z/OS

JES2 Data Areas, Volume 1 ($ALINDEX - $EVT)

GA22-7528-02

z/OS

JES2 Data Areas, Volume 1 ($ALINDEX - $EVT)

GA22-7528-02

Note

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 361.

Third Edition, September 2002

This is a major revision of GA22-7528-01.

This edition applies to Version 1 Release 4 of z/OS (5694-A01), and Version 1, Release 4 of z/OS.e (5655-G52), and to all subsequent releases and modifications until otherwise indicated in new editions.

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- Title and order number of this book
- Page number or topic related to your comment

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Contents

About This Book

This book provides graphic presentations of many data areas used by the MVS operating system and by application programs. This book provides the data areas that:

- Are used by two or more components
- Are programming interfaces
- Are needed for debugging or diagnosis

This book supports z/OS (5694-A01) and z/OS.e (5655-G52).

For the latest information updates that have been provided in PTF cover letters and Documentation APARS for z/OS and z/OS.e, see the online document at:

`http://www.s390.ibm.com:80/bookmgr-cgi/bookmgr.cmd/BOOKS/ZIDOCMST/CCONTENTS`

Who Should Use This Book

This book is for system programmers who diagnose and debug operating system and programming problems. It provides information for debugging installation-provided programs or diagnosing IBM-provided programs. The user of this publication should have a working knowledge of the operating system.

How To Use This Book

Data areas are sequenced alphanumerically by data area acronym. Each data area has up to three sections:

- Header
- Data area map
- Cross-reference, if the data area map is long enough

There are three volumes of *Data Areas*. The following list shows the range of data areas included in each volume:

z/OS JES2 Data Areas, Vol 1 $ALINDEX-$EVT	GA22-7528
z/OS JES2 Data Areas, Vol 2 $FCLWORK-$OUTWORK	GA22-7529
z/OS JES2 Data Areas, Vol 3 $PADDR-$XRQ	GA22-7530

The Header

The header includes some or all of the following:

Common Name: The descriptive name of the data area.

Macro ID: The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.

DSECT Name: Name of the dummy control section (DSECT) created by the mapping macro.

Owning Component: Component name and component identifier in parentheses.

Eye-Catcher ID: Character string identifier of the eye-catcher (sometimes called the **control block id**) within the mapping macro. The offset and length of the eye-catcher are also included.

Storage Attributes: The storage attributes of the data area, including the following:

- **Main Storage:** Central storage attributes of the data area.
- **Virtual Storage:** Virtual storage attributes of the data area.
- **Auxiliary Storage:** Spool storage attributes of the data area.
- **Subpool and Key:** Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.

Size: The size of the data area in decimal bytes.

Created by: Module, macro, or component whose use creates the data area.

Pointed to by: Registers or data area fields that contain the address of the data area.

Serialization: Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are:

- Lock or locks
- ENQ and DEQ macros
- Compare and Swap (CS) instruction
- Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area

Function: Brief description of the use of the data area.

Data Area Map

The data area is described field by field. These field descriptions are taken directly from the system code.

The following is an example of the field descriptions for the ANYAREA data area:

Offsets					
Dec	**Hex**	**Type**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	384	ANYAREA	
0	(0)	CHARACTER		ANYBEGIN	BEGINNING OF ANYAREA
0	(0)	CHARACTER	4	ANYACRO	ACRONYM IN EBCDIC -ANY-
4	(4)	ADDRESS	4	ANYADDR	ADDRESS OF NEXT ANYAREA ON QUEUE

For each field in the data area, the data area map provides the following information:

Offsets The address of the field, shown in both decimal (DEC) and hexadecimal (HEX in parentheses), relative to the beginning of the data area.

Type The kind of program data defined for this field, as follows:

Type	Description
ADDRESS	address constant
BITSTRING	Bitstring constant
CHARACTER	Character value
FIXED	Arithmetic signed or unsigned value
DBL WORD	Double word boundary
FIXED	Arithmetic signed or unsigned value
HEX	Hexadecimal value
SIGNED	Arithmetic signed value
STRUCTURE	Level 1 control block name
UNSIGNED	Unsigned value

Len Size of the field in decimal bytes.

Name (Dim) The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

```
1... ....      Refers to bit 0.
.... ..11      Refers to bits 6 and 7.
...1 ....      Refers to bit 3.
11.. 1111      Refers to bits 0, 1, 4, 5, 6, and 7.
```

Description A description of the purpose or meaning of the field, bit, or mask.

Cross Reference

For each data area with more than 25 fields, Cross Reference shows the following:

Name The name of the field, bit, or mask.

Hex Offset The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.

Hex Value Hexadecimal values are shown only for bits. The hexadecimal value shown implies the position of the bit in the field containing the bit.

Bit ANYBIT in the following illustrations shows how to use the hexadecimal value. In the example, cross reference for the ANYBIT bit looks like this:

Name	Hex Offset	Hex Value
TCBACTIV	F0	80

In the map of the data area, the ANYBIT bit appears like this:

```
240    (F0)  FIXED      4   ANYWORD     DISPATCHER INTERSECT CONTROL WORD
240    (F0)  BITSTRING  1   ANYBYTE     FLAG BYTE (MDC323)

             1... ....      ANYBIT      "X'80'" BIT ON MEANS THIS . . .   .
```

X'F0' is the offset of field ANYWORD into the data area. ANYWORD is a 4-byte field, which contains a 1-byte field named ANYBYTE. Both ANYWORD and ANYBYTE have the same offset. The first bit in both fields is named ANYBIT. Ignoring the other bits in the field ANYBYTE, if the ANYBIT bit is on, the value of field ANYBYTE would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the Description in the data area map and in the column of the cross reference.

Where to find more information

For complete titles and order numbers of the books for all products that are part of z/OS, see *z/OS Information Roadmap*.

Summary of changes

Summary of changes
for GA22-7528-02
z/OS Version 1 Release 4

The document contains information previously presented in *z/OS JES2 Data Areas*, GA22-7528-01, which supports z/OS Version 1 Release 2.

New information

Information is added to indicate this document supports z/OS.e.

The following data areas have been added:

- $DTEEOM
- $EOMWORK

This document contains terminology, maintenance, and editorial changes.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this book — for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our books.

Summary of changes
for GA22-7528-01
z/OS Version 1 Release 2

The document contains information previously presented in GA22-7528-00, which supports z/OS Version 1 Release 1.

This document contains terminology, maintenance, and editorial changes.

Summary of changes
for GA22-7528-00
z/OS Version 1 Release 1

This document contains information also presented in *OS/390 JES2 Data Areas*.

JES2 Data Areas - Volume 1 ($ALINDEX-$EVT)

$ALINDEX Programming Interface information

Programming Interface information

$ALINDEX

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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
				Comment	
				Mapping of each ALET entry	
				End of Comment	
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
				Comment	
				EQU 13,3 Reserved	
				End of Comment	
8	(8)	X'10'	0	ALIELEN	"16" Length of an entry
8	(8)	CHARACTER	8	ALISAPID	SAPID data space
24	(18)	CHARACTER	8	ALIIRDS	Internal reader data space
40	(28)	CHARACTER	8	ALICKVR	Checkpoint versions data space
56	(38)	CHARACTER	8	ALIPSO	Process Sysout Blocks
72	(48)	CHARACTER	8	ALISTAC	Status/cancel blocks
88	(58)	CHARACTER	8	ALITJEV	Thread JOE Exclusion Vec.
88	(58)	X'60'	0	ALISTEND	"*-ALISTART" Size of the pre-defined ALETs

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
88	(58)	X'6'	0	ALISTNUM	"ALISTEND/ALIELEN" Number of pre-defined ALETs
88	(58)	X'68'	0	ALISTD	"*-ALINDEX" Size of all pre-defined ALETs
104	(68)	SIGNED	4	ALIWSTRT (0)	Start of dynamic ALETs
104	(68)	BITSTRING	0	ALIWORK (0)	Dynamic ALET area
104	(68)	X'F90'	0	ALIWLEN	"*-ALIWSTRT" Size of the dynamic ALET area
104	(68)	X'FF'	0	ALINUMEN	"(*-ALISTART)/ALIELEN" Total number of entries
104	(68)	X'1000'	0	ALILEN	"4096" Size of the ALINDEX table

