTER	4	JOEFLASH	OVERLAY-FRAME
156	(9C)	CHARACTER	8	JOEPRMD	PROCESS MODE OF THIS JOE
164	(A4)	CHARACTER	8	JOESECLB	Security label for Dataset
172	(AC)	BITSTRING	1	JOEFLAGC	CHARACTERISTICS FLAGS
		1...		JOEFCBRT	"B'10000000'" BURST=YES FLAG
173	(AD)	BITSTRING	1	JOEFLAGD	DEMAND CHARACTERISTIC FLAGS
		1...		JOEFDFMS	"B'10000000'" FORMS DEMAND '0' NO '1' YES
		.1..		JOEFDFLH	"B'01000000'" FLASH DEMAND '0' NO '1' YES
		..1.		JOEFDFCB	"B'00100000'" FCB DEMAND '0' NO '1' YES
		...1		JOEFDUCS	"B'00010000'" UCS DEMAND '0' NO '1' YES
		.... 1...		JOEFDBRT	"B'00001000'" BURST DEMAND '0' NO '1' YES
173	(AD)	X'78'	0	JOESETUP	"JOEFORM,*-JOEFORM" DEVICE SETUP CHARACTERISTICS
174	(AE)	BITSTRING	2		RESERVED FOR FUTURE USE
174	(AE)	X'78'	0	JOECB5	"JOEFORM,*-JOEFORM,C'X'" 5th CHAR JOE block
176	(B0)	SIGNED	4	JOEUSE	# OF JOES USING THIS ELEMENT
180	(B4)	SIGNED	4	JOE2END(0)	END OF CHAR-JOE
180	(B4)	X'4C'	0	JOECSIZE	"*-JOECSTRT" Size of Char JOE
Set length to be 2 times the longer of the WORK or CHAR JOE.					

Table 270. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	BITSTRING	208		Define 2 WORK JOEs length
0	(0)	BITSTRING	152		Define 2 CHAR JOEs length
208	(D0)	X'68'	0	JOESIZE	"(*-JOE)/2" Size of CKPTed JOE area
JOE extension (JOX) The following fields appear only within an artificial JOE. Artificial JOEs are constructed using the \$DOGJOE service.					
208	(D0)	SIGNED	4	JOX(0)	Start of JOE extension
208	(D0)	BITSTRING	6	JOXSWBOT	Track address of JOE SWBIT chain for SWBTU overrides (MQTR)
214	(D6)	BITSTRING	6	JOXCPADR	CKPT SP00L record addr
220	(DC)	BITSTRING	6	JOXIOTTR	JOE IOT track addr
226	(E2)	BITSTRING	1	JOXFLAG1	JOX Flags
		1...		JOXTRNCK	"B'10000000'" This JOE has been checked for transaction data since last z2 to z11 activation.
226	(E2)	X'D0'	0	JOXSB1	"JOX,*-JOX,C'X'" 1st work JOX block
227	(E3)	BITSTRING	1		Reserved
228	(E4)	ADDRESS	3	JOXPRVWR	Index of prev JOE in primary node JOE-chain
231	(E7)	ADDRESS	3	JOXNXTWR	Index of next JOE in primary node JOE-chain
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4		Reserved
240	(F0)	SIGNED	4	JOE3END(0)	End of JOX area
240	(F0)	X'20'	0	JOXSIZE	"*-JOX" Size of the JOX
Local JOE fields (never written to the checkpoint)					
240	(F0)	ADDRESS	4	JOELCHAN	JOA chain pointer
244	(F4)	SIGNED	2	JOEDLEN	Length of JOA
246	(F6)	SIGNED	2		Reserved
JOE fields backed by BERTs (only valid in z11 mode) Fields in this section are associated with work JOEs and are filled in by the \$DOGJOE/\$DOGBERT services.					
248	(F8)	SIGNED	4	JOEBERTS(0)	Start of BERT JOE area
248	(F8)	CHARACTER	8	JBETRJB N	Transaction job name
256	(100)	CHARACTER	8	JBETRWKI	Transaction work unit id
264	(108)	CHARACTER	8	JBETROWN	Transaction owner userid
264	(108)	X'F8'	0	JBETRANS	"JBETRJB N,*-JBETRJB N" Section definition field
JBESAPI is supplied by SAPI support when a JOE is selected by a SAPI application.					
272	(110)	CHARACTER	8	JBEANAME	SAPI application job name
280	(118)	CHARACTER	8	JBEAPPL	SAPI application name
280	(118)	X'110'	0	JBESAPI	"JBEANAME,*-JBEANAME" SAPI section
280	(118)	X'28'	0	JBEMAINL	"*-JOEBERTS" Length of BERT section
280	(118)	X'120'	0	JOASIZE	"*-JOA" Length of artificial JOE

Table 271. Structure JOEINDX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOEINDX	Index JOE
0	(0)	BITSTRING	1	JIETYPE	See JOE type
1	(1)	ADDRESS	3	JIENTXTI	Next Index-JOE (JOE index)
4	(4)	SIGNED	4	JIEPRSTR(0)	Primary node start
4	(4)	X'4'	0	JIEHDRSZ	"*-JOEINDX" Index JOE header size
4	(4)	BITSTRING	1	JIVIEWS	Index JOE area housing indexing mechanisms.

Table 272. Structure PRIMARYN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRIMARYN	Primary node definition
0	(0)	SIGNED	4	PRILEFT	Offset left subtree node
4	(4)	SIGNED	4	PRIRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	PRIBALF	Balance factor
9	(9)	BITSTRING	1	PRIFLAG	Flag
10	(A)	BITSTRING	3		Alignment/reserved
13	(D)	ADDRESS	3	PRICHAIN	JOE Chain - Index of first work JOE
Following is the JOE-chain time stamp field. This field has three different possible value: -- If JOE-chain not empty then this is time of last work JOE add. -- If JOE-chain empty and time not zero then this is time of last work JOE remove.					
16	(10)	SIGNED	4	PRITSTMP	JOE-chain time stamp field
16	(10)	X'14'	0	PRIMFIX	"*-PRILEFT" Length of primary node fixed portion
Primary key located in index JOE. Configuration is kept in JAX and should only be referenced through JAX. Here for useful information purposes.					
20	(14)	BITSTRING	1	PRIMKEY(0)	Primary key
20	(14)	BITSTRING	1	PRICLASS	JOE sysout class
21	(15)	BITSTRING	12	PRIDEST	JOE destination
33	(21)	BITSTRING	1	PRIDISP	JOE disposition

Table 273. Structure ALTNODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALTNODE	Alternate node definition
0	(0)	SIGNED	4	ALTLEFT	Offset left subtree node
4	(4)	SIGNED	4	ALTRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	ALTBALF	Balance factor
Chain of index JOEs with some portion of primary key satisfying this alternate node. This is not a circular chain - the anchor alternate node is the head and its previous JOE index is always zeroes.					
9	(9)	ADDRESS	3	ALTPRVIN	Previous index JOE - index
12	(C)	ADDRESS	3	ALTNXTIN	Next index JOE - index
15	(F)	BITSTRING	1	ALTFLAG	Implementation specific flags

Table 273. Structure ALTNODE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ALTMAS	"B'10000000'" This is anchor alternate node - denotes THIS node is in actual AVL tree and will not be deleted unless entire tree is rebuilt. This node's - JOE index chain is the head.
		.1...		ALTOVERF	"B'01000000'" Number index JOEs chained to anchor currently will overflow JOE priority array located within the JOX.
		..1.		ALIINJOX	"B'00100000'" Alternate node resides in index JOE -> JOX
15	(F) X'10'		0	ALNODESZ	"*-ALTNODE" Alternate node size

Table 274. Structure JOECNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOECNT	, JOE count array
0	(0)	CHARACTER	8	JOECNM1	JOE type 1 (work)
8	(8)	SIGNED	4	JOECNR1	Number of JOEs of this type
8	(8)	X'C'	0	JOECLEN	"*-JOECNT" Size of one entry
12	(C)	CHARACTER	8	JOECNM2	JOE type 2 (char)
20	(14)	SIGNED	4	JOECNR2	Number of JOEs of this type
24	(18)	CHARACTER	8	JOECNM3	JOE type 3 (index)
32	(20)	SIGNED	4	JOECNR3	Number of JOEs of this type
36	(24)	CHARACTER	8	JOECNM4	JOE type 4 (free)
44	(2C)	SIGNED	4	JOECNR4	Number of JOEs of this type
48	(30)	CHARACTER	8	JOECNM5	JOE type 5 (invalid)
56	(38)	SIGNED	4	JOECNR5	Number of JOEs of this type
56	(38)	X'3C'	0	JOECARSZ	"*-JOECNT" Size of a full array

Table 275. Cross Reference for \$JOE

Name	Offset	Hex Tag
ALIINJOX	F	20
ALNODESZ	F	10
ALTBALF	8	
ALTFLAG	F	
ALTLEFT	0	
ALTMAS	F	80
ALTNODE	0	
ALTNXTIN	C	
ALTOVERF	F	40
ALTPRVIN	9	
ALTRIGHT	4	
JBEANAME	110	
JBEAPPL	118	
JBEMAINL	118	28

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
JBESAPI	118	110
JBETRANS	108	F8
JBETRJBN	F8	
JBETROWN	108	
JBETRWKI	100	
JCEFLAG5	70	
JCENEXTI	69	
JCEPREVI	6D	
JCETYPE	68	
JIEHRSZ	4	4
JIENEXTI	1	
JIEPRSTR	4	
JIETYPE	0	
JIVIEWS	4	
JOA	0	0
JOASIZE	118	120
JOE	0	
JOE#BRTS	9	
JOEBERTS	F8	
JOEBERTT	60	
JOEBUSY	64	
JOECARSZ	38	3C
JOECB1	68	68
JOECB2	6C	6C
JOECB3	70	70
JOECB4	74	74
JOECB5	AE	78
JOECHARI	15	
JOECHARJ	0	40
JOECHNXI	19	
JOECLEN	8	C
JOECNM1	0	
JOECNM2	C	
JOECNM3	18	
JOECNM4	24	
JOECNM5	30	
JOECNR1	8	
JOECNR2	14	
JOECNR3	20	

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
JOECNR4	2C	
JOECNR5	38	
JOECNT	0	
JOECPADR_Z2	28	
JOECRTME	54	
JOECRUID	58	
JOECR2	6C	
JOECR4	74	
JOECSIZE	B4	4C
JOECSTRT	68	68
JOECURCL	4	
JOEDEVID	40	
JOEDLEN	F4	
JOEFAMLY	65	
JOEFCB	80	
JOEFCBRT	AC	80
JOEFDBRT	AD	8
JOEFDFCB	AD	20
JOEFDFLH	AD	40
JOEFDFMS	AD	80
JOEFDUCS	AD	10
JOEFLAGC	AC	
JOEFLAGD	AD	
JOEFLAGT	43	
JOEFLAG1	C	
JOEFLAG2	10	
JOEFLAG3	14	
JOEFLAG4	1C	
JOEFLAG5	8	
JOEFLASH	98	
JOEFLGT2	1D	
JOEFORM	78	
JOEFREE	0	C0
JOEFSID	20	22
JOEFSID	20	
JOEFSSID	20	20
JOEFTBRT	43	2
JOEFTFCB	43	20
JOEFTFLH	43	4

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
JOEFTFMS	43	40
JOEFTMOD	43	80
JOEFTPRM	43	1
JOEFTUCS	43	10
JOEFTWRT	43	8
JOEHOLD	1E	
JOEHSRSN	1F	
JOEID	48	
JOEID1	50	
JOEID2	52	
JOEINDEX	0	20
JOEINDX	0	
JOEIOTTR_Z2	3C	
JOEJNEWL	26	
JOEJQEI	D	
JOELCHAN	F0	
JOENAME	48	
JOENETCH	20	20
JOENEXTI	1	
JOENXJQI	11	
JOEOFFSL	18	
JOEPGCT	30	
JOEPREVI	5	
JOEPRIO	24	
JOEPRMD	9C	
JOERECCT	2C	
JOEREMOT	46	
JOERNODE	44	
JOEROUT	44	
JOERUNIT	46	46
JOESECLB	A4	
JOESETUP	AD	78
JOESGNB1	48	4F
JOESIZE	D0	68
JOESWBOT_Z2	60	60
JOETPS0A	1D	10
JOETPS0C	1D	20
JOETPS0D	1D	8
JOETYPE	0	

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
JOEUCS	84	
JOEUSE	B0	
JOEUSER	90	
JOEVRSN	0	8
JOEWB1	0	0
JOEWB2	4	4
JOEWB3	8	8
JOEWB4	10	C
JOEWB5	14	14
JOEWB6	18	18
JOEWB7	65	1C
JOEWKPTI	75	
JOEWORK	0	80
JOEWPAGN	38	
JOEWRECN	34	
JOEWSIZE	68	68
JOEWSTRT	0	0
JOEWTRID	88	
JOE1ART	C	1
JOE1CJES	C	8
JOE1CKV	C	80
JOE1CPDS	C	4
JOE1CTKN	C	2
JOE1END	68	
JOE1PRT	C	20
JOE1PUN	C	10
JOE1SPIN	C	40
JOE2CLNE	10	10
JOE2DMND	10	40
JOE2END	B4	
JOE2IPAD	10	4
JOE2NUNK	10	2
JOE2SYSN	10	20
JOE2TCEL	10	80
JOE2TUSE	1D	40
JOE2UNSP	10	1
JOE2UPRI	10	8
JOE3CPER	14	80
JOE3END	F0	

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
JOE3IOTV	14	40
JOE3NWTG	14	20
JOE3TODA	14	1F
JOE3TODH	14	4
JOE3TODK	14	2
JOE3TODL	14	1
JOE3TODP	14	10
JOE3TODW	14	8
JOE4CRTM	1C	40
JOE4DAUG	1C	20
JOE4DSCT	1C	10
JOE4DSID	1C	4
JOE4JNEW	1C	80
JOE4NPSO	1C	2
JOE4PRIO	1C	8
JOE4PRST	1C	1
JOE5ESSM	8	4
JOE5RBLD	8	1
JOE5ZAP	8	2
JOX	D0	
JOXCPADR	D6	
JOXFLAG1	E2	
JOXIOTTR	DC	
JOXNXTWR	E7	
JOXPRVWR	E4	
JOXSB1	E2	D0
JOXSIZE	F0	20
JOXSWBOT	D0	
JOXTRNCK	E2	80
PRIBALF	8	
PRICHAIN	D	
PRICLASS	14	
PRIDEST	15	
PRIDISP	21	
PRIFLAG	9	
PRILEFT	0	
PRIMARYN	0	
PRIMFIX	10	14
PRIMKEY	14	

Table 275. Cross Reference for \$JOE (continued)

Name	Offset	Hex Tag
PRIRIGHT	4	
PRITSTMP	10	

\$JOEIWRK information

\$JOEIWRK heading information

Common name:	JES2 JOEI (JOEINDEX Service) Processor
Macro ID:	\$JOEIWRK
DSECT name:	PCE (\$JOEIWRK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol JOIPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$JOEIPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the JOEI PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 JOEINDEX processor and by its support routine/exits. \$JOEIWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JOEIWRK are actually part of PCE DSECT, but only map PCEs with the value PCEJOIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$JOEIWRK mapping

Table 276. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	12	JOEICTQE	HASP Timer Queue Element

Table 276. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
348	(15C)	BITSTRING	1	JOEIFLAG	JOEIWKR flag
		1... ..		JOEIACTV	"B'10000000'" Timer Active
349	(15D)	BITSTRING	3		Alignment
352	(160)	SIGNED	4		Reserved for future use
360	(168)	DBL WORD	8	(0)	Alignment
360	(168)	X'18'	0	JOIPCEWL	"*-PCEWORK" Length of JOEI PCE

\$JOT information

\$JOT programming interface information

\$JOT is a programming interface.

\$JOT heading information

Common name:	Job Output Table
Macro ID:	\$JOT
DSECT name:	JOT
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'JOT ' Offset: JOTID-JOT Length: 4
Storage attributes:	Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy. Key: 1 Residency: The JOT is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.
Size:	See JOESIZE.
Created by:	JES2 Initialization allocates memory for the JOT. The checkpoint versions subtask creates the dataspace copies.
Pointed to by:	\$JOTABLE field of the \$HCT data area
Serialization:	The JES2 checkpoint (\$QSUSE) for change. The copy of the JOT in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since it could be changing, it may be page-released or it may be all zeros
Function:	The JOT control block contains the headers to all the job output queues and contains all the Job Output Elements (JOEs). See \$JOE for more information on JOEs.

\$JOT mapping

Table 277. Structure JOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOT	JOB OUTPUT TABLE DSECT
0	(0)	CHARACTER	4	JOTID	JOB OUTPUT TABLE ID
4	(4)	SIGNED	4	JOTFREC	COUNT OF FREE JOES
8	(8)	ADDRESS	2	JOTCLMU	CLASS MULTIPLIER
10	(A)	SIGNED	2		RESERVED FOR FUTURE USE
12	(C)	ADDRESS	4	JOTCLSEN	SIZE OF CLASS QUEUE ENTRY
16	(10)	ADDRESS	4	JOTUSER1	USER FIELD ONE
20	(14)	ADDRESS	4	JOTUSER2	USER FIELD TWO
24	(18)	ADDRESS	4	JOTUSER3	USER FIELD THREE
28	(1C)	ADDRESS	4	JOTUSER4	USER FIELD FOUR
Queue head fields contain index of the first JOE in a respective queue.					
32	(20)	ADDRESS	4	JOTQHEAD(0)	Beginning of JOE q heads
32	(20)	ADDRESS	4	JOTFREQI	Queue of free JOEs
36	(24)	ADDRESS	4	JOTCHRQI	Queue of CHAR-JOEs
40	(28)	ADDRESS	4	JOTPRGQI	Queue of purge JOEs
HOLD QUEUE - AVAILABLE FOR ANY OFFLOAD DEVICES					
44	(2C)	ADDRESS	4	JOTHLDQI	Queue of hold JOEs
READY QUEUE - AVAILABLE FOR ANY PROCESSOR THAT IS ELIGIBLE TO SELECT JOES					
48	(30)	BITSTRING	0	JOTRDWQI(0)	Ready work JOE queues
48	(30)	ADDRESS	4	JOTNTWQI	Queue of network JOEs
52	(34)	ADDRESS	4	JOTCLSQI(0)	Queue of class WORK-JOEs
52	(34)	ADDRESS	4	(0)	OFFSET QUEUE OF CLASS WORK-JOES BY LOCAL AND NON-LOCAL DEST (QUEUE HEADS)
52	(34)	X'6D'	0	JOTNUMWQ	"(1+3*36)" NUMBER OF READY WORK QUEUE
52	(34)	X'1B0'	0	JOTCLSSZ	"(*-JOTCLSQI)" Size of class queue heads
52	(34)	X'4'	0	JOTHEADL	"4" LENGTH OF A CLASS QUEUE HEAD
52	(34)	X'8'	0	JOTPRHDL	"2*JOTHEADL" LENGTH OF PAIR OF CLASS Q HEADS
52	(34)	X'0'	0	JOTLQOFF	"0" OFFSET OF LCL Q FROM CLS
52	(34)	X'4'	0	JOTUQOFF	"JOTHEADL" OFFSET OF USER Q FROM CLS
52	(34)	X'8'	0	JOTRQOFF	"2*JOTHEADL" OFFSET OF REM Q FROM CLASS
52	(34)	X'C'	0	JOTTHEDL	"3*JOTHEADL" TOTAL LENGTH OF CLS Q HDS
484	(1E4)	ADDRESS	4	JOTRBLQI	JOE rebuild queue header
484	(1E4)	X'1C8'	0	JOTQUEL	"*-JOTQHEAD" Length of all JOE q headers
488	(1E8)	ADDRESS	4	JOTINEXQ	Queue of index JOEs. A JOE index
492	(1EC)	SIGNED	4		Reserved for future use

Table 277. Structure JOT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Ensure JOT header size is exact multiple of JOE size. There cannot be anything between the next DC and JOTJOES.					
496	(1F0)	BITSTRING	1	(0)	
520	(208)	SIGNED	4	JOTJOES(0)	START OF JOB OUTPUT ELEMENTS
520	(208)	X'208'	0	JOTJOESO	"*-JOT" Offset of first real JOE
520	(208)	X'5'	0	JOTJOESI	"(*-JOT)/JOESIZE" Index of first real JOE
520	(208)	X'2625A0'	0	JOTMXJOE	"2500000" Maximum number of JOEs
520	(208)	X'4C48'	0	JOTFRJIX	"((JOTMXJOE+JOTJOESI)/x'200')*4" Local free JOE array size (see FREEJOE in HASPJ0S for info)

Table 278. Cross Reference for \$JOT

Name	Offset	Hex Tag
JOT	0	
JOTCHRQI	24	
JOTCLMU	8	
JOTCLSEN	C	
JOTCLSQI	34	
JOTCLSSZ	34	1B0
JOTFREC	4	
JOTFREQI	20	
JOTFRJIX	208	4C48
JOTHEADL	34	4
JOTHLDQI	2C	
JOTID	0	
JOTINEXQ	1E8	
JOTJOES	208	
JOTJOESI	208	5
JOTJOESO	208	208
JOTLQOFF	34	0
JOTMXJOE	208	2625A0
JOTNTWQI	30	
JOTNUMWQ	34	6D
JOTPRGQI	28	
JOTPRHDL	34	8
JOTQHEAD	20	
JOTQUEL	1E4	1C8
JOTRBLQI	1E4	
JOTRDWQI	30	
JOTRQOFF	34	8

Table 278. Cross Reference for \$JOT (continued)

Name	Offset	Hex Tag
JOTTHEDL	34	C
JOTUQOFF	34	4
JOTUSER1	10	
JOTUSER2	14	
JOTUSER3	18	
JOTUSER4	1C	

\$JPAWORK information

\$JPAWORK heading information

Common name:	JES2 Job Priority Aging PCE Work Area
Macro ID:	\$JPAWORK
DSECT name:	PCE (\$JPAWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol JPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$PRTYPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 Job Priority Aging Processor and by its support routines and exits. \$JPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$JPAWORK mapping

Table 279. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	12	JPATQE	HASP Timer Queue Element
348	(15C)	SIGNED	4		Reserved for future use
352	(160)	DBL WORD	8	(0)	Force double-word alignment
352	(160)	X'10'	0	JPAPCEWS	"*-PCEWORK" Length of work area

\$JQE information

\$JQE programming interface information

\$JQE is a programming interface.

\$JQE heading information

Common name:	JES2 Job Queue Element
Macro ID:	\$JQE
DSECT name:	JQE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	The pool of JQEs is preceded by an eyecatcher '**JQE POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage attributes:	Subpool: 0, 231, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.
Size:	JQELEN (base length) + 4*((SPOLNUM+31)/32) (size of the SPOOLS used mask which is dependent on the number of SPOOL volumes; 4 bytes for every 32 spool volumes) \$JQELEN in the \$HCT data area is the total length.
Created by:	Storage is obtained by HASPIRDA for the JES2 private version and by HASPCKVR for the data space versions. The control block is filled in by the \$QADD service.

Pointed to by:

The following fields contain offsets (R4 level of the checkpoint) or indexes (z/OS 1.2 and later levels of the checkpoint) to \$JQEs from the address in field \$JOBQPTR in the \$HCT data area. The offsets are converted to addresses by adding the value in \$JOBQPTR to the offset. The indexes are converted to addresses by multiplying by \$JQELEN and then adding the value in \$JOBQPTR to the calculated offset.

CATQHDI field of the \$CAT data area
 \$JQFREEI field of the \$HCT data area
 \$JQHEADI field of the \$HCT data area
 \$JQRBLDI field of the \$HCT data area
 JOEJQEI field of the \$JOE data area
 JQENEXTI field of the \$JQE data area

 The following fields contain offsets to \$JQEs:

\$NEWSJQE field of the \$HCT data area
 \$SCQJQE field of the \$HCT data area
 IOTJQOFF field of the \$IOT data area
 JCTJQE field of the \$JCT data area
 PITJQOFF field of the \$PIT data area
 PSOJQEP field of the \$PSO data area
 QSEPRGJQ field of the \$QSE data area
 RATRMJQE field of the \$RAT data area
 SJBjqOFF field of the \$SJB data area
 TGBJQE field of the \$TGB data area

 The following fields contain addresses of \$JQEs:

\$JOBQPTR field of the \$HCT data area
 PCEJQE field of the \$PCE data area

 Various fields in the processor work areas and parameter lists contain offsets or addresses of JQEs.

Serialization:

The JES2 Checkpoint data set lock (\$QSUSE), the job lock (in the JQE), and JQE1BUSY bits are used for serialization. JQEs are managed by the \$DOGJQE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to a JQE. With the exception of a few bits, you must obtain an update mode JQA before making any updates to a JQE. There are some fields that are managed by the \$DOGJQE service and can be set without the BERT lock for the job. The fields/bits and restrictions are:

JQE8NJIX Set/reset in JQE or JQA
 JQE8RBLD Set/reset in JQE or JQA
 JQE8NOQ Set/reset in JQE or JQA
 JQE1PURG Set in JQE or JQA, cannot turn off
 JQE1OCAN Set in JQE or JQA, cannot turn off
 JQE4CAN Set in JQE or JQA, cannot turn off
 JQX1WLM Set/reset in real JQX only
 JQX3JGCM Set in real JQX or JQA, cannot turn off
 JQX3RJGR Set/reset in real JQX only

Function:

The job queue element is a control block that represents an element of work for the system (a job) and is moved from queue to queue as that work moves through each successive stage of JES2 processing. The heads of the JES2 queues reside at \$JQHEAD1 in the HCT. These queue heads are used when locating JQEs on a specific queue.

The JQEs are checkpointed control blocks. There are, therefore, at least two copies of each JQE in storage (the actual and I/O copies of the ckpt, in subpool 0). There may also 1 or more copies in the ckpt versions dataspace.

\$JQE mapping

Table 280. Structure JQE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JQE	HASP JOB QUEUE ENTRY DSECT
0	(0)	X'0'	0	JQA	"JQE,0,C'J'" JQE is sometimes a JQA
0	(0)	X'8'	0	JQEVRSN	"8" JQE control block version
0	(0)	X'0'	0	JQEBB1	"*" Begin of move block 1
0	(0)	SIGNED	1	JQEPRIO	JOB PRIORITY
1	(1)	BITSTRING	1	JQETYPE	LOGICAL QUEUE TYPE
<p>IF THE \$XEQ BIT IS ON THEN THE JOB CAN BE IN OR AWAITING CONVERSION OR EXECUTION. THE JOB IS IN OR AWAITING CONVERSION IF THE \$XEQ BIT IS ON AND THERE IS NO JOB CLASS DEFINED IN THE LOW ORDER SIX BITS. THE JOB IS AWAITING XEQ IF THERE IS A JOB CLASS DEFINED AND THE JOB IS NOT BUSY. IF THE JOB IS BUSY AND A CLASS IS DEFINED THEN THE JOB IS BUSY IN EXECUTION.</p> <p>If a new JQETYPE flag is added, then the \$QJQE macro and \$QINDEX must be updated for the queue type</p> <p>If the job is executing in an 8 character job class (\$XEQ8CHR), \$QINDEX is never used or updated and JQXJCLAS must be used as the actual class value.</p>					
	.111	1111		\$XEQCLAS	"X'7F'" CLASS OF JOB QUEUED FOR EXECUTION
	1...	....		\$SPIN	"X'80'" SPIN QUEUE
	.1..	....		\$XEQ	"X'40'" EXECUTION/CONVERSION QUEUE: - If low order six bits are zero, job is on the conversion queue. - If NOT \$XEQ8CHR, the low order six bits define the job class and can be indexed into \$QINDEX. - If \$XEQ8CHR, JQXJCLAS must be used for the job class value and \$QINDEX cannot be used.
	..1.	....		\$INPUT	"X'20'" INPUT QUEUE
	...1	....		\$XMIT	"X'10'" TRANSMISSION QUEUE
	....	1...		\$SETUP	"X'08'" SETUP QUEUE
	....	.1..		\$RECEIVE	"X'04'" SYSOUT RECEIVER QUEUE
	....	..1.		\$OUTPUT	"X'02'" OUTPUT QUEUE
	....	...1		\$HARDCPY	"X'01'" OUTPUT IN-PROGRESS QUEUE
	....	....		\$PURGE	"X'00'" PURGE QUEUE
	1111	1111		\$FREE	"X'FF'" FREE QUEUE
1	(1)	X'41'	0	\$XEQJOB1	"C'A'-(FF-\$XEQCLAS)" OFFSET TO FIRST \$QINDEX ENTRY FOR JOB XEQ CLASS QUEUES (JQETYPE)

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.1		\$XEQSTC	"X'D0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR STC XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATSTCCL, CATSTCID)
		.11.		\$XEQTSU	"X'E0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR TSU XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATTSUCL, CATTSUID)
		.11. 1.1.		\$XEQ8CHR	"X'EA'-(FF-\$XEQCLAS)" The job is running in an 8 char execution class. NOTES:- 8 Char job classes do NOT interact with \$QINDEX! - Must use JQXJCLAS as the class value
1	(1)	X'79'	0	\$XEQJOBL	"C'9'-(FF-\$XEQCLAS)" Offset to Last \$QINDEX entry for job XEQ class queues (JQETYPE)
2	(2)	BITSTRING	1	JQENENF	Id of member doing ENF78 or NOTIFY processing (if JQENENF is not 0, job cannot be purged)
3	(3)	BITSTRING	1	JQEFLAGB	FLAG BYTE
		1...		JQEBRLST	"B'10000000'" Job is a dependent job in a SCHEDULE AFTER= release list (also see JQARELHD/JQARELNX).
		.1..		JQEBRLHD	"B'01000000'" Job is parent (head) job of a SCHEDULE AFTER= release list (also see JQARELHD/JQARELNX).
		..1.		JQEBRGR	"B'00100000'" Job has associated rsrc group in JQARGRNM
		...1		JQEBJCNL	"B'00010000'" JES \$C command restricted
		.... 1...		JQEBRLIM	"B'00001000'" Resource limit impact
		.... .1..		JQEBRLMT	"B'00000100'" Target of RAISE_LIMITS
		.... ..1.		JQEBDPJB	"B'00000010'" Job completed DUPJOB check in conversion
4	(4)	BITSTRING	1	JQEFLAG1	JOB QUEUE FLAGS
		1...		JQE1HLDA	"B'10000000'" HOLD ALL JOBS
		.1..		JQE1HLD1	"B'01000000'" HOLD SINGLE JOB
		..1.		JQE1HUNT	"B'00100000'" Hold for HOLDUNTIL
		...1		JQE1HLDT	"B'00010000'" Pseudo flag indicating a job whose JQXDUP field is non-zero (not in CKPT- only used by prescan exit to display job status)
		...1		JQE1PURG	"B'00010000'" JOB IS TO BE PURGED
		.... 1...		JQE1OCAN	"B'00001000'" OPERATOR ISSUED \$C OR \$P JOB
		.... .1..		JQE1ARMR	"B'00000100'" The Automatic Restart Manager has registered the job. Hold it (JQE1ARMH) when it ends execution.
		.... ..1.		JQE1ARMH	"B'00000010'" The job is held awaiting a restart decision by the Automatic Restart Manager
		.... ...1		JQE1ARME	"B'00000001'" \$E the job if ARM does not restart it
4	(4)	X'4'	0	JQEEB1	"*-1" End of first move block
4	(4)	X'0'	0	JQESB1	"JQEEB1,JQEEB1-JQEEB1+1,C'X'" Size of 1st block
5	(5)	ADDRESS	3	JQENEXTI	Next JQE index
5	(5)	X'8'	0	JQEBB2	"*" Begin of 2nd move block

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	1	JQEFLAG2	MORE JOB QUEUE FLAGS
		1...		JQE2IND	"B'10000000'" JOB HAS INDEPENDENT MODE AFFINITY
		.1..		JQE2REST	"B'01000000'" JOB has been restarted
		..1.		JQE2STAR	"B'00100000'" JOB to be started by \$S J
		...1		JQE2PEOM	"B'00010000'" JOB pending EOM subtask
		.... 1...		JQE2UNTL	"B'00001000'" HOLDUNTL specified (see JQAUNTL)
		.... .1..		JQE2STBY	"B'00000100'" STARTBY specified (see JQASTBY)
		.... ..1.		JQE2ZAP	"B'00000010'" JQE zapped (ZAPJOB)
		.... ...1		JQE2ART	"B'00000001'" This is artificial JQE
8	(8)	X'8'	0	JQEEB2	"*-1" End of 2nd move block
8	(8)	X'8'	0	JQESB2	"JQEBB2,JQEEB2-JQEBB2+1,C'X'" Size of 2nd block
9	(9)	ADDRESS	3	JQEJOEI	First WORK-JOE for this JQE (index)
9	(9)	X'C'	0	JQEBB3	"*" Begin of 3rd move block
12	(C)	BITSTRING	1	JQEFLAG3	SOME MORE JOB QUEUE FLAGS
		.... ..11		JQE3JOB	"B'00000011'" BATCH JOB TYPE (WHEN BITS ZERO)
		.... ...1		JQE3STC	"B'00000001'" STC JOB TYPE
		.... ..1.		JQE3TSU	"B'00000010'" TSU JOB TYPE
		.... .1..		JQE3XMIT	"B'00000100'" JOB DESTINED FOR ANOTHER NODE XMIT OR INTERMEDIATE NODE JOB
		.... 1...		JQE3TMOD	"B'00001000'" JOB IS BEING PROCESSED BY \$TO OR \$R
		1...		JQE3MVRQ	"B'10000000'" MOVE JOB FOR SPOOL COMMANDS
		.1..		JQE3UNSP	"B'01000000'" JOB HAS UNSPUN SPIN IOTS
		..1.		JQE3DFJG	"B'00100000'" Job represents a JOBGROUP that is being defined
		...1		JQE3SYSD	"B'00010000'" JQE represents system data set, implies JQETRAK JQYTRAK points to IOT
13	(D)	CHARACTER	1	JQEJCLAS	JOB CLASS
14	(E)	BITSTRING	1	JQEFLAGA	FLAG BYTE
		1...		JQEAFLSH	"B'10000000'" Job has been flushed
		..1.		JQEANDMP	"B'00100000'" Non-selectable by DUMPER
		...1		JQEADLY	"B'00010000'" Job is delayed due to a dynamic dependency (SCHEDULE DELAY=YES and/or SCHEDULE AFTER= was specified).
		.... 1...		JQEANET	"B'00001000'" Job is involved in a / NET dependency network.
		.... .1..		JQEADUBY	"B'00000100'" Dubious NJE job
		.... ..1.		JQEAESSM	"B'00000010'" Job submitted via emergency subsystem
		.... ...1		JQEAXARV	"B'00000001'" Job has entered into Post-Execution State

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
JQEZGLM is an id of a member performing logging for this jobgroup. This field is only valid when JQE3DFJG is set. JQEZGLM = FF means that logging for this jobgroup failed. If JQEZGLM is not 0 or FF, JQE cannot be purged.					
15	(F)	BITSTRING	1	JQEZGLM	Logging member id
16	(10)	BITSTRING	4	JQEBJKEY	JOB IDENTIFIER KEY
20	(14)	BITSTRING	4	JQETRAK_Z22	Track MTTR of JCT or IOT if JQE3SYSD is on (Z22 mode)
24	(18)	SIGNED	2	JQEINPND	INPUT NODE (BINARY)
26	(1A)	SIGNED	2	JQEXEQND	EXECUTION NODE (BINARY)
28	(1C)	SIGNED	4	(0)	FORCE ALIGNMENT
28	(1C)	BITSTRING	1	JQEFLAG4	More job queue flags
		1...		JQE4CAN	"B'10000000" FORCE SELECT WHEN VOL INACTIVE
		.1..		JQE4NEWS	"B'01000000" JOB IS JES2NEWS.
		..1.		JQE4SPHA	"B'00100000" SPOF HOLD ALL JOBS REQUIRED AFTER AUTH CHECK IN CNVT PROCESSOR
		...1		JQE4SPOF	"B'00010000" JQE HELD BY SYSOUT RECEIVER OR JOB RECEIVER
		.... 1...		JQE4MOLD	"B'00001000" OLD (ORIGINAL) JOB FOR SPL MOVE
		.... .1..		JQE4MNEW	"B'00000100" NEWLY CREATED JOB FROM SPL MOVE
		.... ..1.		JQE4TWOJ	"B'00000010" TWO JOBCARDS FOR JOB XMIT
		.... ...1		JQE4JCLH	"B'00000001" TYPRUN=JCLHOLD, HOLD REQUIRED AFTER AUTH CHK IN CNVT PROCESSOR
29	(1D)	ADDRESS	3	JQEDEVID	Device Identify (DCTDEVID)
32	(20)	BITSTRING	1	JQEARMMI	Member ID on which a job is registered by ARM
33	(21)	BITSTRING	1	JQERESVD	Formerly JQEWSLCK
34	(22)	BITSTRING	1	JQEBUSY	JQE busy system id
35	(23)	BITSTRING	1	JQEJLOK	Job lock busy system id
36	(24)	CHARACTER	8	JQEJNAME	JOB NAME FROM JOB CARD
44	(2C)	CHARACTER	8	JQEUSRID	USERID OF JOB OWNER
52	(34)	CHARACTER	8	JQESECLB	SECURITY LABEL OF JOB
JQEJOEID is the current JOE identifier used when building JOEs for this job unless this is JESNEWS. For an active JESNEWS job this is the count of active users of this instance of JESNEWS					
60	(3C)	SIGNED	4	JQENWUSE(0)	News use count
60	(3C)	SIGNED	4	JQEJOEID	Current JOE id number (unless this is JESNEWS)
64	(40)	BITSTRING	1	JQEFLAG5	FLAG BYTE
		1...		JQE5XUSD	"B'10000000" USING EXTENSION FOR TG COUNT
		.1..		JQE5NSL	"B'01000000" JOB REJECTED BY SELECTIVE LOAD

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		JQE5NUNK	"B'00100000'" Job tkn is NJE unknwn user
		...1		JQE5NOTF	"B'00010000'" NOTIFY PROCESSING COMPLETE
		.... 1...		JQE5EOM	"B'00001000'" Job terminated at end of memory
		.... .1..		JQE5RUNS	"B'00000100'" Job has new unspun work
		.... ..1.		JQE5PUPS	"B'00000010'" Job may have unprocessed spin output (Flag only valid before unspun processing starts)
		.... ...1		JQE5INPL	"B'00000001'" Job went through input processing on local node
65	(41)	BITSTRING	1	JQE0FFSL	OFFLOAD SELECT BYTE
<p>The total number of trackgroups allocated to a given JQE is in two pieces. One piece is in the JQX (JQXTGWRP) and the other piece is in the JQE (if JQE5XUSD is off) or in the JQT (if JQE5XUSD is on.) The one byte value in the JQX is the number of multiples of X'8000' trackgroups that the JQE owns. The value in the second piece is the number of trackgroups owned above the multiple of X'8000'. If JQE5XUSD is on, then JQETGNBR is the index of the JQT entry which holds the two byte value.</p>					
66	(42)	SIGNED	2	JQETGNBR	See above
68	(44)	BITSTRING	1	JQEFLAG6	FLAG BYTE
EQU B'10000000' Obsolete (JQE6DUPC in					
		.1..		JQE6PRG	"B'01000000'" Purge auditing required
		..1.		JQE6TGAE	"B'00100000'" TG counter has overflowed
B'00010000' This bit used in 5.1 (cannot use in 5.2)					
		.... 1...		JQE6HOPR	"B'00001000'" Reset NJE hop count when retransmitting job
		.... .1..		JQE6PRT	"B'00000100'" Priority change by \$T
		.... ..1.		JQE6PRAG	"B'00000010'" Priority change by aging
		.... ...1		JQE6NCSA	"B'00000001'" Job has no more CSA IOTs (only valid after job has completed execution)
69	(45)	BITSTRING	1	JQEFLAG7	FLAG BYTE
		1...		JQE7PROT	"B'10000000'" Job's output is protected
		.1..		JQE7TP	"B'01000000'" Transaction initiator
		..1.		JQE7INIT	"B'00100000'" Batch initiator
		...1		JQE7IOTE	"B'00010000'" IOT error
		.... 1...		JQE7SPIN	"B'00001000'" Spin IOTs outstanding
		.... .1..		JQE7SPOT	"B'00000100'" Spin output produced
		.... ..1.		JQE7RJI	"B'00000010'" Request job id indicator
		.... ...1		JQE7SYSL	"B'00000001'" SYSLOG indicator
70	(46)	BITSTRING	1	JQEFLAG8	FLAG BYTE

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		JQE8HLDS	"B'10000000'" JOB HAS HELD 3540 DATA SET
		.1.. ..		JQE8DUPL	"B'01000000'" Job has been held at least once for duplicate job name
		..1.		JQE8CNWT	"B'00100000'" Job must convert on a PCE that can wait for OS CNVT
		...1		JQE8BOUT	"B'00010000'" Use abnormal outdisp
		.... 1...		JQE8OPCD	"B'00001000'" Job cancelled by oper with dump
		.... .1..		JQE8NJIX	"B'00000100'" Job is not in JIX
		.... ..1.		JQE8RBLD	"B'00000010'" Job is on Rebuild Queue
		.... ...1		JQE8NOQ	"B'00000001'" Job is not on a queue
The use of JQEFLAG9 should be reserved for use by the job command processor only.					
71	(47)	BITSTRING	1	JQEFLAG9	FLAG BYTE - JCMD processor
		1... ..		JQE9\$E	"B'10000000'" Mark JQE for Restart
		.1.. ..		JQE9\$C	"B'01000000'" Cancel the JQE
		.11.		JQE9\$CD	"B'01100000'" Cancel JQE with dump
		.1.1		JQE9\$CAR	"B'01010000'" Cancel JQE with ARM restart
EQU B'00001000' Was JQE2\$SPN					
		.... .1..		JQE9\$TSC	"B'00000100'" Reset the service class
		.... ..1.		JQE9\$FRC	"B'00000010'" Cancel JQE with FORCE
		.... ...1		JQE9\$EVC	"B'00000001'" Evict this job
		..1. ...1		JQE9\$EVH	"B'00100001'" Evict job with HOLD
72	(48)	SIGNED	4	JQEJBNUM	HASP job number
The following default route fields should only be used for command/console authorization purposes. They initially match the JCT fields when a job is created, but are not complete in that only one of the userid valids is in the JQE. They are not used in any dataset destination resolution (the JCT fields are used), and apply (for compatibility) only to console operator job ownership.					
76	(4C)	SIGNED	4	JQEDRPRT	Default print routing, initially same as JCTPROUT
80	(50)	CHARACTER	8	JQEDRPRU	Default print routing user for SDSF compatibility
88	(58)	SIGNED	4	JQEDRPUN	Default punch routing, initially same as JCTPUOUT
88	(58)	X'0'	0	JQEDRNO	"0,2,C'H'" Offset of node in route
88	(58)	X'2'	0	JQEDRRO	"2,2,C'H'" Offset of rmt in route
92	(5C)	BITSTRING	4	JQESAF	Full system affinity mask
96	(60)	SIGNED	4	(0)	INSURE FULL-WORD BOUNDARY
96	(60)	X'60'	0	JQEEB3	"*" End of 3rd move block
96	(60)	X'C'	0	JQESB3	"JQEEB3,JQEEB3-JQEEB3,C'X'" Size of 3rd block
96	(60)	X'60'	0	JQEBEND	"*" End of base JQE
96	(60)	X'60'	0	JQEBLEN	"*-JQE" LENGTH OF BASE JOB QUEUE ENTRY

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	SIGNED	4	JQESUMSK(0)	START OF SPOOLS-USED MASK, VARIABLE LEN (NUMBER OF BITS=SPOOLNUM), LEN IS MULTIPLE OF FOUR BYTES
96	(60)	BITSTRING	1	JQASUMSK	Max spools used mask
The following fields appear only within an artificial JQE. Artificial JQEs are constructed using the \$DOGJQE service.					
128	(80)	SIGNED	4	JQX(0)	Beginning of JQX
128	(80)	X'8'	0	JQXVRZ2	"8" JQX control block version for z/OS version 1.2 checkpoint mode.
128	(80)	X'9'	0	JQXVRZ11	"9" JQX control block version for z/OS version 1.11 checkpoint mode.
128	(80)	X'80'	0	JQXBB1	"*" Begin of 1st move block
128	(80)	SIGNED	4	JQXRECCT	Pre-execution record count
JQX maximum completion code information, by design, matches the mapping in the network job trailer. Consult NJE Formats and Protocols before adding a new type.					
132	(84)	BITSTRING	4	JQXMAXRC(0)	--+ Maximum Job Return Code
132	(84)	BITSTRING	1	JQXMXIND	| Job completion indicator
		1...		JQXMXAB	"X'80'" | Abend code exists
		.1..		JQXMXCDE	"X'40'" | Condition code exists
		..1.		JQXMXJRC	"X'20'" | Code from JOBRc request
132	(84)	X'E0'	0	JQXMXCDS	"JQXMXAB+JQXMXCDE+JQXMXJRC" List of all codes
132	(84)	X'0'	0	JQXMXUNK	"0" | No completion info
132	(84)	X'1'	0	JQXMXNRM	"1" | Job ended normally +
132	(84)	X'2'	0	JQXMXCC	"2" | Job ended by CC +
132	(84)	X'3'	0	JQXMXJCL	"3" | Job had a JCL error
132	(84)	X'4'	0	JQXMXCAN	"4" | Job was canceled
132	(84)	X'5'	0	JQXMXABN	"5" | Job ABENDeD +
132	(84)	X'6'	0	JQXMXCAB	"6" | Converter ABENDeD
132	(84)	X'7'	0	JQXMXSEC	"7" | Security error
132	(84)	X'8'	0	JQXMXEOM	"8" | Job failed in EOM +
132	(84)	X'9'	0	JQXMXCNV	"9" | Converter error
132	(84)	X'A'	0	JQXMXSYS	"10" | System failure
132	(84)	X'B'	0	JQXMXFLU	"11" | Job has been flushed
133	(85)	BITSTRING	3	JQXMAXCC	--+ Completion code (set for '+' conditions)
136	(88)	BITSTRING	4	JQXBERTT	Token representing the BERTS for this JQE
140	(8C)	BITSTRING	4	JQXCRTME	JQE creation time
140	(8C)	X'90'	0	JQXEB1	"*" End of 1st move block
140	(8C)	X'80'	0	JQXSB1	"JQXBB1,JQXEB1-JQXBB1,C'X'" Size of 1st block
144	(90)	SIGNED	4	JQXWSNXT	Index of next JQE on WSC Q
148	(94)	SIGNED	4	JQXWSPRV	Index of prev JQE on WSC Q
148	(94)	X'98'	0	JQXBB2	"*" Begin of 2nd move block
152	(98)	CHARACTER	8	JQXJCLAS	Job class

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
The JQX1WLM flag has special case code in \$D0GJQE. This flag should be modified using the real JQX. The other flags in JQXFLAG1 should be modified using the JQA.					
160	(A0)	BITSTRING	1	JQXFLAG1	Flags
		1...		JQX1TSRV	"B'10000000" SRVCLASS has been \$Ted to a non-null value
		.1..		JQX1WLM	"B'01000000" Job on WLM queue
		..1.		JQX1CTKN	"B'00100000" Job has data set(s) for which DYNALLOC returned a client token
		...1		JQX1DFQ	"B'00010000" Job pending WLM requeue
		.... 1...		JQX1LSPN	"B'00001000" Job went thru unspun in its lifetime
		.... .1..		JQX1XWTR	"B'00000100" At least one JOE purged due to external device
		.... ..1.		JQX1BSPL	"B'00000010" CBIMPL4 dump processing has occurred
		.... ...1		JQX1AWFL	"B'00000001" Job ended badly (EOM or busy @ system crash)
161	(A1)	SIGNED	1	JQXTGWRP	Number of times JQETGNBR wrapped over 7FFF
162	(A2)	BITSTRING	1	JQXFLAG2	More flags
		1...		JQX2CKLG	"B'10000000" If on - then associated logging job must be checked for - in midst conversion or on conversion queue. Logging job must convert before associated job(s)
		.1..		JQX2TPAR	"B'01000000" Invalid hold time, one paranoia check was hit
		..1.		JQX2UCOR	"B'00100000" User portion of Job Correlator set
		...1		JQX2JNOT	"B'00010000" Job notification data set (SYS_JOB_NOTIFY symbol)
		.... 1...		JQX2NENF	"B'00001000" Indicates ENF78 or NOTIFY processing
		.... .1..		JQX2MAXR	"B'00000100" JQXMAXRC has been set
		.... ..1.		JQX2ASYM	"B'00000010" Job req alternate system symbol table
		.... ...1		JQX2SYMT	"B'00000001" Job symbol table CB exist
163	(A3)	BITSTRING	1	JQXFLAG3	More flags
		1...		JQX3CVSY	"B'10000000" Job has symbols to be passed to converter
		.1..		JQX3INST	"B'01000000" Job has datasets with symbol substitution
		..1.		JQX3JBGR	"B'00100000" Job is a logging job for JOBGROUP (mutually exclusive with JQX3RJGR)
		...1		JQX3RJGR	"B'00010000" This job is registered to the JQXZNAME job group (mutually exclusive with JQX3JBGR). This bit is managed by the REGISTER_JOB method in HASCJZDN and SHOULD NOT be set or reset outside of this method!
		.... 1...		JQX3JLSP	"B'00001000" Jobgroup logging is being stopped

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		JQX3JGCS	"B'00000100'" This job is part of a concurrent set of jobs in a job group. (the JQX3RJGR bit will also be on).
		.... ..1.		JQX3JGCM	"B'0000010'" This is the 'primary job' in a concurrent set of jobs in a job group. (the JQX3JGCS and JQX3RJGR bits will also be on).
		.... ...1		JQX3NFDT	"B'00000001'" Job has associated NOTIFY statement data
164	(A4)	SIGNED	4	JQXNWSID(0)	JESNEWS id
164	(A4)	SIGNED	4	JQXIJNUM	Initial job number
164	(A4)	X'A8'	0	JQXEB2	"*" End of 2nd move block
164	(A4)	X'98'	0	JQXSB2	"JQXBB2,JQXEB2-JQXBB2,C'X'" Size of 2nd block
JQXDUP is managed without JQAs. This field will be modified only by the DUPJOB service routine and by queue rebuild.					
168	(A8)	SIGNED	4	JQXDUP	Index of next duplicate job zero ==> not duplicate -1 ==> last JQE in dup chn
168	(A8)	X'AC'	0	JQXBB3	"*" Begin of 3rd move block
172	(AC)	BITSTRING	1	JQXCAFF	Composite member affinity
172	(AC)	X'AC'	0	JQXPXARV	"JQXCAFF,L'JQXCAFF,C'F'" TOD when job entered post-execution
176	(B0)	BITSTRING	4	JQXIT141	Reserved for Exit 14
180	(B4)	BITSTRING	4	JQXIT142	Reserved for Exit 14
180	(B4)	X'B8'	0	JQXEB3	"*" End of 3rd move block
180	(B4)	X'AC'	0	JQXSB3	"JQXBB3,JQXEB3-JQXBB3,C'X'" Size of 3rd block
JQXJNUMQ is used to make JIX processing faster. By having this value in the real JQX, the real JQE does not need to be obtained to do job number comparisons in \$QL0C. Note: JQXJNUMQ is not included in the JQA since it is only useful for chaining (along with field JQXNJIXI).					
184	(B8)	BITSTRING	1	JQXJNUMQ	The quotient of the JQE job number divided by 64K
185	(B9)	ADDRESS	3	JQXNJIXI	Index of next JQE/JQX on the JIX chain
188	(BC)	SIGNED	4	JQXBSEND(0)	End of base section
188	(BC)	X'3C'	0	JQXLEN_Z2	"*-JQX" Length of checkpointed z/OS 1.2 mode JQX.
188	(BC)	BITSTRING	1	JQXFLAG4	More flags
		1...		JQX4HRDY	"B'10000000'" HTTP notify when ready
		.1..		JQX4HACT	"B'01000000'" HTTP notify when active
		..1.		JQX4HCOM	"B'00100000'" Do NOT send HTTP notify when complete
NOTE: JQXJQEBI is not included in the JQA since it is only useful for chaining.					
189	(BD)	ADDRESS	3	JQXJQEBI	JQE back chain index
189	(BD)	X'C0'	0	JQXBB4	"*" Begin of 4th move block