$ALINDEX Cross Reference

Name	Hex Offset	Hex Value
ALICKVR	28	C3D2E5D9
ALIEALET	8	8
ALIEFCOM	8	80
ALIEFLAG	8	C
ALIELEN	8	10
ALIENAME	8	0
ALIID	0	C1D3C9E7
ALIIRDS	18	C9D9C4E2
ALILEN	68	1000
ALINDEX	0	
ALINUMEN	68	FF
ALIPSO	38	D7E2D640
ALISAPID	8	E2C1D7C9
ALISTAC	48	E2E3C1C3
ALISTART	8	
ALISTD	58	68
ALISTEND	58	60
ALISTNUM	58	6
ALITJEV	58	E3D1C5E5
ALIVNUM	4	1
ALIVRSN	4	
ALIWLEN	68	F90
ALIWORK	68	
ALIWSTRT	68	

$APT Programming Interface information

Programming Interface information

$APT

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	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 STMNT
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
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
38	(26)	X'28'	0	APTLEN	"*-APT" LENGTH OF APT

$APT Cross Reference

Name	Hex Offset	Hex Value
APT	0	
APTAPLID	8	40404040
APTCHAIN	18	
APTCTAB	10	
APTFDYN	11	10
APTFEAT	12	
APTFINS	11	80
APTFLAGS	11	0
APTFOPDP	11	40
APTFOPSP	11	20
APTID	0	
APTLEN	26	28
APTLINE	24	
APTLMODE	1C	
APTLOGN	26	
APTNODE	14	0
APTREST	16	
APTRIDFM	13	
APTVRNUM	0	1
APTVRSN	4	

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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

$ARMG Cross Reference

Name	Hex Offset	Hex Value
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	
ARMGVER	9	
ARMGVERN	9	1

$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 Map

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ARMT	, JES2 ARM support trace record
				Comment	
				Contents of JQE fields at start of ARM request	
				End of Comment	
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
				Comment	
				Contents of JQE fields at end of ARM request	
				End of Comment	
5	(5)	BITSTRING	1	ARMTEFL1	JQEFLAG1
6	(6)	BITSTRING	1	ARMTETYP	JQETYPE
7	(7)	BITSTRING	1	ARMTEBSY	JQEBUSY
8	(8)	BITSTRING	1	ARMTEDEV	JQEDEVID
9	(9)	BITSTRING	1	ARMTEAID	JQEARMID
				Comment	
				Miscellaneous fields	
				End of Comment	
10	(A)	BITSTRING	1	ARMTFLG1	ARMFLAG1 in $ARMWORK
11	(B)	BITSTRING	1	ARMTRSV1	Reserved for future use
12	(C)	SIGNED	4	ARMTRC	MTRBRC
				Comment	
				SSPJ contents at end of request	
				End of Comment	
16	(10)	BITSTRING	1	ARMTSSPJ	SSPJ
16	(10)	X'40'	0	ARMTSIZE	"*-ARMT" Size of ARMT

$ARMT Cross Reference

Name	Hex Offset	Hex Value
ARMT	0	
ARMTEAID	9	
ARMTEBSY	7	
ARMTEDEV	8	
ARMTEFL1	5	
ARMTETYP	6	
ARMTFLG1	A	
ARMTRC	C	
ARMTRSV1	B	
ARMTSAID	4	
ARMTSBSY	2	
ARMTSDEV	3	
ARMTSFL1	0	
ARMTSIZE	10	40
ARMTSSPJ	10	
ARMTSTYP	1	

$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 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	BITSTRING	276		Warm PCE fields
516	(204)	ADDRESS	4	ARMMTRB	Active main task request block
520	(208)	ADDRESS	4	ARMSSPJ	SSOB extension from active request
524	(20C)	SIGNED	4	ARMLINES	LINES counter
528	(210)	SIGNED	4	ARMPUNCH	PUNCH counter
532	(214)	SIGNED	4	ARMXOUT	Records counter
536	(218)	SIGNED	4	ARMPAGES	PAGES counter
540	(21C)	SIGNED	4	ARMBYTES	BYTES counter
544	(220)	SIGNED	4	ARMDSKEY	DS key of last PDDB counted
548	(224)	ADDRESS	4	ARMSQD	SQD for $SUBIT
552	(228)	ADDRESS	4	ARMQYJQE	JQE whose registration is currently being verified
556	(22C)	BITSTRING	4	ARMSAF	System affinity work area
560	(230)	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
561	(231)	BITSTRING	1	ARMFLAG2	Serialized flag byte UPDATE USING OIL/NIL
		1...		ARM2MAIL	"B'10000000'" Messages have arrived
562	(232)	BITSTRING	2	ARMRSV1	Reserved for future use
564	(234)	SIGNED	4	ARMMSGA	XCF message address
568	(238)	SIGNED	4	ARMMSGL	XCF message length

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
572	(23C)	BITSTRING	8	ARMMSGTK	XCF message token
580	(244)	BITSTRING	64	ARMCTRAC	Current trace 26 record
644	(284)	BITSTRING	1	ARMPTRAC	Previous trace 26 record

Comment

List form macros

End of Comment

712	(2C8)	DBL WORD	8	(0)	
712	(2C8)	BITSTRING	160	ARMLSTFM	List form macros
872	(368)	CHARACTER	1	ARMLSEND (0)	End of list form area

Comment

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End of Comment

712	(2C8)	SIGNED	2	M00M0828 (0)	IXZXIXMB-1
712	(2C8)	DBL WORD	8	ARMIXMB (0)	++ IXZXIXMB PARM LIST
712	(2C8)	BITSTRING	1	ARMIXMB_XVERSION	
					++ INPUT XVERSION
713	(2C9)	CHARACTER	6	ARMIXMB_XEYECATCH	
					++ CONSTANT XEYECATCH
719	(2CF)	CHARACTER	1	ARMIXMB_XRSV0001	
					++ RESERVED XRSV0001
720	(2D0)	CHARACTER	16	ARMIXMB_XMBOXNAME	
					++ XMBOXNAME
736	(2E0)	ADDRESS	4	ARMIXMB_XPOSTXIT	
					++ XPOSTXIT
740	(2E4)	ADDRESS	4	ARMIXMB_XPOSTDATA	
					++ XPOSTDATA
744	(2E8)	SIGNED	4	ARMIXMB_XPOSTALET	
					++ XPOSTALET
748	(2EC)	SIGNED	4	ARMIXMB_XGROUPTOKEN	
					++ XGROUPTOKEN
752	(2F0)	BITSTRING	1	ARMIXMB_XSYSEVENTS	
					++ FIELD_LABEL
		1...		ARMIXMB_XSYSEVENT_YES	
					"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ARMIXMB_XSYSEVENT_NO	
					"B'01000000'" ++ XSYSEVENT.NO KEYWORD
752	(2F0)	X'29'	0	ARMIXMBL	"*-ARMIXMB" ++ LENGTH OF PLIST

Comment

IXZXIXMB-1

End of Comment

754	(2F2)	ADDRESS	2	(0)	Ensure area fits

Comment

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End of Comment

712	(2C8)	SIGNED	2	M00M0830 (0)	IXZXIXRM-1
712	(2C8)	DBL WORD	8	ARMIXRM (0)	++ IXZXIXRM PARM LIST
712	(2C8)	BITSTRING	1	ARMIXRM_XVERSION	
					++ INPUT XVERSION
713	(2C9)	CHARACTER	6	ARMIXRM_XEYECATCH	
					++ CONSTANT XEYECATCH
719	(2CF)	CHARACTER	1	ARMIXRM_XRSV0001	
					++ RESERVED XRSV0001

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
720	(2D0)	CHARACTER	16	ARMIXRM_XMBOXNAME	
					++ XMBOXNAME
736	(2E0)	ADDRESS	4	ARMIXRM_XDATA	
					++ XDATA
740	(2E4)	SIGNED	4	ARMIXRM_XDATALEN	
					++ XDATALEN
744	(2E8)	BITSTRING	8	ARMIXRM_XMSGTOKEN	
					++ XMSGTOKEN
752	(2F0)	SIGNED	4	ARMIXRM_XGROUPTOKEN	
					++ XGROUPTOKEN
756	(2F4)	BITSTRING	1	ARMIXRM_XMSGFETCH	
					++ INPUT
		1...		ARMIXRM_XMSGFETCH_ALL	
					"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.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
757	(2F5)	BITSTRING	1	ARMIXRM_XKEYS	
					++ FIELD_LABEL
		1...		ARMIXRM_KEYUSED_MSGFETCH	
					"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
757	(2F5)	X'2E'	0	ARMIXRML	"*-ARMIXRM" ++ LENGTH OF PLIST

Comment

IXZXIXRM-1

End of Comment

758	(2F6)	ADDRESS	2	(0)	Ensure area fits

Comment

MACDATE -93/06/10-<1>

End of Comment

712	(2C8)	SIGNED	2	M00M0831 (0)	IXZXIXAC-1
712	(2C8)	DBL WORD	8	ARMIXAC (0)	++ IXZXIXAC PARM LIST
712	(2C8)	BITSTRING	1	ARMIXAC_XVERSION	
					++ INPUT XVERSION
713	(2C9)	CHARACTER	6	ARMIXAC_XEYECATCH	
					++ CONSTANT XEYECATCH
719	(2CF)	BITSTRING	1	ARMIXAC_XSTB	++ INPUT
		1...		ARMIXAC_XSTB_NO	
					"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ARMIXAC_XSTB_YES	
					"B'01000000'" ++ XSTB.YES KEYWORD
720	(2D0)	BITSTRING	8	ARMIXAC_XMSGTOKEN	
					++ XMSGTOKEN
728	(2D8)	ADDRESS	4	ARMIXAC_XDATA	
					++ XDATA
732	(2DC)	SIGNED	4	ARMIXAC_XDATALEN	
					++ XDATALEN
736	(2E0)	SIGNED	4	ARMIXAC_XUSERRC	
					++ XUSERRC
740	(2E4)	SIGNED	4	ARMIXAC_XGROUPTOKEN	
					++ XGROUPTOKEN
744	(2E8)	SIGNED	4	ARMIXAC_XSYSRC	
					++ XSYSRC
748	(2EC)	SIGNED	4	ARMIXAC_XSYSRSN	
					++ XSYSRSN
752	(2F0)	BITSTRING	1	ARMIXAC_XKEYS	

$ARMWORK Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ 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
753	(2F1)	BITSTRING	1	ARMIXAC_XMSGATTR	
					++ INPUT
		1...		ARMIXAC_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ARMIXAC_XMSGATTR_EXPRESS	
					"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
753	(2F1)	X'2A'	0	ARMIXACL	"*-ARMIXAC" ++ LENGTH OF PLIST

Comment

IXZXIXAC-1

End of Comment

754	(2F2)	ADDRESS	2	(0)	Ensure area fits
872	(368)	X'278'	0	ARMPCEWS	"*-PCEWORK" ARM PCE work area length

$ARMWORK Cross Reference

Name	Hex Offset	Hex Value
ARMBYTES	21C	
ARMCTRAC	244	
ARMDSKEY	220	
ARMFLAG1	230	
ARMFLAG2	231	
ARMIXAC	2C8	
ARMIXAC_KEYUSED_DATA	2F0	80
ARMIXAC_KEYUSED_DATALEN	2F0	40
ARMIXAC_KEYUSED_SYSRC	2F0	10
ARMIXAC_KEYUSED_SYSRSN	2F0	8
ARMIXAC_KEYUSED_USERRC	2F0	20
ARMIXAC_XDATA	2D8	
ARMIXAC_XDATALEN	2DC	
ARMIXAC_XEYECATCH	2C9	
ARMIXAC_XGROUPTOKEN	2E4	
ARMIXAC_XKEYS	2F0	
ARMIXAC_XMSGATTR	2F1	
ARMIXAC_XMSGATTR_EXPRESS	2F1	40
ARMIXAC_XMSGATTR_J3CONNECT	2F1	80
ARMIXAC_XMSGTOKEN	2D0	
ARMIXAC_XSTB	2CF	
ARMIXAC_XSTB_NO	2CF	80
ARMIXAC_XSTB_YES	2CF	40
ARMIXAC_XSYSRC	2E8	
ARMIXAC_XSYSRSN	2EC	
ARMIXAC_XUSERRC	2E0	
ARMIXAC_XVERSION	2C8	
ARMIXACL	2F1	2A
ARMIXMB	2C8	
ARMIXMB_XEYECATCH	2C9	
ARMIXMB_XGROUPTOKEN	2EC	
ARMIXMB_XMBOXNAME	2D0	
ARMIXMB_XPOSTALET	2E8	
ARMIXMB_XPOSTDATA	2E4	
ARMIXMB_XPOSTXIT	2E0	
ARMIXMB_XRSV0001	2CF	
ARMIXMB_XSYSEVENT_NO	2F0	40
ARMIXMB_XSYSEVENT_YES		

Name	Hex Offset	Hex Value
	2F0	80
ARMIXMB_XSYSEVENTS		
	2F0	
ARMIXMB_XVERSION		
	2C8	
ARMIXMBL	2F0	29
ARMIXRM	2C8	
ARMIXRM_KEYUSED_MSGFETCH		
	2F5	80
ARMIXRM_XDATA		
	2E0	
ARMIXRM_XDATALEN		
	2E4	
ARMIXRM_XEYECATCH		
	2C9	
ARMIXRM_XGROUPTOKEN		
	2F0	
ARMIXRM_XKEYS		
	2F5	
ARMIXRM_XMBOXNAME		
	2D0	
ARMIXRM_XMSGFETCH		
	2F4	
ARMIXRM_XMSGFETCH_ACKS		
	2F4	10
ARMIXRM_XMSGFETCH_ALL		
	2F4	80
ARMIXRM_XMSGFETCH_MESSAGES		
	2F4	40
ARMIXRM_XMSGFETCH_SYSEVENT		
	2F4	20
ARMIXRM_XMSGTOKEN		
	2E8	
ARMIXRM_XRSV0001		
	2CF	
ARMIXRM_XVERSION		
	2C8	
ARMIXRML	2F5	2E
ARMLINES	20C	
ARMLSEND	368	
ARMLSTFM	2C8	
ARMMSGA	234	
ARMMSGL	238	
ARMMSGTK	23C	
ARMMTRB	204	
ARMPAGES	218	
ARMPCEWS	368	278
ARMPTRAC	284	
ARMPUNCH	210	
ARMQYJQE	228	
ARMRSV1	232	
ARMSAF	22C	
ARMSQD	224	
ARMSSPJ	208	
ARMXOUT	214	
ARM1ACTV	230	80
ARM1INVQ	230	10
ARM1JLOK	230	40
ARM1WARM	230	20
ARM2MAIL	231	80
M00M0828	2C8	
M00M0830	2C8	
M00M0831	2C8	
PCE	0	

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	DBL WORD	8	(0)	Force double-word alignment
240	(F0)	X'0'	0	ASYPCEWS	"*-PCEWORK" Length of work area

$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 Map

Offsets					
Dec	Hex	Type/Value	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)	BITSTRING	24	AXBODA	ASCRE output area (IHAASEO)
40	(28)	SIGNED	4	AXBECB	Main task wait ECB
44	(2C)	ADDRESS	4	AXBPWORK	Address of working storage in the AUX address space.
48	(30)	DBL WORD	8	(0)	
48	(30)	X'30'	0	AXBLEN	"*-AUXCB" Length of AUXCB

$AUXCB Cross Reference

Name	Hex Offset	Hex Value
AUXCB	0	
AXBECB	28	
AXBID	0	C1E4E7C2
AXBLEN	30	30
AXBNAME	8	D1C5E2F2
AXBODA	10	
AXBPWORK	2C	
AXBVER	4	
AXBVERN	4	1

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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

Offsets					
Dec	**Hex**	**Type/Value**	**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		BRTIIEND	"X'FF'" End of BERTIEs
1	(1)	BITSTRING	1	BRTILEN	Length of BERTIE data (does not include this prefix)
1	(1)	X'2'	0	BRTIPLEN	"*-BERTIE" Prefix area length
2	(2)	BITSTRING	1	BRTIDATA (0)	Start of actual data