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
192	(C0)	SIGNED	4	JQXRDRON	Time on input processor
196	(C4)	SIGNED	4	JQXRDTON	Date on input processor
200	(C8)	BITSTRING	1	JQXRDMBR	Input member id
201	(C9)	CHARACTER	8	JQXZNAME	Associated Job Group (Z0D) name. Set when a job is registered to a jobgroup (bit JQX3RJGR is set) or this is a logging job for a jobgroup (bit JQX3JBGR is set).
205	(CD)	CHARACTER	4	JQXWNAME	Associated DJC work area containing one / NET STMT for a DJC job -- at input processing time.
209	(D1)	BITSTRING	1	JQX#BRTS	Number of BERTs used for this JQE
210	(D2)	BITSTRING	3	JQX#JOES	Number of JOEs for this job
213	(D5)	BITSTRING	3	JQX#JBRT	Number of BERTs used for this job's JOEs
216	(D8)	SIGNED	4	JQXZJCIX	Index of associated job group object (ZJC) : - This is a 'Z0D' object index if this job is a logging job for a jobgroup (bit JQX3JBGR is set). - This is a 'ZJI' object index if this job is registered to a jobgroup (bit JQX3RJGR is set).
216	(D8)	X'DC'	0	JQXEB4	"*" End of 4th move block
216	(D8)	X'C0'	0	JQXSB4	"JQXBB4,JQXEB4-JQXBB4,C'X'" Size of 4th block
216	(D8)	X'DC'	0	JQXEXEND	"*" End of z/OS 1.11 mode JQX and JQX section of the external JQA.
216	(D8)	X'5C'	0	JQXSIZE	"*-JQX" Size of JQX
216	(D8)	X'5C'	0	JQXZ11LN	"*-JQX" Length of checkpointed z/OS 1.11 mode JQX and JQX section of the external JQA.
Secondary extension to the JQE that exists in the JQY CTENT (in 64 bit storage). This is added here using the \$DOGJQE service.					
220	(DC)	SIGNED	4	JQY(0)	64-bit JQE extension (JQY)
220	(DC)	X'1'	0	JQYVRSN	"1" JQY control block version for z32 checkpoint mode
JQY move block 1 (z32 checkpoint mode or higher).					
220	(DC)	X'DC'	0	JQYBB1	"*" Begin of move block 1
220	(DC)	CHARACTER	8	JQYRGRNM	Resource group name
228	(E4)	CHARACTER	8	JQYSUBUS	Submitting userid
236	(EC)	BITSTRING	6	JQYTRAK	Track MQTR of JCT or IOT if JQE3SYSD is on (Z32 mode)
242	(F2)	BITSTRING	6	JQYEXSTR	Execution start time (Left 6 byte STCKE)
248	(F8)	BITSTRING	6	JQYEXEND	Execution end time (Left 6 byte STCKE)
254	(FE)	CHARACTER	20	JQYPNAME	Programmer's name
274	(112)	BITSTRING	1	JQYFLAG1	JQY Flag byte 1
		1...		JQY1ENHS	"B'10000000'" Enhanced job Selection selected the job
275	(113)	BITSTRING	1		Reserved
276	(114)	BITSTRING	4	JQYRSV1	Vendor/user field

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
280	(118)	BITSTRING	4	JQYRSV2	Vendor/user field
284	(11C)	BITSTRING	8	JQYSYSTK	Job repository index/token
284	(11C)	X'124'	0	JQYEB1	"*" End of 1st move block
284	(11C)	X'DC'	0	JQYSB1	"JQYBB1,JQYEB1-JQYBB1,C'X'" Size of 1st block
End of JQY move block 1.					
292	(124)	SIGNED	4	(14)	Reserved
292	(124)	X'15C'	0	JQYEND	"*" End of z/OS 3.2 mode JQY
292	(124)	X'80'	0	JQYZ32LN	"*-JQY" Length of z32 mode JQY
292	(124)	X'80'	0	JQYSIZE	"*-JQY" Length of 64-bit JQE ext
<p>The following fields are pseudo fields. They are artificially constructed from other fields in the JQE/JQX/BERT-backed fields.</p> <p>There are no \$BERTTABs defining these fields, so DOGBERT does not know of their existence.</p> <p>The field names begin with JQP for Job Queue Pseudo.</p> <p>JQPTGNBR field is constructed from the two fields JQETGNBR and JQXTGWRP. This pseudo field should be used as an input field only. Any updates made to it will not be reflected back into the JQE/JQX or the JQT.</p>					
348	(15C)	SIGNED	4	JQPTGNBR	Track groups
352	(160)	SIGNED	2	JQPNHOLD	If job is associated with a DJC then this is the associated NHOLD value obtained from related ZJI.
354	(162)	SIGNED	2	JQPNHSAV	Saved JQPNHOLD value described above. Used to determine if value changed. DO NOT CHANGE!!!
356	(164)	BITSTRING	1	JQPFLAG1	Parameter flag byte
		1...		JQP1REQ	"B'10000000" Job is being re-queued
		.1..		JQP1EVIC	"B'01000000" EJOB,STEP requeued job
357	(165)	BITSTRING	3	JQPGRID	Job group logging number extracted from SCHEDULE JOBGROUP parm
End of Pseudo fields BERT resident data sections					
360	(168)	SIGNED	4	JQABERT(0)	Begin BERT resident data
360	(168)	BITSTRING	148	JQAACCT	Job accounting information
508	(1FC)	SIGNED	4	JQAXEQ(0)	Start of XEQ section of JQE
508	(1FC)	CHARACTER	3	JQAPERF	Performance group
511	(1FF)	BITSTRING	1	JQAFLAG1	Flags
		1...		JQA1EHLD	"B'10000000" Job was held by the end user via TYPRUN=HOLD or SETUP or HOLDUNTL
		.1..		JQA1JCLH	"B'01000000" Job held for JCLHOLD
		..1.		JQA1THLD	"B'00100000" Hold start time in JQATIMER
		...1		JQA1TSCH	"B'00010000" SCHENV start time in JQATIMER
		.... 1...		JQA1DUPJ	"B'00001000" Possible duplicate jobname exists
		.... ..1.		JQA1TBAD	"B'00000010" Hold/SCHENV timers should not be maintained

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		JQA1SPIN	"B'00000001" JESLOG is spinable
512	(200)	BITSTRING	4	JQASTOK	Service class token
516	(204)	CHARACTER	8	JQAWSCN	Service Class Queue Name
524	(20C)	SIGNED	4	JQARRIV	Time job arrived in XEQ Q
528	(210)	SIGNED	4	JQAQTIME	Time job entered current execution queue
532	(214)	BITSTRING	2	JQASID	ASID where executing
534	(216)	BITSTRING	4	JQASCHAF	Affinity mask of systems where scheduling environ is available
538	(21A)	BITSTRING	1	JQASTARM	Member on which \$S J is to occur.
539	(21B)	BITSTRING	1		Reserved (alignment)
540	(21C)	SIGNED	4	JQARHLD	Duration when job held
544	(220)	SIGNED	4	JQARRSC	Duration when SCHENV not available
548	(224)	SIGNED	4	JQARTOC	Conversion time
552	(228)	SIGNED	4	JQATIMER	STCK value when hold or SCHENV timer last started
556	(22C)	SIGNED	4	JQAUTIME	STCK value when JQARHLD last updated
560	(230)	BITSTRING	1	JQAFLAG2	Flags
		1...		JQA2SCHE	"B'10000000" SCHENV is a default
		.1...		JQA2SINV	"B'01000000" SCHENV (JQASCHE) no longer valid
		..1.		JQA2TSCH	"B'00100000" SCHENV has been \$Ted to a non-null value
		...1		JQA2DUPJ	"B'00010000" JQADUPTM has been primed
		.... 1...		JQA2TFUD	"B'00001000" Hold/SCHENV timers were off by less than fudge factor (See CLOCCCHKR)
		.... .1..		JQA2WIN	"B'00000100" WINIT selected job
		.... ..1.		JQA2XDUP	"B'00000010" Exempt from duplicate job considerations
		.... ...1		JQA2REQ	"B'00000001" Job has been requeued
561	(231)	BITSTRING	3		Reserved for future use
561	(231)	X'38'	0	JQAXEQL	"*-JQAXEQ" Length of XEQ section

This BERT resident data defines the batch execution section.

564	(234)	SIGNED	4	JQAXBAT(0)	Start of batch execution section
564	(234)	SIGNED	4	JQAXSRMT	SRM Token from classify
568	(238)	SIGNED	4	JQAMINLV	Min BCP level for CNVT/XEQ
572	(23C)	BITSTRING	6	JQAUNTL	HOLDUNTL timestamp in ETOD format
578	(242)	BITSTRING	6	JQASTBY	STARTBY timestamp in ETOD format
584	(248)	BITSTRING	1	JQAFLAG3	More flags:
		1...		JQA3UNTU	"B'10000000" JQAUNTL time is UTC (OFF - time is local on member JQXRDMBR)
		.1...		JQA3STBU	"B'01000000" JQASTBY time is UTC (OFF - time is local on member JQXRDMBR)
		..1.		JQA3UNTG	"B'00100000" JQAUNTL time granularity ON = seconds OFF = minutes

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
585	(249)	SIGNED	1	JQAQGRSN	Reason for QGET rejection
585	(249)	X'1'	0	JQAQGDUP	"1" Duplicate jobname
585	(249)	X'2'	0	JQAQGCAT	"2" CAT not usable (see JQAQGCWR)
585	(249)	X'3'	0	JQAQGWLM	"3" Service class block (see JQAQGCWR)
585	(249)	X'4'	0	JQAQGX49	"4" Exit 49 rejected
586	(24A)	SIGNED	1	JQAQGCWR	Reason QGET got CAT or WLM rejection
CAT reasons					
586	(24A)	X'4'	0	JQAQGCHO	"4" CAT held
586	(24A)	X'8'	0	JQAQGCJX	"8" JESPLEX max exceeded
586	(24A)	X'C'	0	JQAQGCMX	"12" Member max exceeded
586	(24A)	X'10'	0	JQAQGCQF	"16" QAFF mismatch
WSC reasons					
586	(24A)	X'4'	0	JQAQGWAC	"4" WSCSELCT reject
586	(24A)	X'8'	0	JQAQGWMF	"8" Multi Affinity limit
586	(24A)	X'C'	0	JQAQGWST	"12" Stolen count limit
587	(24B)	BITSTRING	1		Reserved for future use
JQARRAJ is an arrival time adjustment value for the purposes of sorting service class queues. JQEs on service class queues are sorted in the order of (JQARRIV-JQARRAJ).					
588	(24C)	SIGNED	4	JQARRAJ	Arrival time adjustment
592	(250)	CHARACTER	8	JQAWITH	Job name on WITH=
592	(250)	X'24'	0	JQAXBATL	"*-JQAXBAT" Length of section
600	(258)	CHARACTER	16	JQASCHE	Scheduling environment
616	(268)	BITSTRING	4	JQASCLAF	Affinity mask of systems where SECLABEL is active
620	(26C)	BITSTRING	4	JQAUNSPN	MTTR of UNSPUN IOT (0 if multiple or unknown)
624	(270)	SIGNED	4	JQADUPTM	Accumulated TOD units when job held for duplicate jobname
This section is only defined for MVS SYSLOG jobs					
628	(274)	CHARACTER	8	JQASYSLN	MVS system name for SYSLOG job
636	(27C)	SIGNED	4	JQASYSLC	Index of next SYSLOG JQE
636	(27C)	X'274'	0	JQASYSLG	"JQASYSLN,*-JQASYSLN" Section definition field
This BERT resident data section is only available when the job has JES2 symbol SYS_CORR_USRDATA defined.					
640	(280)	CHARACTER	32	JQAUCOR	User data portion of Job Correlator

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>This section is only defined when the job is involved in a / NET dependency network or a very rare scenario for normal JEC job group. See field JQALGNUM.</p> <p>NOTE: - The fields below are propagated as follows:</p> <ul style="list-style-type: none"> o JDNNHOLD --> JQAOHOLD --> ZJICHOLD o JDNRELID --> JQARELID --> ZJIRELID o JDNRELJB --> JQARELJB --> ZJIRELJB o JDNNORMA --> JQANORMA --> N/A o JDNABNOR --> JQAABNOR --> N/A o JDNABCMP --> JQAABCMP --> N/A o JDNNRCMP --> JQANRCMP --> N/A o JDNPHOLD --> JQAPHOLD --> N/A <p>See \$ZJC for full field definitions.</p>					
672	(2A0)	SIGNED	2	JQAOHOLD	Original NHOLD=N value. N = The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card. (See JDNNHOLD in \$ZJC)
674	(2A2)	CHARACTER	8	JQARELID	NETID value from : NETREL=(NETID,.....) (See JDNRELID in \$ZJC)
678	(2A6)	CHARACTER	4	JQALGNUM	If JQX2CKLG -> on - then this is the job number of the associated logging job
682	(2AA)	CHARACTER	8	JQARELJB	JOBNAME value from : NETREL=(.....,JOBNAME) (See JDNRELJB in \$ZJC)
690	(2B2)	BITSTRING	1	JQANORMA	NORMAL=(D,F or R) (See JDNNORMA in \$ZJC)
691	(2B3)	BITSTRING	1	JQAABNOR	ABNORMAL=(D,F or R) (See JDNABNOR in \$ZJC)
692	(2B4)	BITSTRING	1	JQAABCMP	ABCMPI=(KEEP or NOKP) (See JDNABCMPI in \$ZJC)
693	(2B5)	BITSTRING	1	JQANRCMP	NRCMP=(HOLD,NOHO or FLSH) (See JDNNRCMP in \$ZJC)
694	(2B6)	BITSTRING	1	JQAPHOLD	OPHOLD=(NO or YES) (See JDNPHOLD in \$ZJC)
694	(2B6)	X'2A0'	0	JQANETFL	"JQAOHOLD,*-JQAOHOLD" Section definition field

Table 280. Structure JQE (continued)

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>- As can be seen, AFTER= can be problematic. For instance, if the release attempt of JOB_4 is initially unsuccessful, we would have to keep retrying the release until JOB_3 completes (an obvious CPU killer). We need way to 'push' the trigger point to parent job completion. To accomplish this we introduce JQA4PARL..a bit that indicates 'a parent job will release me'. If this bit is set in a dependent job (JOB_4), \$QGET will not select it again. Instead all release attempts will be triggered by parent job completion (via \$QMOD). JQA4PARL can be set during a release attempt in two ways :</p> <ul style="list-style-type: none"> o If a dependent job is added to an uncompleted AFTER= parent job's release list (see release list discussion below). Note that we always visit the AFTER= parent job first. In our example, we would add the dependent job (JOB_4) into the release list of the parent job (JOB_3) and turn JQA4PARL on in the dependent job (JOB_4). o If an uncompleted parent job has BEFORE= the dependent job (JOB_1 and JOB_2 in example). <p>o Parent job release list (JQARELHD/JQARELN) discussion :</p> <ul style="list-style-type: none"> - A JQE list that tracks dependent AFTER= jobs that need to be released when a parent job completes. o For instance : JOB_1 <pre> / | \ / | \ / | \ JOB_2 JOB_3 JOB_4 (AFTER= (AFTER= (AFTER= JOB_1) JOB_1) JOB_1) </pre> <p>Assuming JOB_1 has not completed before all dependent AFTER= jobs (JOB_2, JOB_3, JOB_4) make an initial release attempt, JOB1's release list chain would look like :</p> <pre> JOB_1 +-----+ NOTES : +----JQARELHD | ----- | | JQARELN=0 | o JOB_1 is the 'queue | +-----+ head' job. +-->JOB_2 o We are always able +-----+ to get the parent </pre> <pre> | JQARELHD=0 | JQE address by using +----JQARELN=0 | the AFTER= parent | +-----+ job# we have stashed | in field JQAPRVJN. +-->JOB_3 +-----+ o The JQEBRLST bit is | JQARELHD=0 | turned on in all +----JQARELN=0 | jobs associated with | +-----+ a release list. Used | by maintenance +-->JOB_4 routines (\$QREM, +-----+ etc..) to quickly | JQARELHD=0 | tell if they need to | JQARELN=0 | take action. +-----+ </pre> <p>When JOB_1 completes, a release attempt (via \$QMOD) will be attempted for all jobs in the list (JOB_2, JOB_3, JOB_4) as well as for any job defined in JOB_1's BEFORE= parameter.</p>					
696	(2B8)	SIGNED	4	(0)	Align on word boundary.
696	(2B8)	CHARACTER	8	JQANXTJB	Name of 'next' (BEFORE=) job (zero if not defined)
704	(2C0)	SIGNED	4	JQANXTJN	Job number (JQEJBNUM) of 'next' (BEFORE=) job (zero if none).
708	(2C4)	BITSTRING	4	JQANXTJK	Job key (JQEJBKEY) of 'next' (BEFORE=) job (zero if none).
712	(2C8)	CHARACTER	8	JQAPRVJB	Name of 'previous' (AFTER=) job (zero if not defined)

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
720	(2D0)	SIGNED	4	JQAPRVJN	Job number (JQEJBNUM) of 'previous' (AFTER=) job (zero if none).
724	(2D4)	BITSTRING	4	JQAPRVJK	Job key (JQEJBKEY) of 'previous' (AFTER=) job (zero if none).
728	(2D8)	BITSTRING	1	JQAFLAG4	Dynamic Dependency flags :
		1...		JQA4NXTR	"B'10000000'" ON = A release was attempted on the "next" job JQANXTJB (the job specified on BEFORE=).
		.1..		JQA4DLYR	"B'01000000'" ON = This previously delayed job (via DELAY= or AFTER=) was released (the JQEADLY bit was turned OFF).
		..1.		JQA4DLYY	"B'00100000'" ON = SCHEDULE DELAY=YES was specified.
		...1		JQA4PARL	"B'00010000'" ON = This delayed job (via DELAY= or AFTER=) will be released by a parent job (a job with a BEFORE=) that was located in a prior iteration.
729	(2D9)	BITSTRING	3		Reserved.
732	(2DC)	SIGNED	4	JQARELHD	Parent job release list - queue head JQE index.
736	(2E0)	SIGNED	4	JQARELNX	Parent job release list - next JQE index.
736	(2E0)	X'2B8'	0	JQADYDEP	"JQANXTJB,*-JQANXTJB" Section definition field
JQAQCHNG is used to track the point in time when a job changes queues. Not used for \$OUTPUT and later queues.					
740	(2E4)	SIGNED	4	JQAQCHNG	TOD that job changed queues
744	(2E8)	BITSTRING	4		Reserved for future use
744	(2E8)	X'2E4'	0	JQAJOBTM	"JQAQCHNG,*-JQAQCHNG" Job time section
JQARESQR is used to track resources the job needs to move to the next phase.					
748	(2EC)	SIGNED	4	JQARSBUF	Number of CB bufs needed for \$OUTPUT phase
If JQARSJOS is not zero, job was deferred because of the JOE resource limit. If JQARSRGJ is not zero, job was deferred because of the JOE resource limit at the resource group level. If JQARSRGB is not zero, job was deferred because of the BERT resource limit at the resource group level.					
752	(2F0)	SIGNED	4	JQARSINJ	Number of JOEs job had when limit was detected
756	(2F4)	SIGNED	4	JQARSJOS	Total number of JOEs when limit was detected
760	(2F8)	SIGNED	4	JQARSRGJ	JOE rsrc group limit indicator
764	(2FC)	SIGNED	4	JQARSRGB	BERT rsrc group limit indicator
768	(300)	SIGNED	4		Reserved
768	(300)	X'2EC'	0	JQARESQR	"JQARSBUF,*-JQARSBUF" Resource needs of job

Table 280. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
JQARSGRP is used to track resource group associated with the job					
772	(304)	CHARACTER	8	JQARGRNM	Resource group name
772	(304)	X'304'	0	JQARSGRP	"JQARGRNM,*-JQARGRNM" Resource group of the job
772	(304)	X'1A4'	0	JQABERTL	"*-JQABERT" Length of BERT data defined in this DSECT
772	(304)	X'30C'	0	JQABLEN	"*-JQE" Length of JQE + extensions defined in this DSECT

Table 281. Structure JQECNT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JQECNT	, JQE count array
0	(0)	CHARACTER	8	JQECNM1	JQE type 1 (BATCH)
8	(8)	SIGNED	4	JQECNA1	Number of ACTIVE and
12	(C)	SIGNED	4	JQECNC1	completed JQES of type
12	(C)	X'10'	0	JQECLEN	"*-JQECNT" Size of one entry
16	(10)	CHARACTER	8	JQECNM2	JQE type 2 (STC)
24	(18)	SIGNED	4	JQECNA2	Number of ACTIVE and
28	(1C)	SIGNED	4	JQECNC2	completed JQES of type
32	(20)	CHARACTER	8	JQECNM3	JQE type 3 (TSU)
40	(28)	SIGNED	4	JQECNA3	Number of ACTIVE and
44	(2C)	SIGNED	4	JQECNC3	completed JQES of type
48	(30)	CHARACTER	8	JQECNM4	JQE type 4 (JOBGROUP)
56	(38)	SIGNED	4	JQECNA4	Number of ACTIVE and
60	(3C)	SIGNED	4	JQECNC4	completed JQES of type
64	(40)	CHARACTER	8	JQECNM5	JQE type 5 (INTERNAL)
72	(48)	SIGNED	4	JQECNA5	Number of ACTIVE and
76	(4C)	SIGNED	4	JQECNC5	completed JQES of type
80	(50)	CHARACTER	8	JQECNM6	JQE type 6 (FREE)
88	(58)	SIGNED	4	JQECNA6	Number of ACTIVE and
92	(5C)	SIGNED	4	JQECNC6	completed JQES of type
92	(5C)	X'60'	0	JQECARSZ	"*-JQECNT" Size of a full array

Table 282. Structure JQS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JQS	, 64-bit SP00L JQE ext (JQS)
0	(0)	X'1'	0	JQSVRSN	"1" JQS control block version for z32 checkpoint mode
0	(0)	SIGNED	4	JQSTGNBR	Total track groups used
4	(4)	SIGNED	4	(2)	Reserved
4	(4)	X'C'	0	JQSZ32BL	"*-JQS" Minimum z32 base JQS size
4	(4)	X'C'	0	JQSBSIZE	"*-JQS" Current base JQS size
12	(C)	BITSTRING	1	JQSSUMSK	Max spools used mask
12	(C)	X'2C'	0	JQSMSIZE	"*-JQS" Maximum JQS size

Table 283. Cross Reference for \$JQE

Name	Offset	Hex Tag
\$FREE	1	FF
\$HARDCPY	1	1
\$INPUT	1	20
\$OUTPUT	1	2
\$PURGE	1	0
\$RECEIVE	1	4
\$SETUP	1	8
\$SPIN	1	80
\$XEQ	1	40
\$XEQCLAS	1	7F
\$XEQJOB1	1	79
\$XEQJOB1	1	41
\$XEQSTC	1	50
\$XEQTSU	1	60
\$XEQ8CHR	1	6A
\$XMIT	1	10
JQA	0	0
JQAABCMP	2B4	
JQAABNOR	2B3	
JQAACCT	168	
JQABERT	168	
JQABERTL	304	1A4
JQABLEN	304	30C
JQADUPTM	270	
JQADYDEP	2E0	2B8
JQAFLAG1	1FF	
JQAFLAG2	230	
JQAFLAG3	248	
JQAFLAG4	2D8	
JQAJOBTM	2E8	2E4
JQALGNUM	2A6	
JQAMINLV	238	
JQANETFL	2B6	2A0
JQANORMA	2B2	
JQANRCMP	2B5	
JQANXTJB	2B8	
JQANXTJK	2C4	
JQANXTJN	2C0	
JQA0HOLD	2A0	

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQAPERF	1FC	
JQAPHOLD	2B6	
JQAPRVJB	2C8	
JQAPRVJK	2D4	
JQAPRVJN	2D0	
JQAQCHNG	2E4	
JQAQGCAT	249	2
JQAQGCHO	24A	4
JQAQGCJX	24A	8
JQAQGCMX	24A	C
JQAQGCQF	24A	10
JQAQGCWR	24A	
JQAQGDUP	249	1
JQAQGRSN	249	
JQAQGWAC	24A	4
JQAQGWLM	249	3
JQAQGWMF	24A	8
JQAQGWST	24A	C
JQAQGX49	249	4
JQAQTIME	210	
JQARELHD	2DC	
JQARELID	2A2	
JQARELJB	2AA	
JQARELNX	2E0	
JQARESRO	300	2EC
JQARGRNM	304	
JQARHLD	21C	
JQARRAJ	24C	
JQARRIV	20C	
JQARRSC	220	
JQARSBUF	2EC	
JQARSGRP	304	304
JQARSINJ	2F0	
JQARSJOS	2F4	
JQARSRGB	2FC	
JQARSRGJ	2F8	
JQARTOC	224	
JQASCHAF	216	
JQASCHE	258	

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQASCLAF	268	
JQASID	214	
JQASTARM	21A	
JQASTBY	242	
JQASTOK	200	
JQASUMSK	60	
JQASYSLC	27C	
JQASYSLG	27C	274
JQASYSLN	274	
JQATIMER	228	
JQAUCOR	280	
JQAUNSPN	26C	
JQAUNTL	23C	
JQAUTIME	22C	
JQAWITH	250	
JQAWSCN	204	
JQAXBAT	234	
JQAXBATL	250	24
JQAXEQ	1FC	
JQAXEQL	231	38
JQAXSRMT	234	
JQA1DUPJ	1FF	8
JQA1EHL D	1FF	80
JQA1JCLH	1FF	40
JQA1SPIN	1FF	1
JQA1TBAD	1FF	2
JQA1THLD	1FF	20
JQA1TSCH	1FF	10
JQA2DUPJ	230	10
JQA2REQ	230	1
JQA2SCHE	230	80
JQA2SINV	230	40
JQA2TFUD	230	8
JQA2TSCH	230	20
JQA2WIN	230	4
JQA2XDUP	230	2
JQA3STBU	248	40
JQA3UNTG	248	20
JQA3UNTU	248	80

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQA4DL YR	2D8	40
JQA4DL Y Y	2D8	20
JQA4NXTR	2D8	80
JQA4PARL	2D8	10
JQE	0	
JQEADLY	E	10
JQEADUBY	E	4
JQEAESSM	E	2
JQEAFLSH	E	80
JQEANDMP	E	20
JQEANET	E	8
JQEARMMI	20	
JQEAXARV	E	1
JQEBB1	0	0
JQEBB2	5	8
JQEBB3	9	C
JQEBDPJB	3	2
JQEBEND	60	60
JQEBJCNL	3	10
JQEBLEN	60	60
JQEBRGR	3	20
JQEBRLHD	3	40
JQEBRLIM	3	8
JQEBRLMT	3	4
JQEBRLST	3	80
JQEBUSY	22	
JQECARSZ	5C	60
JQECLEN	C	10
JQECNA1	8	
JQECNA2	18	
JQECNA3	28	
JQECNA4	38	
JQECNA5	48	
JQECNA6	58	
JQECNC1	C	
JQECNC2	1C	
JQECNC3	2C	
JQECNC4	3C	
JQECNC5	4C	

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQECNC6	5C	
JQECNM1	0	
JQECNM2	10	
JQECNM3	20	
JQECNM4	30	
JQECNM5	40	
JQECNM6	50	
JQECNT	0	
JQEDEVID	1D	
JQEDRNO	58	0
JQEDRPRT	4C	
JQEDRPUR	50	
JQEDRPUN	58	
JQEDRRO	58	2
JQEEB1	4	4
JQEEB2	8	8
JQEEB3	60	60
JQEFLAGA	E	
JQEFLAGB	3	
JQEFLAG1	4	
JQEFLAG2	8	
JQEFLAG3	C	
JQEFLAG4	1C	
JQEFLAG5	40	
JQEFLAG6	44	
JQEFLAG7	45	
JQEFLAG8	46	
JQEFLAG9	47	
JQEINPND	18	
JQEJBKEY	10	
JQEJBNUM	48	
JQEJCLAS	D	
JQEJLOK	23	
JQEJNAME	24	
JQEJOEI	9	
JQEJOEID	3C	
JQENENF	2	
JQENEXTI	5	
JQENWUSE	3C	

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQE0FFSL	41	
JQEPRI0	0	
JQERESVD	21	
JQESAF	5C	
JQESB1	4	0
JQESB2	8	8
JQESB3	60	C
JQESECLB	34	
JQESUMSK	60	
JQETGNBR	42	
JQETRAK_Z22	14	
JQETYPE	1	
JQEUSRID	2C	
JQEVRSN	0	8
JQEXEQND	1A	
JQEZGLM	F	
JQE1ARME	4	1
JQE1ARMH	4	2
JQE1ARMR	4	4
JQE1HLDA	4	80
JQE1HLDT	4	10
JQE1HLD1	4	40
JQE1HUNT	4	20
JQE10CAN	4	8
JQE1PURG	4	10
JQE2ART	8	1
JQE2IND	8	80
JQE2PEOM	8	10
JQE2REST	8	40
JQE2STAR	8	20
JQE2STBY	8	4
JQE2UNT1	8	8
JQE2ZAP	8	2
JQE3DFJG	C	20
JQE3JOB	C	3
JQE3MVRQ	C	80
JQE3STC	C	1
JQE3SYSD	C	10
JQE3TMOB	C	8

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQE3TSU	C	2
JQE3UNSP	C	40
JQE3XMIT	C	4
JQE4CAN	1C	80
JQE4JCLH	1C	1
JQE4MNEW	1C	4
JQE4MOLD	1C	8
JQE4NEWS	1C	40
JQE4SPHA	1C	20
JQE4SP0F	1C	10
JQE4TW0J	1C	2
JQE5E0M	40	8
JQE5INPL	40	1
JQE5NOTF	40	10
JQE5NSL	40	40
JQE5NUNK	40	20
JQE5PUPS	40	2
JQE5RUNS	40	4
JQE5XUSD	40	80
JQE6H0PR	0	8
JQE6NCSA	0	1
JQE6PRAG	0	2
JQE6PRG	0	40
JQE6PRT	0	4
JQE6TGAE	0	20
JQE7INIT	45	20
JQE7I0TE	45	10
JQE7PR0T	45	80
JQE7RJI	45	2
JQE7SPIN	45	8
JQE7SP0T	45	4
JQE7SYSL	45	1
JQE7TP	45	40
JQE8B0UT	46	10
JQE8CNWT	46	20
JQE8DUPL	46	40
JQE8HLDS	46	80
JQE8NJIX	46	4
JQE8NOQ	46	1

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQE8OPCD	46	8
JQE8RBLD	46	2
JQE9\$C	47	40
JQE9\$CAR	47	50
JQE9\$CD	47	60
JQE9\$E	47	80
JQE9\$EVC	47	1
JQE9\$EVH	47	21
JQE9\$FRC	47	2
JQE9\$TSC	47	4
JQPFLAG1	164	
JQPGRID	165	
JQPNHOLD	160	
JQPNHSAV	162	
JQPTGNBR	15C	
JQP1EVIC	164	40
JQP1REQ	164	80
JQS	0	
JQSBSIZE	4	C
JQSMSIZE	C	2C
JQSSUMSK	C	
JQSTGNBR	0	
JQSVRSN	0	1
JQSZ32BL	4	C
JQX	80	
JQX#BRTS	D1	
JQX#JBRT	D5	
JQX#JOES	D2	
JQXBB1	80	80
JQXBB2	94	98
JQXBB3	A8	AC
JQXBB4	BD	C0
JQXBERTT	88	
JQXBSEND	BC	
JQXCAFF	AC	
JQXCRTME	8C	
JQXDUP	A8	
JQXEB1	8C	90
JQXEB2	A4	A8

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQXEB3	B4	B8
JQXEB4	D8	DC
JQXEXEND	D8	DC
JQXFLAG1	A0	
JQXFLAG2	A2	
JQXFLAG3	A3	
JQXFLAG4	BC	
JQXIJNUM	A4	
JQXIT141	B0	
JQXIT142	B4	
JQXJCLAS	98	
JQXJNUMQ	B8	
JQXJQEBI	BD	
JQXLEN_Z2	BC	3C
JQXMAXCC	85	
JQXMAXRC	84	
JQXMXAB	84	80
JQXMXABN	84	5
JQXMXCAB	84	6
JQXMXCAN	84	4
JQXMXCC	84	2
JQXMXCDE	84	40
JQXMXCDS	84	E0
JQXMXCNV	84	9
JQXMXEOM	84	8
JQXMXFLU	84	B
JQXMXIND	84	
JQXMXJCL	84	3
JQXMXJRC	84	20
JQXMXNRM	84	1
JQXMXSEC	84	7
JQXMXSYS	84	A
JQXMXUNK	84	0
JQXNJIXI	B9	
JQXNWSID	A4	
JQXPXARV	AC	AC
JQXRDMBR	C8	
JQXRDRON	C0	
JQXRDTON	C4	

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQXRECCT	80	
JQXSB1	8C	80
JQXSB2	A4	98
JQXSB3	B4	AC
JQXSB4	D8	C0
JQXSIZE	D8	5C
JQXTGWRP	A1	
JQXVRZ11	80	9
JQXVRZ2	80	8
JQXWNAME	CD	
JQXWSNXT	90	
JQXWSPRV	94	
JQXZJCIX	D8	
JQXZNAME	C9	
JQXZ11LN	D8	5C
JQX1AWFL	A0	1
JQX1BSPL	A0	2
JQX1CTKN	A0	20
JQX1DFQ	A0	10
JQX1LSPN	A0	8
JQX1TSRV	A0	80
JQX1WLM	A0	40
JQX1XWTR	A0	4
JQX2ASYM	A2	2
JQX2CKLG	A2	80
JQX2JNOT	A2	10
JQX2MAXR	A2	4
JQX2NENF	A2	8
JQX2SYMT	A2	1
JQX2TPAR	A2	40
JQX2UCOR	A2	20
JQX3CVSY	A3	80
JQX3INST	A3	40
JQX3JBGR	A3	20
JQX3JGCM	A3	2
JQX3JGCS	A3	4
JQX3JLSP	A3	8
JQX3NFDT	A3	1
JQX3RJGR	A3	10

Table 283. Cross Reference for \$JQE (continued)

Name	Offset	Hex Tag
JQX4HACT	BC	40
JQX4HCOM	BC	20
JQX4HRDY	BC	80
JQY	DC	
JQYBB1	DC	DC
JQYEB1	11C	124
JQYEND	124	15C
JQYEXEND	F8	
JQYEXSTR	F2	
JQYFLAG1	112	
JQYPNAME	FE	
JQYRGRNM	DC	
JQYRSV1	114	
JQYRSV2	118	
JQYSB1	11C	DC
JQYSIZE	124	80
JQYSUBUS	E4	
JQYSYSTK	11C	
JQYTRAK	EC	
JQYVRSN	DC	1
JQYZ32LN	124	80
JQY1ENHS	112	80

\$JQRWORK information

\$JQRWORK heading information

Common name:	JES2 JQE request PCE Work Area
Macro ID:	\$JQRWORK
DSECT name:	PCE (\$JQRWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol JQRPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE

Pointed to by: The \$JQRPCE field of the \$HCT data area
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by the JES2 JQE request Processor. \$JQRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JQRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJQRID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

\$JQRWORK mapping

Table 284. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	SIGNED	4	JQRPALET	JQRB data space ALET
340	(154)	ADDRESS	4	JQRJQA	Address of current JQA
344	(158)	ADDRESS	4	JQRJCT	Address of current JCT
348	(15C)	ADDRESS	4	JQRIOT	Address of current IOT
352	(160)	BITSTRING	1	JQRFLAG1	General flag byte
		1...		JQR1BRTL	"B'10000000" BERT lock held
		.1..		JQR1QSUS	"B'01000000" Wait for the queues
		..1.		JQR1CKPW	"B'00100000" Wait for next CKPT write
		...1		JQR1CKPP	"B'00010000" Wait for current CKPT wrt
		.... 1...		JQR1BUFR	"B'00001000" Wait for free buffers
353	(161)	BITSTRING	1	JQRQUE	New queue from JQRB
354	(162)	BITSTRING	2	JQRRSV1	Reserved
356	(164)	SIGNED	4	JQRRQJRA(0)	Request Job ID Request Area
356	(164)	CHARACTER	4	JQRJQRID	ID for JQR requestor
360	(168)	SIGNED	2	JQRRQJAS	Request Job ID ASID
362	(16A)	BITSTRING	2	JQRRQJRE	Req Job ID Request Area End
364	(16C)	CHARACTER	8	JQRWJOBC	Job class work area
372	(174)	CHARACTER	8	JQRWSRVC	Service class work area
380	(17C)	ADDRESS	4	JQRWSJBQ	Address of current SJB queue head
384	(180)	ADDRESS	4	JQRSQD	Address of SQD or zero
388	(184)	SIGNED	4	JQRNRTCD	New route code for \$R XEQ job modify request
392	(188)	CHARACTER	8	JQRWGRN	Resource group name
400	(190)	BITSTRING	32	JQRRMET	Work rsrc management entry
432	(1B0)	DBL WORD	8	(0)	Alignment
432	(1B0)	X'60'	0	JQRPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 285. Cross Reference for \$JQRWORK

Name	Offset	Hex Tag
JQRFLAG1	160	
JQRIOT	15C	
JQRJCT	158	
JQRJQA	154	
JQRJQRID	164	
JQRNRTCD	184	
JQRPALLET	150	
JQRPCEWL	1B0	60
JQRQUE	161	
JQRRMET	190	
JQRRQJAS	168	
JQRRQJRA	164	
JQRRQJRE	16A	
JQRRSV1	162	
JQRSQD	180	
JQRWJOBC	16C	
JQWRGRN	188	
JQRWSJBQ	17C	
JQRWSRVC	174	
JQR1BRTL	160	80
JQR1BUFR	160	8
JQR1CKPP	160	10
JQR1CKPW	160	20
JQR1QSUS	160	40
PCE	0	

\$JRW information

\$JRW programming interface information

\$JRW is a programming interface.

\$JRW heading information

Common name:	JES2 Job Receiver Work Area
Macro ID:	\$JRW
DSECT name:	JRW
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	none

Storage attributes: Subpool: See \$PCE (JES2 address space)
0 (NETSRV address space)
Key: See \$PCE (JES2 address space)
0 (NETSRV address space)
Residency: See \$PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See JRWLEN

Created by: See \$PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTJRW field of the \$NSST data area
RDRCWKAR label of the \$RDRWORK data area
X002AREA field of the \$XPL data area
X003AREA field of the \$XPL data area
X004AREA field of the \$XPL data area
X020AREA field of the \$XPL data area
X050AREA field of the \$XPL data area
X052AREA field of the \$XPL data area
X053AREA field of the \$XPL data area
X054AREA field of the \$XPL data area
Imbedded in the PCE in the JES2 address space.
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 input processing PCEs, including NJE job receivers, card readers, internal readers, RJE card readers, and internal job creation. This includes support routines and exits. \$JRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

\$JRW mapping

Table 286. Structure JRW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JRW	, JRW mapped as \$NJEWORK
0	(0)	CHARACTER	4	JRWEYE	Eyecatcher
4	(4)	CHARACTER	10	JRWDEVN	Device name
14	(E)	BITSTRING	1	JRWDEVTP	Device type
15	(F)	BITSTRING	3	JRWDEVID	Device id
18	(12)	BITSTRING	2	JRWCRSV1	Reserved
20	(14)	ADDRESS	4	JRWWAVE	WAVE address
24	(18)	ADDRESS	4	JRWSQD	SQD address
28	(1C)	ADDRESS	4	JRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JRWTBUF	Address of associated TBUF

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	ADDRESS	4	JRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JRWEBCCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	JRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JRWJQA	Address of JQA
72	(48)	X'48'	0	JRWJQE	"JRWJQA" Address of JQE
76	(4C)	ADDRESS	4	JRWJCT	Address of JCT
80	(50)	ADDRESS	4	JRWIOT	Address of IOT
80	(50)	X'50'	0	JRWIOTBF	"JRWIOT" Address of IOT
84	(54)	ADDRESS	4	JRWNJH	Network job header address
88	(58)	ADDRESS	4	JRWNJT	Network job trailer address
92	(5C)	SIGNED	4	JRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JRWNERRC	Error code
108	(6C)	X'1'	0	JRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JRWNECBI	"7" CPIO failure
108	(6C)	X'8'	0	JRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JRWNESJF	"11" SJF error
108	(6C)	X'C'	0	JRWNESAF	"12" SAF check failure
108	(6C)	X'D'	0	JRWNERSL	"13" Resource limit error
109	(6D)	BITSTRING	7	JRWCRSV2	Reserved
120	(78)	DBL WORD	8	JRWDBL	Doubleword work area
128	(80)	DBL WORD	8	JRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JRWWRK16	"JRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JRWWRK24	"JRWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JRWCLEAR	"JRWCLRST,*-JRWCLRST,C'X'" Area to clear
144	(90)	BITSTRING	1	JRW\$EXP	'EXPECTED' TYPES (FLAGS)

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
145	(91)	BITSTRING	1	JRW\$LST	'LAST RECEIVED' TYPE (FLAG)
		1...		JRW\$JH	"B'10000000'" JOB HEADER
		.1..		JRW\$JT	"B'01000000'" JOB TRAILER
		..1.		JRW\$DSH	"B'00100000'" DATA SET HEADER
		...1		JRW\$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		JRW\$DATA	"B'00001000'" DATA RECORD
		.... .1..		JRW\$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		JRW\$JES2	"B'00000010'" JES2 SECTION RECEIVED
		.... ...1		JRW\$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
146	(92)	BITSTRING	1	JRWFLAG2	Control flags
JRW2SYSN indicates sysin data being processed and any JCL/JECL will end data. JRW2DATA is any data that must be terminated by a DLM card.					
		1...		JRW2SYSN	"B'10000000'" Processing SYSIN or / PROCESS cards
		.1..		JRW2DATA	"B'01000000'" Processing data cards or / DATASET cards
		..1.		JRW2JCL	"B'00100000'" Processing JCL card
		...1		JRW2JECL	"B'00010000'" Processing JECL card
		.... 1...		JRW2CONT	"B'00001000'" Processing continuation
		.... .1..		JRW2QUOT	"B'00000100'" Processing unended quote
		.... ..1.		JRW2CMNT	"B'00000010'" Processing comment cont
146	(92)	X'E'	0	JRW2CNTS	"JRW2CONT+JRW2QUOT+JRW2CMNT" All continuations
		.... ...1		JRW2SPCN	"B'00000001'" Processing paren cont
147	(93)	BITSTRING	1	JRWFLAG3	Control flags
		1...		JRW3SKIP	"B'10000000'" Skipping for job card message issued
		.1..		JRW3FLSH	"B'01000000'" Flushing input stream (look for delimiter)
		..1.		JRW3FEOF	"B'00100000'" Flushing until EOF
		...1		JRW3FAIL	"B'00010000'" Fail job at end of input
		.... 1...		JRW3SKGT	"B'00001000'" Reprocess current record
		.... .1..		JRW3STNF	"B'00000100'" Store and forward steam
		.... ..1.		JRW3XMIT	"B'00000010'" XMIT stream
		.... ...1		JRW3PURG	"B'00000001'" Job is to be purged
148	(94)	BITSTRING	1	JRWFLAG4	Control flags
		1...		JRW4ILLC	"B'10000000'" Illegal continuation
		.1..		JRW4ILCD	"B'01000000'" Deferred continuation err
		..1.		JRW4JQSA	"B'00100000'" \$JQESERV ADD in progress
		...1		JRW4ILCB	"B'00010000'" Illegal continuation before exit
		.... 1...		JRW4FJCE	"B'00001000'" Fatal job card error

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JRW4FBCL	"B'00000100'" CLASS= on job card bad
		.... ..1.		JRW4NOCL	"B'00000010'" Bypass JOB class verification
149	(95)	BITSTRING	1	JRWCPSWK	Caller PSW byte 1 (key)
150	(96)	BITSTRING	1	JRWFLAG5	Control flags
		1...		JRW5JPPR	"B'10000000'" JOBPARM PROCLIB seen
		.1..		JRW5JCPR	"B'01000000'" JCLLIB PROCLIB seen
		..1.		JRW5UCRS	"B'00100000'" Field JRWJRUCR was set
		...1		JRW5OFLF	"B'00010000'" OFFLOADn.JR being flushed
		.... 1...		JRW5CERR	"B'00001000'" JCL error message pending
		.... .1..		JRW5AVF	"B'00000100'" JOB failed SAF VERIFYX
		.... ..1.		JRW5GRP	"B'00000010'" Job created due to JOBGROUP processing
		.... ...1		JRW5GRPH	"B'00000001'" JOBGROUP created as HELD
151	(97)	BITSTRING	1	JRWFLAG6	Control flags
		1...		JRW6SPAR	"B'10000000'" Spaces in PARENS allowed
		.1..		JRW6ICSC	"B'01000000'" Special case continuation error (col 72 non blank and 71 end of operand)
		..1.		JRW6JBAD	"B'00100000'" Label on JOB/JOBGROUP stmt contains invalid chars
		...1		JRW6MSGP	"B'00010000'" Set logging job JESJCLIN PDDB as not printable
		.... 1...		JRW6SKIP	"B'00001000'" Skipping for JOBGROUP card issued
		.... .1..		JRW6JES3	"B'00000100'" JES3 JECL syntax / (together with JRW2JECL)
		.... ..1.		JRW6JS3A	"B'00000010'" JES3 JECL syntax (together with JRW2JECL)
		.... ...1		JRW6LERR	"B'00000001'" Non-sever error encountered
152	(98)	BITSTRING	1	JRWFLAG7	More control flags:
		1...		JRW7USET	"B'10000000'" User identification set
		.1..		JRW7EMLI	"B'01000000'" EMAIL id is in JRWEMAIL
		..1.		JRW7NFDT	"B'00100000'" Job has NOTIFY stmt data
		...1		JRW7GRPC	"B'00010000'" Current card should be flag as JECL within LRC when written to JESJCLIN
		.... 1...		JRW7LOG	"B'00001000'" This job is a logging job for a DJC network
		.... .1..		JRW7NET	"B'00000100'" This job has an associated NET statement
		.... ...1		JRW7ESSM	"B'00000001'" Job submitted from emergency subsystem
153	(99)	BITSTRING	1	JRWFLAG8	More control flags:
		1...		JRW8NULL	"B'10000000'" Current card null

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JRW8DEFR	"B'01000000'" If ON, this is a deferred JRW in a multi-job NJE stream (See JRWNXJRW). If OFF, this is a fixed 'work' JRW that exists in a \$RDRWORK PCE or JRW addressed by \$NSST.
		..1.		JRW8GTWK	"B'00100000'" If ON, this deferred JRW was obtained via \$GETWORK.
		...1		JRW8CNJH	"B'00010000'" If ON, the NJH addressed by NRWNJH was copied.
		.... 1...		JRW8CJP1	"B'00001000'" If ON, CJOBEND will do full processing but will keep job in the \$INPUT queue.
		.... .1..		JRW8CJP2	"B'00000100'" If ON, CJOBEND will only do \$QMOD to the next phase. Assumes a separate call with JRW8CJP1 set was done first.
		.... ..1.		JRW8J3XQ	"B'00000010'" JES3 ROUTE XEQ
		.... ...1		JRW8J3XJ	"B'00000001'" Job card expected
154	(9A)	BITSTRING	1	JRWFLAG9	JES2 policy control flags
		1...		JRW9HJEV	"B'10000000'" Halt (skip) policy apply for type JCLEvaluation
		.1..		JRW9AJCL	"B'01000000'" JCL stmt can apply policy
		..1.		JRW9AJEC	"B'00100000'" JECL stmt can apply plcy
155	(9B)	BITSTRING	1	JRWVMSRL	MVS release level required
		..1.		JRWVMS22	"B'00100000'" >= HJE77A0 required
		.1..		JRWVMS23	"B'01000000'" >= HJE77B0 required
		1...		JRWVMS24	"B'10000000'" >= HJE77C0 required
		...1 1111		JRWVMSRE	"B'00011111'" Reserved for rel levels
156	(9C)	BITSTRING	1		Reserved
157	(9D)	BITSTRING	1	JRWFLAGN	/ NETACCT keywords coded
		1...		JRWNPNAM	"B'10000000'" PNAME= specified
		.1..		JRWNACCT	"B'01000000'" ACCT= specified
		..1.		JRWNBLDG	"B'00100000'" BLDG= specified
		...1		JRWNDEPT	"B'00010000'" DEPT= specified
		.... 1...		JRWNR00M	"B'00001000'" ROOM= specified
		.... .1..		JRWUSER	"B'00000100'" USERID= specified
158	(9E)	SIGNED	1	JRWENVIR	Environment
158	(9E)	X'0'	0	JRWERDR	"0" RDR/BSC NJE/SNA NJE
158	(9E)	X'8'	0	JRWEUSER	"8" INJR/INTRDR
158	(9E)	X'10'	0	JRWENSRV	"16" NJJR/NETSRV
158	(9E)	X'18'	0	JRWESBMT	"24" SSRV/\$SUBMIT
159	(9F)	BITSTRING	1		reserved
160	(A0)	SIGNED	2	JRWEMAIL	Length of data in JRWEMAIL
162	(A2)	CHARACTER	256	JRWEMAIL	EMAIL= for the job
420	(1A4)	ADDRESS	4	JRWEMPLWA	Ptr to email work area
424	(1A8)	ADDRESS	4	JRWEMPLWZ	Size of email work area
432	(1B0)	ADDRESS	8	JRWPIW	Ptr to policy interpreter work area
440	(1B8)	DBL WORD	8	JRWTMP8	8 byte work area

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
448	(1C0)	BITSTRING	32	JRWTMP32	32 byte work area
MACDATE = 08/19/88					
448	(1C0)	BITSTRING	24	JRWSTIML	REMOTE STIMER SET PARM LIST
440	(1B8)	BITSTRING	5	JRW5WRK	5 byte work area
445	(1BD)	BITSTRING	10	JRWAWRK	10 byte work area
455	(1C7)	BITSTRING	4		Reserved slop for UNPK
<p>Deferred NJE JRW queues.</p> <p>There are a number of fixed 'work' JRWs that exist:</p> <ul style="list-style-type: none"> - In each Input services PCE work area (RDRWORK - see RDWCWKAR). Handles NJE BSC/SNA. - In each NJE Server Subtask Connection Table (\$NSST - see NSSTJRW). Handles NJE TCP/IP. <p>In an NJE stream there may be multiple JOB/JOBGROUP cards. Input processing can proceed on these jobs up to the point where the job trailer must be applied. The job trailer arrives last in the NJE stream. Therefore, all jobs (JRws) must be 'deferred' until the job trailer arrives. These queues handle 'deferring' these JRws-in-waiting (and the associated JQEs).</p> <p>The queues are used as follows:</p> <ul style="list-style-type: none"> JRWFDJRW - Free deferred JRWs that are ready for re-use. NOTE : - The queue head is a fixed work JRW (in \$RDRWORK or \$NSST). JRWNXJRW - Chain of deferred JRws that represent the jobs in the current NJE stream that are waiting for the job trailer to arrive. NOTE : - The queue head is a fixed work JRW (in \$RDRWORK or \$NSST). JRWLAJRW - The last JRW in the JRW NXJRW chain. Used to facilitate chaining in arrival order. NOTE : - Only set in work JRws (in \$RDRWORK or \$NSST). 					
480	(1E0)	ADDRESS	4	JRWFDJRW	Free deferred JRws head.
484	(1E4)	ADDRESS	4	JRWNXJRW	If processing an NJE job stream, This is the ptr to the next JRW in the JRW NXJRW job stream chain.
488	(1E8)	ADDRESS	4	JRWLAJRW	If processing an NJE job stream, this points to the last JRW in the JRW NXJRW job stream chain.