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BERTI0	, 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	"*-BERTI0" 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	"*-BERTI0" Size with search key (plus key len)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTPREF	, BERT CTENT prefix area
0	(0)	BITSTRING	10	BRTPBERT	Start with a standard prefix
10	(A)	SIGNED	2	BRTPLEN	Size of BERT perfix
12	(C)	SIGNED	4	BRTPFREE	Index of 1st free BERT
16	(10)	SIGNED	4	BRTPFNUM	Number of free BERTs
20	(14)	SIGNED	4	BRTPMAP	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

Comment

```
------------------------------------------------------------
      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.
------------------------------------------------------------
```

End of Comment

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
60	(3C)	BITSTRING	1		Reserved
60	(3C)	X'3'	0	BRTPQHMX	"(*-BRTPQHDS)/BRTPQHDL" Max queue heads
60	(3C)	X'40'	0	BRTPSIZE	"*-BRTPREF" Size of prefix area

Offsets Dec	Offsets Hex	Type/Value	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

$BERT Cross Reference

Name	Hex Offset	Hex Value
BERT	0	
BERTIE	0	
BERTI0	0	
BERTVERS	0	1
BRTCAT	0	2
BRTCB	1	
BRTDATA	A	
BRTFREE	0	FF
BRTIDATA	2	
BRTIICNT	0	FE
BRTIID	0	
BRTIIEND	0	FF
BRTILEN	1	
BRTINT	0	0
BRTIPLEN	1	2
BRTJQE	0	1
BRTLEN	A	40
BRTMAP	0	
BRTMID	9	
BRTMLEN	C	14
BRTMNAME	0	
BRTMTYPE	8	
BRTNEXT	5	
BRTPBERT	0	
BRTPCAT	2C	
BRTPCATN	30	
BRTPFNUM	10	
BRTPFREE	C	
BRTPJQE	24	
BRTPJQEN	28	
BRTPLEN	A	
BRTPMAP	14	
BRTPMXTY	18	
BRTPQHDL	1C	8
BRTPQHDN	38	3
BRTPQHDS	24	
BRTPQHED	1C	0
BRTPQHMX	3C	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
BRT0FLAG	2	
BRT0FLG0	1	
BRT0KEY	9	
BRT0LEN1	1	2
BRT0LEN2	9	9
BRT0LOCK	0	
BRT0NXT1	3	
BRT0NXT2	6	
BRT0USEQ	1	F0

$BERTTAB Programming Interface information

Programming Interface information

$BERTTAB

End of Programming Interface information

$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 expantion 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 Map

Offsets Dec	Offsets Hex	Type/Value	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'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 entry (not user)
		.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

$BERTTAB Cross Reference

Name	Hex Offset	Hex Value
BRTT	0	
BRTTCAT	8	2
BRTTDYN	8	FF
BRTTELEN	18	18
BRTTFILL	D	
BRTTFLAG	9	
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 Programming Interface information

Programming Interface information

$BLDMSGL

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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

Comment

WORK AREA DEFINITION IF BLD1WTOR IS ON

End of Comment

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	BLDHUHDM	DOM ID FOR HUH MESSAGE
44	(2C)	ADDRESS	4	BLDREPV	Address of reply vector

Comment

WORK AREA DEFINITION IF BLD1WTO OR BLD1CMB IS ON

End of Comment

24	(18)	X'24'	0	BLDCNNCT	"BLDDOMID,4,C'F'" CONNECT ID FOR MULTI-LINE WTO
48	(30)	BITSTRING	2	BLDROUT	Route code for message
50	(32)	BITSTRING	2	BLDDESC	Descriptor codes for msg
52	(34)	CHARACTER	4	BLDMSGID	MESSAGE ID
56	(38)	BITSTRING	1	BLDSEPAR	Separator character

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
57	(39)	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
58	(3A)	BITSTRING	1	BLDISPER	'DISPER' character
59	(3B)	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
60	(3C)	BITSTRING	16		Reserved for future use
76	(4C)	ADDRESS	4	(0)	Ensure multiple of 4
76	(4C)	X'4C'	0	BLDSIZE	"*-BLD"

$BLDMSGL Cross Reference

Name	Hex Offset	Hex Value
BLD	0	
BLDADDR	18	
BLDCART	8	
BLDCBA	10	
BLDCNNCT	18	24
BLDCONID	4	
BLDDESC	32	
BLDDOMID	24	
BLDECB	18	
BLDFLAG1	39	
BLDFLAG2	3B	
BLDHUHDM	28	
BLDID	0	
BLDISPER	3A	
BLDISPR	14	
BLDJOBID	C	
BLDLEN	20	
BLDMSGID	34	
BLDREPLY	1C	
BLDREPV	2C	
BLDROUT	30	
BLDSEPAR	38	
BLDSIZE	4C	4C
BLDWORK	24	
BLD1CMB	39	20
BLD1GETW	39	1
BLD1JID	39	4
BLD1JQE	39	8
BLD1REPV	39	2
BLD1WAIT	39	10
BLD1WTO	39	80
BLD1WTOR	39	40
BLD2DESC	3B	20
BLD2LOGO	3B	80
BLD2LONG	3B	10
BLD2ROUT	3B	40

$BUFFER Programming Interface information

Programming Interface information

$BUFFER

End of Programming Interface information

$BUFFER Heading Information

Common Name: HASP Buffer
Macro ID: $BUFFER
DSECT Name: BFPDSECT, SPBRECD
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 and GBUF 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 + (BUFFER PREFIX AREA)
- WHERE X = MAX ($NOPRCCW*8+PCIESIZE+JOESIZE,
-              $NOPUCCW*8+PCIESIZE+JOESIZE,
-              ($TCELSIZ*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
$ASYNCQ 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
ICEINHD field of the $ICE data area
ICEINTL field of the $ICE data area
ICEOUTBF field of the $ICE data area
ICEOUTHD 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
SDBCBFC field of the $SDB data area
SDBCBF1 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 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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	BFPDSECT	START OF BUFFER PREFIX
0	(0)	CHARACTER	4	BFPID	BUFFER INDENTIFIER
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

Comment

The BUFFIX and BUFMULT EQUs are the same as $GTB1FIX and $GTB1MUL EQUs in $PARMLST

End of Comment

	1...	BUFFIX	"B'10000000'" Page-fix request
	.1..	BUFMULT	"B'01000000'" Multiple buffer request

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..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)
		1		BPMTBSC	"B'00000001'" BSC buffer type
		.... ..1.		BPMTCB	"B'00000010'" CB buffer type
		11		BPMTHASP	"B'00000011'" HASP buffer type
		.... .1..		BPMTPAGE	"B'00000100'" PAGE buffer type
		.... .1.1		BPMTPP	"B'00000101'" Print/Punch buffer type
		.... .11.		BPMTVTAM	"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	BUFBSC	"BUFLOCAL+BUFIOB+BPMTBSC"
12	(C)	X'22'	0	BUFCB	"BUFLOCAL+BUFIOB+BPMTCB"
12	(C)	X'23'	0	BUFHASP	"BUFLOCAL+BUFIOB+BPMTHASP"
12	(C)	X'16'	0	BUFVTAM	"BUFRPL+BPMTVTAM"
12	(C)	X'24'	0	BUFPAGE	"BUFLOCAL+BUFIOB+BPMTPAGE"
12	(C)	X'C'	0	BUFSPXFR	"BUFLOCAL+BUFDECB+BPMTPAGE"
12	(C)	X'25'	0	BUFPP	"BUFLOCAL+BUFIOB+BPMTPP"
13	(D)	CHARACTER	1	BUFECBCC	I/O COMPLETION CODE
		1		BUFCCFCB	"X'01'" HASPIMAG - BAD FCB
14	(E)	BITSTRING	1	BUFFLAG1	Buffer flag byte
		1...		BFPTHMGR	"B'10000000'" BUFFER BELONGS TO PATH MGR
		.1..		BUF1WIN	"B'01000000'" WRITE IN PROGRESS
		..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
15	(F)	CHARACTER	1		RESERVED FOR FUTURE USE
16	(10)	ADDRESS	4	BFPDCT	ADDRESS OF DEVICE CONTROL TABLE
20	(14)	ADDRESS	4	BFPEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
20	(14)	X'18'	0	BFPLEN	"*-BFPDSECT" LENGTH OF BUFFER PREFIX

Comment

The following fields are a remapping of the IOB control block in the mapping macro IEZIOB.

End of Comment

24	(18)	CHARACTER	1	IOBDSECT (0)	BUFFER CONTROL AREA
24	(18)	BITSTRING	1	IOBFLAG1	I/O FLAGS
		.1..		IOBCMDCH	"B'01000000'" Command chaining used in channel program
		.... .1..		IOBIOERR	"B'00000100'" Exceptional condition. After CEA returns and this bit is on, the error is considered permanent.
		.... ..1.		IOBUNREL	"B'00000010'" Unrelated flag (i.e. nonsequential)
		1		IOBRSTRT	"B'00000001'" Restart address in IOB to be used
25	(19)	CHARACTER	1	IOBFLAG2	I/O FLAGS
26	(1A)	CHARACTER	1	IOBSENS0	FIRST SENSE BYTE
27	(1B)	CHARACTER	1	IOBSENS1	SECOND SENSE BYTE
28	(1C)	CHARACTER	1	IOBECBCC (0)	I/O COMPLETION CODE
28	(1C)	SIGNED	4	IOBECBPT	ADDRESS OF HASP EVENT CONTROL BLOCK
32	(20)	CHARACTER	1	IOBFLAG3	I/O FLAGS
33	(21)	CHARACTER	7	IOBCSW	CHANNEL STATUS WORD
40	(28)	CHARACTER	1	IOBSIOCC (0)	SIO CONDITION CODE
40	(28)	SIGNED	4	IOBSTART	ADDRESS OF CHANNEL PROGRAM
44	(2C)	BITSTRING	1	IOBFLAG4 (0)	Flag byte
		1...		IOBGDPOL	"B'10000000'" Not used by JES2
		.1..		IOBCC3WE	"B'01000000'" User requests that IOS POST when an 'all paths lost' condition is detected
		..1.		IOBPMERR	"B'00100000'" Not used by JES2
		...1		IOBCEF	"B'00010000'" IOB common extension is available

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		EQU B'00001100' Not used by JES2 (reserved)			
				End of Comment	
		.... ..1.		IOBJES3I	"B'00000010'" Not used by JES2
				Comment	
		EQU B'00000001' Not used by JES2 (reserved)			
				End of Comment	
44	(2C)	SIGNED	4	IOBDCBPT	ADDRESS OF DATA CONTROL BLOCK
48	(30)	CHARACTER	1	IOBREPM (0)	REPOSITION MODIFIER
48	(30)	SIGNED	4	IOBRESTR	RESTART ADDRESS OF CHANNEL PROGRAM
52	(34)	CHARACTER	1	TPBMXREC (0)	MAXIMUM RJE OUTPUT RECORD COUNT
52	(34)	SIGNED	2	IOBINCAM	BLOCK COUNT INCREMENT
52	(34)	X'35'	0	IOBECBSV	"IOBINCAM+1,1" I/O COMPLETION SAVE AREA
54	(36)	SIGNED	2	IOBERRCT	ERROR COUNT
56	(38)	CHARACTER	1	TPBLCCC (0)	LAST REMOTE OUTPUT COMMAND OP.
56	(38)	SIGNED	4	TPBLCCAD (0)	ADDR OF LAST REMOTE CARRIAGE CONTROL
56	(38)	CHARACTER	1	IOBXTENT	DEB EXTENT
57	(39)	CHARACTER	7	IOBSEEK (0)	DIRECT ACCESS SEEK ADDRESS
				Comment	
		---------- End of fields that are a remapping of the IOB control block in the mapping macro IEZIOB. ----------			
				End of Comment	
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	BUFCHEQ	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
				Comment	
		---------- PP BUFFER SYNCHRONIZATION INFORMATION ----------			
				End of Comment	
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)	SIGNED	4	PPBLVCCC	LAST VALID CCW IN CURRENT AREA
88	(58)	CHARACTER	4	PPBCMTTR	CURRENT PUNCH
92	(5C)	CHARACTER	2	PPBCRCB	RESTART
94	(5E)	CHARACTER	1	PPBCBOFF	POINTERS
95	(5F)	CHARACTER	4	PPBNMTTR	NEXT PUNCH
99	(63)	CHARACTER	2	PPBNRCB	RESTART

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
101	(65)	CHARACTER	1	PPBNBOFF	POINTERS
102	(66)	CHARACTER	2	PPBDISPL	OFFSET OF 2ND IOB BUFFER

Comment

```
-----------------------------------------------------------
     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
     The advantage of defining the fields at this point
     in the buffer is that this part of the buffer is
     never written to SPOOL and thus there is no
     exposure to residual data being available when the
     buffer is read from SPOOL later. This area is
     zeroed in the $CBIO support routines just before
     a control block is read.
-----------------------------------------------------------
```

End of Comment

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

Comment

```
-----------------------------------------------------------
     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 neccessary bit definitions defined in
     corresponding DSECT.
-----------------------------------------------------------
```

End of Comment

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 SPOOL
		.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	BUFMEMW8	Eight memory-only word
100	(64)	ADDRESS	4	BUFWRTBK	Buffer backward chain pointer during CB chain write in user environment
100	(64)	X'38'	0	BUFMEM	"IOBXTENT,*-IOBXTENT,C'X'" Name of composite area

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				---------- 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. ----------	
				End of Comment	
104	(68)	ADDRESS	2	(0)	See above
				Comment	
				---------- Start of data area in SPOOL buffers ----------	
				End of Comment	
104	(68)	DBL WORD	8	BUFSTART (0)	START OF BUFFER WORK SPACE
				Comment	
				---------- 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) ----------	
				End of Comment	
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)	SIGNED	4		Reserved
132	(84)	X'88'	0	HDBSTART	"*" HASP DATA BLOCK START
				Comment	
				---------- BSC TP buffer fields ----------	
				End of Comment	
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	"*-IOBDSECT" 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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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.	
				End of Comment	
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

Offsets Dec	Hex	Type/Value	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	SPBTYPE	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
				Comment	
				SPBTYPE DEFINITIONS	
				End of Comment	
5	(5)	X'1'	0	SPBTYPD	"1" TYPE IS DATA RECORD
5	(5)	X'2'	0	SPBTYPEF	"2" TYPE IS EOF RECORD
5	(5)	X'3'	0	SPBTYPEB	"3" TYPE IS END OF BUFFER RECORD
				Comment	
				SPBEOFID DEFINITIONS	
				End of Comment	
5	(5)	X'1'	0	SPBEOFOK	"1" NORMAL EOF REACHED
5	(5)	X'2'	0	SPBEOFAB	"2" ABNORMAL EOF REACHED
				Comment	
				SPBFLAG1 DEFINITIONS	
				End of Comment	
		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

Offsets Dec	Hex	Type/Value	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		Reserved
14	(E)	SIGNED	2	BFDLEN	Length remaining in buffer
16	(10)	DBL WORD	8	(0)	Alignment for BFDCCWS

$BUFFER Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	BITSTRING	56	BFDCCWS	CCWs for write processing
16	(10)	CHARACTER	8	BFDFSRBA	First seg spanned RBA addr
72	(48)	ADDRESS	4	BFDSDB	In HAM, addr of owning SDB
76	(4C)	BITSTRING	1	BFDECBCC (0)	I/O completion code
76	(4C)	SIGNED	4	BFDECB	ECB on which to wait
80	(50)	BITSTRING	1	BFDFLAG1	Flag byte 1
		1...		BFD1EOB	"B'10000000'" END-OF-BUFFER indicator
		.1..		BFD1PUAC	"B'01000000'" PUT update active

Comment

BFDFLAG1 flags, for internal reader only

End of Comment

		.... 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
		1...		BFD2IOE	"B'10000000'" I/O error encountered
		.1..		BFD2SRBF	"B'01000000'" SRB failed to obtain bfr
		..1.		BFD2RPBF	"B'00100000'" Try again to fill PBF
82	(52)	SIGNED	2		Reserved
84	(54)	SIGNED	4	BFDTRK	Track address of buffer
88	(58)	DBL WORD	8	(0)	Alignment for BFDRBA
88	(58)	CHARACTER	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
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	ADDRESS	2	(0)	
104	(68)	X'1000'	0	BFDSIZE	"4096" Length of data set buffer