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Job reader card buffer (RJCB) queues The queues are used as follows: JRWRJCB - Cards that represent the current JCL card being processed. These cards are represented in JRWSTMT JRWRJCBN - These are cards that are queued for processing after the current cards in JRWRJCB are processed. There were either generated internally or were added by an exit JRWRJCBF - Free RJCBs that are ready for re-use JRWRJCBX - These are the job cards that have already been written to the JCLIN data set and are waiting to be written to the SYSIN data set for XBM processing. JRWRJCBS - SCRs that are to be written after the cards in JRWRJCB (if any) are processed. JRWRJCBP - One pending SCR that is to be written when the next data or JCL card is encountered. JRWRJCBM - Messages that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBB - Messages that need to be inserted into JCLIN after all / NET messages JRWRJCBD - RJCBs that represents deferred messages JRWRJCBC - CMBs that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBI - RJCB that represents a SYSIN or delimiter card added by an exit JRWRJCBO - RJCB that represents a card to be placed after JOB stmt, before EXEC					
492	(1EC)	SIGNED	4	JRWRJCB1(0)	First queue of RJCBs
492	(1EC)	ADDRESS	4	JRWRJCB	Current card buffer head
496	(1F0)	ADDRESS	4	JRWRJCBN	Next card buffer head
500	(1F4)	ADDRESS	4	JRWRJCBF	Free card buffer head
500	(1F4)	X'C'	0	JRWRJCFS	"(*-JRWRJCB1)" Size of card/free buffer queues.
504	(1F8)	ADDRESS	4	JRWRJCBX	XBM card queue
508	(1FC)	ADDRESS	4	JRWRJCBS	SCR queue
512	(200)	ADDRESS	4	JRWRJCBP	Pending SCR queue
516	(204)	ADDRESS	4	JRWRJCBM	Message queue
520	(208)	ADDRESS	4	JRWRJCBB	/ NET delayed queue
524	(20C)	ADDRESS	4	JRWRJCBD	Deferred message queue
528	(210)	ADDRESS	4	JRWRJCBC	CMB queue
532	(214)	ADDRESS	4	JRWRJCBI	SYSIN/delimiter RJCB
536	(218)	ADDRESS	4	JRWRJCBO	After JOB, before EXEC
536	(218)	X'C'	0	JRWRJCNM	"(*-JRWRJCB1)/4" Number of RJCB queues
536	(218)	X'30'	0	JRWRJSIZ	"(*-JRWRJCB1)" Size of RJCB queue array.
540	(21C)	ADDRESS	4	(2)	Reserved for future use
Current logical statement work areas					
548	(224)	ADDRESS	4	JRWSTMT	Pointer to statement buffer
552	(228)	ADDRESS	4	JRWSTMTTE	1st free byte in buffer
556	(22C)	SIGNED	2	JRWSTMTS	Size of JRWSTMT area
558	(22E)	SIGNED	2	JRWPARCT	Parenthesis count
560	(230)	DBL WORD	8	(0)	Align properly

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
560	(230)	CHARACTER	12	JRWSTMTV	JCL/JECL verb for statement in 4K buffer
572	(23C)	SIGNED	4		Reserved for future use
576	(240)	CHARACTER	8	JRWSTMTL	JCL label for verb in 4K buffer
584	(248)	SIGNED	4	JRWSTMTC	Count of cards in current statement
588	(24C)	SIGNED	4	JRWCHKSM	Running checksum of stmts
RCARDSCN work areas					
592	(250)	CHARACTER	12	JRWSCNK	Scanned keyword
604	(25C)	CHARACTER	12	JRWSCNA	Keyword alias (only filled in if duplicate keyword)
616	(268)	SIGNED	2	JRWSCNL	Value length (-1 implies missing required keyword)
618	(26A)	SIGNED	2	JRWSCNP	Number of positionals found
620	(26C)	SIGNED	2	JRWSCNM	# of list elements found
622	(26E)	BITSTRING	1	JRWSCER	RCARDSCN error code
622	(26E)	X'1'	0	JRWSCOP	"1" Operand error code
622	(26E)	X'2'	0	JRWSCKY	"2" Keyword error code
623	(26F)	BITSTRING	1	JRWFL1	RCARDSCN Flag 1
		1...		JRWRLNG	"B'10000000'" Statement label is longer than 8 characters
624	(270)	CHARACTER	768	JRWSCNV	Keyword value
Routing information areas					
1392	(570)	SIGNED	2	JRWXEQND	Default execution node
1394	(572)	SIGNED	2	JRWJRMNO	Device modify node number
1396	(574)	SIGNED	4	JRWDRDT(0)	Source (origin) route code
1396	(574)	SIGNED	2	JRWDRNOD	Node number
1398	(576)	SIGNED	2	JRWDRDTE	Remote number
1400	(578)	SIGNED	4	JRWPRINT(0)	Default print route code
1400	(578)	SIGNED	2	JRWPRNOD	Node number
1402	(57A)	SIGNED	2	JRWPRRTE	Local printer/remote number
1404	(57C)	CHARACTER	8	JRWPRSER	Print userid
1412	(584)	SIGNED	4	JRWPUNCH(0)	Default punch route code
1412	(584)	SIGNED	2	JRWPUNOD	Node number
1414	(586)	SIGNED	2	JRWPURTE	Local punch/remote number
1416	(588)	CHARACTER	8	JRWPUSER	Punch userid
General work/data areas					
1424	(590)	BITSTRING	216	JRWMSG	Input processing msg area
1640	(668)	BITSTRING	128	JRWGRARE	GROUP processing work area
1768	(6E8)	BITSTRING	392	JRWSAFI	SAFINF0 parameter list
2160	(870)	ADDRESS	4	JRWTWA	Address of token work area
2164	(874)	ADDRESS	4	JRWTOKA	Input token for JOBVALM
2168	(878)	ADDRESS	4	JRWJECLT	Addr of JECL table
2172	(87C)	BITSTRING	2	JRWJECKY	JECL validity value (see \$HASPEQU for equates)

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2174	(87E)	BITSTRING	2		Reserved
2176	(880)	ADDRESS	4	JRWJCTSV	JCT address obtained at NJE JOB header time
<p>JRWCLASX is filled in at the beginning of the input processing. It represents the offset within the JCT of the JCTX segment for advanced features. If zero, the offset has not yet been computed. If negative the JCTX is damaged and a message reporting the damage has already been issued (HASP110).</p>					
2180	(884)	SIGNED	4	JRWCLASX	Offset of advanced features JCTX extension extension.
2184	(888)	ADDRESS	4	JRWIOTL	Address of last IOT
2188	(88C)	SIGNED	2	JRWIOTCT	Count of IOT's used
2190	(88E)	BITSTRING	1		Reserved
2191	(88F)	BITSTRING	1	JRWDUBIE	Dubious error indicator
2191	(88F)	X'4'	0	JRWDDUB	"4" Job arrived marked dubious
2191	(88F)	X'8'	0	JRWDOWN	"8" Job from own node
2191	(88F)	X'C'	0	JRWDUNKN	"12" Job from unknown node
2191	(88F)	X'10'	0	JRWDSUB	"16" Subnet job arrived from outside subnet
2191	(88F)	X'14'	0	JRWDDIR	"20" Direct origin via S & F
2191	(88F)	X'18'	0	JRWDADJX	"24" Adjacent and exec node same
2191	(88F)	X'1C'	0	JRWDTKN	"28" SAF token node incorrect
2192	(890)	ADDRESS	4	JRW OCT	Output control table addr
2196	(894)	ADDRESS	4	JRWPOCT	Pending OCT buffer address
2200	(898)	ADDRESS	4	JRWPDDB	Current SYSIN PDDDB address
2204	(89C)	CHARACTER	2	JRWJPRI0	Priority from PRI0 or PRTY=
2206	(89E)	CHARACTER	1	JRWMCLAS	Default msgclass
2207	(89F)	BITSTRING	1	JRWPRINC	Priority increment
2208	(8A0)	BITSTRING	1	JRWPR LIM	Priority limit
2209	(8A1)	BITSTRING	3		Reserved
2212	(8A4)	CHARACTER	8	JRWJCLAS	Default job class
2220	(8AC)	CHARACTER	8	JRWSVCLS	Original job class (Saved)
2228	(8B4)	CHARACTER	8	JRW OJCLS	Override JOBCLASS value
2236	(8BC)	CHARACTER	8	JRWXBMPR	Procname for XBM/2 job
2244	(8C4)	CHARACTER	32	JRWJRUCR	User portion of a Job Correlator
2276	(8E4)	BITSTRING	4	JRWJOBKY	Related job key
2280	(8E8)	CHARACTER	16	JRWSCHEN	SCHENV from JCL
<p>Each byte of JRWJECLV represents the presence of a JECL statement. See RCCTAB/RCCJ3TAB for the offset associated with a particular verb. The values are 0 = not processed, 1 = processed, 2 = warning, 3 = error.</p>					
2296	(8F8)	BITSTRING	32	JRWJECLV	JECL use indicators
2296	(8F8)	X'908'	0	JRWJECL2	"JRWJECLV+16,16" JES2 JECL use
2328	(918)	ADDRESS	4	JRW RCC	Address of the JECL table entry for the current statement
2332	(91C)	SIGNED	4	JRW INJNO	Initial job number
2336	(920)	ADDRESS	4	JRW NJOFF	Address of offload section

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2340	(924)	BITSTRING	1	JRWSAF	System affinity
Password blanking processing fields (used by RPUTSCAN and RPSWSCAN)					
2344	(928)	ADDRESS	4	JRWPRJCB	Current RJCB being scanned
2348	(92C)	ADDRESS	4	JRWP1STR	RJCB with PASSWORD= in it
2352	(930)	ADDRESS	4	JRWP1CHR	Addr 1st char after = sign
2356	(934)	BITSTRING	1	JRWPSWD	PASSWORD processing field
		.... ..1		\$RPASFND	"B'00000001" PASSWORD processed
		.... ..1.		\$RJOBERR	"B'00000010" Error on JOB card
		.... .1..		\$RPSWPRC	"B'00000100" PASSWORD processing
		.... 1...		\$RJOBFND	"B'00001000" JOB card being processed
		...1		\$RPSWCNT	"B'00010000" PASSWORD continuation found in RPUTSCAN routine
		..1.		\$RNPASER	"B'00100000" Encrypted password network protocol error detected
		.1..		\$RPASPHR	"B'01000000" Pass phrase was used
		1...		\$RNPQUOT	"B'10000000" Quoted string password
2357	(935)	BITSTRING	1	JRWPSWD2	Additional password flags
		1...		\$RNPAREN	"B'10000000" PASSWORD=(specified
		.1..		\$RNPQCNT	"B'01000000" Continued quoted string
2358	(936)	BITSTRING	1	JRW1SW1	Input switches
		.1..		JRW1JVFY	"B'01000000" Job has been verified
		..1.		JRW1SREQ	"B'00100000" Submittor token required
		...1		JRW1IXEQ	"B'00010000" Invalid XEQ card detected
		.... 1...		JRW1JKIL	"B'00001000" Job killed via RJOBKILL
		.... .1..		JRW1XBGN	"B'00000100" XBM generated cards added
		.... ..1.		JRW1SAFF	"B'00000010" JOB stmt SYSAFF processed
		.... ....1		JRW1SYS	"B'00000001" JOB stmt SYSTEM processed
2359	(937)	BITSTRING	1	JRW1SW2	Input switches
		1...		JRW2JSRD	"B'10000000" At least one JOB stmt read since the last physical EOF
		.1..		JRW2IND	"B'01000000" Independent mode
		..1.		JRW2XMIT	"B'00100000" Off - XMIT allowed after job or comment cards On - XMIT not allowed
		...1		JRW2JCLH	"B'00010000" TYPRUN=JCLHOLD
		.... 1...		JRW2JBON	"B'00001000" \$HASP100 msg issued
		.... .1..		JRW2COPY	"B'00000100" TYPRUN=COPY flag
		.... ..1.		JRW2ASAF	"B'00000010" System affinity from MVS
		.... ....1		JRW2JCAN	"B'00000001" NJE job cancel switch
2360	(938)	BITSTRING	1	JRW1SW3	Input switches
		1...		JRW3MAIN	"B'10000000" SRIP caller main task
		.1..		JRW3SUBT	"B'01000000" SRIP caller sub task

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1.		JRW3USER	"B'00100000'" SRIP caller user space
		...1		JRW3MULT	"B'00010000'" Multiple job cards found
		.... 1...		JRW3SHLD	"B'00001000'" Hold job for spof smf
		.... .1..		JRW3JHLD	"B'00000100'" Device TYPRUN=HOLD
		.... ..1.		JRW3DHDR	"B'00000010'" An NJE header has had its processing deferred
2361	(939)	BITSTRING	1	JRW4SW4	Input switches
		1...		JRW4JCLE	"B'10000000'" Job contains a JECL error
		.1..		JRW4XBCH	"B'01000000'" Xeq batch monitor cls job
		..1.		JRW4SYSN	"B'00100000'" Use SYSIN PUT parms
		...1		JRW4PRES	"B'00010000'" Prescan call to RCARDSCN
2362	(93A)	BITSTRING	1	JRW5W5	Input switches
		...1		JRW5E20T	"B'00010000'" Job terminated by exit 20
JES3 JECL processing switches					
2363	(93B)	BITSTRING	1	JRW5W6	JES3 JECL switches
		1...		JRW6NET	"B'10000000'" / NET stmt processed
		.1..		JRW6OUT1	"B'01000000'" First card image for this / FORMAT added to RJC queue
		..1.		JRW6EXEC	"B'00100000'" First EXEC or INCLUDE JCL statement seen
		...1		JRW6TRAK	"B'00010000'" Tracking done for this job
2364	(93C)	BITSTRING	4		Reserved for future use
Fields used for JES3 / FORMAT statements					
2368	(940)		2	JRWOLABL	OUTPUT statement number
2370	(942)	BITSTRING	1	JRWMXIND	Reason for terminating input - see JQXMXIND for possible values
2371	(943)	SIGNED	1	JRWNEXTQ	Next phase of processing
2372	(944)	BITSTRING	1	JRWDELRS	"JOB DELETED" reason code
2372	(944)	X'1'	0	JRWDJOBC	"1" Illegal JOB card
2372	(944)	X'2'	0	JRWDXIT4	"2" EXIT 4 illegal cntrl card
2372	(944)	X'3'	0	JRWDCONT	"3" Error on continuation
2372	(944)	X'4'	0	JRWDDelp	"4" DEL or PURGE JECL
2372	(944)	X'5'	0	JRWDOPER	"5" Operator command
2372	(944)	X'6'	0	JRWDERR	"6" Processing error
2372	(944)	X'7'	0	JRWDIOER	"7" I/O error
2372	(944)	X'8'	0	JRWDJECL	"8" Illegal JECL card
2372	(944)	X'9'	0	JRWDXEQN	"9" Illegal execution node
2372	(944)	X'A'	0	JRWDSYSN	"10" Excessive SYSIN stmts
2372	(944)	X'B'	0	JRWDSTOP	"11" Device canceled or stoped
2372	(944)	X'C'	0	JRWDACCT	"12" Illegal acct field JOB card
2372	(944)	X'D'	0	JRWDSAF	"13" Unsupported SAF return code

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2372	(944)	X'E'	0	JRWDPROT	"14" NJE protocol error
2372	(944)	X'F'	0	JRWDXMIT	"15" JCL XMIT card error
2372	(944)	X'10'	0	JRWDDATA	"16" JCL DD DATA card error
2372	(944)	X'11'	0	JRWDJSMT	"17" Job symbols not spooled
2372	(944)	X'12'	0	JRWDCNGR	"18" Error on GROUP card continuation
2372	(944)	X'13'	0	JRWDJNAL	"19" Not allowed JECL card
2372	(944)	X'14'	0	JRWDENCV	"20" Encryption validation err
2372	(944)	X'15'	0	JRWDRSLE	"21" Resource limit error
2372	(944)	X'16'	0	JRWDAISS	"22" AIS symbol error
Reason codes in this byte need to be added to HASP119 msg					
2373	(945)	BITSTRING	1	JRWACCTL	Length of accounting string
2374	(946)	BITSTRING	1	JRWRAUTH	Reader command authority
2375	(947)	SIGNED	1	JRWDLML	Machine length of DLM
2376	(948)	CHARACTER	18	JRWDLM	Input data set delimiter
2400	(960)	DBL WORD	8	(0)	Align
2400	(960)	CHARACTER	64	JRWDSLAB	Input SYSIN DSKEYLBL label
2464	(9A0)	BITSTRING	1	JRWDSKEL	Length of JRWDSLAB
2465	(9A1)	SIGNED	1	JRWDSNL	Length of DSN
2466	(9A2)	CHARACTER	8	JRWDSN	Data set DSNNAME
2474	(9AA)	BITSTRING	1	JRWFLAGX	Reader exits flag byte
		.... ...1		JRWXJCL	"B'00000001" JCL card detected
2474	(9AA)	X'1'	0	RDWXJCL	"JRWXJCL" Compatibility
		.... ..1.		JRWXJECL	"B'00000010" JECL card detected
2474	(9AA)	X'2'	0	RDWXJECL	"JRWXJECL" Compatibility
		.... .1..		JRWXJOBC	"B'00000100" JOB card detected
2474	(9AA)	X'4'	0	RDWXJOBC	"JRWXJOBC" Compatibility
		.... 1...		JRWXCONT	"B'00001000" Continuation card detected
2474	(9AA)	X'8'	0	RDWXCONT	"JRWXCONT" Compatibility
		...1		JRWXXSNC	"B'00010000" Exit supplied next card
2474	(9AA)	X'10'	0	RDWXXSNC	"JRWXXSNC" Compatibility
		..1.		JRWXXSEM	"B'00100000" Exit supplied error message
2474	(9AA)	X'20'	0	RDWXXSEM	"JRWXXSEM" Compatibility
		.1..		JRWXJOBP	"B'01000000" JOBPARM card detected
2474	(9AA)	X'40'	0	RDWXJOBP	"JRWXJOBP" Compatibility
JECL processing options for the job Bits should be defined the same as X002ECLT, X052ECLT, X003ECLT and X053ECLT					
2475	(9AB)	BITSTRING	1	JRWECLT	Job JECL processing:
		1...		JRWECLJ2	"B'10000000" Process JES2 JECL
		.1..		JRWECLJ3	"B'01000000" Process JES3 JECL
JECL processing options for JES2 and JES3. Format is the same as \$J2CLOPT and \$J2CLOPT in \$HCT					

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2476	(9AC)	SIGNED	4	JRWJ2CLO(0)	JES2 JECL options
2476	(9AC)	X'9AC'	0	JRWJ2CL1	"JRWJ2CLO+0,1" first byte of JRWJ2CLO
2476	(9AC)	X'9AD'	0	JRWJ2CL2	"JRWJ2CLO+1,1" second byte of JRWJ2CLO
2476	(9AC)	X'9AE'	0	JRWJ2CL3	"JRWJ2CLO+2,1" third byte of JRWJ2CLO
2476	(9AC)	X'9AF'	0	JRWJ2CL4	"JRWJ2CLO+3,1" fourth byte of JRWJ2CLO
2480	(9B0)	BITSTRING	4	JRWJ3CLO	JES3 JECL options
2484	(9B4)	ADDRESS	4	JRWENTRY	Addr of entry point vector
For internal readers, information on the submitter					
2488	(9B8)	CHARACTER	8	JRWSJBID	Id of current owner
2496	(9C0)	CHARACTER	8	JRWSJNAM	Name of current owner
2504	(9C8)	CHARACTER	8	JRWSUSR	'USER' from owner's ACEE
2512	(9D0)	CHARACTER	8	JRWSGRP	'GROUP' from owner's ACEE
Information on last record read (RGET or passed to reader processing)					
2520	(9D8)	BITSTRING	1	JRWINFLG	Input record flags
2521	(9D9)	BITSTRING	1	JRWCTL	Carriage control
2522	(9DA)	SIGNED	2	JRWCDLRL	Card logical record length
2522	(9DA)	X'9DB'	0	JRWCDLRL1	"JRWCDLRL+1,1,C'X'" One byte LRECL for HASPRDR
2524	(9DC)	ADDRESS	4	JRWRECRD	Record address
LRECL and RECFM information					
2528	(9E0)	BITSTRING	1	JRWCDLEN	Card length
2529	(9E1)	BITSTRING	1	JRWCDLRC	Card logical record control byte
2530	(9E2)	SIGNED	2	JRWDEFLR	Default LRECL for SYSIN DS
2532	(9E4)	BITSTRING	1	JRWDEFRRF	Default RECFM for SYSIN DS, bits defined in DCB under DCBRECFM
2533	(9E5)	BITSTRING	1	JRWUDFRF	Ultimate default RECFM for SYSIN datasets for the job
2534	(9E6)	SIGNED	2	JRWMAXRL	Longest sysin record scanned so far
2536	(9E8)	SIGNED	2	JRWUDFLR	Ultimate default LRECL for SYSIN datasets for the job
2540	(9EC)	SIGNED	4	JRWDSKEY	Data set key
Estimates for LINES/BYTES/CARDS/PAGES scanned from the job statement.					
2544	(9F0)	SIGNED	4	JRWESTLN	Line estimate
2548	(9F4)	SIGNED	4	JRWESTPU	Punch estimate
2552	(9F8)	SIGNED	4	JRWESTPG	Page estimate
2556	(9FC)	SIGNED	4	JRWESTBY	Byte estimate
2560	(A00)	BITSTRING	1	JRWESTL2	Second parm of LINES set
2561	(A01)	BITSTRING	1	JRWESTC2	Second parm of CARDS set
2562	(A02)	BITSTRING	1	JRWESTP2	Second parm of PAGES set
2563	(A03)	BITSTRING	1	JRWESTB2	Second parm of BYTES set

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2563	(A03)	X'9F0'	0	JRWESTXX	"JRWESTLN,*-JRWESTLN" Length of all estimate flds
2564	(A04)	ADDRESS	4	JRWTCB	Owning TCB
2568	(A08)	DBL WORD	8	JRWTEMP	Double word work area
<p>The following list represents entry points to routines that are environment peculiar. Users of routines in SRIP must fill in the addresses with entry point values that support the function. If the function is not supported in a particular environment, then the address is left as zero.</p>					
2576	(A10)	ADDRESS	4	JRW_BASE(0)	First routine address
2576	(A10)	ADDRESS	4	JRW_RJQEUPD	JQE update routine
2580	(A14)	ADDRESS	4	JRW_RCLSSYSI	Close open SYSIN data set
2584	(A18)	ADDRESS	4	JRW_WRTBUFERS	Write out buffers to SP00L
2588	(A1C)	ADDRESS	4	JRW_WRJCTIOT	Finish write of JCT/IOTs
2592	(A20)	ADDRESS	4	JRW_RWRTJOB	Ensure tracks obtained
2596	(A24)	ADDRESS	4	JRW_RQMODJOB	\$QMOD JQE to proper queue
2600	(A28)	ADDRESS	4	JRW_RJOBWTO	Job Receiver Notification
2604	(A2C)	ADDRESS	4	JRW_RJCBPROC	Process Q'ed Msgs/CMB JRCBs
2608	(A30)	ADDRESS	4	JRW_RJCTTERM	JCT cleanup
2612	(A34)	ADDRESS	4	JRW_JCLINS	Deal with JCL insert
2612	(A34)	X'A10'	0	JRW_LIST	"JRW_BASE,*-JRW_BASE" Environment list
2616	(A38)	SIGNED	4	(5)	Reserved
2640	(A50)	DBL WORD	8	(0)	
2640	(A50)	DBL WORD	8	(0)	Force Dword alignment
2640	(A50)	BITSTRING	48	JRWCRTSY	Parm block for HASPRDDS.
2688	(A80)	CHARACTER	1	JRWOPNSP	Open spool parm list
Work areas for parsing notification parameters					
2720	(AA0)	SIGNED	4	(0)	Alignment
2720	(AA0)	CHARACTER	8	JRWWNODE	Node name work area
2728	(AA8)	CHARACTER	8	JRWUSER	User id work area
2736	(AB0)	BITSTRING	1	JRWWAFF	Affinity work area
2737	(AB1)	BITSTRING	1	JRWWTYPE	Notification type see JSFTYPE in \$JSMT
2738	(AB2)	SIGNED	2	JRWWEMLL	Length of data in JRWEML
2740	(AB4)	CHARACTER	256	JRWWEML	Email address work area
2996	(BB4)	BITSTRING	64	JRWWRPN	RPN area for WHEN=
3060	(BF4)	BITSTRING	1	JRWWRPNL	RPN size
3061	(BF5)	BITSTRING	3		Reserved
3064	(BF8)	ADDRESS	4	JRWWNFBM	NOTIFY statement bookmark
<p>JRWNFYT points to a table with data from all NOTIFY statements in a job. This is a symbol table in the format mapped by IASYMDF. Symbols in the table are SYS_NOTIFYnn - see JSMNFY in \$JSMT.</p>					
3068	(BFC)	ADDRESS	4	JRWNFYT	Ptr to NOTIFY table
3072	(C00)	BITSTRING	1	JRWNFYF	Notification control flags

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1...		JRWNF SUI	"B'10000000'" pending &SYSUID substitution
3073	(C01)	BITSTRING	1		Reserved
3074	(C02)	SIGNED	2	JRWSASID	ASID of address space doing job input processing
3076	(C04)	ADDRESS	4	JRWJSONW	\$JSON work area
Bookmarks for placing delayed messages in correct logical sequence in JESJCLIN					
3080	(C08)	ADDRESS	4	JRWBKREQ	Bookmark request (ptr to bookmark ptr)
3084	(C0C)	ADDRESS	4	JRWJBMRK	Bookmark control for post JOB card insert
3088	(C10)	ADDRESS	4	JRWNBMRK	Bookmark control for post / NET card insert
3092	(C14)	ADDRESS	4	JRWSJB	SJB address
3096	(C18)	ADDRESS	8	JRW RGPTR	Pointer to RGDC entry for the job - set if job was assigned to a resgroup
3104	(C20)	BITSTRING	32	JRWRMET	Temp rsrc management entry
3136	(C40)	DBL WORD	8	(0)	Alignment
3136	(C40)	X'C40'	0	JRWCMLN	"*-JRW" Length of common JRW
The following fields exist only in a JRW that is in JES2 address space (RDR, NJE over SNA/BSC, offload, etc.)					
3136	(C40)	DBL WORD	8	JRWMTARA(0)	Start of area
Resource management entry for SP00L/TGs mapped by LRMENTRY in \$RESGRP.					
3136	(C40)	BITSTRING	32	JRWTGRME	TG rsrc management entry
3168	(C60)	DBL WORD	8	(0)	Alignment
3168	(C60)	X'C60'	0	JRWLEN	"*-JRW" Length of area
The following fields exist only in a JRW that is not in the JES2 address space (NETSERV, INTRDR, Request JOBID, etc)					
3136	(C40)	ADDRESS	4	JRWSAVEA	JRW save area stack
3140	(C44)	SIGNED	4	JRWHRGSV(4)	High half R14-R1 save area
3156	(C54)	SIGNED	4	JRWARGSV(4)	AR14-AR1 save area
3172	(C64)	BITSTRING	200	JRWPJCL	JCLIN data set parm list
3372	(D2C)	BITSTRING	200	JRWPSYSN	SYSIN data set parm list
3572	(DF4)	ADDRESS	4	JRWPCUR	Last JRWPUTPL used in I/O
3576	(DF8)	ADDRESS	4	(4)	Reserved
3592	(E08)	BITSTRING	1	JRWNFLG1	Status flags
		1...		JRWN1ERR	"B'10000000'" Processing detected error
3593	(E09)	BITSTRING	1	JRWNFLG2	Status flags
3594	(E0A)	BITSTRING	6		Reserved
3600	(E10)	ADDRESS	8	JRWRJQE	Real JQE address in live
3608	(E18)	SIGNED	4	JRWRJQEA	version and ALET
3612	(E1C)	BITSTRING	4		Reserved

Table 286. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3616	(E20)	DBL WORD	8	(0)	Align
3616	(E20)	X'E20'	0	JRWCLLEN	"*-JRW" Length of JRW in NETSRV address space
3616	(E20)	X'388'	0	JRWWORDS	"JRWCLLEN/4" Largest JRW size in words.

Table 287. Structure RCSL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RCSL	, Reader card scan DSECT
0	(0)	CHARACTER	12	RCSLKEY	Keyword
12	(C)	ADDRESS	4	RCSLRTN	Processing routine
16	(10)	BITSTRING	1	RCSLPOSN	Positional parm number (0 implies all positional)
17	(11)	BITSTRING	1	RCSLFLG1	Flag byte
		1...		RCSL1ASI	"B'10000000'" Leave apostrophes as is
		.1..		RCSL1NSP	"B'01000000'" Leave enclosing parens
		..1.		RCSL1REQ	"B'00100000'" Required operand
		...1		RCSL1BLK	"B'00010000'" Skip blanks after keyword
		.... 1...		RCSL1LST	"B'00001000'" Value is a list
		.... .1..		RCSL1ALI	"B'00000100'" Keyword is an alias of prior keyword
		.... ..1.		RCSL1NAL	"B'00000010'" Keyword is an alias of next keyword
18	(12)	BITSTRING	1	RCSLLSIZ	List element size
19	(13)	BITSTRING	1		Reserved
19	(13)	X'14'	0	RCSLELEN	"*-RCSL" Length of table entry

Table 288. Structure JRWPUTPL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JRWPUTPL	, CPUT parameter list DSECT
0	(0)	ADDRESS	4	JRWPLACB	ACB address
4	(4)	ADDRESS	4	JRWPLRPL	RPL address
8	(8)	ADDRESS	4	JRWPLDEB	DEB address
12	(C)	ADDRESS	4	JRWPLSDB	SDB address
16	(10)	ADDRESS	4	JRWPLREC	IAZYTDBC or record to put
24	(18)	DBL WORD	8	JRWPTMP	8 byte work area
32	(20)	BITSTRING	1	JRWPLCC	Carriage control
33	(21)	BITSTRING	1	JRWPLLRC	LRC to be used
34	(22)	SIGNED	2	JRWPLRCL	Record LRECL
36	(24)	CHARACTER	64	JRWPELBL	Input SYSIN DSKEYLBL label
100	(64)	BITSTRING	1	JRWPLENG	Length of JRWPELBL
101	(65)	BITSTRING	1	JRWPDNL	Length of JRWPDNL
102	(66)	CHARACTER	8	JRWPDNL	Data set DSNAME
110	(6E)	BITSTRING	1	JRWPLFG1	Control flags
		1...		JRWPL1DB	"B'10000000'" JRWPLREC points to a IAZYTDBC with record

Table 288. Structure JRWPUTPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JRWPL1AS	"B'01000000'" Use ASYNC put (ie NETSRV)
		..1.		JRWPL1TR	"B'00100000'" Truncate current buffer
		...1		JRWPL1JL	"B'00010000'" JCL data set (will be read by converter)
Work areas used by CPUT and close processing					
111	(6F)	BITSTRING	1	JRWPLFG2	Data flag byte
		1...		JRWPL2FR	"B'10000000'" At least one record proc
		.1..		JRWPL2VA	"B'01000000'" Record sized vary
		..1.		JRWPL2CA	"B'00100000'" ASA control character found
		...1		JRWPL2CM	"B'00010000'" Machine control chars found
112	(70)	SIGNED	2	JRWPLMLR	Max LRECL seen by CPUT
114	(72)	BITSTRING	2		Reserved
116	(74)	SIGNED	4	(0)	Align
116	(74)	SIGNED	4	(21)	Reserved
116	(74)	X'C8'	0	JRWPLSIZ	"*-JRWPUTPL" Parameter list size

Table 289. Structure JRWGRP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRWGRP	, JOB GROUP DSECT
0	(0)	CHARACTER	8	JRWGRPNM	GROUP/ZOD name if JRWGFLA1 -> JRW1GROP.
8	(8)	ADDRESS	4	JRWKADD	Address of work addr used for / NET STMT processing
12	(C)	BITSTRING	4		Alignment
16	(10)	ADDRESS	8	JRWZOD	Address of ZOD associated with GRUP
24	(18)	CHARACTER	8	JRWJOBNM	Name of last GJOB or JOBSET processed
32	(20)	CHARACTER	8	JRWTEMPX	Work variable
40	(28)	CHARACTER	80	JRWNAMAR	BEFORE/AFTER/CONCURRENT name array
120	(78)	SIGNED	4	JRWNUMEN	Number of entries in JRWNAMAR array
124	(7C)	BITSTRING	1	JRWGFLA1	Group JCL parsing status
		1...		JRW1GRER	"B'10000000'" An error has been encountered and the GROUP must not live on.
		.1..		JRW1SCAN	"B'01000000'" TYPE=SCAN was specified on GROUP card
		..1.		JRW1GROP	"B'00100000'" A valid JOB GROUP is being processed - ZOD exists. Native JEC group.
		...1		JRW1PRVV	"B'00010000'" Previous card (GJOB or JOBSET) was valid. See JRWPRVCD to determine type of previous card
		.... 1..		JRW1ANYF	"B'00001000'" ANYFLUSH specified on GJOB or JOBSET denoted by JRWJOBNM
		.... .1..		JRW1ALLF	"B'00000100'" ALLFLUSH specified on GJOB or JOBSET
		.... ..1.		JRW1BAOK	"B'00000010'" Before OR After name= processing was successful

Table 289. Structure JRWGRP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		JRW1SJOB	"B'00000001'" Current JOBSET - at least one SJOB seen
125	(7D)	BITSTRING	1	JRWPRVCD	Previous card processed.
		.... ....		JRWNOTAP	"X'00'" Previous card not relevant
		.... ...1		JRWACTGJ	"X'01'" GJOB was previous card
		.... ..1.		JRWACTJS	"X'02'" JOBSET was previous card
125	(7D)	X'8'	0	JRWNAMSZ	"8" Size of a NAME array entry
125	(7D)	X'A'	0	JRWNAME#	"10" Number of NAME array entries
126	(7E)	BITSTRING	1	JRWGFLA2	Flag 2
		1...		JRW2ENDG	"B'10000000'" End group card seen
		.1..		JRW2NETZ	"B'01000000'" Job associated with / NET STMT
127	(7F)	BITSTRING	1		Slack byte
128	(80)	SIGNED	4	(0)	Align
128	(80)	X'80'	0	JRWGRSIZ	"*-JRWGRP" Group JRW size

Table 290. Structure BOOKMRK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BOOKMRK	, Bookmark management
0	(0)	CHARACTER	4	BMREYE	Eye catcher
4	(4)	BITSTRING	8	BMKRBA	RBA for block of insertion
4	(4)	X'4'	0	BMRKMQTR	"BMKRBA,6" MQTR of block of insertion
12	(C)	BITSTRING	4	BMRKM TTR	MTTR of block after insert
12	(C)	X'10'	0	BMRKLEN	"*-BOOKMRK" Length of block

Table 291. Cross Reference for \$JRW

Name	Offset	Hex	Tag
\$RJOBERR	934		2
\$RJOBFND	934		8
\$RNPAREN	935		80
\$RNPASER	934		20
\$RNPQCNT	935		40
\$RNPQUOT	934		80
\$RPASFND	934		1
\$RPASPHR	934		40
\$RPSWCNT	934		10
\$RPSWPRC	934		4
BMREYE	0	C2D4D9D2	
BMRKLEN	C		10
BMRKMQTR	4		4
BMRKM TTR	C		
BMKRBA	4		

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
BOOKMRK	0	
JRW	0	
JRW\$DATA	91	8
JRW\$DSH	91	20
JRW\$DST	91	10
JRW\$EOF	91	4
JRW\$EXP	90	
JRW\$JES2	91	2
JRW\$JH	91	80
JRW\$JT	91	40
JRW\$LST	91	
JRW\$SPOF	91	1
JRW_BASE	A10	
JRW_JCLINS	A34	
JRW_LIST	A34	A10
JRW_RCLSSYSI	A14	
JRW_RJCBPROC	A2C	
JRW_RJCTTERM	A30	
JRW_RJOBWTO	A28	
JRW_RJQEUPD	A10	
JRW_RQMODJOB	A24	
JRW_RWRTJOB	A20	
JRW_WRJCTIOT	A1C	
JRW_WRTBUFRS	A18	
JRWACCTL	945	
JRWACTGJ	7D	1
JRWACTJS	7D	2
JRWAREA	20	
JRWARGSV	C54	
JRWAWRK	1BD	
JRWBKREQ	C08	
JRWCCTL	9D9	
JRWCDLEN	9E0	
JRWCDLRC	9E1	
JRWCDLRL	9DA	
JRWCDLR1	9DA	9DB
JRWCHKSM	24C	
JRWCLASX	884	
JRWCLEAR	90	48

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWCLEN	E20	E20
JRWCLRST	48	
JRWCMLEN	C40	C40
JRWCPSWK	95	
JRWCRSV1	12	
JRWCRSV2	6D	
JRWCRTSY	A50	0
JRWCUREC	60	
JRWDACCT	944	C
JRWDADJX	88F	18
JRWDAISS	944	16
JRWDBL	78	
JRWDBLE	80	
JRWDBLE1	88	
JRWDCNGR	944	12
JRWDCONT	944	3
JRWDDATA	944	10
JRWDDELP	944	4
JRWDDIR	88F	14
JRWDDUB	88F	4
JRWDEFLR	9E2	
JRWDEFRF	9E4	
JRWDELRS	944	
JRWDENCV	944	14
JRWDERR	944	6
JRWDEVID	F	
JRWDEVN	4	
JRWDEVTP	E	
JRWDIOER	944	7
JRWDJECL	944	8
JRWDJNAL	944	13
JRWDJOBC	944	1
JRWDJSMT	944	11
JRWDLM	948	
JRWDLML	947	
JRWDOPER	944	5
JRWDOWN	88F	8
JRWDPROT	944	E
JRWDRSLE	944	15

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWDSAF	944	D
JRWDSKEL	9A0	
JRWDSKEY	9EC	
JRWDSLAB	960	
JRWDSN	9A2	
JRWDSNL	9A1	
JRWDSTOP	944	B
JRWDSUB	88F	10
JRWDSYSN	944	A
JRWDTKN	88F	1C
JRWDUBIE	88F	
JRWDUNKN	88F	C
JRWDXEQN	944	9
JRWDXIT4	944	2
JRWDXMIT	944	F
JRWEBCCC	30	
JRWECLJ2	9AB	80
JRWECLJ3	9AB	40
JRWECLT	9AB	
JRWEMAIL	A2	
JRWEMALL	A0	
JRWEMPLWA	1A4	
JRWEMPLWZ	1A8	
JRWENSRV	9E	10
JRWENTRY	9B4	
JRWENVIR	9E	
JRWERDR	9E	0
JRWESBMT	9E	18
JRWESTBY	9FC	
JRWESTB2	A03	
JRWESTC2	A01	
JRWESTLN	9F0	
JRWESTL2	A00	
JRWESTPG	9F8	
JRWESTPU	9F4	
JRWESTP2	A02	
JRWESTXX	A03	9F0
JRWEUSER	9E	8
JRWEYE	0	D1D9E640

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWFDJRW	1E0	
JRWFLAGN	9D	
JRWFLAGX	9AA	
JRWFLAG2	92	
JRWFLAG3	93	
JRWFLAG4	94	
JRWFLAG5	96	
JRWFLAG6	97	
JRWFLAG7	98	
JRWFLAG8	99	
JRWFLAG9	9A	
JRWGFLA1	7C	
JRWGFLA2	7E	
JRWGRARE	668	
JRWGRP	0	
JRWGRPNM	0	
JRWGRSIZ	80	80
JRWHRGSV	C44	
JRWINFLG	9D8	
JRWINJNO	91C	
JRWIOT	50	
JRWIOTBF	50	50
JRWIOTCT	88C	
JRWIOTL	888	
JRWJBMRK	C0C	
JRWJCLAS	8A4	
JRWJCT	4C	
JRWJCTSV	880	
JRWJECKY	87C	
JRWJECLT	878	
JRWJECLV	8F8	
JRWJECL2	8F8	908
JRWJOBID	64	
JRWJOBKY	8E4	
JRWJOBNM	18	
JRWJPRI0	89C	
JRWJQA	48	
JRWJQE	48	48
JRWJRMNO	572	

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWJRUCR	8C4	
JRWJSONW	C04	
JRWJ2CLO	9AC	
JRWJ2CL1	9AC	9AC
JRWJ2CL2	9AC	9AD
JRWJ2CL3	9AC	9AE
JRWJ2CL4	9AC	9AF
JRWJ3CLO	9B0	
JRWLAJRW	1E8	
JRWLEN	C60	C60
JRWMAXRL	9E6	
JRWMCLAS	89E	
JRWMSG	590	
JRWMTARA	C40	
JRWMSRE	9B	1F
JRWMSRL	9B	
JRWMS22	9B	20
JRWMS23	9B	40
JRWMS24	9B	80
JRWMXIND	942	
JRWNACCT	9D	40
JRWNAMAR	28	
JRWNAME#	7D	A
JRWNAMSZ	7D	8
JRWNBLDG	9D	20
JRWNBMRK	C10	
JRWNDEPT	9D	10
JRWNECBI	6C	7
JRWNECLO	6C	5
JRWNEGG	6C	A
JRWNEIOE	6C	6
JRWNEJOB	6C	1
JRWNEJOE	6C	2
JRWNENJH	6C	8
JRWNEOPE	6C	4
JRWNERRC	6C	
JRWNERSL	6C	D
JRWNESAF	6C	C
JRWNESEQ	6C	9

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWNESJF	6C	B
JRWNESUB	6C	3
JRWNEXTQ	943	
JRWNFLG1	E08	
JRWNFLG2	E09	
JRWNFSUI	C00	80
JRWNFYF	C00	
JRWNFYT	BFC	
JRWNITAD	34	
JRWNITAL	38	
JRWNITBL	3C	
JRWNJH	54	
JRWNJOFF	920	
JRWNJT	58	
JRWNOTAP	7D	0
JRWNPNAM	9D	80
JRWNR00M	9D	8
JRWNSST	24	
JRWNUMEN	78	
JRWUSER	9D	4
JRWNXJRW	1E4	
JRWN1ERR	E08	80
JRW0CT	890	
JRW0JCLS	8B4	
JRW0LABL	940	
JRWOPNSP	A80	
JRWPARCT	22E	
JRWPAREA	1C	
JRWPCUR	DF4	
JRWPDDb	898	
JRWPDSN	66	
JRWPDSNL	65	
JRWPELBL	24	
JRWPIW	1B0	
JRWPJCL	C64	
JRWPLACB	0	
JRWPLCC	20	
JRWPLDEB	8	
JRWPLENG	64	

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWPLFG1	6E	
JRWPLFG2	6F	
JRWPLLR	21	
JRWPLMLR	70	
JRWPLRCL	22	
JRWPLREC	10	
JRWPLRPL	4	
JRWPLSDB	C	
JRWPLSIZ	74	C8
JRWPL1AS	6E	40
JRWPL1DB	6E	80
JRWPL1JL	6E	10
JRWPL1TR	6E	20
JRWPL2CA	6F	20
JRWPL2CM	6F	10
JRWPL2FR	6F	80
JRWPL2VA	6F	40
JRWPOCT	894	
JRWPRINC	89F	
JRWPRINT	578	
JRWPRJCB	928	
JRWPR LIM	8A0	
JRWPRNOD	578	
JRWPRRTE	57A	
JRWPRSER	57C	
JRWPRVCD	7D	0
JRWPSWD	934	
JRWPSWD2	935	
JRWPSYSN	D2C	
JRWPTMP	18	
JRWPUNCH	584	
JRWPUNOD	584	
JRWPURTE	586	
JRWPUSER	588	
JRWPUTPL	0	
JRWP1CHR	930	
JRWP1STR	92C	
JRWRAUTH	946	
JRWRCC	918	

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWRCOUN	5C	
JRWDRNOD	574	
JRWDRDT	574	
JRWDRTE	576	
JRWRECRD	9DC	
JRWRGPTR	C18	
JRWRJCB	1EC	
JRWRJCBB	208	
JRWRJCBC	210	
JRWRJCBD	20C	
JRWRJCBF	1F4	
JRWRJCBI	214	
JRWRJCBM	204	
JRWRJCBN	1F0	
JRWRJCBO	218	
JRWRJCBP	200	
JRWRJCBS	1FC	
JRWRJCBX	1F8	
JRWRJCB1	1EC	
JRWRJCFS	1F4	C
JRWRJCNM	218	C
JRWRJQE	E10	
JRWRJQEA	E18	
JRWRJSIZ	218	30
JRWKADD	8	
JRWRMET	C20	
JRWSCER	26E	
JWRSCKY	26E	2
JWRSNA	25C	
JWRSNKN	250	
JWRSNKNL	268	
JWRSNKNM	26C	
JWRSNKNP	26A	
JWRSNKNV	270	
JWRSNKNOP	26E	1
JWRSNKNFL1	26F	
JWRSNKNLNG	26F	80
JWRSNKNSAF	924	
JWRSNKNSAFI	6E8	

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWSASID	C02	
JRWSAVEA	C40	
JRWSCHEN	8E8	
JRWSGRP	9D0	
JRWSJB	C14	
JRWSJBID	9B8	
JRWSJNAM	9C0	
JRWSQD	18	
JRWSTIML	1C0	0
JRWSTMT	224	
JRWSTMTC	248	
JRWSTMTE	228	
JRWSTMTL	240	
JRWSTMTS	22C	
JRWSTMTV	230	
JRWSUSR	9C8	
JRWSVCLS	8AC	
JRWSW1	936	
JRWSW2	937	
JRWSW3	938	
JRWSW4	939	
JRWSW5	93A	
JRWSW6	93B	
JRWTAREA	2C	
JRWTBUF	28	
JRWTCB	A04	
JRWTEMP	A08	
JRWTEMPX	20	
JRWTGRME	C40	
JRWTMP32	1C0	
JRWTMP8	1B8	
JRWTOKA	874	
JRWTWA	870	
JRWUDFLR	9E8	
JRWUDFRF	9E5	
JRWWAFF	AB0	
JRWWAVE	14	
JRWWEML	AB4	
JRWWEMLL	AB2	

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRWWNFBM	BF8	
JRWWNODE	AA0	
JRWWORDS	E20	388
JRWWRK16	88	80
JRWWRK24	88	78
JRWWRPN	BB4	
JRWWRPNL	BF4	
JRWWTYPER	AB1	
JRWUSER	AA8	
JRWXBMPR	8BC	
JRWXCONT	9AA	8
JRWXDATE	44	
JRWXEQND	570	
JRWXJCL	9AA	1
JRWXJECL	9AA	2
JRWXJOBC	9AA	4
JRWXJOBP	9AA	40
JRWXTIME	40	
JRWXXSEM	9AA	20
JRWXXSNC	9AA	10
JRWZOD	10	
JRW1ALLF	7C	4
JRW1ANYF	7C	8
JRW1BAOK	7C	2
JRW1GRER	7C	80
JRW1GROP	7C	20
JRW1IXEQ	936	10
JRW1JKIL	936	8
JRW1JVFY	936	40
JRW1PRVV	7C	10
JRW1SAFF	936	2
JRW1SCAN	7C	40
JRW1SJOB	7C	1
JRW1SREQ	936	20
JRW1SYS	936	1
JRW1XBGH	936	4
JRW2ASAF	937	2
JRW2CMNT	92	2
JRW2CNTS	92	E

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRW2CONT	92	8
JRW2COPY	937	4
JRW2DATA	92	40
JRW2ENDG	7E	80
JRW2IND	937	40
JRW2JBON	937	8
JRW2JCAN	937	1
JRW2JCL	92	20
JRW2JCLH	937	10
JRW2JECL	92	10
JRW2JSRD	937	80
JRW2NETZ	7E	40
JRW2QUOT	92	4
JRW2SPCN	92	1
JRW2SYSN	92	80
JRW2XMIT	937	20
JRW3DHDR	938	2
JRW3FAIL	93	10
JRW3FE0F	93	20
JRW3FLSH	93	40
JRW3JHLD	938	4
JRW3MAIN	938	80
JRW3MULT	938	10
JRW3PURG	93	1
JRW3SHLD	938	8
JRW3SKGT	93	8
JRW3SKIP	93	80
JRW3STNF	93	4
JRW3SUBT	938	40
JRW3USER	938	20
JRW3XMIT	93	2
JRW4FBCL	94	4
JRW4FJCE	94	8
JRW4ILCB	94	10
JRW4ILCD	94	40
JRW4ILLC	94	80
JRW4JCLE	939	80
JRW4JQSA	94	20
JRW4NOCL	94	2

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRW4PRES	939	10
JRW4SYSN	939	20
JRW4XBCH	939	40
JRW5AVF	96	4
JRW5CERR	96	8
JRW5E20T	93A	10
JRW5GRP	96	2
JRW5GRPH	96	1
JRW5JCPR	96	40
JRW5JPPR	96	80
JRW50FLF	96	10
JRW5UCRS	96	20
JRW5WRK	1B8	
JRW6EXEC	93B	20
JRW6ICSC	97	40
JRW6JBAD	97	20
JRW6JES3	97	4
JRW6JS3A	97	2
JRW6LERR	97	1
JRW6MSGP	97	10
JRW6NET	93B	80
JRW6OUT1	93B	40
JRW6SKIP	97	8
JRW6SPAR	97	80
JRW6TRAK	93B	10
JRW7EMLI	98	40
JRW7ESSM	98	1
JRW7GRPC	98	10
JRW7LOG	98	8
JRW7NET	98	4
JRW7NFDT	98	20
JRW7USET	98	80
JRW8CJP1	99	8
JRW8CJP2	99	4
JRW8CNJH	99	10
JRW8DEFR	99	40
JRW8GTWK	99	20
JRW8J3XJ	99	1
JRW8J3XQ	99	2

Table 291. Cross Reference for \$JRW (continued)

Name	Offset	Hex Tag
JRW8NULL	99	80
JRW9AJCL	9A	40
JRW9AJEC	9A	20
JRW9HJEV	9A	80
RCSL	0	
RCSLELEN	13	14
RCSLFLG1	11	
RCSLKEY	0	
RCSLLSIZ	12	
RCSLPOSN	10	
RCSLRTN	C	
RCSL1ALI	11	4
RCSL1ASI	11	80
RCSL1BLK	11	10
RCSL1LST	11	8
RCSL1NAL	11	2
RCSL1NSP	11	40
RCSL1REQ	11	20
RDWXCONT	9AA	8
RDWXJCL	9AA	1
RDWXJECL	9AA	2
RDWXJOBC	9AA	4
RDWXJOBP	9AA	40
RDWXXSEM	9AA	20
RDWXXSNC	9AA	10

\$JTW information

\$JTW programming interface information

\$JTW is a programming interface.