$BUFFER Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
$MAXTPBS	88	F78	BFDTRK	54	
$SNABFMX	88	7F00	BFDTYPE	C	
BFD	0		BFD1EOB	50	80
BFDBAT	4		BFD1ICLS	50	1
BFDCCWS	10		BFD1IDEL	50	4
BFDCHAIN	8		BFD1IEOF	50	8
BFDECB	4C		BFD1IERQ	50	2
BFDECBCC	4C		BFD1PUAC	50	40
BFDFLAG1	50		BFD2IOE	51	80
BFDFLAG2	51		BFD2RPBF	51	20
BFDFSRBA	10		BFD2SRBF	51	40
BFDID	0		BFPBAT	4	
BFDLEN	E		BFPDCT	10	
BFDLOC	64		BFPDSECT	0	
BFDRBA	58		BFPEWF	14	
BFDSDB	48		BFPID	0	
BFDSIZE	68	1000	BFPLEN	14	18
BFDSTART	68		BFPSWEL	4	4
BFDTCB	60		BFPTHMGR	E	80

Name	Hex Offset	Hex Value
BPMTBSC	C	1
BPMTCB	C	2
BPMTHAM	C	7
BPMTHASP	C	3
BPMTPAGE	C	4
BPMTPP	C	5
BPMTUSCB	C	FF
BPMTVTAM	C	6
BUFBPMT	C	7
BUFBSC	C	21
BUFCB	C	22
BUFCCFCB	D	1
BUFCHAIN	8	
BUFCHECB	44	
BUFCHEQ	44	
BUFCHNCT	42	
BUFCHOFF	41	
BUFDECB	C	8
BUFECBCC	D	
BUFFIX	C	80
BUFFLAG1	E	
BUFHASP	C	23
BUFIOB	C	20
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	
BUFMEMW8	60	
BUFMFLG1	50	50
BUFMULT	C	40
BUFM1CKP	50	80
BUFM1CK2	50	40
BUFPAGE	C	24
BUFPP	C	25
BUFRPL	C	10
BUFSPXFR	C	C
BUFSTART	68	
BUFTYPE	C	
BUFVTAM	C	16
BUFWRTBK	64	
BUF1CHEN	E	8
BUF1DASD	E	4
BUF1PERM	E	10
BUF1SINT	E	20
BUF1WIN	E	40
HDBDSKEY	7C	
HDBID	68	
HDBJBKEY	78	
HDBJBNUM	74	
HDBJNAME	6C	
HDBKEY	78	
HDBNXTRK	80	
HDBSPLNG	7C	18
HDBSTART	84	88

Name	Hex Offset	Hex Value
IOBCCW1	48	
IOBCCW2	50	
IOBCCW3	58	
IOBCCW4	60	
IOBCCW5	68	
IOBCCW6	70	
IOBCCW7	78	
IOBCCW8	80	
IOBCC3WE	2C	40
IOBCEF	2C	10
IOBCMDCH	18	40
IOBCSW	21	
IOBDCBPT	2C	
IOBDSECT	18	
IOBECBCC	1C	
IOBECBPT	1C	
IOBECBSV	34	35
IOBERRCT	36	
IOBFLAG1	18	
IOBFLAG2	19	
IOBFLAG3	20	
IOBFLAG4	2C	
IOBGDPOL	2C	80
IOBINCAM	34	
IOBIOERR	18	4
IOBJES3I	2C	2
IOBPMERR	2C	20
IOBREPM	30	
IOBRESTR	30	
IOBRSTRT	18	1
IOBSEEK	39	
IOBSENS0	1A	
IOBSENS1	1B	
IOBSIOCC	28	
IOBSTART	28	
IOBUNREL	18	2
IOBXTENT	38	
LCBACK	41	
LCBMCB	40	
LCBRCB	42	
PPBCBOFF	5E	
PPBCCWNX	4C	
PPBCMTTR	58	
PPBCRCB	5C	
PPBDISPL	66	
PPBFLAG1	40	40
PPBLVCCC	54	
PPBLVCCN	50	
PPBNBOFF	65	
PPBNMTTR	5F	
PPBNRCB	63	
PPBPCIE	48	
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	

$BUFFER Cross Reference

Name	Hex Offset	Hex Value
SPBSKIP	5	20
SPBSRCB	1	
SPBSTART	36	
SPBSYNAD	5	80
SPBTYPD	5	1
SPBTYPE	2	
SPBTYPEB	5	3
SPBTYPEF	5	2
TPBFDATA	3C	
TPBLCCAD	38	
TPBLCCC	38	
TPBMXREC	34	
TPBRECNT	3C	
TPBUFST	88	

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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

Comment

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.

End of Comment

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				MODULE HASCARMS ROUTINES LISTED ALPHABETICALLY	
				End of Comment	
8	(8)	ADDRESS	4	C@CPJCLINI	Initialize PJCL queue
12	(C)	ADDRESS	4	C@CPJCLTRM	Terminate PJCL queue
				Comment	
				MODULE HASCARSO ROUTINES LISTED ALPHABETICALLY	
				End of Comment	
16	(10)	ADDRESS	4	C@ARMEOJ	Notify ARM of end of job
				Comment	
				Module HASCDAU Routines Listed Alphabetically	
				End of Comment	
20	(14)	ADDRESS	4	C@$ALLDAU	Allocate daughter IOT
24	(18)	ADDRESS	4	C@$UALDAU	Unallocate daughter IOT
				Comment	
				MODULE HASCDSAL ROUTINES LISTED ALPHABETICALLY	
				End of Comment	
28	(1C)	ADDRESS	4	C@$DSCTBLD	Fill in DSCT
32	(20)	ADDRESS	4	C@$PDBBLD	GET A PDDB SLOT ROUTINE
36	(24)	ADDRESS	4	C@$PDBDEFS	Default some PDDB fields
40	(28)	ADDRESS	4	C@HALFDSNR	Find data set name
44	(2C)	ADDRESS	4	C@HALJMERG	MERGE JFCB FIELDS
48	(30)	ADDRESS	4	C@HALOCRP	MERGE OCR KEYWORDS
52	(34)	ADDRESS	4	C@HALOPDBI	FINISH SYSOUT PDDB INIT
56	(38)	ADDRESS	4	C@HALSSALP	MERGE SSOB KEYWORDS
60	(3C)	ADDRESS	4	C@HALUNAL	UNALLOCATE A DATASET ROUTINE
64	(40)	ADDRESS	4	C@HAOUTSCN	SCAN OUTPUT DD REFERENCES
68	(44)	ADDRESS	4	C@HIOTSPIN	SPIN THE ARGUMENT IOT
72	(48)	ADDRESS	4	C@HNDUPDTE	Update SWB NOTIFY keyword
76	(4C)	ADDRESS	4	C@HPOSTIR	POST tasks waiting to allocate an INTRDR
				Comment	
				MODULE HASCDSOC ROUTINES LISTED ALPHABETICALLY	
				End of Comment	
80	(50)	ADDRESS	4	C@DSOPEN	DATA SET OPEN ROUTINE
84	(54)	ADDRESS	4	C@HFEXJESL	Extend JESLOG data set
88	(58)	ADDRESS	4	C@HFEXSPIN	Spin JESLOG data sets
92	(5C)	ADDRESS	4	C@HFOPSUB	ACB FAKE OPEN ROUTINE
96	(60)	ADDRESS	4	C@HOCSETUP	RESTART/OPEN/CLOSE SETUP ROUTINE
100	(64)	ADDRESS	4	C@SSVCLSC	CONVERTER FAKE CLOSE
104	(68)	ADDRESS	4	C@SSVOPNC	CONVERTER FAKE OPEN
				Comment	
				MODULE HASCDSS ENTRY POINT.	
				End of Comment	
108	(6C)	ADDRESS	4	C@$ALESERV	ALET management service
112	(70)	ADDRESS	4	C@DSPSERV	Data space service entry