\$JTW heading information

Common name: JES2 Job Transmitter Work Area
Macro ID: \$JTW
DSECT name: JTW
Owning component: JES2 (SC1BH)
Eye-catcher ID: none

Storage attributes: Subpool: See \$PCE (JES2 address space)
0 (NETSRV address space)
Key: See \$PCE (JES2 address space)
0 (NETSRV address space)
Residency: See \$PCE (JES2 address space)
Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

Size: See JTWLEN

Created by: See \$PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)

Pointed to by: NSSTJTWA field of the \$NSST data area
X046AREA field of the \$XPL data area
X056AREA field of the \$XPL data area
Imbedded in the PCE in the JES2 address space.
See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. \$JTW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

\$JTW mapping

Table 292. Structure JTW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JTW	, JTW mapped as \$NJEWORK
0	(0)	CHARACTER	4	JTWEYE	Eyecatcher
4	(4)	CHARACTER	10	JTWDEVN	Device name
14	(E)	BITSTRING	1	JTWDEVTP	Device type
15	(F)	BITSTRING	3	JTWDEVID	Device id
18	(12)	BITSTRING	2	JTWCRSV1	Reserved
20	(14)	ADDRESS	4	JTWWAVE	WAVE address
24	(18)	ADDRESS	4	JTWSQD	SQD address
28	(1C)	ADDRESS	4	JTWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JTWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JTWNSSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JTWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JTWTAREA	Address of rolling trace area (NETSRV address space only)
48	(30)	SIGNED	4	JTWEBCCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JTWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JTWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JTWNITBL	Address of NIT table

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

Table 292. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	SIGNED	4	JTWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JTWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JTWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JTWJQA	Address of JQA
72	(48)	X'48'	0	JTWJQE	"JTWJQA" Address of JQE
76	(4C)	ADDRESS	4	JTWJCT	Address of JCT
80	(50)	ADDRESS	4	JTWIOT	Address of IOT
80	(50)	X'50'	0	JTWIOTBF	"JTWIOT" Address of IOT
84	(54)	ADDRESS	4	JTWNJH	Network job header address
88	(58)	ADDRESS	4	JTWNJT	Network job trailer address
92	(5C)	SIGNED	4	JTWRCON	Number of records sent/received
96	(60)	ADDRESS	4	JTWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JTWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JTWNERRC	Error code
108	(6C)	X'1'	0	JTWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JTWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JTWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JTWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JTWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JTWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JTWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JTWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JTWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JTWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JTWNESJF	"11" SJF error
108	(6C)	X'C'	0	JTWNESAF	"12" SAF check failure
108	(6C)	X'D'	0	JTWNERSL	"13" Resource limit error
109	(6D)	BITSTRING	7	JTWCERSV2	Reserved
120	(78)	DBL WORD	8	JTWDBL	Doubleword work area
128	(80)	DBL WORD	8	JTWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JTWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JTWWRK16	"JTWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JTWWRK24	"JTWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JTWCLEAR	"JTWCLRST,*-JTWCLRST,C'X'" Area to clear
144	(90)	ADDRESS	4	JTWLOGST	Address of LOGSTR used in NJJTAUTH
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
152	(98)	DBL WORD	8		SNA WORK AREA
160	(A0)	BITSTRING	256	JTWWORK	WORK AREA
416	(1A0)	SIGNED	4	JTWNJTON(2)	PROCESSOR SIGN-ON TIME AND DATE
424	(1A8)	BITSTRING	1	JTWORCFM	Previous RECFM
425	(1A9)	BITSTRING	1	JTWNRCFM	New RECFM
426	(1AA)	SIGNED	2	JTWOLRCL	Previous LRECL

Table 292. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
428	(1AC)	SIGNED	2	JTWNLRCL	New LRECL
430	(1AE)	BITSTRING	1	JTWFLAG1	FLAG BYTE
		1...		JTW1MSG	"B'10000000'" INACTIVE MESSAGE HAS BEEN ISSUED
		.1..		JTW1DAT	"B'01000000'" INVALID DATA BLOCK MSG REQUIRED
		..1.		JTW1HLD	"B'00100000'" HOLD JOB AFTER RESTART OF DEVICE
		...1		JTW1PEF	"B'00010000'" PASSWORD ENCRYPTION FAILED
		.... 1...		JTW1JDM	"B'00001000'" Write JOB deleted message
		.... .1..		JTW1CUQ	"B'00000100'" Return job to current queue
		.... ..1.		JTW1NDT	"B'00000010'" No data records have been transmitted yet.
		.... ...1		JTW1SRC	"B'00000001'" Found an SCR; LRECL/ RECFM may have changed
431	(1AF)	BITSTRING	1		Reserved for future use
432	(1B0)	BITSTRING	1	JTWFLAG2	More flags
		1...		JTW2AUT	"B'10000000'" Authorization failed
		.1..		JTW2TRC	"B'01000000'" Truncate long SYSIN records
		..1.		JTW2NDP	"B'00100000'" Mark non-selectable by "dumper" ie offload transmitter
434	(1B2)	SIGNED	2	JTWPCEID	Processor Type
440	(1B8)	DBL WORD	8	JTWORK(0)	Compression/encryption work area for gets
440	(1B8)	X'3C8'	0	JTWLEN	"*-JTW" Length of work DSECT
The following fields exist only in the JTW in the NETSRV address space					
968	(3C8)	ADDRESS	4	JTWACB	ACB address
972	(3CC)	ADDRESS	4	JTWRPL	RPL address
976	(3D0)	ADDRESS	4	JTWSJB	SJB address
980	(3D4)	ADDRESS	4	JTWSDB	SDB address
984	(3D8)	ADDRESS	4	JTWB32K	32K buffer containing record during RCCS send
988	(3DC)	BITSTRING	1	JTWNFLG1	Progress flags
		1...		JTWN1JHI	"B'10000000'" NJH creation in progress
		.1..		JTWN1JHC	"B'01000000'" NJH creation complete
		..1.		JTWN1JHS	"B'00100000'" NJH has been sent
		...1		JTWN1GTI	"B'00010000'" Get is in progress
		.... 1...		JTWN1JTI	"B'00001000'" NJT creation in progress
		.... .1..		JTWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		JTWN1JTS	"B'00000010'" NJT has been sent
		.... ...1		JTWN1EOT	"B'00000001'" EOT has been sent
989	(3DD)	BITSTRING	1	JTWNFLG2	Status flags
		1...		JTWN2ERR	"B'10000000'" Error, abort transmission

Table 292. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1...		JTWN2WJ2	"B'01000000'" Wait while JES2 down
		..1.		JTWN2XMS	"B'00100000'" Found 1st card to XMIT
Fields below are associated with the data set represented by the SDB pointed to by JTWSDB.					
990	(3DE)	BITSTRING	1	JTWSDFG1	SDB flags
		1...		JTWS1SET	"B'10000000'" Oper=setupe performed on encryption object in SDBENCO
992	(3E0)	ADDRESS	4	JTWSDEL	Address of DSETLVL
1000	(3E8)	ADDRESS	8	JTWSENCO	Address of encryption object created by ENCRYPTV
1008	(3F0)	DBL WORD	8	(0)	End of JTW area
1008	(3F0)	X'3F0'	0	JTWCLEN	"*-JTW" Length of JTW in NETSRV address space

Table 293. Cross Reference for \$JTW

Name	Offset	Hex Tag
JTW	0	
JTWACB	3C8	
JTWAREA	20	
JTWB32K	3D8	
JTWCLEAR	90	48
JTWCLEN	3F0	3F0
JTWCLRST	48	
JTWCERSV1	12	
JTWCERSV2	6D	
JTWCUREC	60	
JTWDBL	78	
JTWDBLE	80	
JTWDBLE1	88	
JTWDEVID	F	
JTWDEVN	4	
JTWDEVTP	E	
JTWECBCC	30	
JTWEWORK	1B8	
JTWEYE	0	D1E3E640
JTWFLAG1	1AE	
JTWFLAG2	1B0	
JTW1CUQ	1AE	4
JTW1DAT	1AE	40
JTW1HLD	1AE	20
JTW1JDM	1AE	8

Table 293. Cross Reference for \$JTW (continued)

Name	Offset	Hex Tag
JTWF1MSG	1AE	80
JTWF1NDT	1AE	2
JTWF1PEF	1AE	10
JTWF1SRC	1AE	1
JTWF2AUT	1B0	80
JTWF2NDP	1B0	20
JTWF2TRC	1B0	40
JTWIOT	50	
JTWIOTBF	50	50
JTWJCT	4C	
JTWJOBID	64	
JTWJQA	48	
JTWJQE	48	48
JTWLEN	1B8	3C8
JTWLOGST	90	
JTWNECBI	6C	7
JTWNECLO	6C	5
JTWNEGG	6C	A
JTWNEIOE	6C	6
JTWNEJOB	6C	1
JTWNEJOE	6C	2
JTWNENJH	6C	8
JTWNEOPE	6C	4
JTWNERRC	6C	
JTWNERSL	6C	D
JTWNESAF	6C	C
JTWNESEQ	6C	9
JTWNESJF	6C	B
JTWNESUB	6C	3
JTWNFLG1	3DC	
JTWNFLG2	3DD	
JTWNITAD	34	
JTWNITAL	38	
JTWNITBL	3C	
JTWNJH	54	
JTWNJT	58	
JTWNJTON	1A0	
JTWNLRCL	1AC	
JTWNRCFM	1A9	

Table 293. Cross Reference for \$JTW (continued)

Name	Offset	Hex Tag
JTWSST	24	
JTWN1EOT	3DC	1
JTWN1GTI	3DC	10
JTWN1JHC	3DC	40
JTWN1JHI	3DC	80
JTWN1JHS	3DC	20
JTWN1JTC	3DC	4
JTWN1JTI	3DC	8
JTWN1JTS	3DC	2
JTWN2ERR	3DD	80
JTWN2WJ2	3DD	40
JTWN2XMS	3DD	20
JTWOLRCL	1AA	
JTWORCFM	1A8	
JTWPAREA	1C	
JTWPCEID	1B2	
JTWRCOUN	5C	
JTWRPL	3CC	
JTWSDB	3D4	
JTWSDFG1	3DE	
JTWSDESEL	3E0	
JTWSENCO	3E8	
JTWSJB	3D0	
JTWSQD	18	
JTWS1SET	3DE	80
JTWTAREA	2C	
JTWTBUF	28	
JTWWAVE	14	
JTWORK	A0	
JTWRK16	88	80
JTWRK24	88	78
JTWXDATE	44	
JTWXTIME	40	

\$KAWA information

\$KAWA heading information

Common name: Checkpoint Allocation Work Area

Macro ID: \$KAWA

DSECT name: KAW

Owning component: JES2 (SC1BH)

Eye-catcher ID: KAWA
Offset: 0
Length: 4

Storage attributes: Subpool: 0
Key: 1
Residency: During Allocation, virtual and real storage are below 16M in the JES2 address space. During Unallocation, virtual and real storage are anywhere in the JES2 address space.

Size: See KAWALEN

Created by: JES2 Checkpoint Allocation and Unallocation

Pointed to by: N/A

Serialization: None required

Function: The KAWA is used to map out a work area obtained by CKPTALOC and CKPTUNAL. It is also returned to CKPTALOC's caller if the routine detects an error.

\$KAWA mapping

Table 294. Structure KAW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	KAW	CHECKPOINT ALOC WORK AREA
0	(0)	CHARACTER	4	KAWID	EYE CATCHER
4	(4)	ADDRESS	1	KAWAVER	VERSION NUMBER
4	(4)	X'2'	0	KAWAVERN	"2" VERSION EQUATE
5	(5)	BITSTRING	1	KAWFLAG1	FLAG BYTE
		1...		KAW1ALOC	"B'10000000'" ALLOCATE WAS DONE
		.1..		KAW1NEW	"B'01000000'" ALLOCATE DISP=NEW WAS USED
		..1.		KAW1OPEN	"B'00100000'" MVS OPEN WAS DONE
		...1		KAW1RALC	"B'00010000'" Reallocate processing
6	(6)	BITSTRING	1	KAWPARM	PARAMETERS PASSED TO CKPTALOC
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4		Reserved for future IBM use
12	(C)	SIGNED	4	KAWALORT	RETURN CODE FROM MVS DYNALLOC
16	(10)	ADDRESS	4	KAWCKIA	Address of the new CKI
20	(14)	CHARACTER	8	KAWDDNAM	DDNAME FOR DATA SET
28	(1C)	ADDRESS	4	KAWTOTA	ADDRESS OF THE TRACK ONE TABLE
32	(20)	ADDRESS	4	KAWCKG	ADDRESS OF THE CKG
36	(24)	ADDRESS	4	KAWUCB	Address of the UCB
40	(28)	ADDRESS	4	KAWUCBPX	Address of the UCB Prefix
44	(2C)	SIGNED	4	KAWBYTRK	Number of Bytes or Tracks needed for DS (HASP295-6)
48	(30)	SIGNED	4	KAWOBFCC	Error Code from OBTAIN
52	(34)	ADDRESS	4	KAWRBPTR	REQUEST BLOCK POINTER

Table 294. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	SIGNED	4	(0)	Ensure alignment
56	(38)	BITSTRING	20	KAWRB	DYNALLOC REQUEST BLOCK
76	(4C)	SIGNED	4	(0)	Ensure alignment
76	(4C)	BITSTRING	36	KAWRBX	Request block extension
112	(70)	ADDRESS	4	KAWMSG1	Address of returned MSG #1 for DYNALLOC failure
116	(74)	ADDRESS	4	KAWMSG2	Address of returned MSG #2 for DYNALLOC failure
120	(78)	BITSTRING	540	KAWSP	The parm list + returned formatted messages area
660	(294)	SIGNED	4	KAWTXTPT(0)	TEXT POINTERS
660	(294)	ADDRESS	4	KAWTXTP1	ADDRESS OF TEXT UNIT 1
664	(298)	ADDRESS	4	KAWTXTP2	ADDRESS OF TEXT UNIT 2
668	(29C)	ADDRESS	4	KAWTXTP3	ADDRESS OF TEXT UNIT 3
672	(2A0)	ADDRESS	4	KAWTXTP4	ADDRESS OF TEXT UNIT 4
676	(2A4)	ADDRESS	4	KAWTXTP5	ADDRESS OF TEXT UNIT 5
680	(2A8)	ADDRESS	4	KAWTXTP6	ADDRESS OF TEXT UNIT 6
684	(2AC)	ADDRESS	4	KAWTXTP7	ADDRESS OF TEXT UNIT 7
688	(2B0)	ADDRESS	4	KAWTXTP8	ADDRESS OF TEXT UNIT 8 -EAS
692	(2B4)	ADDRESS	4	KAWTXTP9	ADDRESS OF TEXT UNIT 9
696	(2B8)	ADDRESS	4	KAWTXP10	ADDRESS OF TEXT UNIT 10
700	(2BC)	ADDRESS	4	KAWTXP11	Address of text unit 11
704	(2C0)	SIGNED	4	KAWTXT(0)	TEXT UNITS
704	(2C0)	BITSTRING	6	KAWTXT1	TEXT UNIT 1
710	(2C6)	BITSTRING	8	KAWTXT1D	TEXT UNIT 1 PARM
718	(2CE)	BITSTRING	6	KAWTXT2	TEXT UNIT 2
724	(2D4)	BITSTRING	8	KAWTXT2D	TEXT UNIT 2 PARM
732	(2DC)	BITSTRING	6	KAWTXT3	TEXT UNIT 3
738	(2E2)	BITSTRING	8	KAWTXT3D	TEXT UNIT 3 PARM
746	(2EA)	BITSTRING	6	KAWTXT4	TEXT UNIT 4
752	(2F0)	BITSTRING	8	KAWTXT4D	TEXT UNIT 4 PARM
760	(2F8)	BITSTRING	6	KAWTXT5	TEXT UNIT 5
766	(2FE)	BITSTRING	8	KAWTXT5D	TEXT UNIT 5 PARM
774	(306)	BITSTRING	6	KAWTXT6	TEXT UNIT 6
780	(30C)	CHARACTER	44	KAWDSN(0)	DATASET NAME
780	(30C)	BITSTRING	44	KAWTXT6D	TEXT UNIT 6 PARM
824	(338)	BITSTRING	6	KAWTXT7	TEXT UNIT 7
830	(33E)	BITSTRING	8	KAWTXT7D	TEXT UNIT 7 PARM
838	(346)	BITSTRING	7	KAWTXT8	TEXT UNIT 8 - EAS
845	(34D)	BITSTRING	6	KAWTXT9	TEXT UNIT 9
851	(353)	BITSTRING	8	KAWTXT9D	TEXT UNIT 9 PARM
859	(35B)	BITSTRING	6	KAWTXT10	TEXT UNIT 10
865	(361)	BITSTRING	8	KAWTX10D	TEXT UNIT 10 PARM
876	(36C)	SIGNED	4	KAWCMLST(0)	ALIGN ON FULL WORD
876	(36C)	ADDRESS	1		THREE BYTES OF FLAGS
877	(36D)	ADDRESS	1		INDICATING THE FUNC-

Table 294. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
878	(36E)	ADDRESS	1		TION TO BE PERFORMED
879	(36F)	ADDRESS	1		NO OPTION THREE
880	(370)	ADDRESS	4		PARAMETER TWO
884	(374)	ADDRESS	4		PARAMETER THREE
888	(378)	ADDRESS	4		PARAMETER FOUR
892	(37C)	SIGNED	4	(0)	Alignment
892	(37C)	CHARACTER	8	KAWEXTNT(0)	Extent start/end absolute addresses
892	(37C)	BITSTRING	4	KAWLOLIM	Lower CCcch of extent
896	(380)	BITSTRING	4	KAWUPLIM	Upper CCcch of extent
904	(388)	DBL WORD	8	(0)	DOUBLE WORD FOR DSCB
904	(388)	BITSTRING	148	KAWDSCB	DSCB FROM OBTAIN
1052	(41C)	SIGNED	4	(0)	Ensure alignment
1052	(41C)	BITSTRING	20	KAWDEVO	DEVTYPE output area
1072	(430)	BITSTRING	64	KAWAMSGW	HASP414 msg work area
1136	(470)	SIGNED	4	(10)	Reserved
MF=L work areas					
1176	(498)	DBL WORD	8	KAWMFORG(0)	MF=L work areas
----- DEVTYPE MF=L DEVTYPE list form					
1176	(498)	SIGNED	4	KAWDEVT(0)	LENGTH OF PARAMETER LIST
1177	(499)	ADDRESS	1		VERSION OF PARAMETER LIST
1178	(49A)	BITSTRING	2		Flags & reserved
1180	(49C)	ADDRESS	4		ADDRESS OF UCB LIST OR DD NAME
1184	(4A0)	ADDRESS	4		NUMBER OF UCBS IN LIST
1188	(4A4)	ADDRESS	4		ADDRESS OF RESULT AREA
1192	(4A8)	ADDRESS	4		SIZE OF RESULT AREA
1196	(4AC)	ADDRESS	4		ADDRESS OF INFO LIST (DEVTYPE INFO=)
1196	(4AC)	X'18'	0	KAWDEVTL	"*-KAWDEVT" Length of list form
----- IOSCAPU MF=(L,KAWCAPU) IOSCAPU PARM LIST MACDATE -01/22/01-<1>					
0	(0)	X'498'	0	M00M1423	"KAWCAPU" ++ IOSCAPU NAME
1176	(498)	DBL WORD	8	KAWCAPU(0)	++ IOSCAPU PARM LIST
1176	(498)	BITSTRING	1	KAWCAPU_XVERSION	++ INPUT XVERSION
1177	(499)	BITSTRING	1	KAWCAPU_XFLAGS1	++ FIELD_LABEL
		1...		KAWCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		KAWCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		KAWCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		KAWCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		KAWCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		KAWCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1178	(49A)	CHARACTER	2	KAWCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1

Table 294. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1180	(49C)	ADDRESS	4	KAWCAPU_XUCBPTR	++ XUCBPTR
1184	(4A0)	ADDRESS	4	KAWCAPU_XCAPTPTR	++ XCAPTPTR
1188	(4A4)	CHARACTER	1	KAWCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1189	(4A5)	BITSTRING	1	KAWCAPU_XMASK	++ FIELD_LABEL
		1...		KAWCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		KAWCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		KAWCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		KAWCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1190	(4A6)	BITSTRING	2	KAWCAPU_XASID	++ XASID
1192	(4A8)	CHARACTER	16	KAWCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1192	(4A8)	X'20'	0	KAWCAPUL	"*-KAWCAPU" ++ LENGTH OF PLIST
IOSCAPU-1					
----- \$BLDMSG MF=L List form of \$BLDMSG					
1176	(498)	SIGNED	4	KAWBLMSG(0)	Control block ID
1180	(49C)	BITSTRING	4		Console ID
1184	(4A0)	ADDRESS	4		Address of the CART
1188	(4A4)	ADDRESS	4		Pointer for JOBID
1192	(4A8)	ADDRESS	4		Control block address
1196	(4AC)	ADDRESS	4		Display routine address
1200	(4B0)	ADDRESS	4	(6)	6 word work area
1224	(4C8)	ADDRESS	4		Caller's R11 value
1228	(4CC)	BITSTRING	2		ROUT code for Message
1230	(4CE)	BITSTRING	2		Not used
1232	(4D0)	CHARACTER	4		Message ID
1236	(4D4)	CHARACTER	1		Separator character
1237	(4D5)	ADDRESS	1		Flag byte 1
1238	(4D6)	ADDRESS	1		'DISPER'
1239	(4D7)	ADDRESS	1		Flag byte 2
1240	(4D8)	ADDRESS	1		Flag byte 3
1241	(4D9)	ADDRESS	1		Severity of message
1242	(4DA)	CHARACTER	8		Symbolic name of dest.
1250	(4E2)	BITSTRING	14		Not used
1264	(4F0)	ADDRESS	4	(0)	Ensure multiple of 4
1264	(4F0)	ADDRESS	2	(0)	
----- UCBLLOOK MF=(L,KAWUCBLK) UCBLLOOK parameter list MACDATE -03/18/08-<3>					
0	(0)	X'498'	0	M00M1426	"KAWUCBLK" ++ UCBLLOOK NAME
1176	(498)	DBL WORD	8	KAWUCBLK(0)	++ UCBLLOOK PARM LIST
1176	(498)	BITSTRING	1	KAWUCBLK_XVERSION	++ INPUT XVERSION
1177	(499)	BITSTRING	1	KAWUCBLK_XSCHSET	++
1178	(49A)	BITSTRING	2	KAWUCBLK_XDEVN	++
1180	(49C)	CHARACTER	4	KAWUCBLK_XDEVNCHAR	++

Table 294. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1184	(4A0)	CHARACTER	6	KAWUCBLK_XVOLSER	++
1190	(4A6)	BITSTRING	1	KAWUCBLK_XDEVCLASS	++ XDEVCLASS
1190	(4A6)	X'0'	0	KAWUCBLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1190	(4A6)	X'1'	0	KAWUCBLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1190	(4A6)	X'2'	0	KAWUCBLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1191	(4A7)	BITSTRING	1	KAWUCBLK_XRESERVED2	++ FIELD_LABEL
		1... ..		KAWUCBLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1192	(4A8)	ADDRESS	4	KAWUCBLK_XUCBPTR	++
1196	(4AC)	CHARACTER	5	KAWUCBLK_XCOMPID	++
1201	(4B1)	BITSTRING	1	KAWUCBLK_XMASK	++ FIELD_LABEL
		1... ..		KAWUCBLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1... ..		KAWUCBLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		KAWUCBLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		KAWUCBLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		KAWUCBLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		.... ..1		KAWUCBLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1202	(4B2)	BITSTRING	1	KAWUCBLK_XFLAGS	++ FIELD_LABEL
		1... ..		KAWUCBLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1... ..		KAWUCBLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		KAWUCBLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		KAWUCBLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		KAWUCBLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		KAWUCBLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		KAWUCBLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		.... ...1		KAWUCBLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1203	(4B3)	BITSTRING	1	KAWUCBLK_XFLAGS2	++ FIELD_LABEL
		1... ..		KAWUCBLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1... ..		KAWUCBLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBXPTR KEYWORD
		..1.		KAWUCBLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		KAWUCBLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1204	(4B4)	ADDRESS	4	KAWUCBLK_XTEXT_ADDR	++ ADDR
1208	(4B8)	SIGNED	4	KAWUCBLK_XTEXT_ALET	++ ALET
1212	(4BC)	CHARACTER	8	KAWUCBLK_XPTOKEN	++
1220	(4C4)	CHARACTER	8	KAWUCBLK_XHELP	++
1228	(4CC)	ADDRESS	4	KAWUCBLK_XIOCTOKEN_ADDR	++ ADDR
1232	(4D0)	SIGNED	4	KAWUCBLK_XIOCTOKEN_ALET	++ ALET
1236	(4D4)	ADDRESS	4	KAWUCBLK_XUCBPAREA_ADDR	++ ADDR

Table 294. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1240	(4D8)	SIGNED	4	KAWUCBLK_XUCBPAREA_ALET	++ ALET
1244	(4DC)	ADDRESS	4	KAWUCBLK_XUCBCXPTR	++
1248	(4E0)	ADDRESS	4	KAWUCBLK_XUCBPXPTR	++
1252	(4E4)	CHARACTER	5	KAWUCBLK_XLDEVNCHAR	++
1257	(4E9)	CHARACTER	3	KAWUCBLK_XRESERVED1	++ FIELD_LABEL
1257	(4E9)	X'54'	0	KAWUCBLKL	"*-KAWUCBLK" ++ LENGTH OF PLIST
UCBLOOK-3					
1176	(498)	BITSTRING	16	KAWPURGE	PURGE parameter list
1176	(498)	SIGNED	4	KAWOPEN(0)	ALIGN LIST TO WORD
1176	(498)	ADDRESS	1		Option byte
1177	(499)	ADDRESS	3		Reserved
1180	(49C)	ADDRESS	4		DCB or ACB address
1176	(498)	SIGNED	4	KAWCLOSE(0)	ALIGN LIST TO FULLWORD
1176	(498)	ADDRESS	1		OPTION BYTE
1177	(499)	ADDRESS	3		RESERVED BYTES
1180	(49C)	ADDRESS	4		DCB OR ACB ADDRESS
1264	(4F0)	DBL WORD	8	(0)	Alignment
1264	(4F0)	X'4F0'	0	KAWALEN	"*-KAW" LENGTH OF THE KAWA

Table 295. Structure OBTM414

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	OBTM414	, HASP414 parms - obtain error
0	(0)	CHARACTER	8	OBTNFNAM	Checkpoint file name exists if OBTNCK is FF
8	(8)	CHARACTER	44	OBTNDNAM	Dataset name
52	(34)	CHARACTER	6	OBTNVSER	VOLSER NAME
58	(3A)	CHARACTER	4	OBTNCC	Condition code returned from obtain
62	(3E)	BITSTRING	1	OBTNCK	FF denotes checkpoint name has been supplied
62	(3E)	X'3F'	0	OBTMLEN	"*-OBTM414" Length of a HASP414 parms

Table 296. Cross Reference for \$KAWA

Name	Offset	Hex Tag
KAW	0	
KAWALEN	4F0	4F0
KAWALORT	C	
KAWAMSGW	430	
KAWAVER	4	
KAWAVERN	4	2
KAWBLMSG	498	C2D3C440
KAWBYTRK	2C	
KAWCAPU	498	
KAWCAPU_KEYUSED_ASID	499	10

Table 296. Cross Reference for \$KAWA (continued)

Name	Offset	Hex Tag
KAWCAPU_KEYUSED_CAPTOACT	499	20
KAWCAPU_KEYUSED_CAPTPTR	499	4
KAWCAPU_KEYUSED_CAPTUCB	499	80
KAWCAPU_KEYUSED_UCAPTUCB	499	40
KAWCAPU_KEYUSED_UCBPTR	499	8
KAWCAPU_XASID	4A6	
KAWCAPU_XCAPTCOM_NEVER	4A5	10
KAWCAPU_XCAPTCOM_YES	4A5	20
KAWCAPU_XCAPTPTR	4A0	
KAWCAPU_XFLAGS1	499	
KAWCAPU_XLASTING_YES	4A5	40
KAWCAPU_XMASK	4A5	
KAWCAPU_XMSIFREE_YES	4A5	80
KAWCAPU_XRESERVED1	49A	
KAWCAPU_XRESERVED2	4A4	
KAWCAPU_XRESERVED3	4A8	
KAWCAPU_XUCBPTR	49C	
KAWCAPU_XVERSION	498	
KAWCAPUL	4A8	20
KAWCKG	20	
KAWCKIA	10	
KAWCLOSE	498	
KAWCMLST	36C	
KAWDDNAM	14	
KAWDEVO	41C	
KAWDEVT	498	18
KAWDEVTL	4AC	18
KAWDSCB	388	
KAWDSN	30C	
KAWEXTNT	37C	
KAWFLAG1	5	
KAWID	0	D2C1E6C1
KAWLOLIM	37C	
KAWMFORG	498	
KAWMSG1	70	
KAWMSG2	74	
KAWOBFCC	30	
KAWOPEN	498	
KAWPARM	6	

Table 296. Cross Reference for \$KAWA (continued)

Name	Offset	Hex Tag
KAWPURGE	498	
KAWRB	38	
KAWRBPTR	34	
KAWRBX	4C	
KAWSP	78	
KAWTOTA	1C	
KAWTXP10	2B8	
KAWTXP11	2BC	
KAWTXT	2C0	
KAWTXTPT	294	
KAWTXTP1	294	
KAWTXTP2	298	
KAWTXTP3	29C	
KAWTXTP4	2A0	
KAWTXTP5	2A4	
KAWTXTP6	2A8	
KAWTXTP7	2AC	
KAWTXTP8	2B0	
KAWTXTP9	2B4	
KAWTXT1	2C0	
KAWTXT1D	2C6	
KAWTXT10	35B	
KAWTXT2	2CE	
KAWTXT2D	2D4	
KAWTXT3	2DC	
KAWTXT3D	2E2	
KAWTXT4	2EA	
KAWTXT4D	2F0	
KAWTXT5	2F8	
KAWTXT5D	2FE	
KAWTXT6	306	
KAWTXT6D	30C	
KAWTXT7	338	
KAWTXT7D	33E	
KAWTXT8	346	
KAWTXT9	34D	
KAWTXT9D	353	
KAWTX10D	361	
KAWUCB	24	

Table 296. Cross Reference for \$KAWA (continued)

Name	Offset	Hex Tag
KAWUCBLK	498	
KAWUCBLK_KEYUSED_COMPID	4B2	8
KAWUCBLK_KEYUSED_DEVN	4B2	80
KAWUCBLK_KEYUSED_DEVNCHAR	4B2	40
KAWUCBLK_KEYUSED_HELP	4B2	4
KAWUCBLK_KEYUSED_LASTING	4B2	10
KAWUCBLK_KEYUSED_LDEVNCHAR	4B3	20
KAWUCBLK_KEYUSED_PIN	4B2	2
KAWUCBLK_KEYUSED_PINPATHS	4B2	1
KAWUCBLK_KEYUSED_SCHSET	4B3	10
KAWUCBLK_KEYUSED_UCBCXPTR	4B3	80
KAWUCBLK_KEYUSED_UCBPXPTR	4B3	40
KAWUCBLK_KEYUSED_VOLSER	4B2	20
KAWUCBLK_XCOMPID	4AC	
KAWUCBLK_XDEVCLASS	4A6	
KAWUCBLK_XDEVCLASS_DASD	4A6	2
KAWUCBLK_XDEVCLASS_DASDTAPE	4A6	0
KAWUCBLK_XDEVCLASS_TAPE	4A6	1
KAWUCBLK_XDEVN	49A	
KAWUCBLK_XDEVNCHAR	49C	
KAWUCBLK_XDYNAMIC_NO	4B1	40
KAWUCBLK_XFLAGS	4B2	
KAWUCBLK_XFLAGS2	4B3	
KAWUCBLK_XHELP	4C4	
KAWUCBLK_XIOCTOKEN_ADDR	4CC	
KAWUCBLK_XIOCTOKEN_ALET	4D0	
KAWUCBLK_XLDEVNCHAR	4E4	
KAWUCBLK_XLOC_ANY	4B1	10
KAWUCBLK_XMASK	4B1	
KAWUCBLK_XNONBASE_YES	4B1	80
KAWUCBLK_XNOTFIND_YES	4A7	80
KAWUCBLK_XPTOKEN	4BC	
KAWUCBLK_XRANGE_3DIGIT	4B1	20
KAWUCBLK_XRESERVED1	4E9	
KAWUCBLK_XRESERVED2	4A7	
KAWUCBLK_XSCHSET	499	
KAWUCBLK_XSPECIAL_YES	4B1	8
KAWUCBLK_XTEXT_ADDR	4B4	
KAWUCBLK_XTEXT_ALET	4B8	

Table 296. Cross Reference for \$KAWA (continued)

Name	Offset	Hex Tag
KAWUCBLK_XUCBCXPTR	4DC	
KAWUCBLK_XUCBPAREA_ADDR	4D4	
KAWUCBLK_XUCBPAREA_ALET	4D8	
KAWUCBLK_XUCBPTR	4A8	
KAWUCBLK_XUCBPXPTR	4E0	
KAWUCBLK_XUNBOUND_ALIAS_YES	4B1	1
KAWUCBLK_XVERSION	498	
KAWUCBLK_XVOLSER	4A0	
KAWUCBLKL	4E9	54
KAWUCBPX	28	
KAWUPLIM	380	
KAW1ALOC	5	80
KAW1NEW	5	40
KAW1OPEN	5	20
KAW1RALC	5	10
M00M1423	0	498
M00M1426	0	498
OBTMLN	3E	3F
OBTM414	0	
OBTNCC	3A	
OBTNCK	3E	
OBTNDNAM	8	
OBTNFNAM	0	
OBTNVSER	34	

\$LMT information

\$LMT heading information

Common name: Load Module Table
Macro ID: \$LMT
DSECT name: LMT
Owning component: JES2 (SC1BH)
Eye-catcher ID: 'LMT '
 Offset: LMT-\$CSBPRFX+\$CSBID
 Length: 4

Storage attributes: Subpool: 0 (private chain), 241 (CSA chain)
Key: 1
Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M). There are two chains of LMTs. One is in the private storage of the JES2 address space, the other is in CSA.

Size: LMTLEN plus standard CSA prefix (CSBPRFX equate in the \$HASPEQU data area) per entry, whether PVT or CSA

Created by: \$MODLOAD

Pointed to by: Private LMT chain pointers:
\$LMT1 field of the HCT data area -
Points to head of chain, which connects also to the CSA chain. This is the only anchor that should be used by LMT search routines.
\$LMTPBOT field of the HCT data area -
Points to the last private entry, for internal use by \$MODLOAD only

Common LMT chain pointers:
CCTLMT1 field of the HCCT data area -
Points to head of CSA chain (middle of composite private/CSA chain).
\$LMTC field of the HCT data area -
An HCT copy of the CCTLMT1 value, for internal use by \$MODLOAD only.

LMTCHAIN field of the \$LMT data area

Serialization: Entries cannot be removed from the chains once added, and should be added in a way that allows multi-tasking references.

Function: The LMT contains an entry for each JES2 module loaded via \$MODLOAD. \$MODLOAD adds the entries. \$MODELET invalidates an entry. Invalidation is a 2 step process. First the module is logically deleted (bit LMT2DELT is set). Once it is determined the module can be physically deleted (see MCKDELET for details), then the module is deleted and the LMT invalidated (bit LMT1INVD is set).
There are two LMT chains. One is chained from the HCCT for entries for those modules loaded into common storage. The other has entries for those loaded into private storage and is chained from the HCT. On abnormal termination the common LMTs are not freed. On a hot start the common LMTs are still valid, so only the private LMTs are rebuilt from new LOADMOD initialization parameters.
The LMT chains are built with dynamic storage for each \$MODLOAD call. At any given time the last element in the private LMT chain points to the first in the CSA chain, thereby allowing a single LMT chain loop to access all LMT entries (starting from the HCT anchor).

\$LMT mapping

Table 297. Structure LMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMT	HASP LOAD MODULE TABLE DSECT
The following fields are used by internal tools. Do not change the offsets of these fields.					
0	(0)	CHARACTER	8	LMTMODNM	LOAD MODULE NAME
8	(8)	ADDRESS	4	LMTMITAD	POINTER TO MIT
12	(C)	SIGNED	4	LMTESIZE(0)	Module subpool and length
12	(C)	BITSTRING	1	LMTSUBPL	Subpool, only if direct ld
13	(D)	ADDRESS	3	LMTMODLN	Module length in all cases
16	(10)	ADDRESS	4	LMTBASEA	ALT. MODULE BASE FOR REP FACIL.
20	(14)	BITSTRING	1	LMTFLG1	FLAG FOR LMT ENTRY
		1... ..		LMT1DIRL	"B'10000000'" MODULE DIRECTLY LOADED
		.1.. ..		LMT1CMN	"B'01000000'" MODULE LOADED INTO COMMON STOR
		..1.		LMT1PVT	"B'00100000'" MODULE LOADED INTO PRIVATE
		...1		LMT1INVD	"B'00010000'" INVALID LMT ENTRY
		.... 1...		LMT1LOAD	"B'00001000'" Loaded via LOADMOD parm stmt or operator command
		.... .1..		LMT1IBM	"B'00000100'" THIS IS AN IBM LOAD MODULE
		.... ..1.		LMT1BSPL	"B'00000010'" Bypass SPLEVEL check
		.... ...1		LMT1OS	"B'00000001'" Module is an OS module
21	(15)	BITSTRING	1	LMTFLG2	FLAG 2 FOR LMT ENTRY
		1... ..		LMT2CMNR	"B'10000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN COMMON STOR
		.1..		LMT2PVTR	"B'01000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN PRIVATE STOR
		..1.		LMT2LPAR	"B'00100000'" REQUEST FROM LOADMOD STATEMENT TO USE LPA COPY OF MODULE
		...1		LMT2RM24	"B'00010000'" Load module was loaded below the line
		.... 1...		LMT2RM31	"B'00001000'" Load module was loaded above the line
		.... .1..		LMT2REFR	"B'00000100'" Request from LOADMOD to refresh this module
		.... ..1.		LMT2DELT	"B'00000010'" Module logically deleted (may still be in storage)
		.... ...1		LMT2NDYN	"B'00000001'" Module does not support DYNAMIC commands
22	(16)	BITSTRING	1	LMTFLG3	Flag 3 for LMT entry
		1... ..		LMT3DTBL	"B'10000000'" Module has dynamic tables
		.1..		LMT3NXRT	"B'01000000'" No XRTs for this LMT
		..1.		LMT3FDEL	"B'00100000'" Force delete the LMT
		...1		LMT3FREE	"B'00010000'" Module has been freed
		.... 1...		LMT3MCKD	"B'00001000'" \$MODCHK delete succeeded

Table 297. Structure LMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		LMT3DRNN	"B'00000100'" \$\$\$\$DEL returned RC=4 (do not delete now)
		.... ..1.		LMT3DRND	"B'00000101'" \$\$\$\$DEL returned RC=8 (never delete)
		.... ...1		LMT3RFIP	"B'00000001'" Module was refreshed in place (refreshed LPA module with same copy)
23	(17)	BITSTRING	1	LMTFLG4	Flag 4 for LMT entry
		1...		LMT4LWPC	"B'10000000'" \$\$\$LOAD was called
		.1..		LMT4LFIX	"B'01000000'" LMT has been page fixed
		..1.		LMT4LPA	"B'00100000'" Module found in LPA
24	(18)	ADDRESS	4	LMTCHAIN	CHAIN POINTER TO NEXT LMT
End of fields used by internal tools.					
28	(1C)	ADDRESS	4	LMTENTRY	Entry addr returned by LOAD
32	(20)	ADDRESS	4	LMTADELR	Additional \$\$\$\$DEL routine
36	(24)	SIGNED	4		Reserved
40	(28)	DBL WORD	8	LMTTIME	Time LMT was created
48	(30)	DBL WORD	8	LMTTIMDL	Time LMT logically deleted
56	(38)	DBL WORD	8	LMTDRTIM	Time for next \$\$\$\$DEL call
64	(40)	DBL WORD	8	(0)	Assure LMTLEN DWORD align
64	(40)	X'40'	0	LMTLEN	"*-LMT" LENGTH
64	(40)	X'1'	0	LMTVERSN	"1" VERSION NUMBER OF LMT

Table 298. Cross Reference for \$LMT

Name	Offset	Hex Tag
LMT	0	
LMTADELR	20	
LMTBASEA	10	
LMTCHAIN	18	
LMTDRTIM	38	
LMTENTRY	1C	
LMTESIZE	C	
LMTFLG1	14	
LMTFLG2	15	
LMTFLG3	16	
LMTFLG4	17	
LMTLEN	40	40
LMTMITAD	8	
LMTMODLN	D	
LMTMODNM	0	
LMTSUBPL	C	
LMTTIMDL	30	
LMTTIME	28	

Table 298. Cross Reference for \$LMT (continued)

Name	Offset	Hex Tag
LMTVERSN	40	1
LMT1BSPL	14	2
LMT1CMN	14	40
LMT1DIRL	14	80
LMT1IBM	14	4
LMT1INVD	14	10
LMT1LOAD	14	8
LMT10S	14	1
LMT1PVT	14	20
LMT2CMNR	15	80
LMT2DELT	15	2
LMT2LPAR	15	20
LMT2NDYN	15	1
LMT2PVTR	15	40
LMT2REFR	15	4
LMT2RM24	15	10
LMT2RM31	15	8
LMT3DRND	16	2
LMT3DRNN	16	4
LMT3DTBL	16	80
LMT3FDEL	16	20
LMT3FREE	16	10
LMT3MCKD	16	8
LMT3NXRT	16	40
LMT3RFIP	16	1
LMT4LFIX	17	40
LMT4LPA	17	20
LMT4LWPC	17	80

\$MCT information

\$MCT programming interface information

ONLY the following fields are part of the programming interface information:

- MCTAPLTU
- MCTBADTU
- MCTBFHTU
- MCTBFXTU
- MCTBRTTU
- MCTBSCTU

- MCTBUFTU
- MCTCATTU
- MCTCKLTU
- MCTCKTTU
- MCTCNDTU
- MCTCOMTU
- MCTCONTU
- MCTDCTTU
- MCTDESTU
- MCTDSTTU
- MCTDTETU
- MCTEBYTU
- MCTEKNTU
- MCTELCTU
- MCTEPGTU
- MCTEPNTU
- MCTERRTU
- MCTETMTU
- MCTFENTU
- MCTFSSTU
- MCTHDRTU
- MCTIAUTU
- MCTINCTU
- MCTINRTU
- MCTJOBTU
- MCTJPYTU
- MCTJQETU
- MCTJRWTTU
- MCTJSPTU
- MCTJTWTTU
- MCTKPNTU
- MCTLINTU
- MCTLJRTU
- MCTLJTTU
- MCTLJWTU
- MCTLNETU
- MCTLODTU
- MCTLOGTU
- MCTLOTTU
- MCTLSRTU
- MCTLSTTU
- MCTLSWTU
- MCTMASTU

- MCTMEMTU
- MCTMGTU
- MCTMODTU
- MCTMPSTU
- MCTNAUTU
- MCTNDPTU
- MCTNETTU
- MCTNJETU
- MCTNODTU
- MCTOFFTU
- MCTOFLTU
- MCTOJMTU
- MCTOJRTU
- MCTOJTTU
- MCTOPDTU
- MCTOPTTU
- MCTOPYTU
- MCTOSMTU
- MCTOSRTU
- MCTOSTTU
- MCTOTPTU
- MCTOUTTU
- MCTPARTU
- MCTPCCTU
- MCTPCDTU
- MCTPCETU
- MCTPCNTU
- MCTPCRTU
- MCTPDDTU
- MCTPITTU
- MCTPRLTU
- MCTPRTTU
- MCTPRWTU
- MCTPTDTU
- MCTPTHU
- MCTPUDTU
- MCTPUNTU
- MCTPUWTU
- MCTRAUTU
- MCTRCNTU
- MCTRCVTU
- MCTRDITU
- MCTRDRTU

- MCTRDTTU
- MCTRDVTU
- MCTREDTU
- MCTRMTTU
- MCTRPRTU
- MCTRPUTU
- MCTRQJIU
- MCTRRDTU
- MCTSAWTU
- MCTSBDTU
- MCTSBMTU
- MCTSCTTU
- MCTSEPTU
- MCTSMFTU
- MCTSNATU
- MCTSPDTU
- MCTSPLTU
- MCTSRWTU
- MCTSSITU
- MCTSTATU
- MCTSTCTU
- MCTSTWTU
- MCTSTYTU
- MCTSUBTU
- MCTTGLTU
- MCTTGSTU
- MCTTIDTU
- MCTTLGTU
- MCTTPDTU
- MCTTRCTU
- MCTTRITU
- MCTTSUTU
- MCTVIATU
- MCTVKPTU
- MCTVLTTU
- MCTVUNTU
- MCTXITTU

\$MCT heading information

Common name:	HASP Master Control Table
Macro ID:	\$MCT
DSECT name:	MCT

Owning component: JES2 (SC1BH)

Eye-catcher ID: None

Storage attributes: Subpool: Part of the HASJES20 load module
Key: 1
Residency: Part of the HASJES20 load module in the JES2 address space.

Size: See field MCTLEN

Created by: Load of module HASJES20.

Pointed to by: \$MCT field of the \$HCT data area

Serialization: None required.

Function: The master control table contains pointers to table pairs within JES2.
The naming convention for tables and table pairs is as follows:
Select a unique three character id for the entity (for example ZZZ).
The MCT fields are:
MCTZZZTP - Label for the table pair
MCTZZZTU - Label for the USER table
MCTZZZTH - Label for the JES2 (HASP) table
MCTZZZTD - Label for dynamic table list
The VCONS (and weak externals for user tables) are:
USERZZZT - Label for the USER table and WXTRN
HASPZZZT - Label for the JES2 (HASP) table
User table addresses can be placed in the \$MCT either by an exit routine storing the address into field MCTZZZTU or by the user table being named USERZZZT and being link-edited with the HASJES20 load module.
Dynamic tables can be placed in the \$MCT via the \$PUTABLE service, which is called automatically when a load module containing dynamic tables is processed by the JES2 LOAD initialization statement.

\$MCT mapping

Table 299. Structure MCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MCT	HASP MASTER CONSOLE TABLE
\$GETABLE TABLE-PAIRS, AND ASSOCIATED TABLE ACCESS ROUTINES.					
0	(0)	ADDRESS	4	MCTPCETP(0)	\$PCETAB table pair
0	(0)	ADDRESS	4	MCTPCETU	"V(USERPCET)" User table
4	(4)	ADDRESS	4	MCTPCETH	"V(HASPPCET)" HASP table
8	(8)	ADDRESS	4	MCTPCETD	Dynamic table array
12	(C)	ADDRESS	4	MCTDCTTP(0)	\$DCTTAB table pair
12	(C)	ADDRESS	4	MCTDCTTU	"V(USERDCTT)" User table
16	(10)	ADDRESS	4	MCTDCTTH	"V(HASPDCTT)" HASP table
20	(14)	ADDRESS	4	MCTDCTTD	Dynamic table array
24	(18)	ADDRESS	4	MCTDCRTP(0)	JOBCLASS RESOURCE= SUBSCAN
24	(18)	ADDRESS	4	MCTDCRTU	"V(USERDCRT)" User table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
28	(1C)	ADDRESS	4	MCTDCRTH	"V(HASPCDRT)" HASP table
32	(20)	ADDRESS	4	MCTDCRTD	Dynamic table array
36	(24)	ADDRESS	4	MCTDRGTP(0)	RESGROUP parm-stmt SUBSCAN pair
36	(24)	ADDRESS	4	MCTDRGTU	"V(USERDRGT)" User table
40	(28)	ADDRESS	4	MCTDRGTH	"V(HASPDRTG)" HASP table
44	(2C)	ADDRESS	4	MCTDRGTD	Dynamic table array
48	(30)	ADDRESS	4	MCTDRRTP(0)	RESGROUP RESOURCE= SUBSCAN
48	(30)	ADDRESS	4	MCTDRRTU	"V(USERDRRT)" User table
52	(34)	ADDRESS	4	MCTDRRTH	"V(HASPDRTT)" HASP table
56	(38)	ADDRESS	4	MCTDRRTD	Dynamic table array
60	(3C)	ADDRESS	4	MCTDTETP(0)	\$DTETAB table pair
60	(3C)	ADDRESS	4	MCTDTETU	"V(USERDTET)" User table
64	(40)	ADDRESS	4	MCTDTETH	"V(HASPDDET)" HASP table
68	(44)	ADDRESS	4	MCTDTETD	Dynamic table array
72	(48)	ADDRESS	4	MCTRDTP(0)	\$RDIRTAB table pair
72	(48)	ADDRESS	4	MCTRDTTU	"V(USERRDTT)" User table
76	(4C)	ADDRESS	4	MCTRDTH	"V(HASPRDTT)" HASP table
80	(50)	ADDRESS	4	MCTRDTH	Dynamic table array
84	(54)	ADDRESS	4	MCTTIDTP(0)	\$TIDTAB table pair
84	(54)	ADDRESS	4	MCTTIDTU	"V(USERTIDT)" User table
88	(58)	ADDRESS	4	MCTTIDTH	"V(HASPTIDT)" HASP table
92	(5C)	ADDRESS	4	MCTTIDTD	Dynamic table array
96	(60)	ADDRESS	4	MCTPCRTP(0)	\$PCTAB table pair
96	(60)	ADDRESS	4	MCTPCRTU	"V(USERPCRT)" User table
100	(64)	ADDRESS	4	MCTPCRTH	"V(HASPPCRT)" HASP table
104	(68)	ADDRESS	4	MCTPCRTD	Dynamic table array
108	(6C)	ADDRESS	4	MCTBRTP(0)	\$BERTTAB table pair
108	(6C)	ADDRESS	4	MCTBRTTU	"V(USERBRTT)" User table
112	(70)	ADDRESS	4	MCTBRTH	"V(HASPBRTT)" HASP table
116	(74)	ADDRESS	4	MCTBRTH	Dynamic table array
\$SCAN FACILITY PRIMARY HASP/USER TABLE PAIRS - TABLE PAIRS FOR THE INITIALIZATION OPTIONS AND FOR PARAMETERS STMTS.					
120	(78)	ADDRESS	4	MCTOPTTP(0)	HASP OPTIONS \$SCAN TABLE
120	(78)	ADDRESS	4	MCTOPTTU	"V(USEROPTT)" User table
124	(7C)	ADDRESS	4	MCTOPTTH	"V(HASPOPTT)" HASP table
128	(80)	ADDRESS	4	MCTOPTTD	Dynamic table array
132	(84)	ADDRESS	4	MCTMPSTP(0)	HASP MAIN-PARM-STMT TABLE
132	(84)	ADDRESS	4	MCTMPSTU	"V(USERMPST)" User table
136	(88)	ADDRESS	4	MCTMPSTH	"V(HASMPST)" HASP table
140	(8C)	ADDRESS	4	MCTMPSTD	Dynamic table array
144	(90)	ADDRESS	4	MCTMGTP(0)	HASP MSG-GEN TABLE PAIR
144	(90)	ADDRESS	4	MCTMGTH	"V(USERMGST)" User table
148	(94)	ADDRESS	4	MCTMGTH	"V(HASPMGST)" HASP table
152	(98)	ADDRESS	4	MCTMGTD	Dynamic table array

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF DEVICE RELATED PARAMETER STATEMENTS.					
156	(9C)	ADDRESS	4	MCTINRTP(0)	INTRDR PARM-STMT SUBSCAN
156	(9C)	ADDRESS	4	MCTINRTU	"V(USERINRT)" User table
160	(A0)	ADDRESS	4	MCTINRTH	"V(HASPINRT)" HASP table
164	(A4)	ADDRESS	4	MCTINRTD	Dynamic table array
168	(A8)	ADDRESS	4	MCTLNETP(0)	LINENNNN PARM-STMT SUBSCAN
168	(A8)	ADDRESS	4	MCTLNETU	"V(USERLNET)" User table
172	(AC)	ADDRESS	4	MCTLNETH	"V(HASPLNET)" HASP table
176	(B0)	ADDRESS	4	MCTLNETD	Dynamic table array
180	(B4)	ADDRESS	4	MCTLTRTP(0)	LINEnnnnn TRACE KEYWORD SUBSCAN
180	(B4)	ADDRESS	4	MCTLTRTU	"V(USERLTRT)" User table
184	(B8)	ADDRESS	4	MCTLTRTH	"V(HASPLTRT)" HASP table
188	(BC)	ADDRESS	4	MCTLTRTD	Dynamic table array
192	(C0)	ADDRESS	4	MCTLINTP(0)	Ln.DVn PARM-STMT SUBSCAN
192	(C0)	ADDRESS	4	MCTLINTU	"V(USERLINT)" User table
196	(C4)	ADDRESS	4	MCTLINTH	"V(HASPLINT)" HASP table
200	(C8)	ADDRESS	4	MCTLINTD	Dynamic table array
204	(CC)	ADDRESS	4	MCTLJRTP(0)	Ln.JR PARM-STMT SUBSCAN
204	(CC)	ADDRESS	4	MCTLJRTH	"V(USERLJRT)" User table
208	(D0)	ADDRESS	4	MCTLJRTH	"V(HASPLJRT)" HASP table
212	(D4)	ADDRESS	4	MCTLJRTH	Dynamic table array
216	(D8)	ADDRESS	4	MCTLJTTP(0)	Ln.JT PARM-STMT SUBSCAN
216	(D8)	ADDRESS	4	MCTLJTTH	"V(USERLJTT)" User table
220	(DC)	ADDRESS	4	MCTLJTTH	"V(HASPLJTT)" HASP table
224	(E0)	ADDRESS	4	MCTLJTTH	Dynamic table array
228	(E4)	ADDRESS	4	MCTLSRTP(0)	Ln.SR PARM-STMT SUBSCAN
228	(E4)	ADDRESS	4	MCTLSRTU	"V(USERLSRT)" User table
232	(E8)	ADDRESS	4	MCTLSRTH	"V(HASPLSRT)" HASP table
236	(EC)	ADDRESS	4	MCTLSRTD	Dynamic table array
240	(F0)	ADDRESS	4	MCTLSTTP(0)	Ln.ST PARM-STMT SUBSCAN
240	(F0)	ADDRESS	4	MCTLSTTU	"V(USERLSTT)" User table
244	(F4)	ADDRESS	4	MCTLSTTH	"V(HASPLSTT)" HASP table
248	(F8)	ADDRESS	4	MCTLSTTD	Dynamic table array
252	(FC)	ADDRESS	4	MCTLOGTP(0)	LOGONN PARM-STMT SUBSCAN
252	(FC)	ADDRESS	4	MCTLOGTU	"V(USERLOGT)" User table
256	(100)	ADDRESS	4	MCTLOGTH	"V(HASPLOGT)" HASP table
260	(104)	ADDRESS	4	MCTLOGTD	Dynamic table array
264	(108)	ADDRESS	4	MCTOFLTP(0)	OFFLOADN PARM-STMT SUBSCAN PAIR
264	(108)	ADDRESS	4	MCTOFLTU	"V(USEROFLT)" User table
268	(10C)	ADDRESS	4	MCTOFLTH	"V(HASPOFLT)" HASP table
272	(110)	ADDRESS	4	MCTOFLTD	Dynamic table array
276	(114)	ADDRESS	4	MCTOFFTP(0)	OFFN.DV PARM-STMT SUBSCAN PAIR
276	(114)	ADDRESS	4	MCTOFFTU	"V(USEROFFT)" User table
280	(118)	ADDRESS	4	MCTOFFTH	"V(HASPOFFT)" HASP table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	ADDRESS	4	MCTOFFTD	Dynamic table array
288	(120)	ADDRESS	4	MCTOJRTP(0)	OFFN.JR PARM-STMT SUBSCAN PAIR
288	(120)	ADDRESS	4	MCTOJRTU	"V(USEROJRT)" User table
292	(124)	ADDRESS	4	MCTOJRTH	"V(HASPOJRT)" HASP table
296	(128)	ADDRESS	4	MCTOJRTD	Dynamic table array
300	(12C)	ADDRESS	4	MCTOJTTP(0)	OFFN.JT PARM-STMT SUBSCAN PAIR
300	(12C)	ADDRESS	4	MCTOJTJU	"V(USEROJTT)" User table
304	(130)	ADDRESS	4	MCTOJTTH	"V(HASPOJTT)" HASP table
308	(134)	ADDRESS	4	MCTOJTTD	Dynamic table array
312	(138)	ADDRESS	4	MCTOSRTP(0)	OFFN.SR PARM-STMT SUBSCAN PAIR
312	(138)	ADDRESS	4	MCTOSRTU	"V(USEROSRT)" User table
316	(13C)	ADDRESS	4	MCTOSRTH	"V(HASPOSRT)" HASP table
320	(140)	ADDRESS	4	MCTOSRTD	Dynamic table array
324	(144)	ADDRESS	4	MCTOSTTP(0)	OFFN.ST PARM-STMT SUBSCAN PAIR
324	(144)	ADDRESS	4	MCTOSTTU	"V(USEROSTT)" User table
328	(148)	ADDRESS	4	MCTOSTTH	"V(HASPOSTT)" HASP table
332	(14C)	ADDRESS	4	MCTOSTTD	Dynamic table array
336	(150)	ADDRESS	4	MCTPYITP(0)	POLICY IMPORT PARM-STMT SUBSCAN PAIR
336	(150)	ADDRESS	4	MCTPYITU	"V(USERPYIT)" User table
340	(154)	ADDRESS	4	MCTPYITH	"V(HASPPYIT)" HASP table
344	(158)	ADDRESS	4	MCTPYITD	Dynamic table array
348	(15C)	ADDRESS	4	MCTPYDTP(0)	POLICY DELETE PARM-STMT SUBSCAN PAIR
348	(15C)	ADDRESS	4	MCTPYDTU	"V(USERPYDT)" User table
352	(160)	ADDRESS	4	MCTPYDTH	"V(HASPPYDT)" HASP table
356	(164)	ADDRESS	4	MCTPYDTD	Dynamic table array
360	(168)	ADDRESS	4	MCTPYETP(0)	POLICY ENABLE PARM-STMT SUBSCAN PAIR
360	(168)	ADDRESS	4	MCTPYETU	"V(USERPYET)" User table
364	(16C)	ADDRESS	4	MCTPYETH	"V(HASPPYET)" HASP table
368	(170)	ADDRESS	4	MCTPYETD	Dynamic table array
372	(174)	ADDRESS	4	MCTPYSTP(0)	POLICY DISABLE PARM-STMT SUBSCAN PAIR
372	(174)	ADDRESS	4	MCTPYSTU	"V(USERPYST)" User table
376	(178)	ADDRESS	4	MCTPYSTH	"V(HASPPYST)" HASP table
380	(17C)	ADDRESS	4	MCTPYSTD	Dynamic table array
384	(180)	ADDRESS	4	MCTDPYTP(0)	POLICY DISPLAY PARM-STMT SUBSCAN PAIR
384	(180)	ADDRESS	4	MCTDPYTU	"V(USERDPYT)" User table
388	(184)	ADDRESS	4	MCTDPYTH	"V(HASDPYTH)" HASP table
392	(188)	ADDRESS	4	MCTDPYTD	Dynamic table array
396	(18C)	ADDRESS	4	MCTCDITP(0)	CKPTSPACE CDI= PARM-STMT SUBSCAN PAIR
396	(18C)	ADDRESS	4	MCTCDITU	"V(USERCDIT)" User table
400	(190)	ADDRESS	4	MCTCDITH	"V(HASPCDIT)" HASP table
404	(194)	ADDRESS	4	MCTCDITD	Dynamic table array
408	(198)	ADDRESS	4	MCTPRTP(0)	PRINTERNN PARM-STMT SUBSCAN
408	(198)	ADDRESS	4	MCTPRTTU	"V(USERPRTT)" User table
412	(19C)	ADDRESS	4	MCTPRTTH	"V(HASPPRTT)" HASP table
416	(1A0)	ADDRESS	4	MCTPRTTD	Dynamic table array

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
420	(1A4)	ADDRESS	4	MCTPRLTP(0)	PROCLIB(nnnnnnnn) PARM-STMT SUBSCAN
420	(1A4)	ADDRESS	4	MCTPRLTU	"V(USERPRLT)" User table
424	(1A8)	ADDRESS	4	MCTPRLTH	"V(HASPPRLT)" HASP table
428	(1AC)	ADDRESS	4	MCTPRLTD	Dynamic table array
432	(1B0)	ADDRESS	4	MCTPUNTP(0)	PUNCHNN PARM-STMT SUBSCAN
432	(1B0)	ADDRESS	4	MCTPUNTU	"V(USERPUNT)" User table
436	(1B4)	ADDRESS	4	MCTPUNTH	"V(HASPPUNT)" HASP table
440	(1B8)	ADDRESS	4	MCTPUNTD	Dynamic table array
444	(1BC)	ADDRESS	4	MCTRDITP(0)	RDI PARM-STMT SUBSCAN PAIR
444	(1BC)	ADDRESS	4	MCTRDITU	"V(USERRDIT)" User table
448	(1C0)	ADDRESS	4	MCTRDITH	"V(HASPRDIT)" HASP table
452	(1C4)	ADDRESS	4	MCTRDITD	Dynamic table array
456	(1C8)	ADDRESS	4	MCTRD RTP(0)	READERNN PARM-STMT SUBSCAN
456	(1C8)	ADDRESS	4	MCTRDRTU	"V(USERRDRT)" User table
460	(1CC)	ADDRESS	4	MCTRD RTH	"V(HASPRDRT)" HASP table
464	(1D0)	ADDRESS	4	MCTRDRTD	Dynamic table array
468	(1D4)	ADDRESS	4	MCTRGDTP(0)	CKPTSPACE RGD= PARM-STMT SUBSCAN PAIR
468	(1D4)	ADDRESS	4	MCTRGDTU	"V(USERRGDT)" User table
472	(1D8)	ADDRESS	4	MCTRGDTH	"V(HASPRGDT)" HASP table
476	(1DC)	ADDRESS	4	MCTRGDTD	Dynamic table array
480	(1E0)	ADDRESS	4	MCTRQJTP(0)	REQJOBID PARM-STMT SUBSCAN
480	(1E0)	ADDRESS	4	MCTRQJTU	"V(USERRQJT)" User table
484	(1E4)	ADDRESS	4	MCTRQJTH	"V(HASPRQJT)" HASP table
488	(1E8)	ADDRESS	4	MCTRQJTD	Dynamic table array
492	(1EC)	ADDRESS	4	MCTRDVTP(0)	RNNNDVX PARM-STMT SUBSCAN PAIR
492	(1EC)	ADDRESS	4	MCTRDVTU	"V(USERRDVT)" User table
496	(1F0)	ADDRESS	4	MCTRDVTH	"V(HASPRDVT)" HASP table
500	(1F4)	ADDRESS	4	MCTRDVTD	Dynamic table array
504	(1F8)	ADDRESS	4	MCTRP RTP(0)	RNNNPRX PARM-STMT SUBSCAN
504	(1F8)	ADDRESS	4	MCTRPRTU	"V(USERRPRT)" User table
508	(1FC)	ADDRESS	4	MCTRP RTH	"V(HASPRPRT)" HASP table
512	(200)	ADDRESS	4	MCTRPRTD	Dynamic table array
516	(204)	ADDRESS	4	MCTRPUTP(0)	RNNNPUX PARM-STMT SUBSCAN
516	(204)	ADDRESS	4	MCTRPUTU	"V(USERRPUT)" User table
520	(208)	ADDRESS	4	MCTRPUTH	"V(HASPRPUT)" HASP table
524	(20C)	ADDRESS	4	MCTRPUTD	Dynamic table array
528	(210)	ADDRESS	4	MCTRRDTP(0)	RNNNRDX PARM-STMT SUBSCAN
528	(210)	ADDRESS	4	MCTRRDTU	"V(USERRRDT)" User table
532	(214)	ADDRESS	4	MCTRRDTH	"V(HASPRRDT)" HASP table
536	(218)	ADDRESS	4	MCTRRDTD	Dynamic table array
540	(21C)	ADDRESS	4	MCTRCNTP(0)	RNNNCN PARM-STMT SUBSCAN
540	(21C)	ADDRESS	4	MCTRCNTU	"V(USERRCNT)" User table
544	(220)	ADDRESS	4	MCTRCNTH	"V(HASPRCNT)" HASP table
548	(224)	ADDRESS	4	MCTRCNTD	Dynamic table array
552	(228)	ADDRESS	4	MCTSUBTP(0)	SUBNET PARM-STMT SUBSCAN

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
552	(228)	ADDRESS	4	MCTSUBTU	"V(USERSUBT)" User table
556	(22C)	ADDRESS	4	MCTSUBTH	"V(HASPSUBT)" HASP table
560	(230)	ADDRESS	4	MCTSUBTD	Dynamic table array
564	(234)	ADDRESS	4	MCTNSVTP(0)	NETSRV PARM-STMT SUBSCAN
564	(234)	ADDRESS	4	MCTNSVTU	"V(USERSVTP)" User table
568	(238)	ADDRESS	4	MCTNSVTH	"V(HASPSVTP)" HASP table
572	(23C)	ADDRESS	4	MCTNSVTD	Dynamic table array
576	(240)	ADDRESS	4	MCTNTRTP(0)	NETSRVnnn TRACE KEYWORD SUBSCAN
576	(240)	ADDRESS	4	MCTNTRTU	"V(USERNTRT)" User table
580	(244)	ADDRESS	4	MCTNTRTH	"V(HASPNTRT)" HASP table
584	(248)	ADDRESS	4	MCTNTRTD	Dynamic table array
588	(24C)	ADDRESS	4	MCTSOKTP(0)	SOCKET PARM-STMT SUBSCAN
588	(24C)	ADDRESS	4	MCTSOKTU	"V(USERSOKT)" User table
592	(250)	ADDRESS	4	MCTSOKTH	"V(HASPSOKT)" HASP table
596	(254)	ADDRESS	4	MCTSOKTD	Dynamic table array
600	(258)	ADDRESS	4	MCTSBMTP(0)	SUBMITRDR PARM-STMT SUBSCAN
600	(258)	ADDRESS	4	MCTSBMTU	"V(USERSBMT)" User table
604	(25C)	ADDRESS	4	MCTSBMTH	"V(HASPSBMT)" HASP table
608	(260)	ADDRESS	4	MCTSBMTD	Dynamic table array
612	(264)	ADDRESS	4	MCTVFYTP(0)	VERIFY command-STMT SUBSCAN
612	(264)	ADDRESS	4	MCTVFYTU	"V(USERVFYT)" User table
616	(268)	ADDRESS	4	MCTVFYTH	"V(HASPVFYT)" HASP table
620	(26C)	ADDRESS	4	MCTVFYTD	Dynamic table array
624	(270)	ADDRESS	4	(3)	Reserved for future use
\$SCAN FACILITY HASP TABLE FOR SUBSCANNING OF VECTOR TYPE PARAMETER STATEMENTS.					
636	(27C)	ADDRESS	4	MCTADRTP(0)	BAD TRACK ADDRESS OPERAND VECTR
636	(27C)	ADDRESS	4	MCTADRTH	"V(HASPVADR)" HASP VECTOR table
640	(280)	ADDRESS	4	MCTVTMTP(0)	TIME OPERAND VECTOR
640	(280)	ADDRESS	4	MCTVTMTH	"V(HASPVTIM)" HASP VECTOR table
644	(284)	ADDRESS	4	MCTAUTTP(0)	AUTHORITY OPERAND VECTOR
644	(284)	ADDRESS	4	MCTAUTTH	"V(HASPVAUT)" HASP VECTOR table
648	(288)	ADDRESS	4	MCTMSGTP(0)	MESSAGE OPERAND VECTOR
648	(288)	ADDRESS	4	MCTMSGTH	"V(HASPVMSG)" HASP VECTOR table
652	(28C)	ADDRESS	4	MCTCH RTP(0)	CHARACTER OPERAND VECTOR
652	(28C)	ADDRESS	4	MCTCH RTH	"V(HASPVCHR)" HASP VECTOR table
656	(290)	ADDRESS	4	MCTXRTP(0)	ROUTINE OPERAND VECTOR
656	(290)	ADDRESS	4	MCTXRTH	"V(HASPVXRT)" HASP VECTOR table
660	(294)	ADDRESS	4	MCTJRNTTP(0)	JOB RANGE OPERAND VECTOR (INIT)
660	(294)	ADDRESS	4	MCTJRNTTH	"V(HASPVJRN)" HASP VECTOR table
664	(298)	ADDRESS	4	MCTRANTTP(0)	JOB RANGE OPERAND VECTOR(\$T/\$D)
664	(298)	ADDRESS	4	MCTRANTH	"V(HASPVJBR)" HASP VECTOR table
668	(29C)	ADDRESS	4	MCTDRMTP(0)	DORMANCY OPERAND VECTOR
668	(29C)	ADDRESS	4	MCTDRMTH	"V(HASPVDRM)" HASP VECTOR table
672	(2A0)	ADDRESS	4	MCTRNGTP(0)	RANGE OPERAND VECTOR

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
672	(2A0)	ADDRESS	4	MCTRN2TP(0)	"V(HASPVVRNG)" HASP VECTOR table
676	(2A4)	ADDRESS	4	MCTRN2TP(0)	RANGE OPERAND VECTOR 2
676	(2A4)	ADDRESS	4	MCTRN2TH	"V(HASPVVRN2)" HASP VECTOR table
680	(2A8)	ADDRESS	4	MCTPRCTP(0)	ROUTE CODE OPERAND VECTOR
680	(2A8)	ADDRESS	4	MCTPRCTH	"V(HASPVPRC)" HASP VECTOR table
684	(2AC)	ADDRESS	4	MCTSAFTP(0)	SYSTEM AFFINITY OPERAND VECTOR
684	(2AC)	ADDRESS	4	MCTSAFTH	"V(HASPVSAF)" HASP VECTOR table
688	(2B0)	ADDRESS	4	MCTVOLTP(0)	VOLUME OPERAND VECTOR
688	(2B0)	ADDRESS	4	MCTVOLTH	"V(HASPVVOL)" HASP VECTOR table
692	(2B4)	ADDRESS	4	MCTFRMTP(0)	FORMS OPERAND VECTOR
692	(2B4)	ADDRESS	4	MCTFRMTH	"V(HASPVFRM)" HASP VECTOR table
696	(2B8)	ADDRESS	4	MCTPPRTP(0)	PRMODE OPERAND VECTOR
696	(2B8)	ADDRESS	4	MCTPPRTH	"V(HASPVPPR)" HASP VECTOR table
700	(2BC)	ADDRESS	4	MCTLIMTP(0)	LIMIT OPERAND VECTOR
700	(2BC)	ADDRESS	4	MCTLIMTH	"V(HASPVLM)" HASP VECTOR table
704	(2C0)	ADDRESS	4	MCTMSMTP(0)	MODULE ASSEMBLE= VECTOR
704	(2C0)	ADDRESS	4	MCTMSMTH	"V(HASPMSMT)" HASP VECTOR table
708	(2C4)	ADDRESS	4	MCTPLMTP(0)	PLIM OPERAND VECTOR
708	(2C4)	ADDRESS	4	MCTPLMTH	"V(HASPVPLM)" HASP VECTOR table
712	(2C8)	ADDRESS	4	MCTOUNTP(0)	OFFLOAD UNIT= OPERAND
712	(2C8)	ADDRESS	4	MCTOUNTH	"V(HASPOUNT)" HASP VECTOR table
716	(2CC)	ADDRESS	4	MCTVWSTP(0)	WS OPERAND VECTOR
716	(2CC)	ADDRESS	4	MCTVWSTH	"V(HASPVWST)" HASP VECTOR table
720	(2D0)	ADDRESS	4	MCTVOSTP(0)	OUTDISP OPERAND VECTOR
720	(2D0)	ADDRESS	4	MCTVOSTH	"V(HASPVODS)" HASP VECTOR table
724	(2D4)	ADDRESS	4	MCTVOJTP(0)	OUTDISP OPERAND
724	(2D4)	ADDRESS	4	MCTVOJTH	"V(HASPVODJ)" HASP VECTOR table
728	(2D8)	ADDRESS	4	MCTVSRTP(0)	OUTDISP OPERAND VECTOR
728	(2D8)	ADDRESS	4	MCTVSRTH	"V(HASPVOSR)" HASP VECTOR table
732	(2DC)	ADDRESS	4	MCTVSTTP(0)	OUTDISP OPERAND VECTOR
732	(2DC)	ADDRESS	4	MCTVSTTH	"V(HASPVOST)" HASP VECTOR table
736	(2E0)	ADDRESS	4	MCTVSFTP(0)	RDRnn SYSAFF=OPERAND VECTOR
736	(2E0)	ADDRESS	4	MCTVSFTH	"V(HASPRSFT)" HASP VECTOR table
740	(2E4)	ADDRESS	4	MCTVWSAP(0)	SRVCLASS ACTIVE= OPERAND VECTOR
740	(2E4)	ADDRESS	4	MCTVWSAH	"V(HASPWSAP)" HASP VECTOR table
744	(2E8)	ADDRESS	4	MCTVCATP(0)	JOBCLASS ACTIVE= operand vector
744	(2E8)	ADDRESS	4	MCTVCATH	"V(HASPCATP)" HASP VECTOR table
748	(2EC)	ADDRESS	4	MCTVSSTP(0)	SPOOL SYSAFF=OPERAND VECTOR
748	(2EC)	ADDRESS	4	MCTVSSTH	"V(HASPRSST)" HASP VECTOR table
752	(2F0)	ADDRESS	4	MCTVISTP(0)	SPOOL INIT SYSAFF=operand Vector
752	(2F0)	ADDRESS	4	MCTVISTH	"V(HASPISAF)" HASP VECTOR table
756	(2F4)	ADDRESS	4	MCTVJCTP(0)	JOBnn CMDAUTH= VECTOR
756	(2F4)	ADDRESS	4	MCTVJCTH	"V(HASPJCMT)" HASP VECTOR table
760	(2F8)	ADDRESS	4	MCTVJSTP(0)	JOBnn SYSAFF=OPERAND VECTOR
760	(2F8)	ADDRESS	4	MCTVJSTH	"V(HASPJSFT)" HASP VECTOR table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
764	(2FC)	ADDRESS	4	MCTVJOFP(0)	JOBNn OFFS= OPERAND VECTOR
764	(2FC)	ADDRESS	4	MCTVJOFH	"V(HASPJOFT)" HASP VECTOR table
768	(300)	ADDRESS	4	MCTVSOFP(0)	OUTPUT OFFS= OPERAND VECTOR
768	(300)	ADDRESS	4	MCTVSOFH	"V(HASPSOFT)" HASP VECTOR table
772	(304)	ADDRESS	4	MCTVVUDP(0)	SPOOL UNITDATA TRKRANGE
772	(304)	ADDRESS	4	MCTVVUDH	"V(HASPVUDT)" HASP VECTOR table
776	(308)	ADDRESS	4	MCTVJVLP(0)	JOBNnn VOLUMES= vector
776	(308)	ADDRESS	4	MCTVJVLH	"V(HASPVJVT)" HASP VECTOR table
780	(30C)	ADDRESS	4	MCTVJABP(0)	JOBNnn ABEND= vector
780	(30C)	ADDRESS	4	MCTVJABH	"V(HASPVABT)" HASP VECTOR table
784	(310)	ADDRESS	4	MCTVOJLP(0)	JESLOG OPERAND
784	(310)	ADDRESS	4	MCTVOJLH	"V(HASPVJL)" HASP VECTOR table
788	(314)	ADDRESS	4	MCTDV RTP(0)	LINE n/LOGON n/NETSRV n RESTART KEYWORD SUBSCAN
788	(314)	ADDRESS	4	MCTDV RTH	"V(HASPV DVR)" HASP VECTOR table
792	(318)	ADDRESS	4	MCTLNCTP(0)	LINE nnnnnn CONNECT KEYWORD SUBSCAN
792	(318)	ADDRESS	4	MCTLNCTH	"V(HASPV LNC)" HASP VECTOR table
796	(31C)	ADDRESS	4	MCTSKCTP(0)	SOCKET CONNECT KEYWORD SUBSCAN
796	(31C)	ADDRESS	4	MCTSKCTH	"V(HASPV SKC)" HASP VECTOR table
800	(320)	ADDRESS	4	MCTSPSTP(0)	SPOOL SPACE= subparm
800	(320)	ADDRESS	4	MCTSPSTH	"V(HASPV SPS)" HASP VECTOR table
804	(324)	ADDRESS	4	MCTAPCTP(0)	APPL CONNECT KEYWORD SUBSCAN
804	(324)	ADDRESS	4	MCTAPCTH	"V(HASPV APC)" HASP VECTOR table
808	(328)	ADDRESS	4	MCTNJCTP(0)	NJEDEF CONNECT KEYWORD SUBSCAN
808	(328)	ADDRESS	4	MCTNJCTH	"V(HASPV NJC)" HASP VECTOR table
812	(32C)	ADDRESS	4	MCTNOCTP(0)	NODE nnnnnn CONNECT KEYWORD SUBSCAN
812	(32C)	ADDRESS	4	MCTNOCTH	"V(HASPV NOC)" HASP VECTOR table
816	(330)	ADDRESS	4	MCTPTCTP(0)	INIT(xxx) CLASS KEYWORD SUBSCAN
816	(330)	ADDRESS	4	MCTPTCTH	"V(HASPV PTC)" HASP VECTOR table
820	(334)	ADDRESS	4	MCTOFCTP(0)	OFFx.Jx CLASS KEYWORD SUBSCAN
820	(334)	ADDRESS	4	MCTOFCTH	"V(HASPV OFC)" HASP VECTOR table
824	(338)	ADDRESS	4	MCTCKSTP(0)	CKPTn SPACE= subparm
824	(338)	ADDRESS	4	MCTCKSTH	"V(HASPV CKS)" HASP VECTOR table
828	(33C)	ADDRESS	4	MCTCFSTP(0)	CKPTSPACE CKPTn SIZE= vector
828	(33C)	ADDRESS	4	MCTCFSTH	"V(HASPV CFS)" HASP VECTOR table
832	(340)	ADDRESS	4	MCTP1CTP(0)	INIT(xxx) 1-CHAR CLASS KEYWRD SUBSCAN
832	(340)	ADDRESS	4	MCTP1CTH	"V(HASPV P1C)" HASP VECTOR table
836	(344)	ADDRESS	4		Reserved for future use
840	(348)	ADDRESS	4		Reserved for future use
844	(34C)	ADDRESS	4		Reserved for future use
848	(350)	ADDRESS	4		Reserved for future use

\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF
MISCELLANEOUS PARAMETER STATEMENTS.

852	(354)	ADDRESS	4	MCTACTTP(0)	ACTRMT statement table pair
852	(354)	ADDRESS	4	MCTACTTU	"V(USERACTT)" User table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
856	(358)	ADDRESS	4	MCTACTTH	"V(HASPACTT)" HASP table
860	(35C)	ADDRESS	4	MCTACTTD	Dynamic table array
864	(360)	ADDRESS	4	MCTAPLTP(0)	APPL PARM-STMT SUBSCAN
864	(360)	ADDRESS	4	MCTAPLTU	"V(USERAPLT)" User table
868	(364)	ADDRESS	4	MCTAPLTH	"V(HASPAPLT)" HASP table
872	(368)	ADDRESS	4	MCTAPLTD	Dynamic table array
876	(36C)	ADDRESS	4	MCTBADTP(0)	BADTRACK PARM-STMT SUBSCAN
876	(36C)	ADDRESS	4	MCTBADTU	"V(USERBADT)" User table
880	(370)	ADDRESS	4	MCTBADTH	"V(HASPBADT)" HASP table
884	(374)	ADDRESS	4	MCTBADTD	Dynamic table array
888	(378)	ADDRESS	4	MCTBUFTP(0)	BUFDEF PARM-STMT SUBSCAN PAIR
888	(378)	ADDRESS	4	MCTBUFTU	"V(USERBUFT)" User table
892	(37C)	ADDRESS	4	MCTBUFTH	"V(HASPBUFT)" HASP table
896	(380)	ADDRESS	4	MCTBUFTD	Dynamic table array
900	(384)	ADDRESS	4	MCTBFHTP(0)	BUFDEF BELOWBUF SUBSCAN PR
900	(384)	ADDRESS	4	MCTBFHTU	"V(USERBFHT)" User table
904	(388)	ADDRESS	4	MCTBFHTH	"V(HASPBHFT)" HASP table
908	(38C)	ADDRESS	4	MCTBFHTD	Dynamic table array
912	(390)	ADDRESS	4	MCTBFXTP(0)	BUFDEF ABOVEBUF SUBSCAN PR
912	(390)	ADDRESS	4	MCTBFXTU	"V(USERBFXT)" User table
916	(394)	ADDRESS	4	MCTBFXTH	"V(HASPBFXT)" HASP table
920	(398)	ADDRESS	4	MCTBFXTD	Dynamic table array
924	(39C)	ADDRESS	4	MCTBSCTP(0)	TPDEF BSC SUBSCAN PAIR
924	(39C)	ADDRESS	4	MCTBSCTU	"V(USERBSCT)" User table
928	(3A0)	ADDRESS	4	MCTBSCTH	"V(HASPBSTCT)" HASP table
932	(3A4)	ADDRESS	4	MCTBSCTD	Dynamic table array
936	(3A8)	ADDRESS	4	MCTSNATP(0)	TPDEF SNA SUBSCAN PAIR
936	(3A8)	ADDRESS	4	MCTSNATU	"V(USERSNAT)" User table
940	(3AC)	ADDRESS	4	MCTSNATH	"V(HASPSNAT)" HASP table
944	(3B0)	ADDRESS	4	MCTSNATD	Dynamic table array
948	(3B4)	ADDRESS	4	MCTSESTP(0)	TPDEF SESSIONS= subscan
948	(3B4)	ADDRESS	4	MCTSESTU	"V(USERSEST)" User table
952	(3B8)	ADDRESS	4	MCTSESTH	"V(HASPSEST)" HASP table
956	(3BC)	ADDRESS	4	MCTSESTD	Dynamic table array
960	(3C0)	ADDRESS	4	MCTJCXTP(0)	JOBCLASS XEQCOUNT= subscan
960	(3C0)	ADDRESS	4	MCTJCXTU	"V(USERJCXT)" User table
964	(3C4)	ADDRESS	4	MCTJCXTH	"V(HASPJCXT)" HASP table
968	(3C8)	ADDRESS	4	MCTJCXTD	Dynamic table array
972	(3CC)	ADDRESS	4	MCTJCCTP(0)	JOB CC (completion code)
972	(3CC)	ADDRESS	4	MCTJCCTU	"V(USERJCCT)" User table
976	(3D0)	ADDRESS	4	MCTJCCTH	"V(HASPJCCT)" HASP table
980	(3D4)	ADDRESS	4	MCTJCCTD	Dynamic table array
984	(3D8)	ADDRESS	4	MCTCATTP(0)	JOB CLASS PARM-STMTS SUBSCAN
984	(3D8)	ADDRESS	4	MCTCATTU	"V(USERCATT)" User table
988	(3DC)	ADDRESS	4	MCTCATTH	"V(HASPCATT)" HASP table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
992	(3E0)	ADDRESS	4	MCTCATTD	Dynamic table array
996	(3E4)	ADDRESS	4	MCTVXMT(0)	JOBCLASS XEQMEMBER= SUBSCAN
996	(3E4)	ADDRESS	4	MCTVXMTU	"V(USERVXMT)" User table
1000	(3E8)	ADDRESS	4	MCTVXMTH	"V(HASPXMT)" HASP table
1004	(3EC)	ADDRESS	4	MCTVXMTD	Dynamic table array
1008	(3F0)	ADDRESS	4	MCTCKTTP(0)	CKPTDEF PARM-STMT SUBSCAN PAIR
1008	(3F0)	ADDRESS	4	MCTCKTTU	"V(USERCKTT)" User table
1012	(3F4)	ADDRESS	4	MCTCKTTH	"V(HASPCKTT)" HASP table
1016	(3F8)	ADDRESS	4	MCTCKTTD	Dynamic table array
1020	(3FC)	ADDRESS	4	MCTCKLTP(0)	CKPTLOCK PARM-STMT TABLE PR
1020	(3FC)	ADDRESS	4	MCTCKLTU	"V(USERCKLT)" User table
1024	(400)	ADDRESS	4	MCTCKLTH	"V(HASPCKLT)" HASP table
1028	(404)	ADDRESS	4	MCTCKLTD	Dynamic table array
1032	(408)	ADDRESS	4	MCTSPCTP(0)	CKPTSPACE Parm-stmt tbl pr
1032	(408)	ADDRESS	4	MCTSPCTU	"V(USERSPCT)" User table
1036	(40C)	ADDRESS	4	MCTSPCTH	"V(HASPSPCT)" HASP table
1040	(410)	ADDRESS	4	MCTSPCTD	Dynamic table array
1044	(414)	ADDRESS	4	MCTKPNT(0)	CKPTDEF CKPTN= SUBSCAN PAIR
1044	(414)	ADDRESS	4	MCTKPNTU	"V(USERKPNT)" User table
1048	(418)	ADDRESS	4	MCTKPNTH	"V(HASPKPNT)" HASP table
1052	(41C)	ADDRESS	4	MCTKPNTD	Dynamic table array
1056	(420)	ADDRESS	4	MCTEDSTP(0)	
1056	(420)	ADDRESS	4	MCTEDSTU	"V(USEREDST)" User table
1060	(424)	ADDRESS	4	MCTEDSTH	"V(HASPEDST)" HASP table
1064	(428)	ADDRESS	4	MCTEDSTD	Dynamic table array
1068	(42C)	ADDRESS	4	MCTEKNT(0)	CKPTDEF NEWCKPTN= SUBSCAN
1068	(42C)	ADDRESS	4	MCTEKNTU	"V(USEREKNT)" User table
1072	(430)	ADDRESS	4	MCTEKNTH	"V(HASPEKNT)" HASP table
1076	(434)	ADDRESS	4	MCTEKNTD	Dynamic table array
1080	(438)	ADDRESS	4	MCTESQTP(0)	
1080	(438)	ADDRESS	4	MCTESQTU	"V(USERESQT)" User table
1084	(43C)	ADDRESS	4	MCTESQTH	"V(HASPESQT)" HASP table
1088	(440)	ADDRESS	4	MCTESQTD	Dynamic table array
1092	(444)	ADDRESS	4	MCTVLTP(0)	CKPTDEF VOLATILE= subscan
1092	(444)	ADDRESS	4	MCTVLTTU	"V(USERVLT)" User table
1096	(448)	ADDRESS	4	MCTVLTH	"V(HASPVLT)" HASP table
1100	(44C)	ADDRESS	4	MCTVLTTD	Dynamic table array
1104	(450)	ADDRESS	4	MCTVKPT(0)	CKPTDEF VERSIONS= SUBSCAN
1104	(450)	ADDRESS	4	MCTVKPTU	"V(USERVKPT)" User table
1108	(454)	ADDRESS	4	MCTVKPTH	"V(HASPVKPT)" HASP table
1112	(458)	ADDRESS	4	MCTVKPTD	Dynamic table array
1116	(45C)	ADDRESS	4	MCTCLGTP(0)	CLASSGRP PARM-STMT SUBSCAN
1116	(45C)	ADDRESS	4	MCTCLGTU	"V(USERCLGT)" User table
1120	(460)	ADDRESS	4	MCTCLGTH	"V(HASPCLG)" HASP table
1124	(464)	ADDRESS	4	MCTCLGTD	Dynamic table array

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1128	(468)	ADDRESS	4	MCTCNDTP(0)	CONDEF PARM-STMT SUBSCAN PAIR
1128	(468)	ADDRESS	4	MCTCNDTU	"V(USERCNDT)" User table
1132	(46C)	ADDRESS	4	MCTCNDTH	"V(HASPCNDT)" HASP table
1136	(470)	ADDRESS	4	MCTCNDTD	Dynamic table array
1140	(474)	ADDRESS	4	MCTCOMTP(0)	COMPACT PARM-STMT SUBSCAN
1140	(474)	ADDRESS	4	MCTCOMTU	"V(USERCOMT)" User table
1144	(478)	ADDRESS	4	MCTCOMTH	"V(HASPCOMT)" HASP table
1148	(47C)	ADDRESS	4	MCTCOMTD	Dynamic table array
1152	(480)	ADDRESS	4	MCTCONTP(0)	CONNECT PARM-STMT SUBSCAN
1152	(480)	ADDRESS	4	MCTCONTU	"V(USERCONT)" User table
1156	(484)	ADDRESS	4	MCTCONTH	"V(HASPCONT)" HASP table
1160	(488)	ADDRESS	4	MCTCONTD	Dynamic table array
1164	(48C)	ADDRESS	4	MCTDBGTP(0)	DEBUG stmt table pair
1164	(48C)	ADDRESS	4	MCTDBGTU	"V(USERDBGT)" User table
1168	(490)	ADDRESS	4	MCTDBGTH	"V(HASPDGBT)" HASP table
1172	(494)	ADDRESS	4	MCTDBGTD	Dynamic table array
1176	(498)	ADDRESS	4	MCTDESTP(0)	DESTID PARM-STMT SUBSCAN
1176	(498)	ADDRESS	4	MCTDESTU	"V(USERDEST)" User table
1180	(49C)	ADDRESS	4	MCTDESTH	"V(HASPDDEST)" HASP table
1184	(4A0)	ADDRESS	4	MCTDESTD	Dynamic table array
1188	(4A4)	ADDRESS	4	MCTDSTTP(0)	DESTDEF stmt table pair
1188	(4A4)	ADDRESS	4	MCTDSTTU	"V(USERDSTT)" User table
1192	(4A8)	ADDRESS	4	MCTDSTTH	"V(HASPDSTT)" HASP table
1196	(4AC)	ADDRESS	4	MCTDSTTD	Dynamic table array
1200	(4B0)	ADDRESS	4	MCTDROTP(0)	DATADEF stmt table pair
1200	(4B0)	ADDRESS	4	MCTDROTU	"V(USERDROT)" User table
1204	(4B4)	ADDRESS	4	MCTDROTH	"V(HASPDROT)" HASP table
1208	(4B8)	ADDRESS	4	MCTDROTD	Dynamic table array
1212	(4BC)	ADDRESS	4	MCTDAXTP(0)	DATADEF INDEX= subscan pair
1212	(4BC)	ADDRESS	4	MCTDAXTU	"V(USERDAXT)" User table
1216	(4C0)	ADDRESS	4	MCTDAXTH	"V(HASPDAXT)" HASP table
1220	(4C4)	ADDRESS	4	MCTDAXTD	Dynamic table array
1224	(4C8)	ADDRESS	4	MCTDUPTP(0)	DUPJOB stmt table pair
1224	(4C8)	ADDRESS	4	MCTDUPTU	"V(USERDUPT)" User table
1228	(4CC)	ADDRESS	4	MCTDUPTH	"V(HASPDUPT)" HASP table
1232	(4D0)	ADDRESS	4	MCTDUPTD	Dynamic table array
1236	(4D4)	ADDRESS	4	MCTELCTP(0)	ESTLNCT PARM-STMT SUBSCAN
1236	(4D4)	ADDRESS	4	MCTELCTU	"V(USERELCT)" User table
1240	(4D8)	ADDRESS	4	MCTELCTH	"V(HASPELCT)" HASP table
1244	(4DC)	ADDRESS	4	MCTELCTD	Dynamic table array
1248	(4E0)	ADDRESS	4	MCTEBYTP(0)	ESTBYTE SUBSCAN PAIR
1248	(4E0)	ADDRESS	4	MCTEBYTU	"V(USEREBYT)" User table
1252	(4E4)	ADDRESS	4	MCTEBYTH	"V(HASPEBYT)" HASP table
1256	(4E8)	ADDRESS	4	MCTEBYTD	Dynamic table array
1260	(4EC)	ADDRESS	4	MCTEPGTP(0)	ESTPAGE PARM-STMT SUBSCAN

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1260	(4EC)	ADDRESS	4	MCTEPGTU	"V(USEREPGT)" User table
1264	(4F0)	ADDRESS	4	MCTEPGTH	"V(HASPEPGT)" HASP table
1268	(4F4)	ADDRESS	4	MCTEPGTD	Dynamic table array
1272	(4F8)	ADDRESS	4	MCTEPNTP(0)	ESTPUN PARM-STMT SUBSCAN
1272	(4F8)	ADDRESS	4	MCTEPNTU	"V(USEREPT)" User table
1276	(4FC)	ADDRESS	4	MCTEPNTH	"V(HASPEPNT)" HASP table
1280	(500)	ADDRESS	4	MCTEPNTD	Dynamic table array
1284	(504)	ADDRESS	4	MCTETMTP(0)	ESTIME PARM-STMT SUBSCAN
1284	(504)	ADDRESS	4	MCTETMTU	"V(USERETMT)" User table
1288	(508)	ADDRESS	4	MCTETMTH	"V(HASPETMT)" HASP table
1292	(50C)	ADDRESS	4	MCTETMTD	Dynamic table array
1296	(510)	ADDRESS	4	MCTXITTP(0)	EXITNNN PARM-STMT SUBSCAN
1296	(510)	ADDRESS	4	MCTXITTU	"V(USERXITT)" User table
1300	(514)	ADDRESS	4	MCTXITTH	"V(HASPXITT)" HASP table
1304	(518)	ADDRESS	4	MCTXITTD	Dynamic table array
1308	(51C)	ADDRESS	4	MCTXRLTP(0)	EXITnnn ROUTINE= parm subscan
1308	(51C)	ADDRESS	4	MCTXRLTU	"V(USERXRLT)" User table
1312	(520)	ADDRESS	4	MCTXRLTH	"V(HASPXRLT)" HASP table
1316	(524)	ADDRESS	4	MCTXRLTD	Dynamic table array
1320	(528)	ADDRESS	4	MCTFSSTP(0)	FSS parm-stmt subscan pair
1320	(528)	ADDRESS	4	MCTFSSTU	"V(USERFSST)" User table
1324	(52C)	ADDRESS	4	MCTFSSTH	"V(HASPFST)" HASP table
1328	(530)	ADDRESS	4	MCTFSSTD	Dynamic table array
1332	(534)	ADDRESS	4	MCTINCTP(0)	INCLUDE init-stmt subscan pair
1332	(534)	ADDRESS	4	MCTINCTU	"V(USERINCT)" User table
1336	(538)	ADDRESS	4	MCTINCTH	"V(HASPINCT)" HASP table
1340	(53C)	ADDRESS	4	MCTINCTD	Dynamic table array
1344	(540)	ADDRESS	4	MCTHDRTP(0)	NJEDEF HDRBUF subscan pair
1344	(540)	ADDRESS	4	MCTHDRTU	"V(USERHDRT)" User table
1348	(544)	ADDRESS	4	MCTHDRTH	"V(HASPHDRT)" HASP table
1352	(548)	ADDRESS	4	MCTHDRTD	Dynamic table array
1356	(54C)	ADDRESS	4	MCTPARTP(0)	INITDEF PARM-STMT SUBSCAN PAIR
1356	(54C)	ADDRESS	4	MCTPARTU	"V(USERPART)" User table
1360	(550)	ADDRESS	4	MCTPARTH	"V(HASPPART)" HASP table
1364	(554)	ADDRESS	4	MCTPARTD	Dynamic table array
1368	(558)	ADDRESS	4	MCTIINTP(0)	INITINFO PARM-STMT SUBSCAN PAIR
1368	(558)	ADDRESS	4	MCTIINTU	"V(USERIINT)" User table
1372	(55C)	ADDRESS	4	MCTIINTH	"V(HASPIINT)" HASP table
1376	(560)	ADDRESS	4	MCTIINTD	Dynamic table array
1380	(564)	ADDRESS	4	MCTPITTP(0)	INNNN PARM-STMT SUBSCAN
1380	(564)	ADDRESS	4	MCTPITTU	"V(USERPITT)" User table
1384	(568)	ADDRESS	4	MCTPITTH	"V(HASPPITT)" HASP table
1388	(56C)	ADDRESS	4	MCTPITTD	Dynamic table array
1392	(570)	ADDRESS	4	MCTGRPTP(0)	GRPDEF PARM-STMT SUBSCAN PAIR
1392	(570)	ADDRESS	4	MCTGRPTU	"V(USGRPT)" User table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1396	(574)	ADDRESS	4	MCTGRPTH	"V(HASPGRPT)" HASP table
1400	(578)	ADDRESS	4	MCTGRPTD	Dynamic table array
1404	(57C)	ADDRESS	4	MCTINPTP(0)	INPUTDEF PARM-STMT SUBSCAN PAIR
1404	(57C)	ADDRESS	4	MCTINPTU	"V(USERINPT)" User table
1408	(580)	ADDRESS	4	MCTINPTH	"V(HASPINPT)" HASP table
1412	(584)	ADDRESS	4	MCTINPTD	Dynamic table array
1416	(588)	ADDRESS	4	MCTJECTP(0)	JECLDEF PARM-STMT SUBSCAN PAIR
1416	(588)	ADDRESS	4	MCTJECTU	"V(USERJECT)" User table
1420	(58C)	ADDRESS	4	MCTJECTH	"V(HASPJECT)" HASP table
1424	(590)	ADDRESS	4	MCTJECTD	Dynamic table array
1428	(594)	ADDRESS	4	MCTJ2CTP(0)	JECLDEF JES2= KEYWORD SUBSCAN PAIR
1428	(594)	ADDRESS	4	MCTJ2CTU	"V(USERJ2CT)" User table
1432	(598)	ADDRESS	4	MCTJ2CTH	"V(HASPJ2CT)" HASP table
1436	(59C)	ADDRESS	4	MCTJ2CTD	Dynamic table array
1440	(5A0)	ADDRESS	4	MCTJ3CTP(0)	JECLDEF JES3= KEYWORD SUBSCAN PAIR
1440	(5A0)	ADDRESS	4	MCTJ3CTU	"V(USERJ3CT)" User table
1444	(5A4)	ADDRESS	4	MCTJ3CTH	"V(HASPJ3CT)" HASP table
1448	(5A8)	ADDRESS	4	MCTJ3CTD	Dynamic table array
1452	(5AC)	ADDRESS	4	MCTJOBTP(0)	JOBDEF PARM-STMT SUBSCAN PAIR
1452	(5AC)	ADDRESS	4	MCTJOBTU	"V(USERJOBT)" User table
1456	(5B0)	ADDRESS	4	MCTJOBTH	"V(HASPJOBT)" HASP table
1460	(5B4)	ADDRESS	4	MCTJOBTD	Dynamic table array
1464	(5B8)	ADDRESS	4	MCTJQETP(0)	JOBnnn PARM-STMT SUBSCAN PAIR
1464	(5B8)	ADDRESS	4	MCTJQETU	"V(USERJQET)" User table
1468	(5BC)	ADDRESS	4	MCTJQETH	"V(HASPJQET)" HASP table
1472	(5C0)	ADDRESS	4	MCTJQETD	Dynamic table array
1476	(5C4)	ADDRESS	4	MCTJSPTP(0)	JOBnnn SPOOL= SUBSCAN PAIR
1476	(5C4)	ADDRESS	4	MCTJSPTU	"V(USERJSPT)" User table
1480	(5C8)	ADDRESS	4	MCTJSPTH	"V(HASPJSPPT)" HASP table
1484	(5CC)	ADDRESS	4	MCTJSPTD	Dynamic table array
1488	(5D0)	ADDRESS	4	MCTJOFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1488	(5D0)	ADDRESS	4	MCTJOFTU	"V(USERGJOFT)" User table
1492	(5D4)	ADDRESS	4	MCTJOFTH	"V(HASPGJOFT)" HASP table
1496	(5D8)	ADDRESS	4	MCTJOFTD	Dynamic table array
1500	(5DC)	ADDRESS	4	MCTMJFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1500	(5DC)	ADDRESS	4	MCTMJFTU	"V(USERMJOFT)" User table
1504	(5E0)	ADDRESS	4	MCTMJFTH	"V(HASPMJOFT)" HASP table
1508	(5E4)	ADDRESS	4	MCTMJFTD	Dynamic table array
1512	(5E8)	ADDRESS	4	MCTJFLTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1512	(5E8)	ADDRESS	4	MCTJFLTU	"V(USERJOFTL)" User table
1516	(5EC)	ADDRESS	4	MCTJFLTH	"V(HASPJOFTH)" HASP table
1520	(5F0)	ADDRESS	4	MCTJFLTD	Dynamic table array
1524	(5F4)	ADDRESS	4	MCTJFETP(0)	Gnnn JOBFULL SUBSCAN PAIR
1524	(5F4)	ADDRESS	4	MCTJFETU	"V(USERJOFE)" User table
1528	(5F8)	ADDRESS	4	MCTJFETH	"V(HASPJOFTH)" HASP table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1532	(5FC)	ADDRESS	4	MCTJFETD	Dynamic table array
1536	(600)	ADDRESS	4	MCTJPYTP(0)	JOBPRTY PARM-STMT SUBSCAN PAIR
1536	(600)	ADDRESS	4	MCTJPYTU	"V(USERJPYT)" User table
1540	(604)	ADDRESS	4	MCTJPYTH	"V(HASPJPYT)" HASP table
1544	(608)	ADDRESS	4	MCTJPYTD	Dynamic table array
1548	(60C)	ADDRESS	4	MCTLMTTP(0)	LIMITS PARM-STMT SUBSCAN PAIR
1548	(60C)	ADDRESS	4	MCTLMTTU	"V(USERLMTT)" User table
1552	(610)	ADDRESS	4	MCTLMTTH	"V(HASPLMTT)" HASP table
1556	(614)	ADDRESS	4	MCTLMTTD	Dynamic table array
1560	(618)	ADDRESS	4	MCTLODTP(0)	LOADMOD PARM-STMT SUBSCAN PAIR
1560	(618)	ADDRESS	4	MCTLODTU	"V(USERLODT)" User table
1564	(61C)	ADDRESS	4	MCTLODTH	"V(HASPLODT)" HASP table
1568	(620)	ADDRESS	4	MCTLODTD	Dynamic table array
1572	(624)	ADDRESS	4	MCTMASTP(0)	MASDEF PARM-STMT SUBSCAN PAIR
1572	(624)	ADDRESS	4	MCTMASTU	"V(USERMAST)" User table
1576	(628)	ADDRESS	4	MCTMASTH	"V(HASPMAST)" HASP table
1580	(62C)	ADDRESS	4	MCTMASTD	Dynamic table array
1584	(630)	ADDRESS	4	MCTMEMTP(0)	MEMBER parm-stmt subscan
1584	(630)	ADDRESS	4	MCTMEMTU	"V(USERMENT)" User table
1588	(634)	ADDRESS	4	MCTMEMTH	"V(HASPMEMT)" HASP table
1592	(638)	ADDRESS	4	MCTMEMTD	Dynamic table array
1596	(63C)	ADDRESS	4	MCTSTYTP(0)	MEMBER LASTART= subscan
1596	(63C)	ADDRESS	4	MCTSTYTU	"V(USERSTYT)" User table
1600	(640)	ADDRESS	4	MCTSTYTH	"V(HASPSTYT)" HASP table
1604	(644)	ADDRESS	4	MCTSTYTD	Dynamic table array
1608	(648)	ADDRESS	4	MCTMIGTP(0)	SPOOL MIGDATA= subparm
1608	(648)	ADDRESS	4	MCTMIGTU	"V(USERMIGT)" User table
1612	(64C)	ADDRESS	4	MCTMIGTH	"V(HASPMIGT)" HASP table
1616	(650)	ADDRESS	4	MCTMIGTD	Dynamic table array
1620	(654)	ADDRESS	4	MCTMODTP(0)	MODULE PARM-STMT SUBSCAN
1620	(654)	ADDRESS	4		User table
1624	(658)	ADDRESS	4	MCTMODTH	"V(HASPMODT)" HASP table
1628	(65C)	ADDRESS	4		Dynamic table array
1632	(660)	ADDRESS	4	MCTNJETP(0)	NJEDEF PARM-STMT SUBSCAN PAIR
1632	(660)	ADDRESS	4	MCTNJETU	"V(USERNJET)" User table
1636	(664)	ADDRESS	4	MCTNJETH	"V(HASPNJET)" HASP table
1640	(668)	ADDRESS	4	MCTNJETD	Dynamic table array
1644	(66C)	ADDRESS	4	MCTNWKTP(0)	NETWORK PARM-STMT SUBSCAN PAIR
1644	(66C)	ADDRESS	4	MCTNWKTU	"V(USERNWK)" User table
1648	(670)	ADDRESS	4	MCTNWKTH	"V(HASPNWKT)" HASP table
1652	(674)	ADDRESS	4	MCTNWKTD	Dynamic table array
1656	(678)	ADDRESS	4	MCTNODTP(0)	NNNNN PARM-STMT SUBSCAN
1656	(678)	ADDRESS	4	MCTNODTU	"V(USERNODT)" User table
1660	(67C)	ADDRESS	4	MCTNODTH	"V(HASPNODT)" HASP table
1664	(680)	ADDRESS	4	MCTNODTD	Dynamic table array