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Module HASCENF routines and tokens listed alphabetically.					
				End of Comment	
116	(74)	ADDRESS	4	C@ENFISSUE	ENF issue service
120	(78)	ADDRESS	4	CADDRENFBEG (0)	Start of ENF entries
120	(78)	ADDRESS	4	CADDR@ENF35	Code 35 - CF structure
124	(7C)	ADDRESS	4	CADDR#ENF35	status change
128	(80)	ADDRESS	4	CADDR@ENF41GL	Code 41 - VARY WLM,POLICY=
132	(84)	ADDRESS	4	CADDR#ENF41GL	in goal mode done
136	(88)	ADDRESS	4	CADDR@ENF41CP	Code 41 - VARY WLM,POLICY=
140	(8C)	ADDRESS	4	CADDR#ENF41CP	in compatibality mode done
144	(90)	ADDRESS	4	CADDR@ENF42	Code 42 - MODIFY WLM,
148	(94)	ADDRESS	4	CADDR#ENF42	MODE=GOAL done
152	(98)	ADDRESS	4	CADDR@ENF56	Code 56 - RESET job
156	(9C)	ADDRESS	4	CADDR#ENF56	command issued
160	(A0)	ADDRESS	4	CADDR@ENF57CM	Code 57 - MODIFY WLM,
164	(A4)	ADDRESS	4	CADDR#ENF57CM	RESOURCE command issued
168	(A8)	ADDRESS	4	CADDR@ENF57RV	Code 57 - Scheduling chg
172	(AC)	ADDRESS	4	CADDR#ENF57RV	due to WLM recovery
172	(AC)	X'7'	0	CADDRENFNUM	"(*-CADDRENFBEG)/8" Number of ENF entries
				Comment	
MODULE HASCGGKY ROUTINES LISTED ALPHABETICALLY					
				End of Comment	
176	(B0)	ADDRESS	4	C@$GKGET	Get grouping keys
180	(B4)	ADDRESS	4	C@$GKINIT	Initialize grouping keys
184	(B8)	ADDRESS	4	C@$GKTERM	Terminate grouping keys
				Comment	
MODULE HASCGGST ROUTINES LISTED ALPHABETICALLY					
				End of Comment	
188	(BC)	ADDRESS	4	C@$GASSIGN	Assign grouping token
192	(C0)	ADDRESS	4	C@$GSINIT	Initialize grouping strings
196	(C4)	ADDRESS	4	C@$GSTERM	Terminate grouping strings
				Comment	
Module HASCHAM routines listed alphabetically					
				End of Comment	
200	(C8)	ADDRESS	4	CADDR@HAMAVT	HAM appendage vector table, not for $CALL, data only
204	(CC)	ADDRESS	4	C@ABEND722	Issue 722 ABEND
208	(D0)	ADDRESS	4	C@CNIN2OUT	Convert SDB from input to output mode
212	(D4)	ADDRESS	4	C@FREPBLOK	Free protected block
216	(D8)	ADDRESS	4	C@FRESDBLK	Unserialize the SDB
220	(DC)	ADDRESS	4	C@GETPBLOK	Obtain GET protected block
224	(E0)	ADDRESS	4	C@GETSDBLK	Serialize the SDB

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
228	(E4)	ADDRESS	4	C@HAMNULL	'Null' acsmeth interface
232	(E8)	ADDRESS	4	C@HAMPSTER	HAM Post Exit routine
236	(EC)	ADDRESS	4	C@HASPAMI	Access method interface
240	(F0)	ADDRESS	4	C@HINTRDR	INTERNAL READER ACCESS METHOD
244	(F4)	ADDRESS	4	C@HWAITBUF	Wait for all I/O to end
248	(F8)	ADDRESS	4	C@OBTGBAT	Obtain BAT for GET request
252	(FC)	ADDRESS	4	C@PROTENDR	Protected Endreq entry pt
256	(100)	ADDRESS	4	C#PROTENDR	Protected Endreq PC number
260	(104)	ADDRESS	4	C@PRENRREC	Protected Endreq recov rtn
264	(108)	ADDRESS	4	C@PROTGET	Protected Get entry point
268	(10C)	ADDRESS	4	C#PROTGET	Protected Get PC number
272	(110)	ADDRESS	4	C@PRGETREC	Protected Get recovery rtn
276	(114)	ADDRESS	4	C@PROTPUT	Protected Put entry point
280	(118)	ADDRESS	4	C#PROTPUT	Protected Put PC number
284	(11C)	ADDRESS	4	C@PRPUTREC	Protected Put recovery rtn
288	(120)	ADDRESS	4	C@PROTPNT	Protected Point entry point
292	(124)	ADDRESS	4	C#PROTPNT	Protected Point PC number
296	(128)	ADDRESS	4	C@PRPNTREC	Protected Point recovery rt
300	(12C)	ADDRESS	4	C@PROTSRB	Protected Get SRB entry pnt
304	(130)	ADDRESS	4	C#PROTSRB	Protected Get SRB PC number
308	(134)	ADDRESS	4	C@PRSRBREC	Protected SRB recovery rtn
312	(138)	ADDRESS	4	C@RELGBAT	Release BAT for GET request

Comment

MODULE HASCJBST ROUTINES LISTED ALPHABETICALLY

End of Comment

316	(13C)	ADDRESS	4	C@HFJOBLOG	PLACE TITLE IN JES2 JOB LOG
320	(140)	ADDRESS	4	C@HFJLOGTM	Add date line to JOB LOG
324	(144)	ADDRESS	4	C@HFJDLINE	Create date line
328	(148)	ADDRESS	4	C@HJE000	COMMON JOB TERMINATION ROUTINE
332	(14C)	ADDRESS	4	C@HJSMAKSL	MAKE A SLOT FOR A SYSTEM PDDB
336	(150)	ADDRESS	4	C@JBFOUND	JOB SELECT SET UP ROUTINE
340	(154)	ADDRESS	4	C@JBSELECT	JOB SELECT SELECTION ROUTINE
344	(158)	ADDRESS	4	C@JOBSTATS	UPDATE JCT STATS ROUTINE
348	(15C)	ADDRESS	4	C@JSOPSSDS	OPEN SUBSYSTEM DATASETS ROUTINE
352	(160)	ADDRESS	4	C@JSREOPEN	JOB SELECT DS REOPEN RTN
356	(164)	ADDRESS	4	C@MRGSWBS	MERGE SWBS INTO PDDBS FOR JESDS

Comment

MODULE HASCJBTR ROUTINES LISTED ALPHABETICALLY

End of Comment

360	(168)	ADDRESS	4	C@$UCBINDX	Reset Attn Index in UCB
364	(16C)	ADDRESS	4	C@EOBLOB	Clean up BLOB
368	(170)	ADDRESS	4	C@EOTFDCON	ISSUE FSI DISCONNECT REQUEST

Comment

MODULE HASCLINK ROUTINES LISTED ALPHABETICALLY

End of Comment

372	(174)	ADDRESS	4	C@$CRETRN	$RETURN SERVICE ROUTINE
376	(178)	ADDRESS	4	C@$CSAVE	$SAVE SERVICE ROUTINE
380	(17C)	ADDRESS	4	C@$FBUFRTN	Routine to free buffers with LOCAL lock held
384	(180)	ADDRESS	4	C@$FRECEL	FREE A CSA CELL
388	(184)	ADDRESS	4	C@$GETCEL	OBTAIN A CSA CELL
392	(188)	ADDRESS	4	C@$GETHP	HIGH PRIVATE STORAGE CELLS
396	(18C)	ADDRESS	4	C@$HGFMAIN	HGFMAIN GET/FREE MAIN SERVICES
400	(190)	ADDRESS	4	C@$MLTFBUF	MULTIPLE BUFFER FREE ROUTINE
404	(194)	ADDRESS	4	C@$MSDDUMP	Multi System Dump Routine
408	(198)	ADDRESS	4	C@$SSIBEGN	SSI INTERFACE BEGIN ROUTINE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
412	(19C)	ADDRESS	4	C@$SSIEND	SSI INTERFACE END ROUTINE
416	(1A0)	ADDRESS	4	C@$SYMREC	ENTRY TO $SYMREC ROUTINE
420	(1A4)	ADDRESS	4	C@FINDMOD	Find LMT/MIT for a module containing a given address
424	(1A8)	ADDRESS	4	C@FRETRE	FREE TCB RECOVERY ELEMENT
428	(1AC)	ADDRESS	4	C@GETTRE	GET TCB RECOVERY ELEMENT
432	(1B0)	ADDRESS	4	C@MBSCATTN	BSC CTC Attention routine
436	(1B4)	ADDRESS	4	C@RECOVERY	SSI RECOVERY ROUTINE
440	(1B8)	ADDRESS	4	C@SSIFINE	SSI INTERFACE FINISH ROUTINE
444	(1BC)	ADDRESS	4	C@SSISESTA	SSI $ESTAE ROUTINE
448	(1C0)	ADDRESS	4	C@SSISETUP	SSI INTERFACE SETUP ROUTINE
452	(1C4)	ADDRESS	4	CADDR@CNTBITAB	TRT table for $CNTBIT macro

Comment

Module HASCOFST entries listed alphabetically

End of Comment

456	(1C8)	ADDRESS	4	CADDR@OCOOFFST	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.