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1668	(684)	ADDRESS	4	MCTNDPTP(0)	NODEnnnn PASSWORD subscan
1668	(684)	ADDRESS	4	MCTNDPTU	"V(USERNDPT)" User table
1672	(688)	ADDRESS	4	MCTNDPTH	"V(HASPNDPT)" HASP table
1676	(68C)	ADDRESS	4	MCTNDPTD	Dynamic table array
1680	(690)	ADDRESS	4	MCTNAUTP(0)	NODENNNN AUTH SUBSCAN PAIR
1680	(690)	ADDRESS	4	MCTNAUTU	"V(USERNAUT)" User table
1684	(694)	ADDRESS	4	MCTNAUTH	"V(HASPNAUT)" HASP table
1688	(698)	ADDRESS	4	MCTNAUTD	Dynamic table array
1692	(69C)	ADDRESS	4	MCTNETTP(0)	NETACCT PARM-STMT SUBSCAN
1692	(69C)	ADDRESS	4	MCTNETTU	"V(USERNETT)" User table
1696	(6A0)	ADDRESS	4	MCTNETTH	"V(HASPNETT)" HASP table
1700	(6A4)	ADDRESS	4	MCTNETTD	Dynamic table array
1704	(6A8)	ADDRESS	4	MCTOJMTP(0)	OFFN.JR MOD= PARM SUBSCAN PAIR
1704	(6A8)	ADDRESS	4	MCTOJMTU	"V(USEROJMT)" User table
1708	(6AC)	ADDRESS	4	MCTOJMTH	"V(HASPOJMT)" HASP table
1712	(6B0)	ADDRESS	4	MCTOJMTD	Dynamic table array
1716	(6B4)	ADDRESS	4	MCTOSMTP(0)	OFFN.SR MOD= PARM SUBSCAN PAIR
1716	(6B4)	ADDRESS	4	MCTOSMTU	"V(USEROSMT)" User table
1720	(6B8)	ADDRESS	4	MCTOSMTH	"V(HASPOSMT)" HASP table
1724	(6BC)	ADDRESS	4	MCTOSMTD	Dynamic table array
1728	(6C0)	ADDRESS	4	MCTOPDTP(0)	OPTSDEF PARM-STMT SUBSCAN PAIR
1728	(6C0)	ADDRESS	4	MCTOPDTU	"V(USERO PDT)" User table
1732	(6C4)	ADDRESS	4	MCTOPDTH	"V(HASPO PDT)" HASP table
1736	(6C8)	ADDRESS	4	MCTOPDTPD	Dynamic table array
1740	(6CC)	ADDRESS	4	MCTOUTTP(0)	OUTDEF PARM-STMT SUBSCAN PAIR
1740	(6CC)	ADDRESS	4	MCTOUTTU	"V(USEROUTT)" User table
1744	(6D0)	ADDRESS	4	MCTOUTTH	"V(HASPOUTT)" HASP table
1748	(6D4)	ADDRESS	4	MCTOUTTD	Dynamic table array
1752	(6D8)	ADDRESS	4	MCTOPYTP(0)	OUTPRTY PARM-STMT SUBSCAN PAIR
1752	(6D8)	ADDRESS	4	MCTOPYTU	"V(USERO PYT)" User table
1756	(6DC)	ADDRESS	4	MCTOPYTH	"V(HASPO PYT)" HASP table
1760	(6E0)	ADDRESS	4	MCTOPYTD	Dynamic table array
1764	(6E4)	ADDRESS	4	MCTOTPTP(0)	OUTPUT display subscan pair
1764	(6E4)	ADDRESS	4	MCTOTPTU	"V(USERO TPT)" User table
1768	(6E8)	ADDRESS	4	MCTOTPTH	"V(HASPO TPT)" HASP table
1772	(6EC)	ADDRESS	4	MCTOTPTD	Dynamic table array
1776	(6F0)	ADDRESS	4	MCTLOTPP(0)	OUTPUT PARM-STMT PAIR (\$LJ)
1776	(6F0)	ADDRESS	4	MCTLOTTU	"V(USERLOTT)" User table
1780	(6F4)	ADDRESS	4	MCTLOTTTH	"V(HASPLOTT)" HASP table
1784	(6F8)	ADDRESS	4	MCTLOTTD	Dynamic table array
1788	(6FC)	ADDRESS	4	MCTPHTP(0)	Path parm-stmt subscan pair
1788	(6FC)	ADDRESS	4	MCTPHTU	"V(USERPHT)" User table
1792	(700)	ADDRESS	4	MCTPHTH	"V(HASPHT)" HASP table
1796	(704)	ADDRESS	4	MCTPHTD	Dynamic table array
1800	(708)	ADDRESS	4	MCTPCCTP(0)	PCE parm-stmt subscan pair

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1800	(708)	ADDRESS	4	MCTPCCTU	"V(USERPCCT)" User table
1804	(70C)	ADDRESS	4	MCTPCCTH	"V(HASPPCCT)" HASP table
1808	(710)	ADDRESS	4	MCTPCCTD	Dynamic table array
1812	(714)	ADDRESS	4	MCTPCNTP(0)	PCE COUNT parm subscan pair
1812	(714)	ADDRESS	4	MCTPCNTU	"V(USERPCNT)" User table
1816	(718)	ADDRESS	4	MCTPCNTH	"V(HASPPCNT)" HASP table
1820	(71C)	ADDRESS	4	MCTPCNTD	Dynamic table array
1824	(720)	ADDRESS	4	MCTPDTP(0)	PCE DETAILS parm subscan pair
1824	(720)	ADDRESS	4	MCTPDTTU	"V(USERPDTP)" User table
1828	(724)	ADDRESS	4	MCTPDTH	"V(HASPPDTP)" HASP table
1832	(728)	ADDRESS	4	MCTPDSTD	Dynamic table array
1836	(72C)	ADDRESS	4	MCTPCDTP(0)	PCDEF PARM-STMT SUBSCAN PAIR
1836	(72C)	ADDRESS	4	MCTPCDTU	"V(USERPCDT)" User table
1840	(730)	ADDRESS	4	MCTPCDTH	"V(HASPPCDT)" HASP table
1844	(734)	ADDRESS	4	MCTPCSTD	Dynamic table array
1848	(738)	ADDRESS	4	MCTPTDTP(0)	PRINTDEF PARM-STMT SUBSCAN PAIR
1848	(738)	ADDRESS	4	MCTPTDTU	"V(USERPTDT)" User table
1852	(73C)	ADDRESS	4	MCTPTDTH	"V(HASPPDT)" HASP table
1856	(740)	ADDRESS	4	MCTPTSTD	Dynamic table array
1860	(744)	ADDRESS	4	MCTPDDTP(0)	PROCLIB DD Parm-stmt subscan pair
1860	(744)	ADDRESS	4	MCTPDDTU	"V(USERPDDT)" User table
1864	(748)	ADDRESS	4	MCTPDDTH	"V(HASPPDDT)" HASP table
1868	(74C)	ADDRESS	4	MCTPDDTD	Dynamic table array
1872	(750)	ADDRESS	4	MCTPUDTP(0)	PUNCHDEF PARM-STMT SUBSCAN PAIR
1872	(750)	ADDRESS	4	MCTPUDTU	"V(USERPUPT)" User table
1876	(754)	ADDRESS	4	MCTPUDTH	"V(HASPPUDT)" HASP table
1880	(758)	ADDRESS	4	MCTPUDTD	Dynamic table array
1884	(75C)	ADDRESS	4	MCTIAUTP(0)	RDIInn AUTH SUBSCAN PAIR
1884	(75C)	ADDRESS	4	MCTIAUTU	"V(USERIAUT)" User table
1888	(760)	ADDRESS	4	MCTIAUTH	"V(HASPIAUT)" HASP table
1892	(764)	ADDRESS	4	MCTIAUTD	Dynamic table array
1896	(768)	ADDRESS	4	MCTIJBTP(0)	RDIInn JOB SCANTAB PAIR
1896	(768)	ADDRESS	4	MCTIJBTH	"V(USERIJB)" User table
1900	(76C)	ADDRESS	4	MCTIJBTH	"V(HASPIJB)" HASP table
1904	(770)	ADDRESS	4	MCTIJBTD	Dynamic table array
1908	(774)	ADDRESS	4	MCTIJSTP(0)	RDIInn JOBSTAT SUBSCAN PAIR
1908	(774)	ADDRESS	4	MCTIJSTU	"V(USERIJST)" User table
1912	(778)	ADDRESS	4	MCTIJSTH	"V(HASPIJST)" HASP table
1916	(77C)	ADDRESS	4	MCTIJSTD	Dynamic table array
1920	(780)	ADDRESS	4	MCTIOWTP(0)	RDIInn OWNER SCANTAB PAIR
1920	(780)	ADDRESS	4	MCTIOWTU	"V(USERIOWT)" User table
1924	(784)	ADDRESS	4	MCTIOWTH	"V(HASPIOWT)" HASP table
1928	(788)	ADDRESS	4	MCTIOWTD	Dynamic table array
1932	(78C)	ADDRESS	4	MCTRAUTP(0)	RDRnn AUTH SUBSCAN PAIR
1932	(78C)	ADDRESS	4	MCTRAUTU	"V(USERRAUT)" User table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1936	(790)	ADDRESS	4	MCTRAUTH	"V(HASPRAUT)" HASP table
1940	(794)	ADDRESS	4	MCTRAUTD	Dynamic table array
1944	(798)	ADDRESS	4	MCTREDTP(0)	REDIR PARM-STMT SUBSCAN PR
1944	(798)	ADDRESS	4	MCTREDTU	"V(USERREDT)" User table
1948	(79C)	ADDRESS	4	MCTREDTH	"V(HASPREDT)" HASP table
1952	(7A0)	ADDRESS	4	MCTREDTD	Dynamic table array
1956	(7A4)	ADDRESS	4	MCTRCVTP(0)	RECVOPTS PARM-STMT SUBSCAN
1956	(7A4)	ADDRESS	4	MCTRCVTU	"V(USERRCVT)" User table
1960	(7A8)	ADDRESS	4	MCTRCVTH	"V(HASPRCVT)" HASP table
1964	(7AC)	ADDRESS	4	MCTRCVTD	Dynamic table array
1968	(7B0)	ADDRESS	4	MCTRMTP(0)	RMTNNNN PARM-STMT SUBSCAN
1968	(7B0)	ADDRESS	4	MCTRMITU	"V(USERRMTT)" User table
1972	(7B4)	ADDRESS	4	MCTRMTH	"V(HASPRMTT)" HASP table
1976	(7B8)	ADDRESS	4	MCTRMTHD	Dynamic table array
1980	(7BC)	ADDRESS	4	MCTSCTP(0)	OUTCLASS PARM-STMT SUBSCAN PAIR
1980	(7BC)	ADDRESS	4	MCTSCTTU	"V(USERSCTT)" User table
1984	(7C0)	ADDRESS	4	MCTSCTTH	"V(HASPSCTT)" HASP table
1988	(7C4)	ADDRESS	4	MCTSCTTD	Dynamic table array
1992	(7C8)	ADDRESS	4	MCTSMFTP(0)	SMFDEF PARM-STMT SUBSCAN PAIR
1992	(7C8)	ADDRESS	4	MCTSMFTU	"V(USERSMFT)" User table
1996	(7CC)	ADDRESS	4	MCTSMFTH	"V(HASPSMFT)" HASP table
2000	(7D0)	ADDRESS	4	MCTSMFTD	Dynamic table array
2004	(7D4)	ADDRESS	4	MCTSPLTP(0)	SPOOL PARM-STMT PAIR
2004	(7D4)	ADDRESS	4	MCTSPLTU	"V(USERSPLT)" User table
2008	(7D8)	ADDRESS	4	MCTSPLTH	"V(HASPSPLT)" HASP table
2012	(7DC)	ADDRESS	4	MCTSPLTD	Dynamic table array
2016	(7E0)	ADDRESS	4	MCTSPDTP(0)	SPOOLDEF PARM-STMT SUBSCAN PAIR
2016	(7E0)	ADDRESS	4	MCTSPDTU	"V(USERSPDT)" User table
2020	(7E4)	ADDRESS	4	MCTSPDTH	"V(HASPSPDT)" HASP table
2024	(7E8)	ADDRESS	4	MCTSPDTHD	Dynamic table array
2028	(7EC)	ADDRESS	4	MCTFENTP(0)	SPOOLDEF FENCE=subscan
2028	(7EC)	ADDRESS	4	MCTFENTU	"V(USERFENT)" User table
2032	(7F0)	ADDRESS	4	MCTFENTH	"V(HASPFENT)" HASP table
2036	(7F4)	ADDRESS	4	MCTFENTD	Dynamic table array
2040	(7F8)	ADDRESS	4	MCTTGSTP(0)	SPOOLDEF TGSPACE=subscan
2040	(7F8)	ADDRESS	4	MCTTGSTU	"V(USERTGST)" User table
2044	(7FC)	ADDRESS	4	MCTTGSTH	"V(HASPTGST)" HASP table
2048	(800)	ADDRESS	4	MCTTGSTD	Dynamic table array
2052	(804)	ADDRESS	4	MCTWSCTP(0)	SERVICE Class Params-statements subscan
2052	(804)	ADDRESS	4	MCTWSCTU	"V(USERWSCT)" User table
2056	(808)	ADDRESS	4	MCTWSCTH	"V(HASPWDCT)" HASP table
2060	(80C)	ADDRESS	4	MCTWSCTD	Dynamic table array
2064	(810)	ADDRESS	4	MCTWCTP(0)	SERVICE class COUNT= SUBSCAN
2064	(810)	ADDRESS	4	MCTWCTTU	"V(USERWCTT)" User table
2068	(814)	ADDRESS	4	MCTWCTTH	"V(HASPWCTT)" HASP table

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2072	(818)	ADDRESS	4	MCTWCTTD	Dynamic table array
2076	(81C)	ADDRESS	4	MCTWMCTP(0)	SERVICE class MASCOUNT= SUBSCAN
2076	(81C)	ADDRESS	4	MCTWMCTU	"V(USERWMCT)" User table
2080	(820)	ADDRESS	4	MCTWMCTH	"V(HASPWMCT)" HASP table
2084	(824)	ADDRESS	4	MCTWMCTD	Dynamic table array
2088	(828)	ADDRESS	4	MCTSBFTP(0)	SUBTDEF STMT SUBSCAN PAIR
2088	(828)	ADDRESS	4	MCTSBFTU	"V(USERSBDT)" User table
2092	(82C)	ADDRESS	4	MCTSBFTH	"V(HASPSBDT)" HASP table
2096	(830)	ADDRESS	4	MCTSBFTD	Dynamic table array
2100	(834)	ADDRESS	4	MCTTPDTP(0)	TPDEF PARM-STMT SUBSCAN PAIR
2100	(834)	ADDRESS	4	MCTTPDTU	"V(USERTPDT)" User table
2104	(838)	ADDRESS	4	MCTTPDTH	"V(HASPTPDT)" HASP table
2108	(83C)	ADDRESS	4	MCTTPDTPD	Dynamic table array
2112	(840)	ADDRESS	4	MCTTRCTP(0)	TRACEDEF PARM-STMT SUBSCAN PAIR
2112	(840)	ADDRESS	4	MCTTRCTU	"V(USERTRCT)" User table
2116	(844)	ADDRESS	4	MCTTRCTH	"V(HASPTRCT)" HASP table
2120	(848)	ADDRESS	4	MCTTRCTD	Dynamic table array
2124	(84C)	ADDRESS	4	MCTTRITP(0)	TRACE(N) PARM-STMT SUBSCAN PR
2124	(84C)	ADDRESS	4	MCTTRITU	"V(USERTRIT)" User table
2128	(850)	ADDRESS	4	MCTTRITH	"V(HASPTRIT)" HASP table
2132	(854)	ADDRESS	4	MCTTRITD	Dynamic table array
2136	(858)	ADDRESS	4	MCTSTATP(0)	TRACE STAT PARM-STMT SUBSCAN PR
2136	(858)	ADDRESS	4	MCTSTATU	"V(USERSTAT)" User table
2140	(85C)	ADDRESS	4	MCTSTATH	"V(HASPSTAT)" HASP table
2144	(860)	ADDRESS	4	MCTSTATD	Dynamic table array
2148	(864)	ADDRESS	4	MCTTLGTP(0)	TRC LOG PARM-STMT SUBSCAN PAIR
2148	(864)	ADDRESS	4	MCTTLGTU	"V(USERTLGT)" User table
2152	(868)	ADDRESS	4	MCTTLGTH	"V(HASPTLGT)" HASP table
2156	(86C)	ADDRESS	4	MCTTLGTD	Dynamic table array
2160	(870)	ADDRESS	4	MCTTHMTP(0)	TRC HAM PARM-STMT SUBSCAN PAIR
2160	(870)	ADDRESS	4	MCTTHMTU	"V(USERTHMT)" User table
2164	(874)	ADDRESS	4	MCTTHMTH	"V(HASPTHMT)" HASP table
2168	(878)	ADDRESS	4	MCTTHMTD	Dynamic table array
2172	(87C)	ADDRESS	4	MCTSSITP(0)	SSI PARM-STMT SUBSCAN PAIR
2172	(87C)	ADDRESS	4	MCTSSITU	"V(USERSSIT)" User table
2176	(880)	ADDRESS	4	MCTSSITH	"V(HASPSSIT)" HASP table
2180	(884)	ADDRESS	4	MCTSSITD	Dynamic table array
2184	(888)	ADDRESS	4	MCTSETP(0)	SEPPAGE PARM-STMT SUBSCAN PR
2184	(888)	ADDRESS	4	MCTSEPTU	"V(USERSEPT)" User table
2188	(88C)	ADDRESS	4	MCTSEPTH	"V(HASPSEPT)" HASP table
2192	(890)	ADDRESS	4	MCTSEPTD	Dynamic table array
2196	(894)	ADDRESS	4	MCTVIATP(0)	Path parm-stmt VIA subparm
2196	(894)	ADDRESS	4	MCTVIATU	"V(USERVIAT)" User table
2200	(898)	ADDRESS	4	MCTVIATH	"V(HASPVIA)" HASP table
2204	(89C)	ADDRESS	4	MCTVIATD	Dynamic table array

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2208	(8A0)	ADDRESS	4	MCTVUNTP(0)	SPOOL UNITDATA= subparm
2208	(8A0)	ADDRESS	4	MCTVUNTU	"V(USERVUNT)" User table
2212	(8A4)	ADDRESS	4	MCTVUNTH	"V(HASPVUNT)" HASP table
2216	(8A8)	ADDRESS	4	MCTVUNTD	Dynamic table array
2220	(8AC)	ADDRESS	4	MCTZJBTP(0)	ZAPJOB SUBSCAN pair
2220	(8AC)	ADDRESS	4	MCTZJBTH	"V(USERZJBTH)" User table
2224	(8B0)	ADDRESS	4	MCTZJBTH	"V(HASPZJBTH)" HASP table
2228	(8B4)	ADDRESS	4	MCTZJBTD	Dynamic table array
2232	(8B8)	ADDRESS	4	MCT4KPTP(0)	CKPTSPACE 4K_RECS subparm
2232	(8B8)	ADDRESS	4	MCT4KPTU	"V(USER4KPT)" User table
2236	(8BC)	ADDRESS	4	MCT4KPTH	"V(HASP4KPT)" HASP table
2240	(8C0)	ADDRESS	4	MCT4KPTD	Dynamic table array
2244	(8C4)	ADDRESS	4	MCTPRFTP(0)	PRTnn FSSINFO subparm
2244	(8C4)	ADDRESS	4	MCTPRFTU	"V(USERPRFT)" User table
2248	(8C8)	ADDRESS	4	MCTPRFTH	"V(HASPPRFT)" HASP table
2252	(8CC)	ADDRESS	4	MCTPRFTD	Dynamic table array
2256	(8D0)	ADDRESS	4	MCTLRPTP(0)	\$L JOBQ RECORDS/PAGES subparms
2256	(8D0)	ADDRESS	4	MCTLRPTU	"V(USERLRPT)" User table
2260	(8D4)	ADDRESS	4	MCTLRPTH	"V(HASPLRPT)" HASP table
2264	(8D8)	ADDRESS	4	MCTLRPTD	Dynamic table array
2268	(8DC)	ADDRESS	4	MCTGSUTP(0)	Gnnn SUMMARY SUBSCAN PAIR
2268	(8DC)	ADDRESS	4	MCTGSUTU	"V(USERSGUT)" User table
2272	(8E0)	ADDRESS	4	MCTGSUTH	"V(HASPGSUT)" HASP table
2276	(8E4)	ADDRESS	4	MCTGSUTD	Dynamic table array
2280	(8E8)	ADDRESS	4	(3)	Reserved for future use
2292	(8F4)	ADDRESS	4	(3)	Reserved for future use
WORK SELECTION USER AND HASP TABLES					
2304	(900)	ADDRESS	4	MCTPRWTP(0)	PRINTER WS TABLE ADDR PAIR
2304	(900)	ADDRESS	4	MCTPRWTU	"V(USERPRWT)" User table
2308	(904)	ADDRESS	4	MCTPRWTH	"V(HASPPRWT)" HASP table
2312	(908)	ADDRESS	4	MCTPRWTD	Dynamic table array
2316	(90C)	ADDRESS	4	MCTPUWTP(0)	PUNCH WS TABLE ADDR PAIR
2316	(90C)	ADDRESS	4	MCTPUWTU	"V(USERPUWT)" User table
2320	(910)	ADDRESS	4	MCTPUWTH	"V(HASPPUWT)" HASP table
2324	(914)	ADDRESS	4	MCTPUWTD	Dynamic table array
2328	(918)	ADDRESS	4	MCTJTWTP(0)	OFFJT WS TABLE ADDR PAIR
2328	(918)	ADDRESS	4	MCTJTWTH	"V(USERJTWTH)" User table
2332	(91C)	ADDRESS	4	MCTJTWTH	"V(HASPJTWTH)" HASP table
2336	(920)	ADDRESS	4	MCTJTWTD	Dynamic table array
2340	(924)	ADDRESS	4	MCTJRWTP(0)	OFFJR WS TABLE ADDR PAIR
2340	(924)	ADDRESS	4	MCTJRWTU	"V(USERJRWT)" User table
2344	(928)	ADDRESS	4	MCTJRWTH	"V(HASPJRWTH)" HASP table
2348	(92C)	ADDRESS	4	MCTJRWTD	Dynamic table array
2352	(930)	ADDRESS	4	MCTSTWTP(0)	OFFST WS TABLE ADDR PAIR

Table 299. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2352	(930)	ADDRESS	4	MCTSTWTU	"V(USERSTWT)" User table
2356	(934)	ADDRESS	4	MCTSTWTH	"V(HASPSTWT)" HASP table
2360	(938)	ADDRESS	4	MCTSTWTD	Dynamic table array
2364	(93C)	ADDRESS	4	MCTSRWTP(0)	OFFSR WS TABLE ADDR PAIR
2364	(93C)	ADDRESS	4	MCTSRWTU	"V(USERSRWT)" User table
2368	(940)	ADDRESS	4	MCTSRWTH	"V(HASPSRWT)" HASP table
2372	(944)	ADDRESS	4	MCTSRWTD	Dynamic table array
2376	(948)	ADDRESS	4	MCTLJWTP(0)	Lx.JT WS table ADDR PAIR
2376	(948)	ADDRESS	4	MCTLJWTU	"V(USERLJWT)" User table
2380	(94C)	ADDRESS	4	MCTLJWTH	"V(HASPLJWT)" HASP table
2384	(950)	ADDRESS	4	MCTLJWTD	Dynamic table array
2388	(954)	ADDRESS	4	MCTLSWTP(0)	Lx.ST WS table ADDR PAIR
2388	(954)	ADDRESS	4	MCTLSWTU	"V(USERLSWT)" User table
2392	(958)	ADDRESS	4	MCTLSWTH	"V(HASPLSWT)" HASP table
2396	(95C)	ADDRESS	4	MCTLSWTD	Dynamic table array
2400	(960)	ADDRESS	4	MCTSAWTP(0)	Sysout API table Addr Pair
2400	(960)	ADDRESS	4	MCTSAWTU	"V(USERSAWT)" User table
2404	(964)	ADDRESS	4	MCTSAWTH	"V(HASPSAWT)" HASP table
2408	(968)	ADDRESS	4	MCTSAWTD	Dynamic table array
2412	(96C)	ADDRESS	4	(3)	Reserved for future use
2424	(978)	ADDRESS	4	MCTSWCTP(0)	SAPI cache attributes table
2424	(978)	ADDRESS	4	MCTSWCTU	"V(USERSWCT)" User table
2428	(97C)	ADDRESS	4	MCTSWCTH	"V(HASPSWCT)" HASP table
2432	(980)	ADDRESS	4	MCTSWCTD	Dynamic table array
2436	(984)	ADDRESS	4	MCTLWCTP(0)	Local cache attributes table
2436	(984)	ADDRESS	4	MCTLWCTU	"V(USERLWCT)" User table
2440	(988)	ADDRESS	4	MCTLWCTH	"V(HASPLWCT)" HASP table
2444	(98C)	ADDRESS	4	MCTLWCTD	Dynamic table array
2448	(990)	ADDRESS	4	MCTJFATP(0)	JOE field access table
2448	(990)	ADDRESS	4	MCTJFATU	"V(USERJFAT)" User table
2452	(994)	ADDRESS	4	MCTJFATH	"V(HASPJFAT)" HASP table
2456	(998)	ADDRESS	4	MCTJFATD	Dynamic table array
2460	(99C)	ADDRESS	4	MCTJVDTP(0)	JOE view definition table
2460	(99C)	ADDRESS	4	MCTJVDTU	"V(USERJVDT)" User table
2464	(9A0)	ADDRESS	4	MCTJVDTH	"V(HASPJVDT)" HASP table
2468	(9A4)	ADDRESS	4	MCTJVDTD	Dynamic table array
MISCELLANEOUS SECTION FOR USER TABLE POINTERS					
2472	(9A8)	ADDRESS	4	MCTERRTP(0)	USER ERROR TEXT TABLE
2472	(9A8)	ADDRESS	4	MCTERRTU	"V(USERERRT)" User table
2476	(9AC)	ADDRESS	4		HASP table
2480	(9B0)	ADDRESS	4	MCTERRTD	Dynamic table array
2480	(9B0)	X'9B4'	0	MCTLEN	"*-MCT" LENGTH OF THE MCT

Table 300. Cross Reference for \$MCT

Name	Offset	Hex Tag
MCT	0	
MCTACTTD	35C	
MCTACTTH	358	
MCTACTTP	354	
MCTACTTU	354	
MCTADRTH	27C	
MCTADRTP	27C	
MCTAPCTH	324	
MCTAPCTP	324	
MCTAPLTD	368	
MCTAPLTH	364	
MCTAPLTP	360	
MCTAPLTU	360	
MCTAUTTH	284	
MCTAUTTP	284	
MCTBADTD	374	
MCTBADTH	370	
MCTBADTP	36C	
MCTBADTU	36C	
MCTBFHTD	38C	
MCTBFHTH	388	
MCTBFHTP	384	
MCTBFHTU	384	
MCTBFXTD	398	
MCTBFXTH	394	
MCTBFXTP	390	
MCTBFXTU	390	
MCTBRTTD	74	
MCTBRTTH	70	
MCTBRTTP	6C	
MCTBRTTU	6C	
MCTBSCTD	3A4	
MCTBSCTH	3A0	
MCTBSCTP	39C	
MCTBSCTU	39C	
MCTBUFTD	380	
MCTBUFTH	37C	
MCTBUFTP	378	
MCTBUFTU	378	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTCATTD	3E0	
MCTCATTH	3DC	
MCTCATTP	3D8	
MCTCATTU	3D8	
MCTCDITD	194	
MCTCDITH	190	
MCTCDITP	18C	
MCTCDITU	18C	
MCTCFSTH	33C	
MCTCFSTP	33C	
MCTCHRTH	28C	
MCTCH RTP	28C	
MCTCKLTD	404	
MCTCKLTH	400	
MCTCKLTP	3FC	
MCTCKLTU	3FC	
MCTCKSTH	338	
MCTCKSTP	338	
MCTCKTTD	3F8	
MCTCKTTH	3F4	
MCTCKTTP	3F0	
MCTCKTTU	3F0	
MCTCLGTD	464	
MCTCLGTH	460	
MCTCLGTP	45C	
MCTCLGTU	45C	
MCTCNDTD	470	
MCTCNDTH	46C	
MCTCNDTP	468	
MCTCNDTU	468	
MCTCOMTD	47C	
MCTCOMTH	478	
MCTCOMTP	474	
MCTCOMTU	474	
MCTCONTD	488	
MCTCONTH	484	
MCTCONTP	480	
MCTCONTU	480	
MCTDAXTD	4C4	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTDAXTH	4C0	
MCTDAXTP	4BC	
MCTDAXTU	4BC	
MCTDBGTD	494	
MCTDBGTH	490	
MCTDBGTP	48C	
MCTDBGTU	48C	
MCTDCRTD	20	
MCTDCRTH	1C	
MCTDCRTP	18	
MCTDCRTU	18	
MCTDCTTD	14	
MCTDCTTH	10	
MCTDCTTP	C	
MCTDCTTU	C	
MCTDESTD	4A0	
MCTDESTH	49C	
MCTDESTP	498	
MCTDESTU	498	
MCTDPYTD	188	
MCTDPYTH	184	
MCTDPYTP	180	
MCTDPYTU	180	
MCTDRGTD	2C	
MCTDRGTH	28	
MCTDRGTP	24	
MCTDRGTU	24	
MCTDRMTH	29C	
MCTDRMTP	29C	
MCTDROTD	4B8	
MCTDROTH	4B4	
MCTDROTP	4B0	
MCTDROTU	4B0	
MCTDRRTD	38	
MCTDRRTH	34	
MCTDRRTP	30	
MCTDRRTU	30	
MCTDSTTD	4AC	
MCTDSTTH	4A8	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTDSTTP	4A4	
MCTDSTTU	4A4	
MCTDTETD	44	
MCTDTETH	40	
MCTDTETP	3C	
MCTDTETU	3C	
MCTDUPTD	4D0	
MCTDUPTH	4CC	
MCTDUPTP	4C8	
MCTDUPTU	4C8	
MCTDVRTH	314	
MCTDV RTP	314	
MCTEBYTD	4E8	
MCTEBYTH	4E4	
MCTEBYTP	4E0	
MCTEBYTU	4E0	
MCTEDSTD	428	
MCTEDSTH	424	
MCTEDSTP	420	
MCTEDSTU	420	
MCTEKNTD	434	
MCTEKNTH	430	
MCTEKNTP	42C	
MCTEKNTU	42C	
MCTELCTD	4DC	
MCTELCTH	4D8	
MCTELCTP	4D4	
MCTELCTU	4D4	
MCTEPGTD	4F4	
MCTEPGTH	4F0	
MCTEPGTP	4EC	
MCTEPGTU	4EC	
MCTEPNTD	500	
MCTEPNTH	4FC	
MCTEPNTP	4F8	
MCTEPNTU	4F8	
MCTERRTD	9B0	
MCTERRTP	9A8	
MCTERRTU	9A8	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTESQTD	440	
MCTESQTH	43C	
MCTESQTP	438	
MCTESQTU	438	
MCTETMTD	50C	
MCTETMTH	508	
MCTETMTP	504	
MCTETMTU	504	
MCTFENTD	7F4	
MCTFENTH	7F0	
MCTFENTP	7EC	
MCTFENTU	7EC	
MCTFRMTH	2B4	
MCTFRMTP	2B4	
MCTFSSTD	530	
MCTFSSTH	52C	
MCTFSSTP	528	
MCTFSSTU	528	
MCTGRPTD	578	
MCTGRPTH	574	
MCTGRPTP	570	
MCTGRPTU	570	
MCTGSUTD	8E4	
MCTGSUTH	8E0	
MCTGSUTP	8DC	
MCTGSUTU	8DC	
MCTHDRTD	548	
MCTHDRTH	544	
MCTHD RTP	540	
MCTHDRTU	540	
MCTIAUTD	764	
MCTIAUTH	760	
MCTIAUTP	75C	
MCTIAUTU	75C	
MCTIINTD	560	
MCTIINTH	55C	
MCTIINTP	558	
MCTIINTU	558	
MCTIJBTD	770	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTIJBTH	76C	
MCTIJBTP	768	
MCTIJBTH	768	
MCTIJSTD	77C	
MCTIJSTH	778	
MCTIJSTP	774	
MCTIJSTU	774	
MCTINCTD	53C	
MCTINCTH	538	
MCTINCTP	534	
MCTINCTU	534	
MCTINPTD	584	
MCTINPTH	580	
MCTINPTP	57C	
MCTINPTU	57C	
MCTINRTD	A4	
MCTINRTH	A0	
MCTINRTP	9C	
MCTINRTU	9C	
MCTIOWTD	788	
MCTIOWTH	784	
MCTIOWTP	780	
MCTIOWTU	780	
MCTJCCTD	3D4	
MCTJCCTH	3D0	
MCTJCCTP	3CC	
MCTJCCTU	3CC	
MCTJCXTD	3C8	
MCTJCXTH	3C4	
MCTJCXTP	3C0	
MCTJCXTU	3C0	
MCTJECTD	590	
MCTJECTH	58C	
MCTJECTP	588	
MCTJECTU	588	
MCTJFATD	998	
MCTJFATH	994	
MCTJFATP	990	
MCTJFATU	990	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTJFETD	5FC	
MCTJFETH	5F8	
MCTJFETP	5F4	
MCTJFETU	5F4	
MCTJFLTD	5F0	
MCTJFLTH	5EC	
MCTJFLTP	5E8	
MCTJFLTU	5E8	
MCTJOBTD	5B4	
MCTJOBTH	5B0	
MCTJOBTP	5AC	
MCTJOBTU	5AC	
MCTJOFTD	5D8	
MCTJOFTH	5D4	
MCTJOFTP	5D0	
MCTJOFTU	5D0	
MCTJPYTD	608	
MCTJPYTH	604	
MCTJPYTP	600	
MCTJPYTU	600	
MCTJQETD	5C0	
MCTJQETH	5BC	
MCTJQETP	5B8	
MCTJQETU	5B8	
MCTJRNTH	294	
MCTJRNTP	294	
MCTJRWTD	92C	
MCTJRWTH	928	
MCTJRWTP	924	
MCTJRWTU	924	
MCTJSPTD	5CC	
MCTJSPTH	5C8	
MCTJSPTP	5C4	
MCTJSPTU	5C4	
MCTJTWTD	920	
MCTJTWTH	91C	
MCTJTWTP	918	
MCTJTWU	918	
MCTJVDTD	9A4	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTJVDTH	9A0	
MCTJVDP	99C	
MCTJVDTU	99C	
MCTJ2CTD	59C	
MCTJ2CTH	598	
MCTJ2CTP	594	
MCTJ2CTU	594	
MCTJ3CTD	5A8	
MCTJ3CTH	5A4	
MCTJ3CTP	5A0	
MCTJ3CTU	5A0	
MCTKPNTD	41C	
MCTKPNTH	418	
MCTKPNTP	414	
MCTKPNTU	414	
MCTLEN	9B0	9B4
MCTLIMTH	2BC	
MCTLIMTP	2BC	
MCTLINTD	C8	
MCTLINTH	C4	
MCTLINTP	C0	
MCTLINTU	C0	
MCTLJRTH	D0	
MCTLJRTP	CC	
MCTLJRTU	CC	
MCTLJTTH	DC	
MCTLJTTP	D8	
MCTLJTU	D8	
MCTLJWTD	950	
MCTLJWTH	94C	
MCTLJWTP	948	
MCTLJWTU	948	
MCLMTTD	614	
MCLMTTH	610	
MCLMTTP	60C	
MCLMTTU	60C	
MCLNCTH	318	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTLNCTP	318	
MCTLNETD	B0	
MCTLNETH	AC	
MCTLNETP	A8	
MCTLNETU	A8	
MCTLODTD	620	
MCTLODTH	61C	
MCTLODTP	618	
MCTLODTU	618	
MCTLOGTD	104	
MCTLOGTH	100	
MCTLOGTP	FC	
MCTLOGTU	FC	
MCTLOTTD	6F8	
MCTLOTTH	6F4	
MCTLOTPP	6F0	
MCTLOTTU	6F0	
MCTLRPTD	8D8	
MCTLRPTH	8D4	
MCTLRPTP	8D0	
MCTLRPTU	8D0	
MCTLSRTD	EC	
MCTLSRTH	E8	
MCTLSRTP	E4	
MCTLSRTU	E4	
MCTLSTTD	F8	
MCTLSTTH	F4	
MCTLSTTP	F0	
MCTLSTTU	F0	
MCTLSWTD	95C	
MCTLSWTH	958	
MCTLSWTP	954	
MCTLSWTU	954	
MCTLTRTD	BC	
MCTLTRTH	B8	
MCTLTRTP	B4	
MCTLTRTU	B4	
MCTLWCTD	98C	
MCTLWCTH	988	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTLWCTP	984	
MCTLWCTU	984	
MCTMASTD	62C	
MCTMASTH	628	
MCTMASTP	624	
MCTMASTU	624	
MCTMEMTD	638	
MCTMEMTH	634	
MCTMEMTP	630	
MCTMEMTU	630	
MCTMGTD	98	
MCTMGTH	94	
MCTMGTP	90	
MCTMGTU	90	
MCTMIGTD	650	
MCTMIGTH	64C	
MCTMIGTP	648	
MCTMIGTU	648	
MCTMJFTD	5E4	
MCTMJFTH	5E0	
MCTMJFTP	5DC	
MCTMJFTU	5DC	
MCTMODTH	658	
MCTMODTP	654	
MCTMPSTD	8C	
MCTMPSTH	88	
MCTMPSTP	84	
MCTMPSTU	84	
MCTMSGTH	288	
MCTMSGTP	288	
MCTMSMTH	2C0	
MCTMSMTP	2C0	
MCTNAUTD	698	
MCTNAUTH	694	
MCTNAUTP	690	
MCTNAUTU	690	
MCTNDPTD	68C	
MCTNDPTH	688	
MCTNDPTP	684	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTNDPTU	684	
MCTNETTD	6A4	
MCTNETTH	6A0	
MCTNETTP	69C	
MCTNETTU	69C	
MCTNJCTH	328	
MCTNJCTP	328	
MCTNJETD	668	
MCTNJETH	664	
MCTNJETP	660	
MCTNJETU	660	
MCTNOCTH	32C	
MCTNOCTP	32C	
MCTNODTD	680	
MCTNODTH	67C	
MCTNODTP	678	
MCTNODTU	678	
MCTNSVTD	23C	
MCTNSVTH	238	
MCTNSVTP	234	
MCTNSVTU	234	
MCTNTRTD	248	
MCTNTRTH	244	
MCTNTRTP	240	
MCTNTRTU	240	
MCTNWKTD	674	
MCTNWKTH	670	
MCTNWKTP	66C	
MCTNWKTU	66C	
MCTOFCTH	334	
MCTOFCTP	334	
MCTOFFTD	11C	
MCTOFFTH	118	
MCTOFFTP	114	
MCTOFFTU	114	
MCTOFLTD	110	
MCTOFLTH	10C	
MCTOFLTP	108	
MCTOFLTU	108	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTOJMTD	6B0	
MCTOJMTH	6AC	
MCTOJMTP	6A8	
MCTOJMTU	6A8	
MCTOJRTH	128	
MCTOJRTH	124	
MCTOJRTP	120	
MCTOJRTU	120	
MCTOJTDD	134	
MCTOJTTH	130	
MCTOJTTP	12C	
MCTOJTU	12C	
MCTOPDTD	6C8	
MCTOPDTH	6C4	
MCTOPDTP	6C0	
MCTOPDTU	6C0	
MCTOPTTD	80	
MCTOPTTH	7C	
MCTOPTTP	78	
MCTOPTU	78	
MCTOPYTD	6E0	
MCTOPYTH	6DC	
MCTOPYTP	6D8	
MCTOPYTU	6D8	
MCTOSMTD	6BC	
MCTOSMTH	6B8	
MCTOSMTP	6B4	
MCTOSMTU	6B4	
MCTOSRTD	140	
MCTOSRTH	13C	
MCTOSRTP	138	
MCTOSRTU	138	
MCTOSTTD	14C	
MCTOSTTH	148	
MCTOSTTP	144	
MCTOSTTU	144	
MCTOTPTD	6EC	
MCTOTPTH	6E8	
MCTOTPTP	6E4	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTOTPTU	6E4	
MCTOUNTH	2C8	
MCTOUNTP	2C8	
MCTOUTTD	6D4	
MCTOUTTH	6D0	
MCTOUTTP	6CC	
MCTOUTTU	6CC	
MCTPARTD	554	
MCTPARTH	550	
MCTPARTP	54C	
MCTPARTU	54C	
MCTPCCTD	710	
MCTPCCTH	70C	
MCTPCCTP	708	
MCTPCCTU	708	
MCTPCDTD	734	
MCTPCDTH	730	
MCTPCDTP	72C	
MCTPCDTU	72C	
MCTPCETD	8	
MCTPCETH	4	
MCTPCETP	0	
MCTPCETU	0	
MCTPCNTD	71C	
MCTPCNTH	718	
MCTPCNTP	714	
MCTPCNTU	714	
MCTPCRTD	68	
MCTPCRTH	64	
MCTPCRTP	60	
MCTPCRTU	60	
MCTPDDTD	74C	
MCTPDDTH	748	
MCTPDDTP	744	
MCTPDDTU	744	
MCTPDTTD	728	
MCTPDTHH	724	
MCTPDTHP	720	
MCTPDTHU	720	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTPITTD	56C	
MCTPITTH	568	
MCTPITTP	564	
MCTPITTU	564	
MCTPLMTH	2C4	
MCTPLMTP	2C4	
MCTPPRTH	2B8	
MCTPPRTP	2B8	
MCTPRCTH	2A8	
MCTPRCTP	2A8	
MCTPRFTD	8CC	
MCTPRFTH	8C8	
MCTPRFTP	8C4	
MCTPRFTU	8C4	
MCTPRLTD	1AC	
MCTPRLTH	1A8	
MCTPRLTP	1A4	
MCTPRLTU	1A4	
MCTPRTTD	1A0	
MCTPRTTH	19C	
MCTPRTTP	198	
MCTPRTTU	198	
MCTPRWTD	908	
MCTPRWTH	904	
MCTPRWTP	900	
MCTPRWTU	900	
MCTPTCTH	330	
MCTPTCTP	330	
MCTPTDTD	740	
MCTPTDTH	73C	
MCTPTDTP	738	
MCTPTDTU	738	
MCTPTHTD	704	
MCTPTHTH	700	
MCTPTHTP	6FC	
MCTPTHTU	6FC	
MCTPUDTD	758	
MCTPUDTH	754	
MCTPUDTP	750	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTPUDTU	750	
MCTPUNTD	1B8	
MCTPUNTH	1B4	
MCTPUNTP	1B0	
MCTPUNTU	1B0	
MCTPUWTD	914	
MCTPUWTH	910	
MCTPUWTP	90C	
MCTPUWTU	90C	
MCTPYDTD	164	
MCTPYDTH	160	
MCTPYDTP	15C	
MCTPYDTU	15C	
MCTPYETD	170	
MCTPYETH	16C	
MCTPYETP	168	
MCTPYETU	168	
MCTPYITD	158	
MCTPYITH	154	
MCTPYITP	150	
MCTPYITU	150	
MCTPYSTD	17C	
MCTPYSTH	178	
MCTPYSTP	174	
MCTPYSTU	174	
MCTP1CTH	340	
MCTP1CTP	340	
MCTRANTH	298	
MCTRANTP	298	
MCTRAUTD	794	
MCTRAUTH	790	
MCTRAUTP	78C	
MCTRAUTU	78C	
MCTRCNTD	224	
MCTRCNTH	220	
MCTRCNTP	21C	
MCTRCNTU	21C	
MCTRCVTD	7AC	
MCTRCVTH	7A8	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTRCVTP	7A4	
MCTRCVTU	7A4	
MCTRDITD	1C4	
MCTRDITH	1C0	
MCTRDITP	1BC	
MCTRDITU	1BC	
MCTRDRTD	1D0	
MCTRDRTH	1CC	
MCTRD RTP	1C8	
MCTRDRTU	1C8	
MCTRDTTD	50	
MCTRD TTH	4C	
MCTRD TTP	48	
MCTRD TTU	48	
MCTRDVTD	1F4	
MCTRDVTH	1F0	
MCTRDVTP	1EC	
MCTRDVTU	1EC	
MCTREDTD	7A0	
MCTREDTH	79C	
MCTREDTP	798	
MCTREDTU	798	
MCTRGDTD	1DC	
MCTRGDTH	1D8	
MCTRGDTP	1D4	
MCTRGDTU	1D4	
MCTRM TTD	7B8	
MCTRM TTH	7B4	
MCTRM TTP	7B0	
MCTRM TTU	7B0	
MCTRNGTH	2A0	
MCTRNGTP	2A0	
MCTRN2TH	2A4	
MCTRN2TP	2A4	
MCTRPRTD	200	
MCTRP RTH	1FC	
MCTRP RTP	1F8	
MCTRPRTU	1F8	
MCTRPUTD	20C	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTRPUTH	208	
MCTRPUTP	204	
MCTRPUTU	204	
MCTRQJTD	1E8	
MCTRQJTH	1E4	
MCTRQJTP	1E0	
MCTRQJTU	1E0	
MCTRRDTD	218	
MCTRRDTH	214	
MCTRRDTP	210	
MCTRRDTU	210	
MCTSAFTH	2AC	
MCTSAFTP	2AC	
MCTSAWTD	968	
MCTSAWTH	964	
MCTSAWTP	960	
MCTSAWTU	960	
MCTSBDTD	830	
MCTSBDTH	82C	
MCTSBDTP	828	
MCTSBDTU	828	
MCTSBMTD	260	
MCTSBMTH	25C	
MCTSBMTP	258	
MCTSBMTU	258	
MCTSCTTD	7C4	
MCTSCTTH	7C0	
MCTSCTTP	7BC	
MCTSCTTU	7BC	
MCTSEPTD	890	
MCTSEPTH	88C	
MCTSEPTP	888	
MCTSEPTU	888	
MCTSESTD	3BC	
MCTSESTH	3B8	
MCTSESTP	3B4	
MCTSESTU	3B4	
MCTSKCTH	31C	
MCTSKCTP	31C	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTSMFTD	7D0	
MCTSMFTH	7CC	
MCTSMFTP	7C8	
MCTSMFTU	7C8	
MCTSNATD	3B0	
MCTSNATH	3AC	
MCTSNATP	3A8	
MCTSNATU	3A8	
MCTSOKTD	254	
MCTSOKTH	250	
MCTSOKTP	24C	
MCTSOKTU	24C	
MCTSPCTD	410	
MCTSPCTH	40C	
MCTSPCTP	408	
MCTSPCTU	408	
MCTSPDTD	7E8	
MCTSPDTH	7E4	
MCTSPDTP	7E0	
MCTSPDTU	7E0	
MCTSPLTD	7DC	
MCTSPLTH	7D8	
MCTSPLTP	7D4	
MCTSPLTU	7D4	
MCTSPSTH	320	
MCTSPSTP	320	
MCTSRWTD	944	
MCTSRWTH	940	
MCTSRWTP	93C	
MCTSRWTU	93C	
MCTSSITD	884	
MCTSSITH	880	
MCTSSITP	87C	
MCTSSITU	87C	
MCTSTATD	860	
MCTSTATH	85C	
MCTSTATP	858	
MCTSTATU	858	
MCTSTWTD	938	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTSTWTH	934	
MCTSTWTP	930	
MCTSTWTU	930	
MCTSTYTD	644	
MCTSTYTH	640	
MCTSTYTP	63C	
MCTSTYTU	63C	
MCTSUBTD	230	
MCTSUBTH	22C	
MCTSUBTP	228	
MCTSUBTU	228	
MCTSWCTD	980	
MCTSWCTH	97C	
MCTSWCTP	978	
MCTSWCTU	978	
MCTTGSTD	800	
MCTTGSTH	7FC	
MCTTGSTP	7F8	
MCTTGSTU	7F8	
MCTTHMTD	878	
MCTTHMTH	874	
MCTTHMTP	870	
MCTTHMTU	870	
MCTTIDTD	5C	
MCTTIDTH	58	
MCTTIDTP	54	
MCTTIDTU	54	
MCTTLGTD	86C	
MCTTLGTH	868	
MCTTLGTP	864	
MCTTLGTU	864	
MCTTPDTD	83C	
MCTTPDTH	838	
MCTTPDTP	834	
MCTTPDTU	834	
MCTTRCTD	848	
MCTTRCTH	844	
MCTTRCTP	840	
MCTTRCTU	840	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTTRITD	854	
MCTTRITH	850	
MCTTRITP	84C	
MCTTRITU	84C	
MCTVCATH	2E8	
MCTVCATP	2E8	
MCTVFYTD	26C	
MCTVFYTH	268	
MCTVFYTP	264	
MCTVFYTU	264	
MCTVIATD	89C	
MCTVIATH	898	
MCTVIATP	894	
MCTVIATU	894	
MCTVISTH	2F0	
MCTVISTP	2F0	
MCTVJABH	30C	
MCTVJABP	30C	
MCTVJCTH	2F4	
MCTVJCTP	2F4	
MCTVJOFH	2FC	
MCTVJOFP	2FC	
MCTVJSTH	2F8	
MCTVJSTP	2F8	
MCTVJVLH	308	
MCTVJVLP	308	
MCTVKPTD	458	
MCTVKPTH	454	
MCTVKPTP	450	
MCTVKPTU	450	
MCTVLTTD	44C	
MCTVLTTH	448	
MCTVLTTP	444	
MCTVLTTU	444	
MCTVOJLH	310	
MCTVOJLP	310	
MCTVOJTH	2D4	
MCTVOJTP	2D4	
MCTVOLTH	2B0	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTVOLTP	2B0	
MCTVOSTH	2D0	
MCTVOSTP	2D0	
MCTVSFTH	2E0	
MCTVSFTP	2E0	
MCTVSOFH	300	
MCTVSOFP	300	
MCTVSRTH	2D8	
MCTVSRTP	2D8	
MCTVSSTH	2EC	
MCTVSSTP	2EC	
MCTVSTTH	2DC	
MCTVSTTP	2DC	
MCTVTMTH	280	
MCTVTMTP	280	
MCTVUNTD	8A8	
MCTVUNTH	8A4	
MCTVUNTP	8A0	
MCTVUNTU	8A0	
MCTVVUDH	304	
MCTVVUDP	304	
MCTVWSAH	2E4	
MCTVWSAP	2E4	
MCTVWSTH	2CC	
MCTVWSTP	2CC	
MCTVXMTD	3EC	
MCTVXMTH	3E8	
MCTVXMTP	3E4	
MCTVXMTU	3E4	
MCTWCTTD	818	
MCTWCTTH	814	
MCTWCTTP	810	
MCTWCTTU	810	
MCTWMCTD	824	
MCTWMCTH	820	
MCTWMCTP	81C	
MCTWMCTU	81C	
MCTWSCTD	80C	
MCTWSCTH	808	

Table 300. Cross Reference for \$MCT (continued)

Name	Offset	Hex Tag
MCTWSCTP	804	
MCTWSCTU	804	
MCTXITTD	518	
MCTXITTH	514	
MCTXITTP	510	
MCTXITTU	510	
MCTXRLTD	524	
MCTXRLTH	520	
MCTXRLTP	51C	
MCTXRLTU	51C	
MCTXRTTH	290	
MCTXRTTP	290	
MCTZJBTD	8B4	
MCTZJBTH	8B0	
MCTZJBTP	8AC	
MCTZJB TU	8AC	
MCT4KPTD	8C0	
MCT4KPTH	8BC	
MCT4KPTP	8B8	
MCT4KPTU	8B8	

\$MIGROBJ information

\$MIGROBJ heading information

Common name:	Migration object
Macro ID:	\$MIGROBJ
DSECT name:	MIGROBJ
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	Volume serial Offset: MIGKEY-MIGROBJ Length: L'MIGKEY
Storage attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.
Size:	See MIGSIZ
Created by:	\$DOGDAS - create migration recovery object
Pointed to by:	Pointer returned by \$DOGMIG service
Serialization:	Update access is serialized by the BERT lock

Function:

The \$MIGROBJ is stored in BERTs in the JES2 checkpoint structure. The object is accessed via the source volume serial of the migrating SPOOL volume. This macro maps a migration object. The scope of a recovery object is one migration being either a move or merge. Each and every migration has one. A migration recovery object serves two purposes. First it will house a target DAS for a move migration. Secondly it contains recovery fields to restart or cancel a migration should the migrator -- member go away. The layout is as follows:

BERT backed target DAS - support of MOVE

Source VOLID

Recovery data (For move and merge)

This object is BERT backed. Keyed BERT - keyed on source VOLID.

\$MIGROBJ mapping

Table 301. Structure MIGROBJ

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MIGROBJ	
0	(0)	BITSTRING	212	MIGDAS	BERT backed DAS in support of move migration
212	(D4)	CHARACTER	6	MIGKEY	Migration source DAS VOLID - key BERT access for merge and move.
Information used to drive migration recovery These fields are memory only (not in BERTs)					
220	(DC)	SIGNED	4	(0)	Alignment
220	(DC)	BITSTRING	1	RCGENINF	General recovery info
Following 3 fields define migration recovery types which DADMSET1 will perform. Rotuine MIGRREC (migration recovery) sets the recovery type and are interpreted by DADMSET1 (Recovery setup).					
		1...		RCFULL	"B'10000000'" FULL-RECOVERY. Given source DAS our member becomes migrator and our migration assistant is also initialized.
		.1..		RCMIGRAT	"B'01000000'" MIGRATOR-TAKEOVER. Given source DAS our member becomes migrator. Our migration assistant is OK.
		..1.		RCASSIST	"B'00100000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
221	(DD)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	RCMIGDTE	MIGR DTE address
Source DAS recovery information (BERT backed)					
232	(E8)	DBL WORD	8	RCSRCTR(0)	Start of source info
232	(E8)	BITSTRING	1	RCSRINF	Source dataset info
233	(E9)	BITSTRING	1	RCSRSTS	Source migration status

Table 301. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		RCRGMDN	"B'10000000'" DADMCLU1 - TARGTGM - This migration has run TARGTGM once either in normal or recovery mode and must never run again. If we crash during TARGTGM the sniffer will recover target TGM in time.
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4	RCRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing
240	(F0)	SIGNED	4	RCRHITG	SRC DAS TG associated with highwater mark.
244	(F4)	SIGNED	4	RCRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
248	(F8)	SIGNED	4	RCRSBITR	Number of records needed to store the TLBM (track levelbitmap)
252	(FC)	SIGNED	4	RCRNUMRQ	Total number of tracks which must be migrated for this migration.
256	(100)	SIGNED	4	RCRSRECT	Number of records per track
260	(104)	SIGNED	4	RCRSRTRC	Tracks per cylinder
264	(108)	BITSTRING	1	RCRSRFX	One to ensure max BERT
272	(110)	DBL WORD	8	(0)	Align section
272	(110)	X'E8'	0	RCSRCINF	"RCSRCSTR,*-RCSRCSTR" Source info segment in BERTs
End source DAS Target DAS recovery information (BERT backed)					
272	(110)	DBL WORD	8	RCTRGSTR(0)	Start of target info
272	(110)	CHARACTER	6	RCVOLID	EBCDIC VOLSER ID of target.
278	(116)	BITSTRING	2		Reserved
280	(118)	SIGNED	4	RCRMIGRC	Number of tracks required on target dataset to house TLBM.
284	(11C)	SIGNED	4	RCRTGTG	Number of TGs in target
288	(120)	SIGNED	4	RCRTGSTT	Start TG reserved in target DAS TGM for pending migration - is one based. Valid for merge only.
292	(124)	SIGNED	4	RCRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
296	(128)	SIGNED	4	RCRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
300	(12C)	SIGNED	4	RCATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
304	(130)	SIGNED	4	RCRSBTAS	Relative track at which the track level bitmap starts on target volume
308	(134)	SIGNED	4	RCRTDAST	Target DASSTRK value
312	(138)	BITSTRING	1	RCRTGINF	Target dataset info
313	(139)	BITSTRING	2		Reserved
316	(13C)	SIGNED	4	RCRTGTRC	Tracks per cylinder
320	(140)	SIGNED	4	RCRTRECT	Records per track for target

Table 301. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
324	(144)	BITSTRING	1	RCRTGFIX	One to ensure max BERT
328	(148)	DBL WORD	8	(0)	Align section
328	(148)	X'110'	0	RCTRGINF	"RCTRGSTR,*-RCTRGSTR" Target info segment in BERTs
End target DAS					
328	(148)	X'148'	0	MIGSIZ	"*-MIGROBJ" Size of migration object

Table 302. Cross Reference for \$MIGROBJ

Name	Offset	Hex	Tag
MIGDAS	0		
MIGKEY	D4		
MIGROBJ	0		
MIGSIZ	148		148
RCASSIST	DC		20
RCATGWRT	12C		
RCFULL	DC		80
RCGENINF	DC		
RCMIGDTE	E0		
RCMIGRAT	DC		40
RCRGMDN	E9		80
RCRHITG	F0		
RCRMIGRC	118		
RCRNUMRQ	FC		
RCRSBITR	F8		
RCRSBTAS	130		
RCRSRCST	EC		
RCRSRECT	100		
RCRSRFX	108		
RCRSRINF	E8		
RCRSRSTS	E9		
RCRSRTRC	104		
RCRSRTRK	F4		
RCRTDAST	134		
RCRTGENT	124		
RCRTGFIX	144		
RCRTGINF	138		
RCRTGSTT	120		
RCRTGTG	11C		
RCRTGTRC	13C		

Table 302. Cross Reference for \$MIGROBJ (continued)

Name	Offset	Hex Tag
RCRTGWRT	128	
RCRTRECT	140	
RCSRCINF	110	E8
RCSRCSTR	E8	
RCTRGINF	148	110
RCTRGSTR	110	
RCVOLID	110	40404040

\$MIT information

\$MIT heading information

Common name: Module Information Table

Macro ID: \$MIT

DSECT name: MIT

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'MIT '
Offset: MITID-MIT
Length: 4

Storage attributes: Subpool: The subpool of the load module involved
Key: The key of the load module involved
Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MITLNGTH equate and the MITLEN field.

Created by: A MIT is created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup.

Pointed to by: The MIT for a module is at the start of its CSECT. MITs for modules in JES2 multi-csect load modules are pointed to by the \$MODMAP entries. MITs for modules in single-csect load modules, such as exits, are pointed to by the load module's \$LMT control block.

Serialization: MITs should be considered read-only control blocks.

Function: The MITs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination. All JES2 modules must have a MIT at their front, and MTEs at the end.

\$MIT mapping

Table 303. Structure MIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIT	HASP MODULE INFO TABLE DSECT
0	(0)	CHARACTER	4	MITID	MIT IDENTIFIER FIELD
4	(4)	CHARACTER	8	MITNAME	NAME OF MODULE
12	(C)	CHARACTER	8	MITVRSN	VERSION OF THIS JES2 RELEASE
20	(14)	CHARACTER	8	MITUVRSN	USER VERSION OF THIS JES2 REL
28	(1C)	CHARACTER	8	MITUSER	RESERVED FOR USER
36	(24)	ADDRESS	1	MITCBV	Control block version
36	(24)	X'1'	0	MITCBVE	"1" Control block version equ
37	(25)	CHARACTER	1	MITENVIR	Module assembly environment
37	(25)	X'D1'	0	MITENVJ	"C'J'" JES2 main task environment
37	(25)	X'E2'	0	MITENVS	"C'S'" JES2 subtask environment
37	(25)	X'E4'	0	MITENVU	"C'U'" all-addrspc USER environ
37	(25)	X'C6'	0	MITENVF	"C'F'" FSS addrspc environment
37	(25)	X'C9'	0	MITENVI	"C'I'" IPCS environment
37	(25)	X'D4'	0	MITENVM	"C'M'" JES2 monitor environment
37	(25)	X'E5'	0	MITENVV	"C'V'" Various environs in module
37	(25)	X'C4'	0	MITENV D	"C'D'" Documentation
38	(26)	ADDRESS	2	MITLEN	Length of this MIT
40	(28)	CHARACTER	1	MITMVRSN	VERSION OF THE MACLIBS USED TO ASSEMBLE THIS MODULE, FROM THE SPLEVEL MACRO
41	(29)	ADDRESS	1	MITFLAG1	MIT FLAG 1
	1...			MIT10CO	"B'10000000'" 0 C 0 module
	.1..			MIT1BSPL	"B'01000000'" Bypass MVS SPLEVEL check during module load
	..1.			MIT1IBMB	"B'00100000'" Base module in the IBM JES2 product
	...1			MIT1IBMS	"B'00010000'" Sample module (e.g. exit) in the IBM JES2 product
	.... 1...			MIT1PTF	"B'00001000'" PTFNUM field exists
	.... .1..			MIT1NDYN	"B'00000100'" Module does not support dynamic operations
42	(2A)	ADDRESS	2		Reserved for future use
44	(2C)	CHARACTER	8	MITFMID	JES2 SMP product FMID
52	(34)	CHARACTER	8	MITDATE	DATE OF ASSEMBLY
60	(3C)	CHARACTER	5	MITTIME	TIME OF ASSEMBLY
65	(41)	ADDRESS	3	MITMODSZ	Length of assembly module (up through \$MODEND)
68	(44)	ADDRESS	4	MITENTAD	ADDRESS OF MIT ENTRY TABLE
72	(48)	ADDRESS	4	MITXMAPA	Addr of 32 byte (256 bit) bit mask for exit points in this module
76	(4C)	ADDRESS	4	MITAPARN	Pointer to 8 byte APARNUM if it exists, else to this MIT's MITUVRSN field
80	(50)	DBL WORD	8	(0)	ENSURE MIT ENDS ON DOUBLEWORD
80	(50)	X'50'	0	MITLNTH	"*-MIT" Length of a MIT

Table 304. Cross Reference for \$MIT

Name	Offset	Hex Tag
MIT	0	
MITAPARN	4C	
MITCBV	24	
MITCBVE	24	1
MITDATE	34	
MITENTAD	44	
MITENVD	25	C4
MITENVF	25	C6
MITENVI	25	C9
MITENVIR	25	
MITENVJ	25	D1
MITENVM	25	D4
MITENVS	25	E2
MITENVU	25	E4
MITENVV	25	E5
MITFLAG1	29	
MITFMID	2C	
MITID	0	
MITLEN	26	
MITLNTH	50	50
MITMODSZ	41	
MITMVRN	28	
MITNAME	4	
MITTIME	3C	
MITUSER	1C	
MITUVRN	14	
MITVRN	C	
MITXMAPA	48	
MIT1BSPL	29	40
MIT1IBMB	29	20
MIT1IBMS	29	10
MIT1NDYN	29	4
MIT10C0	29	80
MIT1PTF	29	8

\$MITETBL information

\$MITETBL heading information

Common name: Module Information Table Entries

Macro ID: \$MITETBL

DSECT name: MTE

Owning component: JES2 (SC1BH)

Eye-catcher ID: '\$\$\$\$MTES' (as the first MTE's MTENAME)
Offset: MTENAME of the first MTE - MTE
Length: 8

Storage attributes: Subpool: The subpool of the load module involved
Key: The key of the load module involved
Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MTELEN equate.

Created by: The MTEs for a module are created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup, the \$ENTRY macro to define the entry points (MTEs), and \$MODEND to perform the module epilog.

Pointed to by: The MTEs for a module are at the end of its CSECT. The MITENDAD field in the module's MIT at the front of module points to the first MTE.

Serialization: MTEs should be considered read-only control blocks.

Function: The MTEs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination. All JES2 modules must have a MIT at their front, and MTEs at the end.

\$MITETBL mapping

Table 305. Structure MTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTE	HASP MIT ENTRY TABLE DSECT
0	(0)	CHARACTER	8	MTENAME	NAME FROM \$ENTRY
8	(8)	ADDRESS	4	MTEADDR	Address of the entry point
12	(C)	BITSTRING	1	MTEFLAG1	Type of entry pt, multiple flags may be set, or none
	1...			MTEF1CAD	"B'10000000'" MTEADLOF is CADDR offset
	.1...			MTEF1COF	"B'01000000'" MTEADLOF is an 0C00FFST offset, and that field contains a CADDR offset
	..1.			MTEF1PAD	"B'00100000'" MTEADLOF is PADDR offset
	...1			MTEF1POF	"B'00010000'" MTEADLOF is an 0C00FFST offset, and that field contains a PADDR offset

Table 305. Structure MTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		MTEF1CCT	"B'00000100'" MTEADLOF is CCT table pair offset
		.... ..1.		MTEF1MCT	"B'00000010'" MTEADLOF is MCT table pair offset
		.... ...1		MTEF1UCT	"B'00000001'" MTEADLOF is UCT table pair offset
13	(D)	CHARACTER	1	MTEENVIR	Assembly environment (see the MITENVIR equates)
14	(E)	BITSTRING	1	MTEFLAG2	More flags
		1...		MTEF2TAB	"B'10000000'" MTE represents a table
		.1..		MTEF2DUP	"B'01000000'" MTE is a duplicate entry
		..1.		MTEF2SSI	"B'00100000'" SSI entry point
		...1		MTEF2\$EX	"B'00010000'" \$EXIT pt #, not callable
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	BITSTRING	2	MTEADLOF	Offset in CADDR, PADDR, or OC00FFST, if any
18	(12)	BITSTRING	1	MTESSI\$E	SSI # minus 1 if MTEF1SSI, or \$EXIT pt # if MTEF1\$EX
19	(13)	BITSTRING	1	MTETBTYP	Table type if MTEF1TAB is set - the type is also used by the \$GETABLE and \$PUTABLE services
19	(13)	X'0'	0	MTETPCE	"0" Table is \$PCETAB
19	(13)	X'1'	0	MTETDCT	"1" Table is \$DCTTAB
19	(13)	X'2'	0	MTETDTE	"2" Table is \$DTETAB
19	(13)	X'3'	0	MTETTID	"3" Table is \$TIDTAB
19	(13)	X'4'	0	MTETPCR	"4" Table is \$PCTAB
19	(13)	X'5'	0	MTETBERT	"5" Table is \$BERTTAB
19	(13)	X'6'	0	MTETWST	"6" Table is \$WSTAB
19	(13)	X'7'	0	MTETSCAN	"7" Table is \$SCANTAB
19	(13)	X'8'	0	MTETXCA	"8" Table is \$XCATAB
19	(13)	X'9'	0	MTETJFA	"9" Table is \$JFATAB
19	(13)	X'A'	0	MTETJVD	"10" Table is \$JVDTAB
19	(13)	X'B'	0	MTETXOP	"11" Table is \$XOPTAB
19	(13)	X'C'	0	MTETXVC	"12" Table is \$XVCTAB
19	(13)	X'D'	0	MTETXFA	"13" Table is \$XFATAB
19	(13)	X'E'	0	MTETXAT	"14" Table is \$XACTTAB
19	(13)	X'E'	0	MTETMAX	"14" Highest defined tbl type
19	(13)	X'14'	0	MTELEN	"*-MTE" LENGTH OF ENTRY

Table 306. Cross Reference for \$MITETBL

Name	Offset	Hex Tag
MTE	0	
MTEADDR	8	
MTEADLOF	10	
MTEENVIR	D	
MTEFLAG1	C	

Table 306. Cross Reference for \$MITETBL (continued)

Name	Offset	Hex Tag
MTEFLAG2	E	
MTEF1CAD	C	80
MTEF1CCT	C	4
MTEF1C0F	C	40
MTEF1MCT	C	2
MTEF1PAD	C	20
MTEF1P0F	C	10
MTEF1UCT	C	1
MTEF2\$EX	E	10
MTEF2DUP	E	40
MTEF2SSI	E	20
MTEF2TAB	E	80
MTELEN	13	14
MTENAME	0	
MTESSI\$E	12	
MTETBERT	13	5
MTETBTYP	13	
MTETDCT	13	1
MTETDTE	13	2
MTETJFA	13	9
MTETJVD	13	A
MTETMAX	13	E
MTETPCE	13	0
MTETPCR	13	4
MTETSCAN	13	7
MTETTID	13	3
MTETWST	13	6
MTETXAT	13	E
MTETXCA	13	8
MTETXFA	13	D
MTETXOP	13	B
MTETXVC	13	C

\$MLMWORK information

\$MLMWORK programming interface information

\$MLMWORK is a programming interface.

\$MLMWORK heading information

Common name:	Line manager PCE work area
Macro ID:	\$MLMWORK
DSECT name:	PCE
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	PCE Offset: PCEEYE Length: L'PCEEYE
Storage attributes:	Subpool: 25 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.
Size:	See MLMLLEN
Created by:	\$PCEDYN service during JES2 initialization
Pointed to by:	\$MLLMPCF field of the \$HCT data area
Serialization:	JES2 main task
Function:	The fields in this work area are used by the JES2 line manager processor. \$MLMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$MLMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMLMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$MLMWORK mapping

Table 307. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP MULTI-LEAVING LINE MANAGER
336	(150)	DBL WORD	8	MLMCLOCK	LINE MANAGER LAST DISPATCH TIME
344	(158)	BITSTRING	12	MLMTQE	LINE MANAGER TIMER QUE ELEMENT
356	(164)	ADDRESS	4	MLMDTIME	LINE MANAGER NEXT DISC LOOK TIME
360	(168)	ADDRESS	4	MLMATIME	LINE MANAGER NEXT AUTOLOGON SCAN TIME
364	(16C)	SIGNED	4	MLMTTIME	Last active TCP line scan (word 1 of STCKF)
368	(170)	SIGNED	4		Reserved
372	(174)	ADDRESS	4	MLMQUES(0)	Start of MLM queues
372	(174)	ADDRESS	4	MLMBSCAL	LINE MANAGER ACTIVE BSC LINES PTR
376	(178)	ADDRESS	4	MLMSNALG	LINE MANAGER ACTIVE LOGON DCT PTR
380	(17C)	ADDRESS	4	MLMSNAAL	LINE MANAGER ACTIVE LINE DCT PTR
384	(180)	ADDRESS	4	MLMSNAIL	LINE MANAGER IDLE SNA LINES PTR
388	(184)	ADDRESS	4	MLMTCPAL	LINE MANAGER ACTIVE TCP LINES PTR
392	(188)	ADDRESS	4	MLMTCPIL	LINE MANAGER IDLE TCP LINES PTR
396	(18C)	ADDRESS	4	MLMTCPSV	LINE MANAGER ACTIVE SERVER DCT
400	(190)	ADDRESS	4	MLMTCPST	LINE MANAGER STARTING SERVER

Table 307. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
404	(194)	ADDRESS	4	MLMLOGQ	LINE MANAGER LOGON DCT QUEUE
408	(198)	ADDRESS	4	MLMICEQ	LINE MANAGER SCHED ICE QUEUE
412	(19C)	ADDRESS	4	MLMRPLQ	Line mgr SNA/RPL buffer q
416	(1A0)	ADDRESS	4	MLMBSCQ	Line mgr BSC buffer queue
420	(1A4)	ADDRESS	4	MLMWORKQ	LINE MANAGER ACTIVE WORK QUEUE
424	(1A8)	ADDRESS	4	MLMASWLQ	Line mgr active SWEL queue
Posted SWEL queues. These queues must be kept together.					
428	(1AC)	ADDRESS	4	MLMPSWLQ(0)	Line mgr Posted SWEL Queues
428	(1AC)	ADDRESS	4	MLMPSWLB	Line mgr BSC Posted SWEL Q
432	(1B0)	ADDRESS	4	MLMPSWLS	Line mgr SNA Posted SWEL Q
MLMSCNI1, MLMSCNI2, and MLMEVNTI represent actions to be performed on the NEXT scan of the line manager and must be kept together.					
436	(1B4)	BITSTRING	1	MLMSCNI1	LINE MANAGER DCT SCAN INDICATOR
		1... ..		MLMSBUNT	"B'10000000" SCAN INACTIVE BSC LINE DCT
		.1.. ..		MLMSBACT	"B'01000000" SCAN ACTIVE BSC LINE DCTS
		..1.		MLMSSIDL	"B'00100000" SCAN IDLE SNA LINE DCTS
		...1		MLMSSLOG	"B'00010000" SCAN ACTIVE SNA LOGON DCTS
		.... 1...		MLMSSLNE	"B'00001000" SCAN ACTIVE SNA LINE DCTS
		...1 1...		MLMSSALL	"B'00011000" SCAN ACTIVE SNA LOGON/LINE
		.... .1..		MLMSRAT	"B'00000100" SCAN RAT
		.... ..1.		MLMSSUNT	"B'00000010" SCAN INACTIVE SNA LINE/LOGON DCTS
		.... ...1		MLMSSVfy	"B'00000001" DO QUEUE VALIDATION
437	(1B5)	BITSTRING	1	MLMSCNI2	LINE MANAGER DCT SCAN INDICATOR
		1... ..		MLMSTUNT	"B'10000000" SCAN INACTIVE TCP LINE DCTS
		.1.. ..		MLMSTIDL	"B'01000000" SCAN IDLE TCP LINE DCTS
		..1.		MLMSTACT	"B'00100000" SCAN ACTIVE TCP LINE DCTS
		...1		MLMSTSRV	"B'00010000" SCAN ACTIVE TCP SERVER DCTS
438	(1B6)	BITSTRING	1	MLMEVNTI	LINE MANAGER GEN EVENT INDICATOR
		1... ..		MLMEPJOB	"B'10000000" EVENT \$JOT POST OCCURED
		.1.. ..		MLMETIME	"B'01000000" EVENT TIMER INTERRUPT OCCURED
		..1.		MLMEDISC	"B'00100000" EVENT DISCON INTERVAL OCCURED
		...1		MLMEALM	"B'00010000" A REMOTE IS IN AUTOLOGON MODE
		.... 1...		MLMEMXSS	"B'00001000" MAXSESS HAS BEEN EXCEEDED
		.... .1..		MLMECKPT	"B'00000100" CHECKPOINT POST OCCURED

Table 307. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
MLMSCNR1, MLMSCNR2, and MLMEVNTR represent actions to be performed on the CURRENT scan of the line manager and must be kept together. The flag definitions are the same as for MLMSCNI1, MLMSCNI2, and MLMEVNTI.					
439	(1B7)	BITSTRING	1	MLMSCNR1	LINE MANAGER REQ SCAN INDICATOR
440	(1B8)	BITSTRING	1	MLMSCNR2	LINE MANAGER REQ SCAN INDICATOR
441	(1B9)	BITSTRING	1	MLMEVNTR	LINE MANAGER REQ EVENT INDICATOR
442	(1BA)	BITSTRING	1	MLMPCTF1	Copy of PCTMLMF1 (see \$PCT)
443	(1BB)	BITSTRING	1		Reserved
444	(1BC)	ADDRESS	4	MLMSCANA	LINE MANAGER SCAN TABLE ADDRESS
448	(1C0)	ADDRESS	4	MLMICEQ2	LINE MANAGER RE-SCHED ICE Q
452	(1C4)	ADDRESS	2	MLMSEQWK	BSC CPU SEQUENCE CHECK WORK AREA
454	(1C6)	ADDRESS	2	MLMFCSWL	FUNCTION CNTL SEQUENCE WORK AREA
456	(1C8)	ADDRESS	1	MLMCMDTP	BSC RJE CCW COMMAND TYPE
457	(1C9)	ADDRESS	1	MLMFLAG1	LINE MANAGER FLAGS
		1...		MLM1LOGI	"B'10000000" RPL DIAGNOSTIC LOGGING INDICATOR
		.1..		MLM1WRK1	"B'01000000" MULTI-PURPOSE WORK FLAG
		..1.		MLM1TIST	"B'00100000" ONE SECOND INTERVAL TIMER SET
		...1		MLM1TIRQ	"B'00010000" ONE SECOND TIMER REQUESTED
		.... 1...		MLM1PWIG	"B'00001000" New password ignored msg
		.... .1..		MLM1LOJS	"B'00000100" Logon decision by JES2
		.... ..1.		MLM1PNPM	"B'00000010" MLLM should post NPM
		.... ...1		MLM1DERR	"B'00000001" MLLM has checked for double-queued buffer
458	(1CA)	SIGNED	2	MLMICESQ	Current ICE trace seq numb
460	(1CC)	SIGNED	4	MLMWCNT1	MLM scan rtn work counter 1
464	(1D0)	SIGNED	4	MLMWCNT2	MLM scan rtn work counter 2
468	(1D4)	SIGNED	4	MLMXPARM(0)	EXIT POINT PARAMETER LIST
468	(1D4)	SIGNED	4	MLMXRAT	ADDRESS OF RAT TABLE OR ENTRY
472	(1D8)	SIGNED	4	MLMXLDCT	ADDRESS OF LINE DCT
476	(1DC)	SIGNED	4	MLMXICE	ADDRESS OF ICE FOR SNA
480	(1E0)	SIGNED	4	MLMXCRDA	ADDRESS OF CARD IMAGE
484	(1E4)	SIGNED	4	MLMXCRDL	LENGTH OF CARD IMAGE
488	(1E8)	CHARACTER	80	MLMSONCD	SIGN-ON CARD INPUT AREA
568	(238)	CHARACTER	1	MLMLGWRK	Logon/Signon work space
568	(238)	X'244'	0	MLMLGNAM	"CAPENAM-CAPE+MLMLGWRK" Remote terminal name
568	(238)	X'24C'	0	MLMLGLPW	"CAPELPW-CAPE+MLMLGWRK" Line group password
568	(238)	X'254'	0	MLMLGRPW	"CAPERPW-CAPE+MLMLGWRK" Terminal Remote Pswd
568	(238)	X'25C'	0	MLMLGNPW	"CAPENPW-CAPE+MLMLGWRK" Terminal New Password
568	(238)	X'264'	0	MLMLGRMT	"CAPEUID-CAPE+MLMLGWRK" Short form rmt name

Table 307. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
632	(278)	SIGNED	4	(0)	ALIGN TO FULLWORD
632	(278)	CHARACTER	136	MLMSODCT	BASIC DUMMY RMT DCT
768	(300)	ADDRESS	4	MLMWRKIQ	Line Mgr SNA/ICE work queue
772	(304)	SIGNED	4	MLMQTTIM	Time of buffer q truncation
776	(308)	BITSTRING	54	MLMTWORK	Work area for ICE trace
830	(33E)	BITSTRING	1	MLMRFP	Recovery footprint
831	(33F)	BITSTRING	1	MLMRFPX	Prior recovery footprint
832	(340)	BITSTRING	1	MLMRFPCT	Recovery retry count
833	(341)	BITSTRING	1	MLMRFFG1	Flag for MLLM scan rtn with its own recovery
	1...			MLMRF1AB	"B'10000000" Recursion flag
Save areas for use by line manager					
840	(348)	SIGNED	8	MLMSAVE1	Save area 1
848	(350)	SIGNED	8	MLMSAVE2	Save area 2
856	(358)	SIGNED	8	MLMSAVE3	Save area 3
864	(360)	SIGNED	8	MLMSAVE4	Save area 4
872	(368)	SIGNED	8	MLMSAVE5	Save area 5
872	(368)	X'220'	0	MLMLEN	"*-PCEWORK" LENGTH OF PCE WORK SPACE

Table 308. Cross Reference for \$MLMWORK

Name	Offset	Hex	Tag
MLMASWLQ	1A8		
MLMATIME	168		
MLMBSCAL	174		
MLMBSCQ	1A0		
MLMCLOCK	150		
MLMCMDTP	1C8		
MLMDTIME	164		
MLMEALM	1B6		10
MLMECKPT	1B6		4
MLMEDISC	1B6		20
MLMEMXSS	1B6		8
MLMEPJOB	1B6		80
MLMETIME	1B6		40
MLMEVNTI	1B6		
MLMEVNTR	1B9		
MLMFCSWL	1C6		
MLMFLAG1	1C9		
MLMICEQ	198		
MLMICEQ2	1C0		
MLMICESQ	1CA		

Table 308. Cross Reference for \$MLMWORK (continued)

Name	Offset	Hex Tag
MLMLEN	368	220
MLMLGLPW	238	24C
MLMLGNAM	238	244
MLMLGNPW	238	25C
MLMLGRMT	238	264
MLMLGRPW	238	254
MLMLGWRK	238	
MLMLOGQ	194	
MLMPCTF1	1BA	
MLMPSWLB	1AC	
MLMPSWLQ	1AC	
MLMPSWLS	1B0	
MLMQTTIM	304	
MLMQUES	174	
MLMRFFG1	341	
MLMRFP	33E	
MLMRFPCT	340	
MLMRFPX	33F	
MLMRF1AB	341	80
MLMRPLQ	19C	
MLMSAVE1	348	
MLMSAVE2	350	
MLMSAVE3	358	
MLMSAVE4	360	
MLMSAVE5	368	
MLMSBACT	1B4	40
MLMSBUNT	1B4	80
MLMSCANA	1BC	
MLMSCNI1	1B4	
MLMSCNI2	1B5	
MLMSCNR1	1B7	
MLMSCNR2	1B8	
MLMSEQWK	1C4	
MLMSNAAL	17C	
MLMSNAIL	180	
MLMSNALG	178	
MLMSODCT	278	
MLMSONCD	1E8	
MLMSRAT	1B4	4

Table 308. Cross Reference for \$MLMWORK (continued)

Name	Offset	Hex Tag
MLMSSALL	1B4	18
MLMSSIDL	1B4	20
MLMSSLNE	1B4	8
MLMSSLOG	1B4	10
MLMSSUNT	1B4	2
MLMSSVFY	1B4	1
MLMSTACT	1B5	20
MLMSTIDL	1B5	40
MLMSTSRV	1B5	10
MLMSTUNT	1B5	80
MLMTCPAL	184	
MLMTCPIL	188	
MLMTCPST	190	
MLMTCPSV	18C	
MLMTQE	158	
MLMTTIME	16C	
MLMTWORK	308	
MLMWCNT1	1CC	
MLMWCNT2	1D0	
MLMWORKQ	1A4	
MLMWRKIQ	300	
MLMXCRDA	1E0	
MLMXCRDL	1E4	
MLMXICE	1DC	
MLMXLDCT	1D8	
MLMXPARM	1D4	
MLMXRAT	1D4	
MLM1DERR	1C9	1
MLM1LOGI	1C9	80
MLM1LOJS	1C9	4
MLM1PNPM	1C9	2
MLM1PWIG	1C9	8
MLM1TIRQ	1C9	10
MLM1TIST	1C9	20
MLM1WRK1	1C9	40
PCE	0	

\$MODMAP information

\$MODMAP heading information

Common name:	Module map for HASJES20 and HASPINIT
Macro ID:	\$MODMAP
DSECT name:	MAP
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	None
Storage attributes:	Subpool: The subpool of the HASJES20 load module Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.
Size:	See the MAPLEN equate.
Created by:	The MODMAP is created by assembly of the HASPTABS module in the HASJES20 load module.
Pointed to by:	The \$HASPMAP field in the \$HCT data area points to the MODMAP.
Serialization:	The MODMAP should usually be considered as read-only. Exceptions to this are the times when the HASPINIT load module is loaded and deleted, and when the REP facility establishes a REP BASE.
Function:	The MODMAP is used to provide a csect-granular map of the JES2 multi-csect load modules. The multi-csect load modules are HASJES20 and HASPINIT. All other JES2 modules, both for the IBM base JES2 product and for installation exits, are represented by LMT control blocks instead. The MODMAP also contains entry point addresses for main-task processors and subtasks in the JES2 address space.

\$MODMAP mapping

Table 309. Structure MAP

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MAP	HASP MODULE DIRECTORY DSECT
0	(0)	X'0'	0	MAPMOD1	"*" START OF MODMAP ENTRIES
0	(0)	CHARACTER	8	MAPABS	(not code, for REPs only)
16	(10)	CHARACTER	8	MAPARM	
32	(20)	CHARACTER	8	MAPARMO	
48	(30)	CHARACTER	8	MAPBSC	
64	(40)	CHARACTER	8	MAPCDYN	
80	(50)	CHARACTER	8	MAPCFAL	
96	(60)	CHARACTER	8	MAPCFBF	
112	(70)	CHARACTER	8	MAPCFDE	

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
128	(80)	CHARACTER	8	MAPCFE	
144	(90)	CHARACTER	8	MAPCFFC	
160	(A0)	CHARACTER	8	MAPCFLE	
176	(B0)	CHARACTER	8	MAPCFMT	
192	(C0)	CHARACTER	8	MAPCFQL	
208	(D0)	CHARACTER	8	MAPCFQU	
224	(E0)	CHARACTER	8	MAPCFRD	
240	(F0)	CHARACTER	8	MAPCFRE	
256	(100)	CHARACTER	8	MAPCFRL	
272	(110)	CHARACTER	8	MAPCFRS	
288	(120)	CHARACTER	8	MAPCFR2	
304	(130)	CHARACTER	8	MAPCFSI	
320	(140)	CHARACTER	8	MAPCFT1	
336	(150)	CHARACTER	8	MAPCFUN	
352	(160)	CHARACTER	8	MAPCFWP	
368	(170)	CHARACTER	8	MAPCFWR	
384	(180)	CHARACTER	8	MAPCKCF	
400	(190)	CHARACTER	8	MAPCKDA	
416	(1A0)	CHARACTER	8	MAPCKDS	
432	(1B0)	CHARACTER	8	MAPCKPT	
448	(1C0)	CHARACTER	8	MAPCKRR	
464	(1D0)	CHARACTER	8	MAPCKVR	
480	(1E0)	CHARACTER	8	MAPCNVT	
496	(1F0)	CHARACTER	8	MAPCOMM	
512	(200)	CHARACTER	8	MAPCON	
528	(210)	CHARACTER	8	MAPCSV	
544	(220)	CHARACTER	8	MAPDREP	
560	(230)	CHARACTER	8	MAPDYN	
576	(240)	CHARACTER	8	MAPEVTL	
592	(250)	CHARACTER	8	MAPEXTA	
608	(260)	CHARACTER	8	MAPFSSP	
624	(270)	CHARACTER	8	MAPHCCT	(not code, for REPs only)
640	(280)	CHARACTER	8	MAPHOPE	
656	(290)	CHARACTER	8	MAPIJS	
672	(2A0)	CHARACTER	8	MAPIRA	
672	(2A0)	X'2A0'	0	MAPINIT	"MAPIRA,8,C'C' "
688	(2B0)	CHARACTER	8	MAPIRDA	
704	(2C0)	CHARACTER	8	MAPIRMA	
720	(2D0)	CHARACTER	8	MAPIRPL	
736	(2E0)	CHARACTER	8	MAPIRRE	
752	(2F0)	CHARACTER	8	MAPIRSI	
768	(300)	CHARACTER	8	MAPJOS	
784	(310)	CHARACTER	8	MAPJQS	
800	(320)	CHARACTER	8	MAPMISC	
816	(330)	CHARACTER	8	MAPMSG	

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
832	(340)	CHARACTER	8	MAPNATS	
848	(350)	CHARACTER	8	MAPNET	
864	(360)	CHARACTER	8	MAPNJT	
880	(370)	CHARACTER	8	MAPNPM	
896	(380)	CHARACTER	8	MAPNRM	
912	(390)	CHARACTER	8	MAPNSR	
928	(3A0)	CHARACTER	8	MAPNST	
944	(3B0)	CHARACTER	8	MAPNUC	
960	(3C0)	CHARACTER	8	MAPODSM	
976	(3D0)	CHARACTER	8	MAPPCY	
992	(3E0)	CHARACTER	8	MAPPRPU	
1008	(3F0)	CHARACTER	8	MAPPSO	
1024	(400)	CHARACTER	8	MAPRAS	
1040	(410)	CHARACTER	8	MAPRDR	
1056	(420)	CHARACTER	8	MAPRGR	
1072	(430)	CHARACTER	8	MAPRTAM	
1088	(440)	CHARACTER	8	MAPSASR	
1104	(450)	CHARACTER	8	MAPSERV	
1120	(460)	CHARACTER	8	MAPSIR	
1136	(470)	CHARACTER	8	MAPSJFR	
1152	(480)	CHARACTER	8	MAPSNA	
1168	(490)	CHARACTER	8	MAPSPIN	
1184	(4A0)	CHARACTER	8	MAPSPOL	
1200	(4B0)	CHARACTER	8	MAPSSRV	
1216	(4C0)	CHARACTER	8	MAPSTAB	
1232	(4D0)	CHARACTER	8	MAPSTAC	
1248	(4E0)	CHARACTER	8	MAPSTAM	
1264	(4F0)	CHARACTER	8	MAPSTUB	
1280	(500)	CHARACTER	8	MAPSUBS	
1296	(510)	CHARACTER	8	MAPSXCK	
1312	(520)	CHARACTER	8	MAPSXDV	
1328	(530)	CHARACTER	8	MAPSXIT	
1344	(540)	CHARACTER	8	MAPSXJB	
1360	(550)	CHARACTER	8	MAPSXNJ	
1376	(560)	CHARACTER	8	MAPSXOT	
1392	(570)	CHARACTER	8	MAPTABS	
1408	(580)	CHARACTER	8	MAPTCP	
1424	(590)	CHARACTER	8	MAPTERM	
1440	(5A0)	CHARACTER	8	MAPTRAK	
1456	(5B0)	CHARACTER	8	MAPWARM	
1472	(5C0)	CHARACTER	8	MAPXCF	
1488	(5D0)	CHARACTER	8	MAPXEQ	
1488	(5D0)	X'5E'	0	MAP#J2M	"(*-MAPMOD1)/MAPENTL" NUMBER OF JES2 MODULES

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
TABLE OF USER EXIT MODULES LINKED WITH HASJES20. THESE ARE DEFINED AS WEAK EXTERNAL SYMBOLS BELOW. THE TABLE INCLUDES THE SPECIAL ENTRY FOR HASPXIT0, WHICH MAY BE LINKEDITED IN THE HASPINIT LOAD MODULE INSTEAD - IF SO, HASPINIT UPDATES THIS MODMAP ENTRY AND THE REP FACILITY WILL FUNCTION FOR THAT MODULE. THE HASPXIT0 STORAGE WILL BE DELETED WITH HASPINIT IF LINKEDITED WITH HASPINIT, AND WILL REMAIN IN STORAGE IF LINKEDITED WITH HASJES20 OR IF LOADED IN ITS OWN LOAD MODULE BY HASPINIT.					
1504	(5E0)	CHARACTER	8	MAPJXMOD	
1520	(5F0)	CHARACTER	8		
1536	(600)	CHARACTER	8		
1552	(610)	CHARACTER	8		
1568	(620)	CHARACTER	8		
1584	(630)	CHARACTER	8		
1600	(640)	CHARACTER	8		
1616	(650)	CHARACTER	8		
1632	(660)	CHARACTER	8		
1648	(670)	CHARACTER	8		
1664	(680)	CHARACTER	8		
1680	(690)	CHARACTER	8		
1696	(6A0)	CHARACTER	8		
1712	(6B0)	CHARACTER	8		
1728	(6C0)	CHARACTER	8		
1744	(6D0)	CHARACTER	8		
1760	(6E0)	CHARACTER	8		
1776	(6F0)	CHARACTER	8		
1792	(700)	CHARACTER	8		
1808	(710)	CHARACTER	8		
1824	(720)	CHARACTER	8		
1840	(730)	CHARACTER	8		
1856	(740)	CHARACTER	8		
1872	(750)	CHARACTER	8		
1888	(760)	CHARACTER	8		
1904	(770)	CHARACTER	8		
1920	(780)	CHARACTER	8		
1936	(790)	CHARACTER	8		
1952	(7A0)	CHARACTER	8		
1968	(7B0)	CHARACTER	8		
1984	(7C0)	CHARACTER	8		
2000	(7D0)	CHARACTER	8		
2016	(7E0)	CHARACTER	8	MAPEXIT0	
2016	(7E0)	X'210'	0	MAPJXLEN	"*-MAPJXMOD" LENGTH OF LINKED MODULE TABLE
2016	(7E0)	X'21'	0	MAPJXCNT	"MAPJXLEN/MAPENTL" NUMBER OF INSTALLATION ENTRIES
2016	(7E0)	X'7F'	0	MAPMODS	"(*-MAPMOD1)/MAPENTL" NUMBER OF REP TABLE ENTRIES
2032	(7F0)	BITSTRING	8		ZERO ENTRY FOR \$SCANTAB

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MISCELLANEOUS ENTRY POINT ADDRESSES FOR SUBTASKS, IOS ROUTINES, ETC.					
2048	(800)	ADDRESS	4	MAPACCTA	"V(HASPACCT)" ADDR OF HASPACCT SUBTASK
2052	(804)	ADDRESS	4	MAPSPLA	"V(HOSPOOL)" ADDR OF SPOOL ALLOCATION SUBTASK
2056	(808)	ADDRESS	4	MAPSPMG	"V(HOSPMIGR)" Addr of spool migration subtask rtn
2060	(80C)	ADDRESS	4	MAPSPAST	"V(HOSPASST)" Addr of spool migration assist rtn
2064	(810)	ADDRESS	4	MAPWTOA	"V(\$HASPWTO)" ADDR OF HASP WTO SUBTASK
2068	(814)	ADDRESS	4	MAPIMAGA	"V(HASPIMAG)" ADDR OF IMAGE LOADER SUBTASK
2072	(818)	ADDRESS	4	MAPVTAMA	"V(HASPV TAM)" ADDR OF HASP VTAM INTERFACE
2076	(81C)	ADDRESS	4	MAPALOCA	"V(HOSALLOC)" ADDR OF ALLOCATION TASK
2080	(820)	ADDRESS	4	MAPCNVA	"V(HOSCNVT)" ADDR OF CONVERT SUBTASK
2084	(824)	ADDRESS	4	MAPOFFA	"V(HASPOFF)" ADDR OF OFFLOAD SUBTASK
2088	(828)	ADDRESS	4	MAPCKCFA	"V(HA\$PCKCF)" Addr of CKPT on CF subtask
2092	(82C)	ADDRESS	4	MAPCKDAA	"V(HA\$PCKDA)" Addr of CKPT on DASD subtsk
2096	(830)	ADDRESS	4	MAPCKVRA	"V(HA\$PCKVR)" ADDR OF CKPT VERSN SUBTSK
2100	(834)	ADDRESS	4	MAPSUBSA	"V(HA\$PSUBS)" ADDR OF GENL SUBTASK
2104	(838)	ADDRESS	4	MAPODSMX	"V(ODSMEXC)" ADDR OF SWBMOD PC ROUTINE
2108	(83C)	ADDRESS	4	MAPODSMR	"V(ODSMEST)" ADDR OF SWBMOD PC ARR
2112	(840)	ADDRESS	4	MAPATTNA	"V(HASPATTN)" ADDR OF HASP ATTENTION ROUTINE
2116	(844)	ADDRESS	4	MAPPXITA	"V(HASPPXIT)" ADDR OF HASP POST EXIT ROUTINE
2120	(848)	ADDRESS	4	MAPIOAPG	"V(\$IOAPPEN)" ADDR OF I/O APPENDAGE TABLE
2124	(84C)	ADDRESS	4	MAPEMS	"V(HASPEOM)" Addr of EOM subtask
2128	(850)	ADDRESS	4	MAPLIMA	"V(HASPLIM)" Addr of LIMITS subtask
TABLE OF HASP PROCESSOR ENTRY POINT ADDRESSES. THESE FIELDS ARE POINTED TO BY \$PCETAB ENTRIES IN HASPTABS.					
2132	(854)	ADDRESS	4	MAPRDRA	"V(HA\$PRDR)" READERNN PROCESSOR
2136	(858)	ADDRESS	4	MAPASYNA	"V(\$ASYNC)" ASYNCH I/O PROCESSOR
2140	(85C)	ADDRESS	4	MAPCNVTA	"V(HA\$PCNVT)" JCL CONVERSION PROCESSOR
2144	(860)	ADDRESS	4	MAPEXECA	"V(HASPEXEC)" EXECUTION PROCESSOR
2148	(864)	ADDRESS	4	MAPSTACA	"V(HA\$PSTAC)" STATUS/CANCEL PROCESSOR
2152	(868)	ADDRESS	4	MAPPSSOA	"V(HA\$PPSO)" PSO PROCESSOR
2156	(86C)	ADDRESS	4	MAPHOPEA	"V(HA\$PHOPE)" OUTPUT PROCESSOR
2160	(870)	ADDRESS	4	MAPPRPUA	"V(HASPPPI1)" PRINT/PUNCH PROCESSOR
2164	(874)	ADDRESS	4	MAPPURGA	"V(HASPVPRG)" PURGE PROCESSOR
2168	(878)	ADDRESS	4	MAPCOMMA	"V(HA\$PCOMM)" COMMAND PROCESSOR

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2172	(87C)	ADDRESS	4	MAPMLLM	"V(HASPMLLM)" LINE MANAGER PROCESSOR
2176	(880)	ADDRESS	4	MAPTIMEA	"V(\$TIMER)" STIMER PROCESSOR
2180	(884)	ADDRESS	4	MAPCKPTA	"V(HA\$PCKPT)" CHECKPOINT PROCESSOR
2184	(888)	ADDRESS	4	MAPSPINA	"V(HA\$SPIN)" SPIN PROCESSOR
2188	(88C)	ADDRESS	4	MAPPRTYA	"V(HASPGPRC)" PRIORITY AGING PROCESSOR
2192	(890)	ADDRESS	4	MAPPRIOA	"V(HASPGOPR)" OUTPUT PRIO AGING PROCESSOR
2196	(894)	ADDRESS	4	MAPWARMA	"V(HA\$PWARM)" WARM START PROCESSOR
2200	(898)	ADDRESS	4	MAPNJTA	"V(HA\$PNJT)" JOB TRANSMITTER PROCESSOR
2204	(89C)	ADDRESS	4	MAPNJRA	"V(HA\$PRDR)" JOB RECEIVER PROCESSOR
2208	(8A0)	ADDRESS	4	MAPNSTA	"V(HA\$PNST)" SYSOUT TRANSMITTR PROCESSOR
2212	(8A4)	ADDRESS	4	MAPNSRA	"V(HA\$PNSR)" SYSOUT RECEIVER PROCESSOR
2216	(8A8)	ADDRESS	4	MAPNPMA	"V(HASPNPMP)" NETWORK PATH MGR PROCESSOR
2220	(8AC)	ADDRESS	4	MAPNRMA	"V(HA\$PNRM)" Network Resource Monitor
2224	(8B0)	ADDRESS	4	MAPMCONA	"V(HASPMCON)" REMOTE CONSOLE PROCESSOR
2228	(8B4)	ADDRESS	4	MAPXTIMA	"V(HASPTIME)" TIME EXCESSION PROCESSOR
2232	(8B8)	ADDRESS	4	MAPEVTLA	"V(HA\$PEVTL)" EVENT TRACE LOG PROCESSOR
2236	(8BC)	ADDRESS	4	MAPXFRMA	"V(HASPXFRM)" XFR I/O MANAGER PROCESSOR
2240	(8C0)	ADDRESS	4	MAPSPOLA	"V(HA\$SPOL)" SPOOL MANAGER PROCESSOR
2244	(8C4)	ADDRESS	4	MAPNRRA	"V(HA\$PRDR)" ROUTE RECEIVER PROCESSOR
2248	(8C8)	ADDRESS	4	MAPNRTA	"V(HA\$PNJT)" ROUTE TRANSMITTER PROCESSOR
2252	(8CC)	ADDRESS	4	MAPRESMA	"V(HASPRESM)" RESOURCE MANAGER PROCESSOR
2256	(8D0)	ADDRESS	4	MAPSFSRA	"V(HA\$PSJFR)" SCHEDULER SERVICES PROCSR
2260	(8D4)	ADDRESS	4	MAPFSSPA	"V(HA\$PFSSP)" FSS SERVICE PROCESSOR
2264	(8D8)	ADDRESS	4	MAPFCL	"V(FCLEANUP)" FSS CLEANUP ON EOM
2268	(8DC)	ADDRESS	4	MAPJCMD	"V(COMJCMD)" Job command processor
2272	(8E0)	ADDRESS	4	MAPXCFA	"V(HA\$PXCFC)" XCF COUPLING PROCESSOR
2276	(8E4)	ADDRESS	4	MAPXCMA	"V(XCMMAIN)" XCF Command Processor
2280	(8E8)	ADDRESS	4	MAPARMSA	"V(HA\$PARM)" ARM SUPPORT PROCESSOR
2284	(8EC)	ADDRESS	4	MAPSNF	"V(HA\$PSNF)" SPOOL Management Processor
2288	(8F0)	ADDRESS	4	MAPSPI	"V(HA\$PSASR)" Sysout API Processor
2292	(8F4)	ADDRESS	4	MAPDILSA	"V(HA\$PDILB)" BERT lock POST Processor
2296	(8F8)	ADDRESS	4	MAPENFA	"V(HA\$PENF)" ENF LISTEN Processor
2300	(8FC)	ADDRESS	4	MAPMISCA	"V(HA\$PMISC)" Miscellaneous processor
2304	(900)	ADDRESS	4	MAPALIA	"V(HA\$PALI)" Acquire Lock & Initiate Cleanup Executor
2308	(904)	ADDRESS	4	MAPEOM	"V(HA\$PEOM)" EOM processor
2312	(908)	ADDRESS	4	MAPJQR	"V(HA\$PJQR)" JQE request processor

Table 309. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2316	(90C)	ADDRESS	4	MAPIRC	"V(HA\$PIRC)" INTRDR cleanup processor
2320	(910)	ADDRESS	4	MAPDAWN	"V(HA\$PDAWN)" DAWN processor
2324	(914)	ADDRESS	4	MAPCDCA	"V(HA\$PCDC)" Cross-sys Device Communication
2328	(918)	ADDRESS	4	MAPDLSA	"V(HA\$PDLS)" Deadline scheduling
2332	(91C)	ADDRESS	4	MAPJOEI	"V(HA\$PJOEI)" JOEINDEX processor
2336	(920)	ADDRESS	4	MAPEDSA	"V(HA\$PEDS)" Email Delivery Services
2340	(924)	ADDRESS	4	MAPPCYA	"V(HA\$PPCY)" Policy services
2344	(928)	ADDRESS	4	MAPDREPA	"V(HA\$PDREP)" Data repository manager
2348	(92C)	ADDRESS	4	MAPDRTMA	"V(HA\$PDRTM)" Data repository track mgr
2348	(92C)	X'930'	0	MAPLEN	"*-MAP" MODMAP LENGTH

Table 310. Cross Reference for \$MODMAP

Name	Offset	Hex Tag
MAP	0	
MAP#J2M	5D0	5E
MAPABS	0	C8C1E25B
MAPACCTA	800	
MAPALIA	900	
MAPALOCA	81C	
MAPARM	10	C8C1E2D7
MAPARMO	20	C8C1E2D7
MAPARMSA	8E8	
MAPASYNA	858	
MAPATTNA	840	
MAPBSC	30	C8C1E2D7
MAPCDCA	914	
MAPCDYN	40	C8C1E2D7
MAPCFAL	50	C8C1E2D7
MAPCFBF	60	C8C1E2D7
MAPCFDE	70	C8C1E2D7
MAPCFE	80	C8C1E2D7
MAPCFFC	90	C8C1E2D7
MAPCFLE	A0	C8C1E2D7
MAPCFMT	B0	C8C1E2D7
MAPCFQL	C0	C8C1E2D7
MAPCFQU	D0	C8C1E2D7
MAPCFRD	E0	C8C1E2D7
MAPCFRE	F0	C8C1E2D7
MAPCFRL	100	C8C1E2D7

Table 310. Cross Reference for \$MODMAP (continued)

Name	Offset	Hex Tag
MAPCFRS	110	C8C1E2D7
MAPCFR2	120	C8C1E2D7
MAPCFSI	130	C8C1E2D7
MAPCFT1	140	C8C1E2D7
MAPCFUN	150	C8C1E2D7
MAPCFWP	160	C8C1E2D7
MAPCFWR	170	C8C1E2D7
MAPCKCF	180	C8C1E2D7
MAPCKCFA	828	
MAPCKDA	190	C8C1E2D7
MAPCKDAA	82C	
MAPCKDS	1A0	C8C1E2D7
MAPCKPT	1B0	C8C1E2D7
MAPCKPTA	884	
MAPCKRR	1C0	C8C1E2D7
MAPCKVR	1D0	C8C1E2D7
MAPCKVRA	830	
MAPCNVA	820	
MAPCNVT	1E0	C8C1E2D7
MAPCNVTA	85C	
MAPCOMM	1F0	C8C1E2D7
MAPCOMMA	878	
MAPCON	200	C8C1E2D7
MAPCSV	210	C8C1E2D7
MAPDAWN	910	
MAPDILSA	8F4	
MAPDLSA	918	
MAPDREP	220	C8C1E2D7
MAPDREPA	928	
MAPDRTMA	92C	
MAPDYN	230	C8C1E2D7
MAPEDSA	920	
MAPEMS	84C	
MAPENFA	8F8	
MAPEOM	904	
MAPEVTL	240	C8C1E2D7
MAPEVTLA	8B8	
MAPEXECA	860	
MAPEXIT0	7E0	C8C1E2D7

Table 310. Cross Reference for \$MODMAP (continued)

Name	Offset	Hex Tag
MAPEXTA	250	C8C1E2D7
MAPFCL	8D8	
MAPFSSP	260	C8C1E2D7
MAPFSSPA	8D4	
MAPHCCT	270	C8C1E25B
MAPHOPE	280	C8C1E2D7
MAPHOPEA	86C	
MAPIJS	290	C8C1E2D7
MAPIMAGA	814	
MAPINIT	2A0	2A0
MAPIOAPG	848	
MAPIRA	2A0	C8C1E2D7
MAPIRC	90C	
MAPIRDA	2B0	C8C1E2D7
MAPIRMA	2C0	C8C1E2D7
MAPIRPL	2D0	C8C1E2D7
MAPIRRE	2E0	C8C1E2D7
MAPIRSI	2F0	C8C1E2D7
MAPJCMD	8DC	
MAPJOEI	91C	
MAPJOS	300	C8C1E2D7
MAPJQR	908	
MAPJQS	310	C8C1E2D7
MAPJXCNT	7E0	21
MAPJXLEN	7E0	210
MAPJXMOD	5E0	C8C1E2D7
MAPLEN	92C	930
MAPLIMA	850	
MAPMCONA	8B0	
MAPMISC	320	C8C1E2D7
MAPMISCA	8FC	
MAPMLLMA	87C	
MAPMODS	7E0	7F
MAPMOD1	0	0
MAPMSG	330	C8C1E2D7
MAPNATS	340	C8C1E2D7
MAPNET	350	C8C1E2D7
MAPNJRA	89C	
MAPNJT	360	C8C1E2D7

Table 310. Cross Reference for \$MODMAP (continued)

Name	Offset	Hex Tag
MAPNJTA	898	
MAPNPM	370	C8C1E2D7
MAPNPMA	8A8	
MAPNRM	380	C8C1E2D7
MAPNRMA	8AC	
MAPNRRA	8C4	
MAPNRTA	8C8	
MAPNSR	390	C8C1E2D7
MAPNSRA	8A4	
MAPNST	3A0	C8C1E2D7
MAPNSTA	8A0	
MAPNUC	3B0	C8C1E2D7
MAPODSM	3C0	C8C1E2D7
MAPODSMR	83C	
MAPODSMX	838	
MAPOFFA	824	
MAPPCY	3D0	C8C1E2D7
MAPPCYA	924	
MAPPRIOA	890	
MAPPRPU	3E0	C8C1E2D7
MAPPRPUA	870	
MAPPRTYA	88C	
MAPPSO	3F0	C8C1E2D7
MAPPSOA	868	
MAPPURGA	874	
MAPPXITA	844	
MAPRAS	400	C8C1E2D7
MAPRDR	410	C8C1E2D7
MAPRDRA	854	
MAPRESMA	8CC	
MAPRGR	420	C8C1E2D7
MAPRTAM	430	C8C1E2D7
MAPSASR	440	C8C1E2D7
MAPSERV	450	C8C1E2D7
MAPSFSRA	8D0	
MAPSIR	460	C8C1E2D7
MAPSJFR	470	C8C1E2D7
MAPSNA	480	C8C1E2D7
MAPSNF	8EC	

Table 310. Cross Reference for \$MODMAP (continued)

Name	Offset	Hex Tag
MAPSPAST	80C	
MAPSPI	8F0	
MAPSPIN	490	C8C1E2D7
MAPSPINA	888	
MAPSPLA	804	
MAPSPMG	808	
MAPSPOL	4A0	C8C1E2D7
MAPSPOLA	8C0	
MAPSSRV	4B0	C8C1E2D7
MAPSTAB	4C0	C8C1E2D7
MAPSTAC	4D0	C8C1E2D7
MAPSTACA	864	
MAPSTAM	4E0	C8C1E2D7
MAPSTUB	4F0	C8C1E2D7
MAPSUBS	500	C8C1E2D7
MAPSUBSA	834	
MAPSXCK	510	C8C1E2D7
MAPSXDV	520	C8C1E2D7
MAPSXIT	530	C8C1E2D7
MAPSXJB	540	C8C1E2D7
MAPSXNJ	550	C8C1E2D7
MAPSXOT	560	C8C1E2D7
MAPTABS	570	C8C1E2D7
MAPTCP	580	C8C1E2D7
MAPTERM	590	C8C1E2D7
MAPTIMEA	880	
MAPTRAK	5A0	C8C1E2D7
MAPVTAMA	818	
MAPWARM	5B0	C8C1E2D7
MAPWARMA	894	
MAPWTOA	810	
MAPXCF	5C0	C8C1E2D7
MAPXCFA	8E0	
MAPXCMA	8E4	
MAPXEQ	5D0	C8C1E2D7
MAPXFRMA	8BC	
MAPXTIMA	8B4	

\$MONCB information

\$MONCB heading information

Common name:	Monitor address space control block
Macro ID:	\$MONCB
DSECT name:	MONCB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	MONB Offset: MNBID Length: L'MNBID
Storage attributes:	Subpool: 241 Key: 1 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The \$MONCB resides in common storage.
Size:	See MNBLEN
Created by:	HASCSRJM
Pointed to by:	CCTMONCB field of the HCCT data area JMTMONCB field of the HJCT data area
Serialization:	Only updated by HASCSRJM while running under the JES2 main task.
Function:	This DSECT maps the CSA data associated with the JES2 monitor address address space. It is used during JES2 initialization and termination processing to create and later delete the monitor address space.

\$MONCB mapping

Table 311. Structure MONCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MONCB	, Define DSECT
0	(0)	CHARACTER	4	MNBID	Eyecatcher
4	(4)	ADDRESS	1	MNBVER	Version
4	(4)	X'1'	0	MNBVERN	"1" Current version
5	(5)	BITSTRING	1	MNBFLAG1	Communication flag byte
		1...		MNB1NWLM	"B'10000000'" Create new LMD now
6	(6)	BITSTRING	1		Reserved for future use
7	(7)	CHARACTER	1	MNBCOMCH	CONCHAR for termination messages
8	(8)	CHARACTER	8	MNBNAME	Address space name
16	(10)	CHARACTER	8	MNBPROG	PROG= to run the address space
24	(18)	BITSTRING	8	MNBPRTKN	Token for CSVDYLPA DELETE request
32	(20)	BITSTRING	24	MNBODA	ASCRE output area (IHAASE0)
56	(38)	SIGNED	4	MNBECB	Main task wait ECB
60	(3C)	SIGNED	4	MNBWECB	Monitor work ECB
60	(3C)	X'4'	0	MNBWTERM	"4" Monitor TERM post code

Table 311. Structure MONCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
60	(3C)	X'8'	0	MNBWJDWN	"8" JES2 address space went down
60	(3C)	X'C'	0	MNBWJUP	"12" JES2 address space came up
MACDATE 12/25/13					
64	(40)	ADDRESS	4	MNBPOST	. 1ST WORD - ECB ADDRESS
68	(44)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
72	(48)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
76	(4C)	SIGNED	4	MNBJES2A	Alet for JES2 address space
80	(50)	ADDRESS	4	MNBMLMAD	Address of monitor load module
84	(54)	SIGNED	4	MNBMLMLN	Length of monitor load module
88	(58)	ADDRESS	4	MNBMONEP	Entry addr for the monitor code
92	(5C)	ADDRESS	4	MNBHJCT	Address of HJCT in monitor A.S.
96	(60)	ADDRESS	4	MNBCMBQ	Queue of commands from SSI
100	(64)	SIGNED	4	MNBCECB	Command ECB address
104	(68)	ADDRESS	4	MNBMTS	MIT information for monitor
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	MNBLEN	"*-MONCB" Length of MONCB

Table 312. Structure MNMT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MNMT	, Monitor MIT DSECT
0	(0)	CHARACTER	8	MNMTNAME	Module name
8	(8)	ADDRESS	4	MNMTADDR	Module address
12	(C)	ADDRESS	4	MNMTSIZE	Module length
16	(10)	CHARACTER	8	MNMTCNT	Date of assembly
24	(18)	CHARACTER	5	MNMTTIME	Time of assembly
29	(1D)	BITSTRING	3		Reserved
32	(20)	CHARACTER	8	MNMTAPAR	APAR number from module
40	(28)	CHARACTER	8	MNMTPTF	PTF number from module
40	(28)	X'30'	0	MNMTLEN	"*-MNMT" Length of area
40	(28)	X'A'	0	MNMTCNT	"10" Number of MNMTs to get

Table 313. Cross Reference for \$MONCB

Name	Offset	Hex Tag
MNBCECB	64	
MNBCMBQ	60	
MNBCOMCH	7	
MNBECB	38	
MNBFLAG1	5	
MNBHJCT	5C	
MNBID	0	D4D6D5C2
MNBJES2A	4C	
MNBLEN	70	70

Table 313. Cross Reference for \$MONCB (continued)

Name	Offset	Hex Tag
MNBMIT	68	
MNBMLMAD	50	
MNBMLMLN	54	
MNBMONEP	58	
MNBNAME	8	D1C5E2F2
MNBODA	20	
MNBPOST	40	
MNBPROG	10	C8C1E291
MNBPRTKN	18	
MNBVER	4	
MNBVERN	4	1
MNBWECB	3C	
MNBWJDWN	3C	8
MNBWJUP	3C	C
MNBWTERM	3C	4
MNB1NWLM	5	80
MNMT	0	
MNMTADDR	8	
MNMTAPAR	20	
MNMTCNT	28	A
MNMTDATE	10	
MNMTLEN	28	30
MNMTNAME	0	
MNMTPTF	28	
MNMTSIZE	C	
MNMTTIME	18	
MONCB	0	

\$MSCWORK information

\$MSCWORK heading information

Common name:	JES2 Miscellaneous PCE Work Area
Macro ID:	\$MSCWORK
DSECT name:	PCE (\$MSCWORK is part of the PCE DSECT)
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4

Storage attributes:	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
Size:	See symbol MSCPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See \$PCE
Pointed to by:	The \$MISCPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 miscellaneous Processor. \$MSCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$MSCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMSCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

\$MSCWORK mapping

Table 314. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	12	MSCTQE	Timer queue element
348	(15C)	BITSTRING	1	MSCFLAG	Misc PCE work flags
		1... ..		MSCWANTQ	"B'10000000'" PCE needs access to the CKPT
		.1... ..		MSCWANTN	"B'01000000'" with no I/O in progress
		..1.		MSCBSEQE	"B'00100000'" Dynamic BERT queue sequence error \$DISTERR issued
		...1		MSCJGLOG	"B'00010000'" Jobgroup log takeover already processed
349	(15D)	BITSTRING	3		Reserved for future use
352	(160)	DBL WORD	8	MSCPADTM	Time stamp for PAD and Primary JQE processing
360	(168)	DBL WORD	8	MSCMONTM	Time stamp monitor restart
368	(170)	DBL WORD	8	MSCCPLTM	Time stamp \$CP00L contract
MACRO-DATE = 03/16/15					
376	(178)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
376	(178)	X'178'	0	MSCENQ	"*" X02113
376	(178)	ADDRESS	1		PELLAST flag byte. X02113
377	(179)	ADDRESS	1		PELMILEN - RNAME length.
378	(17A)	BITSTRING	1		
PELFLAG - flag byte 2.					
379	(17B)	ADDRESS	1		PELRET - return code byte.

Table 314. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
380	(17C)	ADDRESS	4		QNAME ADDRESS
384	(180)	ADDRESS	4		RNAME ADDRESS
384	(180)	X'178'	0	MSCENQL	"MSCENQ,*-MSCENQ" Field to reference ENQ MF=L
MACDATE 12/25/13					
388	(184)	ADDRESS	4	MSCPOST	. 1ST WORD - ECB ADDRESS
392	(188)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
396	(18C)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
400	(190)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
408	(198)	DBL WORD	8	MSCDWK	Work field
416	(1A0)	DBL WORD	8	MSCDWK2	Another work field
424	(1A8)	DBL WORD	8	(0)	Alignment
424	(1A8)	X'58'	0	MSCPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 315. Cross Reference for \$MSCWORK

Name	Offset	Hex Tag
MSCBSEQE	15C	20
MSCCPLTM	170	
MSCDWK	198	
MSCDWK2	1A0	
MSCENQ	178	178
MSCENQL	180	178
MSCFLAG	15C	
MSCJGLOG	15C	10
MSCMONTM	168	
MSCPADTM	160	
MSCPCEWL	1A8	58
MSCPOST	184	
MSCTQE	150	
MSCWANTN	15C	40
MSCWANTQ	15C	80
PCE	0	

\$MSD information

\$MSD heading information

Common name: Monitor Sampling data
Macro ID: \$MSD
DSECT name: MSD

Owning component: JES2 (SC1BH)

Eye-catcher ID: MSD
Offset: MSDID-MSD
Length: L'MSDID

Storage attributes: Subpool: 0
Key: 1
Residency: Virtual is in 31 bit storage, real can be in 64 bit storage.

Size: See MSDLEN

Created by: HASJSPLR

Pointed to by: JMTMSD field of the HJCT data area

Serialization: None

Function: The MSD maps the sampling data collected by the JES2 monitor subtask.

\$MSD mapping

Table 316. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Monitor Sampling Data DSECT
0	(0)	CHARACTER	4	MSDID	Eyecatcher
4	(4)	ADDRESS	1	MSDVRSN	Version of data area
4	(4)	X'1'	0	MSDVERSN	"1" Current version number
5	(5)	BITSTRING	3		Reserved
Limit monitoring data					
8	(8)		1	MSDLTIME	Time of next sample (STCKE)
24	(18)	DBL WORD	8	MSDLINT	Interval to sample (STCK)
32	(20)	ADDRESS	8	MSDLMDP	Address of most recent LMD
40	(28)	ADDRESS	8	MSDLMDLS	Address of oldest LMD
48	(30)	SIGNED	4	MSDLMDCT	Count of LMDs
Main task sampling data					
56	(38)		1	MSDCTIME	Time of last sample (STCKE)
72	(48)	DBL WORD	8	MSDCINT	Interval to sample (STCKE)
72	(48)	X'14'	0	MSDCSPSC	"20" 20 samples per second
72	(48)	X'C350'	0	MSDCSPMC	"1000000/MSDCSPSC" Micro seconds per sample
"Sampling time" is the time relative to the sampling process. This is maintained using 2 fields. MSDCSCNT is incremented every sample. When MSDCSCNT reaches the number of samples per second, MSDCSTIM is incremented.					
80	(50)	SIGNED	4	MSDCSTIM	"Sampling" time - seconds
84	(54)	SIGNED	4	MSDCSCNT	"Sampling" time - samples
88	(58)	ADDRESS	4	MSDCBUFS	Address of CPU sample buffer start
92	(5C)	ADDRESS	4	MSDCBUFE	Address of CPU sample buffer end(+1)

Table 316. Structure MSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	ADDRESS	4	MSDCBUFC	Current (last used) CPU sample rec
100	(64)	ADDRESS	4	MSDCBUFA	Alternate sampling buffer

Table 317. Structure MSDCSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDCSD	, Limit monitoring data
0	(0)	BITSTRING	16	MSDCSD_TIME	Time sample taken
16	(10)	SIGNED	4	MSDCSD_ADDR	PSW addr (Main task PRB)
20	(14)	SIGNED	4	MSDCSD_CRB_ADR	PSW addr (Current RB)
24	(18)	CHARACTER	8	MSDCSD_MOD	Module name and offset
32	(20)	SIGNED	4	MSDCSD_OFFSET	(calculated at report time)
36	(24)	ADDRESS	4	MSDCSD_PCE	Current PCE address
40	(28)	CHARACTER	8	MSDCSD_JOB	JOBID or JQE index
48	(30)	BITSTRING	1	MSDCSD_EXIT	Current exit number
49	(31)	BITSTRING	1	MSDCSD_TYPE	Sample type
49	(31)	X'1'	0	MSDCSD_TY_WAIT	"1" At main task WAIT
49	(31)	X'2'	0	MSDCSD_TY_WTOT	"2" Other MVS WAIT
49	(31)	X'3'	0	MSDCSD_TY_WLOK	"3" Waiting for local lock
49	(31)	X'4'	0	MSDCSD_TY_WNDS	"4" Not dispatchable
49	(31)	X'5'	0	MSDCSD_TY_WPGE	"5" Paging wait
49	(31)	X'6'	0	MSDCSD_TY_DMVS	"6" MVS dispatch
50	(32)	BITSTRING	2	MSDCSD_SVC	JES2 PRB interrupt code
52	(34)	ADDRESS	4	MSDCSD_TRAN	RBTRAN of current RB
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	MSDCSD_LEN	"*-MSDCSD" Length of entry
56	(38)	BITSTRING	0	MSDCSD_COUNT	"X'5000'" Number of CPU samples to collect

Table 318. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD
Loop detection fields. The longer we are in a potential loop, the higher MSDCLCNT will get.					
104	(68)	DBL WORD	8	MSDCLTOT	Average sum
112	(70)	SIGNED	4	MSDCLCNT	Address count
116	(74)	ADDRESS	4	MSDCLAVG	Average CPU address
120	(78)		1	MSDCLTIM	Loop start time (STCKE)
120	(78)	X'68'	0	MSDCLDPD	"MSDCLTOT,*-MSDCLTOT" Aggregate loop det fields
Pointer to copy of JES2 error counts. Copied from JES2 each time a new LMD is obtained.					
136	(88)	ADDRESS	4	MSDECOPA	Address of error counts
140	(8C)	BITSTRING	4		Reserved

Table 319. Structure MSDERELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDERELE	, Mapping of an error element
0	(0)	SIGNED	4	MSDERCNT	Count of errors
0	(0)	X'4'	0	MSDER_LN	"*-MSDERELE" Length of entry

Table 320. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD
Wait timing fields. The longer we are at a wait the higher MSDWSMPL will get. The type of wait is in MSDETYPE.					
144	(90)		1	MSDWSTCK	Time event started (STCKE)
160	(A0)	ADDRESS	4	MSDWADDR	Address of wait (from RB)
164	(A4)	SIGNED	4	MSDWSMPL	Samples at current wait
164	(A4)	X'90'	0	MSDWDETD	"MSDWSTCK,*-MSDWSTCK" Aggregate wait det fields
168	(A8)		1	MSDLPCED	Last PCE dispatch time
184	(B8)	BITSTRING	8	MSDLPNAM	Last PCE dispatch name
192	(C0)	BITSTRING	1	MSDLPCID	Last PCE dispatch ID
Most recent sample type. See MSDCSD_TYPE for values					
193	(C1)	BITSTRING	1	MSDETYPE	Sample type
194	(C2)	BITSTRING	6		Reserved
CPU starvation fields. If the main task is not being dispatched, these fields will indicate it.					
200	(C8)	DBL WORD	8	MSDCSTTM	Last updated TCBTTIME
208	(D0)	BITSTRING	16	MSDCSCLK	STCK time when MSDCSTTM set
224	(E0)	DBL WORD	8	(0)	
224	(E0)	X'E0'	0	MSDLEN	"*-MSD" Length of MSD

Table 321. Structure LMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMD	, Limit control block
0	(0)	CHARACTER	4	LMDID	Eyecatcher
4	(4)	SIGNED	4	LMDCNT	Count of samples included
8	(8)	ADDRESS	8	LMDNEXT	Address of next LMD
16	(10)	ADDRESS	8	LMDPREV	Address of previous LMD
24	(18)		1	LMDSTCK	Time LMD was created
40	(28)		1	LMDSTCKE	and stopped being updated
56	(38)		1	LMDSTIME	Local time LMD created
72	(48)		1	LMDETIME	and stopped being updated
88	(58)	SIGNED	4		Reserved
Timer exit overhead data					
92	(5C)	SIGNED	4	LMDXCMT	Exit sample count

Table 321. Structure LMD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
96	(60)	DBL WORD	8	LMDXCPUL	Low exit CPU time
104	(68)	DBL WORD	8	LMDXCPUH	High exit CPU time
112	(70)	DBL WORD	8	LMDXCPUT	Total exit CPU time
120	(78)	DBL WORD	8	LMDXTIML	Low exit clock time
128	(80)	DBL WORD	8	LMDXTIMH	High exit clock time
136	(88)	DBL WORD	8	LMDXTIMT	Total exit clock time
Resource usage data					
144	(90)	DBL WORD	8	LMD_1ST(0)	Start of limit data
144	(90)	BITSTRING	120	LMD_BERT	Limit data for BERT
264	(108)	BITSTRING	120	LMD_BSCB	Limit data for BSCB
384	(180)	BITSTRING	120	LMD_BUFEX	Limit data for BUFEX
504	(1F8)	BITSTRING	120	LMD_CKVR	Limit data for CKVR
624	(270)	BITSTRING	120	LMD_CMBS	Limit data for CMBS
744	(2E8)	BITSTRING	120	LMD_CMDS	Limit data for CMDS
864	(360)	BITSTRING	120	LMD_DSX	Limit data for DSX
984	(3D8)	BITSTRING	120	LMD_ICES	Limit data for ICES
1104	(450)	BITSTRING	120	LMD_JNUM	Limit data for JNUM
1224	(4C8)	BITSTRING	120	LMD_JOES	Limit data for JOES
1344	(540)	BITSTRING	120	LMD_JQES	Limit data for JQES
1464	(5B8)	BITSTRING	120	LMD_LBUF	Limit data for LBUF
1584	(630)	BITSTRING	120	LMD_NHBS	Limit data for NHBS
1704	(6A8)	BITSTRING	120	LMD_SMFB	Limit data for SMFB
1824	(720)	BITSTRING	120	LMD_TBUF	Limit data for TBUF
1944	(798)	BITSTRING	120	LMD_TGS	Limit data for TGS
2064	(810)	BITSTRING	120	LMD_TTAB	Limit data for TTAB
2184	(888)	BITSTRING	120	LMD_VTMB	Limit data for VTMB
2304	(900)	BITSTRING	1	LMD_ZJC	Limit data for ZJC
2304	(900)	X'13'	0	LMD_NUM	"(*-LMD_1ST)/LMDELE_LEN" Number of elements
LMD_NUM is hard coded in \$SMF to be 18					
2424	(978)	ADDRESS	2	(0)	Ensure that \$SMF
2424	(978)	ADDRESS	2	(0)	matches value here
CPU sampling information					
2424	(978)	SIGNED	4	LMDCSAMP	Count of CPU samples
2428	(97C)	SIGNED	4	LMDCS_ACT	Active sample count
2432	(980)	SIGNED	4	LMDCS_DMVS	Waiting to be dispatched
2436	(984)	SIGNED	4	LMDCS_IDLE	Idle sample count
2440	(988)	SIGNED	4	LMDCS_WAIT	Wait sample count
2444	(98C)	SIGNED	4	LMDCS_LLOK	Local lock sample count
2448	(990)	SIGNED	4	LMDCS_NDSP	Non-dispatchable count
2452	(994)	SIGNED	4	LMDCS_PAGE	Page wait sample count
Storage monitoring information					

Table 321. Structure LMD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2456	(998)	SIGNED	4	LMDSAMP	Count of storage samples
2464	(9A0)	DBL WORD	8	LMDSRGN	<16M region size
2472	(9A8)	DBL WORD	8	LMDSERGN	>16M region size
2480	(9B0)	DBL WORD	8	LMDSMEML	>2G Mem limit
2488	(9B8)	DBL WORD	8	LMDS_1ST(0)	Start of memory list
2488	(9B8)	BITSTRING	72	LMDS_URGN	<16M user region info
2560	(A00)	BITSTRING	72	LMDS_SRGN	<16M system region info
2632	(A48)	BITSTRING	72	LMDS_EURGN	>16M user region info
2704	(A90)	BITSTRING	72	LMDS_ESRGN	>16M system region info
2776	(AD8)	BITSTRING	1	LMDS_HIRGN	>2G region
2776	(AD8)	X'5'	0	LMDSNUM	"(*-LMDS_URGN)/LMDSSE_LEN" Number of entries

LMDSNUM is hard coded is \$SMF to be 5

2848	(B20)	ADDRESS	2	(0)	Ensure that \$SMF
2848	(B20)	ADDRESS	2	(0)	matches value here

Error count information

2848	(B20)	SIGNED	4	LMDES_ENT	Number of entries
2852	(B24)	SIGNED	4	LMDES_FST(0)	Start of error data
2852	(B24)	X'B24'	0	LM_SIZE	"*-LMD" Size of fixed portion LMD
2852	(B24)	X'CB4'	0	LM_AREA	"LM_SIZE+(\$RSVNUM*LMDESELE_LEN)" w error data

Table 322. Structure LMDESELE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMDESELE	, Error information element
0	(0)	CHARACTER	8	LMDESELE_NAME	Error name
8	(8)	SIGNED	4	LMDESELE_COUNT	Current error count
12	(C)	ADDRESS	1	LMDESELE_CATGR	Error category
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	(0)	Align
16	(10)	X'10'	0	LMDESELE_LEN	"*-LMDESELE" Length of one entry

Table 323. Structure LMDELE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMDELE	, Limit monitoring data
0	(0)	CHARACTER	8	LMDELE_NAME	Resource name
8	(8)	CHARACTER	20	LMDELE_DESC	Descriptive resource name
28	(1C)	CHARACTER	16	LMDELE_STMT	Resource limit statement
44	(2C)	CHARACTER	20	LMDELE_KEYW	and keyword
64	(40)	SIGNED	4	LMDELE_LIMIT	Current upper limit
68	(44)	SIGNED	4	LMDELE_INUSE	Current number in use
72	(48)	SIGNED	4	LMDELE_LOW	Low usage value
76	(4C)	SIGNED	4	LMDELE_HIGH	High usage value

Table 323. Structure LMDELE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
80	(50)	SIGNED	2	LMDELE_WARN	WARN= value for resource (zero if none)
82	(52)	BITSTRING	1	LMDELE_FLG1	Flag bytes
		1...		LMDELE_F1OVER	"B'10000000'" Usage over warn level
		.1...		LMDELE_F1JPLX	"B'01000000'" JESplex wide resource
83	(53)	SIGNED	1		Reserved
84	(54)	SIGNED	4	LMDELE_OVER	Count of samples over warn level (HASPO50 needed)
88	(58)	SIGNED	4	LMDELE_AVERAGE	Average in use value
96	(60)	DBL WORD	8	LMDELE_TOTAL	Total count (for average)
104	(68)		1	LMDELE_OVRTIME	Time LMDELE was 1st over
120	(78)	DBL WORD	8	(0)	Align
120	(78)	X'78'	0	LMDELE_LEN	"*-LMDELE" Length of monitor data

Table 324. Structure LMDSSE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMDSSE	, Memory usage data entry
0	(0)	CHARACTER	12	LMDSSE_NAME	Area name
16	(10)	DBL WORD	8	LMDSSE_REGION	Region size
24	(18)	DBL WORD	8	LMDSSE_USE	Current area usage
32	(20)	DBL WORD	8	LMDSSE_LOW	Low usage value
40	(28)	DBL WORD	8	LMDSSE_HIGH	High usage value
48	(30)	DBL WORD	8	LMDSSE_AVERAGE	Average in use value
56	(38)		1	LMDSSE_TOTAL	Total count (for average)
72	(48)	DBL WORD	8	(0)	Align
72	(48)	X'48'	0	LMDSSE_LEN	"*-LMDSSE" Length of memory data

Table 325. Structure MWT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MWT	, MVS wait records
0	(0)	BITSTRING	16	MWTSTCK	Time of most recent sample
16	(10)	ADDRESS	4	MWTADDR	Address of wait (from RB)
20	(14)	SIGNED	4	MWTWCNT	Count of waits detected
24	(18)	CHARACTER	8	MWTNAME	Module name from wait
32	(20)	SIGNED	4	MWTOFFS	Offset of wait in module
36	(24)	SIGNED	4	MWTSCNT	Count of matching samples
MWTEXTIT is exit number in control at the time of the wait if MWTFXITC is set. If multiple exits, then MWTEXTIT is zero. MWTPCEID is PCE ID that was in control. MWTPCEID is zero if multiple.					
40	(28)	BITSTRING	1	MWTEXTIT	Exit for wait (if MWTFXITC on)
41	(29)	BITSTRING	1	MWTPCEID	PCE ID for wait
42	(2A)	BITSTRING	1	MWTFLAGS	General flag byte
		1...		MWTFXITC	"B'10000000'" Wait while exit in control

Table 325. Structure MWT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MWTFJESC	"B'01000000'" Wait while JES2 in control
		..1.		MWTFINIT	"B'00100000'" Wait during initialization
		...1		MWTFTERM	"B'00010000'" Wait during ABEND/TERM
43	(2B)	BITSTRING	1		Reserved
44	(2C)	CHARACTER	8	MWTPCENM	Name of PCE (or MULTIPLE)
52	(34)	SIGNED	4	(3)	Reserved
52	(34)	X'40'	0	MWTLEN	"*-MWT" Length of wait mapping
52	(34)	BITSTRING	0	MWTSIZE	"X'3000'" Size of wait mapping area

Table 326. Structure MWTHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWTHDR	, MVS wait record header
0	(0)	CHARACTER	4	MWTHID	Eyecatcher
4	(4)	ADDRESS	4	MWTHCUR	Current MWT
8	(8)	BITSTRING	16	MWTHLTIM	Candidate reuse time
24	(18)	ADDRESS	4	MWTHLADR	and address
28	(1C)	SIGNED	4	(3)	Reserved
28	(1C)	X'28'	0	MWTHLEN	"*-MWTHDR" Header length

Table 327. Structure PRBM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRBM	, Probe message work area
0	(0)	CHARACTER	4	PRBMID	Eyecatcher
4	(4)	ADDRESS	4	PRBMNEXT	Next PRBM for this type
8	(8)	BITSTRING	16	PRBMSTRT	Time condition started
24	(18)	BITSTRING	16	PRBMSTCK	Last time message issued
40	(28)	SIGNED	4	PRBMSPLC	Sampler "time" of track
44	(2C)	SIGNED	4	PRBMDATA	Probe related data
48	(30)	BITSTRING	1	PRBMFLAG	Flags used by Probes
		1...		PRBMFVAL	"B'10000000'" PRBM has been validated
		.1..		PRBMUDUR	"B'01000000'" Update duration in line 2
		..1.		PRBMUSTA	"B'00100000'" Update PCE/EXIT/JOB
		...1		PRBMUCMD	"B'00010000'" Update current command
		.... 1...		PRBMNAGR	"B'00001000'" Normal interval for alert
		.... .1..		PRBMNAGO	"B'00000100'" Slow interval for alerts
		.... ..1.		PRBMFPCE	"B'00000010'" Fixed PCE address
52	(34)	SIGNED	4	PRBMDOM	DOM id for message (0 if pending)
56	(38)	ADDRESS	2	PRBMTXL1	Line 1 message length
58	(3A)	CHARACTER	71	PRBMTXT1	and message text
58	(3A)	X'3F'	0	PRBMMID	"PRBMTXT1+5,4,C'C'" Message id from text
130	(82)	ADDRESS	2	PRBMTXL2	Line 2 message length

Table 327. Structure PRBM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
132	(84)	CHARACTER	71	PRBMTXT2	and message text
204	(CC)	ADDRESS	2	PRBMTXL3	Line 3 message length
206	(CE)	CHARACTER	71	PRBMTXT3	and message text
278	(116)	ADDRESS	2	PRBMTXL4	Line 4 message length
280	(118)	CHARACTER	71	PRBMTXT4	and message text
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'160'	0	PRBMLEN	"*-PRBM" Length of message area

Table 328. Cross Reference for \$MSD

Name	Offset	Hex Tag
LMD	0	
LMD_AREA	B24	CB4
LMD_BERT	90	
LMD_BSCB	108	
LMD_BUFEX	180	
LMD_CKVR	1F8	
LMD_CMBS	270	
LMD_CMDS	2E8	
LMD_DSX	360	
LMD_ICES	3D8	
LMD_JNUM	450	
LMD_JOES	4C8	
LMD_JQES	540	
LMD_LBUF	5B8	
LMD_NHBS	630	
LMD_NUM	900	13
LMD_SIZE	B24	B24
LMD_SMFB	6A8	
LMD_TBUF	720	
LMD_TGS	798	
LMD_TTAB	810	
LMD_VTMB	888	
LMD_ZJC	900	
LMD_1ST	90	
LMDCNT	4	
LMDCS_ACT	97C	
LMDCS_DMVS	980	
LMDCS_IDLE	984	
LMDCS_LLOK	98C	
LMDCS_NDSP	990	

Table 328. Cross Reference for \$MSD (continued)

Name	Offset	Hex Tag
LMDCS_PAGE	994	
LMDCS_WAIT	988	
LMDCSAMP	978	
LMDELE	0	
LMDELE_AVERAGE	58	
LMDELE_DESC	8	
LMDELE_FLG1	52	
LMDELE_F1JPLX	52	40
LMDELE_F1OVER	52	80
LMDELE_HIGH	4C	
LMDELE_INUSE	44	
LMDELE_KEYW	2C	
LMDELE_LEN	78	78
LMDELE_LIMIT	40	
LMDELE_LOW	48	
LMDELE_NAME	0	
LMDELE_OVER	54	
LMDELE_OVRTIME	68	
LMDELE_STMT	1C	
LMDELE_TOTAL	60	
LMDELE_WARN	50	
LMDES_ENT	B20	
LMDES_FST	B24	
LMDESELE	0	
LMDESELE_CATGR	C	
LMDESELE_COUNT	8	
LMDESELE_LEN	10	10
LMDESELE_NAME	0	
LMDETIME	48	
LMDID	0	D3D4C440
LMDNEXT	8	
LMDPREV	10	
LMDSERGN	9A8	
LMDSMEML	9B0	
LMDSRGN	9A0	
LMDSS_ESRGN	A90	
LMDSS_EURGN	A48	
LMDSS_HIRGN	AD8	
LMDSS_SRGN	A00	

Table 328. Cross Reference for \$MSD (continued)

Name	Offset	Hex Tag
LMDSS_URGN	9B8	
LMDSS_1ST	9B8	
LMDSSAMP	998	
LMDSSE	0	
LMDSSE_AVERAGE	30	
LMDSSE_HIGH	28	
LMDSSE_LEN	48	48
LMDSSE_LOW	20	
LMDSSE_NAME	0	
LMDSSE_REGION	10	
LMDSSE_TOTAL	38	
LMDSSE_USE	18	
LMDSSNUM	AD8	5
LMDSTCK	18	
LMDSTCKE	28	
LMDSTIME	38	
LMDXCMT	5C	
LMDXCPUH	68	
LMDXCPUL	60	
LMDXCPUT	70	
LMDXTIMH	80	
LMDXTIML	78	
LMDXTIMT	88	
MSD	0	
MSD	0	
MSD	0	
MSDCBUFA	64	
MSDCBUFC	60	
MSDCBUFE	5C	
MSDCBUFS	58	
MSDCINT	48	
MSDCLAVG	74	
MSDCLCNT	70	
MSDCLOPD	78	68
MSDCLTIM	78	
MSDCLTOT	68	
MSDCSCLK	D0	
MSDCSCNT	54	
MSDCSD	0	

Table 328. Cross Reference for \$MSD (continued)

Name	Offset	Hex Tag
MSDCSD_ADDR	10	
MSDCSD_COUNT	38	5000
MSDCSD_CRB_ADR	14	
MSDCSD_EXIT	30	
MSDCSD_JOB	28	
MSDCSD_LEN	38	38
MSDCSD_MOD	18	
MSDCSD_OFFSET	20	
MSDCSD_PCE	24	
MSDCSD_SVC	32	
MSDCSD_TIME	0	
MSDCSD_TRAN	34	
MSDCSD_TY_DMVS	31	6
MSDCSD_TY_WAIT	31	1
MSDCSD_TY_WLOK	31	3
MSDCSD_TY_WNDS	31	4
MSDCSD_TY_WPGE	31	5
MSDCSD_TY_WTOT	31	2
MSDCSD_TYPE	31	
MSDCSPMC	48	C350
MSDCSPSC	48	14
MSDCSTIM	50	
MSDCSTTM	C8	
MSDCTIME	38	
MSDECOPA	88	
MSDER_LN	0	4
MSDERCNT	0	
MSDERELE	0	
MSDETYPE	C1	
MSDID	0	D4E2C440
MSDLEN	E0	E0
MSDLINT	18	
MSDLMDCT	30	
MSDLMDLS	28	
MSDLMDP	20	
MSDLPCED	A8	
MSDLPCID	C0	
MSDLPNAM	B8	
MSDLTIME	8	

Table 328. Cross Reference for \$MSD (continued)

Name	Offset	Hex Tag
MSDVERSN	4	1
MSDVRSN	4	
MSDWADDR	A0	
MSDWDETD	A4	90
MSDWSMPL	A4	
MSDWSTCK	90	
MWT	0	
MWTADDR	10	
MWTEXTIT	28	
MWTFINIT	2A	20
MWTFJESC	2A	40
MWTFLAGS	2A	
MWTFTERM	2A	10
MWTFXITC	2A	80
MWTHCUR	4	
MWTHDR	0	
MWTHID	0	D4E6E340
MWTHLADR	18	
MWTHLEN	1C	28
MWTHLTIM	8	
MWTLEN	34	40
MWTNAME	18	
MWTOFFS	20	
MWTPCEID	29	
MWTPCENM	2C	
MWTSCNT	24	
MWTSIZE	34	3000
MWTSTCK	0	
MWTWCNT	14	
PRBM	0	
PRBMDATA	2C	
PRBMDOM	34	
PRBMFLAG	30	
PRBMFPCE	30	2
PRBMFVAL	30	80
PRBMID	0	
PRBMLEN	160	160
PRBMMID	3A	3F
PRBMNAGO	30	4

Table 328. Cross Reference for \$MSD (continued)

Name	Offset	Hex Tag
PRBMNAGR	30	8
PRBMNEXT	4	
PRBMSPLC	28	
PRBMSTCK	18	
PRBMSTRT	8	
PRBMTXL1	38	
PRBMTXL2	82	
PRBMTXL3	CC	
PRBMTXL4	116	
PRBMTXT1	3A	
PRBMTXT2	84	
PRBMTXT3	CE	
PRBMTXT4	118	
PRBMUCMD	30	10
PRBMUDUR	30	40
PRBMUSTA	30	20

\$MTQH information

\$MTQH heading information

Common name:	Main Task Queue Header
Macro ID:	\$MTQH
DSECT name:	MTQH
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	MTQH Offset: MTQHID-MTQH Length: L'MTQHID
Storage attributes:	Subpool: 241 (CSA, not fetch protected) Key: 1 Residency: anywhere
Size:	See MTQHSIZE
Created by:	Users of \$RQUE services
Pointed to by:	CCTPJCLQ field of the \$HCCT data area CCTSAPIQ field of the \$HCCT data area CCTPSOQ field of the \$HCCT data area
Serialization:	Serialization is controlled through the \$RQUE service. Refer to the line comments for details about specific fields.

Function: Represents a queue of requests for a main task service. Used in conjunction with the \$RQUE services.

\$MTQH mapping

Table 329. Structure MTQH

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTQH	
The following fields are set by the creator of the MTQH. They cannot be altered after the MTQH is created.					
0	(0)	CHARACTER	4	MTQHID	Data area identifier
4	(4)	SIGNED	2	MTQHLEN	Length of MTQH
6	(6)	BITSTRING	1	MTQHVER	Version number
6	(6)	X'1'	0	MTQHCVER	"1" Current version number
7	(7)	BITSTRING	1	MTQHRSC	JES2 resource to post to have a request processed (\$DRxxxx value)
Number of MTRBs in various stages of processing on FIFO and active chains					
8	(8)	SIGNED	4	MTQHREQN	Nr of MTRBs to process SERIALIZATION: none, main task only
The following fields are internal to the \$RQUE services.					
12	(C)	BITSTRING	8	MTQHPEND(0)	Pending work queues
12	(C)	ADDRESS	4	MTQHLIFO	Address of first LIFO MTRB SERIALIZATION: compare and swap
16	(10)	ADDRESS	4	MTQHFIFO	Address of first FIFO MTRB SERIALIZATION: none, changed by main task only
20	(14)	ADDRESS	4	MTQHACT	Address of first active MTRB SERIALIZATION: none, changed by main task only
20	(14)	X'18'	0	MTQHSIZE	"*-MTQH" Length of MTQH

Table 330. Cross Reference for \$MTQH

Name	Offset	Hex Tag
MTQH	0	
MTQHACT	14	
MTQHCVER	6	1
MTQHFIFO	10	
MTQHID	0	D4E3D8C8
MTQHLEN	4	
MTQHLIFO	C	
MTQHPEND	C	
MTQHREQN	8	
MTQHRSC	7	

Table 330. Cross Reference for \$MTQH (continued)

Name	Offset	Hex Tag
MTQHSIZE	14	18
MTQHVER	6	

\$MTRB information

\$MTRB heading information

Common name:	Main Task Request Block
Macro ID:	\$MTRB
DSECT name:	MTRB
Owning component:	JES2 (SC1BH)
Eye-catcher ID:	MTRB Offset: MTRBID-MTRB Length: L'MTRBID
Storage attributes:	Subpool: 231 (subpool used by \$GETCEL) Key: 1 Residency: anywhere
Size:	See MTRBSIZE
Created by:	Users of \$RQUE services
Pointed to by:	the MTRBNEXT field of the MTRB data area the MTQHLIFO, MTQHFIFO, and MTQHACT fields of the MTQH data area the SAPMTRB field of the \$SAPID data area the PSOMTRB field of the \$PSO data area
Serialization:	Serialization is controlled through the \$RQUE service. SSI and main task callers have the following access to an MTRB: SSI caller: The caller has exclusive control of the MTRB before and after the call to the EXE function. If the caller is abended while within the EXE function, the caller's recovery routine is obligated to call the CMP function to wait for the request to complete before using or freeing the MTRB. Main task caller: The caller has exclusive control of the MTRB that is returned by the GET function. The caller gives up control of the MTRB when invoking the RET function.
Function:	Represents a request for a main task service. Used in conjunction with the \$RQUE services.

\$MTRB mapping

Table 331. Structure MTRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTRB	
The following fields can be used by callers of the \$RQUE services.					
0	(0)	SIGNED	4	MTRBCCE	Address of cell control element if storage for MTRB was obtained using \$GETCEL service, else 0
4	(4)	CHARACTER	4	MTRBID	Data area identifier
8	(8)	SIGNED	2	MTRBLEN	Length of MTRB
10	(A)	BITSTRING	1	MTRBVER	Version number
10	(A)	X'2'	0	MTRBCVER	"2" Current version number
11	(B)	BITSTRING	1	MTRBRSV1	Reserved for future use
12	(C)	ADDRESS	4	MTRBPARM	Address of request-specific control block
16	(10)	CHARACTER	4	MTRBPID	Identifier of request-specific control block
20	(14)	SIGNED	4	MTRBRC	Return code
24	(18)	CHARACTER	4	MTRBRSV2	Reserved for future use
The following fields are internal to the \$RQUE services.					
28	(1C)	ADDRESS	4	MTRBQUE	Address of queue header (helps locating queue in a dump)
32	(20)	ADDRESS	4	MTRBNEXT	Address of next MTRB on queue
36	(24)	SIGNED	4	MTRBECB	ECB for \$XMPOST
40	(28)	BITSTRING	1	MTRBFLG1	Flags SERIALIZATION: None.
40	(28)	X'1'	0	MTRB1WFC	"1" SSI must wait for completion
41	(29)	BITSTRING	7	MTRBRSV3	Reserved for future use
48	(30)	BITSTRING	8	MTRBASCT	Address space token
56	(38)	DBL WORD	8	MTRBSTCK	Time MTRB was queued
56	(38)	X'40'	0	MTRBSIZE	"*-MTRB" Length of MTRB

Table 332. Cross Reference for \$MTRB

Name	Offset	Hex Tag
MTRB	0	
MTRBASCT	30	
MTRBCCE	0	
MTRBCVER	A	2
MTRBECB	24	
MTRBFLG1	28	
MTRBID	4	D4E3D9C2
MTRBLEN	8	
MTRBNEXT	20	
MTRBPARM	C	
MTRBPID	10	

Table 332. Cross Reference for \$MTRB (continued)

Name	Offset	Hex Tag
MTRBQUE	1C	
MTRBRC	14	
MTRBRSV1	B	
MTRBRSV2	18	
MTRBRSV3	29	
MTRBSIZE	38	40
MTRBSTCK	38	
MTRBVER	A	
MTRB1WFC	28	1

\$MWE information

\$MWE heading information

Common name: HASP Monitor Work Element

Macro ID: \$MWE

DSECT name: MWE

Owning component: JES2 (SC1BH)

Eye-catcher ID: 'MWE '
Offset: MWEID-MWE
Length: 4

Storage attributes: Subpool: 129
Key: 1
Residency: Virtual is in 31 bit storage and real can be in 64 bit storage. The \$MWEs reside in the JES2 monitor address space.

Size: Each MWE is 16K bytes long.

Created by: Monitor initialization processing.

Pointed to by:

- The TCBBDT field of the MVS TCB control block for the associated monitor address space subtask.
- The MWENEXT pointer in the MWE data area
- The JMTMWE pointer in the HJCT data area
- General register 13 when executing code in the 'MONITOR' execution environment.

Serialization: None required

Function: The MWE contains data specific to a JES2 monitor subtask. It is also used to communicate data between the monitor main task and the subtasks.

\$MWE mapping

Table 333. Structure MWE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWE	, Monitor Work Element DSECT
0	(0)	CHARACTER	4	MWEID(0)	MWE control block identifier
0	(0)	BITSTRING	1	(0)	Available save area
176	(B0)	ADDRESS	4	MWENEXT	Address of next MWE on chain
180	(B4)	CHARACTER	8	MWENAME	Name of the monitor task
188	(BC)	CHARACTER	8	MWEEPNM	Entry point name
196	(C4)	ADDRESS	4	MWECODE	Address of the support code
Status information for this elements					
200	(C8)	CHARACTER	12	MWESTAT	Current status of task
212	(D4)	CHARACTER	24	MWEALERT	Any error alerts for this task
236	(EC)	BITSTRING	1	MWECFLAG	Common status flags
		1...		MWECFJ2D	"B'10000000" Task knows JES2 is down
237	(ED)	BITSTRING	3		Reserved
MWETECB is the ECB passed to ATTACHX that is posted when the task terminates MWEECB is the ECB the task waits on when it is not processing work					
240	(F0)	SIGNED	4	MWETECB	Termination ECB address
244	(F4)	SIGNED	4	MWEWECB	Communication ECB address
248	(F8)	ADDRESS	4	MWETCB	TCB address
252	(FC)	ADDRESS	4	MWEHJCT	HCJT address
256	(100)	DBL WORD	8	MWEDWORK	Work area (used by subroutines)
264	(108)	DBL WORD	8	MWEDWRK2	Work area (used by subroutines)
272	(110)	BITSTRING	16	MWEWRK16	Work area (used by subroutines)
288	(120)	BITSTRING	16	MWEQWORD	Quad word work area
304	(130)	CHARACTER	128	MWEWTOW	WTO work area (used by subroutines)
432	(1B0)	DBL WORD	8	MWEMFLS(0)	MF=L work areas
MACDATE 05/30/98					
432	(1B0)	SIGNED	4	(0)	
432	(1B0)	BITSTRING	28		
432	(1B0)	SIGNED	4	(0)	
432	(1B0)	ADDRESS	1		FLAGS FOR ESTAEX
433	(1B1)	ADDRESS	1		SECOND FLAG BYTE
434	(1B2)	ADDRESS	1		THIRD FLAG BYTE
435	(1B3)	ADDRESS	1		VERSION NUMBER
436	(1B4)	ADDRESS	4		TOKEN VALUE AREA
440	(1B8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
444	(1BC)	ADDRESS	4		ALET FOR PARM LIST
448	(1C0)	ADDRESS	4		FOUR BYTE EXIT ADDR
MACDATE 02/15/04					
432	(1B0)	SIGNED	4	(0)	

Table 333. Structure MWE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
432	(1B0)	BITSTRING	28		
460	(1CC)	SIGNED	4	(20)	Reserved
544	(220)	DBL WORD	8	MWEDATA(0)	Local data area origin
544	(220)	X'4000'	0	MWESIZE	"16384" Length of an MWE

Table 334. Cross Reference for \$MWE

Name	Offset	Hex	Tag
MWE	0		
MWEALERT	D4		
MWECFJ2D	EC		80
MWECFLAG	EC		
MWECODE	C4		
MWEDATA	220		
MWEDWORK	100		
MWEDWRK2	108		
MWECPNM	BC		
MWEHJCT	FC		
MWEID	0		
MWEMFLS	1B0		
MWENAME	B4		
MWENEXT	B0		
MWEQWORD	120		
MWESIZE	220		4000
MWESTAT	C8		
MWETCB	F8		
MWETECB	F0		
MWEWECB	F4		
MWEWRK16	110		
MWEWTOW	130		

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