Comment

MODULE HASCPOOL ROUTINES LISTED ALPHABETICALLY

End of Comment

460	(1CC)	ADDRESS	4	C@CPBUILD	CPool build entry point
464	(1D0)	ADDRESS	4	C#CPBUILD	CPool build PC number
468	(1D4)	ADDRESS	4	C@CPBREC	CPool build recovery rtn
472	(1D8)	ADDRESS	4	C@CPDELETE	CPool delete entry point
476	(1DC)	ADDRESS	4	C#CPDELETE	CPool delete PC number
480	(1E0)	ADDRESS	4	C@CPDREC	CPool delete recovery rtn
484	(1E4)	ADDRESS	4	C@CPEXPAND	CPool expand entry point
488	(1E8)	ADDRESS	4	C#CPEXPAND	CPool expand PC number
492	(1EC)	ADDRESS	4	C@CPXREC	CPool expand recovery rtn
496	(1F0)	ADDRESS	4	C@CPFREE	CPool free entry point
500	(1F4)	ADDRESS	4	C#CPFREE	CPool free PC number
504	(1F8)	ADDRESS	4	C@CPFREC	CPool free recovery rtn
508	(1FC)	ADDRESS	4	C@CPGET	CPool get entry point
512	(200)	ADDRESS	4	C#CPGET	CPool get PC number
516	(204)	ADDRESS	4	C@CPGREC	CPool get recovery rtn
520	(208)	ADDRESS	4	C@CPINIT	CPool initialization
524	(20C)	ADDRESS	4	C@CPMODIFY	CPool modify entry point
528	(210)	ADDRESS	4	C#CPMODIFY	CPool modify PC number
532	(214)	ADDRESS	4	C@CPMREC	CPool modify recovery rtn
536	(218)	ADDRESS	4	C@CPQCELL	CPool query cell entry pt
540	(21C)	ADDRESS	4	C#CPQCELL	CPool query call PC number
544	(220)	ADDRESS	4	C@CPQCREC	CPool query cell recovery
548	(224)	ADDRESS	4	C@CPQEXT	CPool query extent entry pt
552	(228)	ADDRESS	4	C#CPQEXT	CPool query extent PC numb
556	(22C)	ADDRESS	4	C@CPQXREC	CPool query extent recovery
560	(230)	ADDRESS	4	C@CPQPOOL	CPool query pool entry pt
564	(234)	ADDRESS	4	C#CPQPOOL	CPool query pool PC number
568	(238)	ADDRESS	4	C@CPQPREC	CPool query pool recovery
572	(23C)	ADDRESS	4	C@CPTERM	CPool termination
576	(240)	ADDRESS	4	CADDR@CPLTABS	CPool table of JES2 pools, not for $CALL, data only

Comment

MODULE HASCRQUE ROUTINES LISTED ALPHABETICALLY

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
580	(244)	ADDRESS	4	C@$RQUEACT	Activate service
584	(248)	ADDRESS	4	C@$RQUECMP	Wait for completion
588	(24C)	ADDRESS	4	C@$RQUEDEA	Deactivate service
592	(250)	ADDRESS	4	C@$RQUEEXE	Execute request
596	(254)	ADDRESS	4	C@$RQUEGET	Get request
600	(258)	ADDRESS	4	C@$RQUERET	Return request

Comment

Module HASCSAPI Routines listed alphabetically

End of Comment

604	(25C)	ADDRESS	4	C@CSPEOX	Scan SAPIDs for terminating TCB or memory

Comment

MODULE HASCSIJI ROUTINES LISTED ALPHABETICALLY

End of Comment

608	(260)	ADDRESS	4	C@DATASERV	JOB INFORMATION SERVICE

Comment

MODULE HASCSIRQ ROUTINES LISTED ALPHABETICALLY

End of Comment

612	(264)	ADDRESS	4	C@$DESTCHK	AUTHORIZE TRANSMIT TO DEST
616	(268)	ADDRESS	4	C@MCSFLUSH	MCS flush routine
620	(26C)	ADDRESS	4	C@SFNDSJB	Find current SJB
624	(270)	ADDRESS	4	C@TSCNVJB	CONVERT EXT JOB ID TO JOB NUM
628	(274)	ADDRESS	4	C@USERDEST	VERIFY DESTINATION
632	(278)	ADDRESS	4	C@USERSUB	USER/SUBTASK EXIT EFFECTOR
636	(27C)	ADDRESS	4	C@USRNEWND	Assign new node to dest
640	(280)	ADDRESS	4	C@WTALOGQ	Flush S35D Joblog queue

Comment

Module HASCSISC routines listed alphabetically

End of Comment

644	(284)	ADDRESS	4	C@CNVDEVID	Convert DEVID to EBCDIC
648	(288)	ADDRESS	4	C@CVDEVID	Process device ID to name conversion
652	(28C)	ADDRESS	4	C@PRJBCLD	Process job class info
656	(290)	ADDRESS	4	C@PRSPLIO	Process spool I/O info

Comment

Module HASCSJFA Routines Listed Alphabetically

End of Comment

660	(294)	ADDRESS	4	C@HSJFACC	MVS SJFACC Routine

Comment

Module HASCSJFS Routines Listed Alphabetically

End of Comment

664	(298)	ADDRESS	4	C@HASJFREQ	SJFREQ Service Routine
668	(29C)	ADDRESS	4	C@HASJIDST	IPADDR/DEST Process - CSJFS
672	(2A0)	ADDRESS	4	C@SJFSWBRD	SWB Read Service Routine
676	(2A4)	ADDRESS	4	C@SWBTUMRG	SWB Merge Service Routine
680	(2A8)	ADDRESS	4	C@TUXTRACT	TU extraction - HASCSJFS

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Module HASCSRAX routines listed alphabetically					
				End of Comment	
684	(2AC)	ADDRESS	4	C@GETJ2AUX	Access aux address space
688	(2B0)	ADDRESS	4	C@DELJ2AUX	Delete aux address space
				Comment	
MODULE HASCSRDS ROUTINES LISTED ALPHABETICALLY					
				End of Comment	
692	(2B4)	ADDRESS	4	C@$CBIO	CONTROL BLOCK I/O ROUTINE ADDR
696	(2B8)	ADDRESS	4	C@$DCTCHEK	Verify a DCT routine
700	(2BC)	ADDRESS	4	C@$FNDRIOT	FIND REUSEABLE SPIN IOT
704	(2C0)	ADDRESS	4	C@$IOTBLD	BUILD AN IOT ROUTINE
708	(2C4)	ADDRESS	4	C@$PDBFIND	FIND A PDDB ROUTINE
712	(2C8)	ADDRESS	4	C@$PDBNEXT	Find next PDDB same key
716	(2CC)	ADDRESS	4	C@$SDBCHEK	Verify a SDB/DCT routine
720	(2D0)	ADDRESS	4	C@$SDBFREE	FREE AN SDB
724	(2D4)	ADDRESS	4	C@$SDBINIT	INITIALIZE AN SDB
728	(2D8)	ADDRESS	4	C@$VERIFY	$VERIFY SERVICE ROUTINE ADDRESS
732	(2DC)	ADDRESS	4	C@DSNCMP	SYSIN/SYSOUT DATASET COMPRESS
736	(2E0)	ADDRESS	4	C@DSNVFY	SYSIN/SYSOUT DATASET VERIFY
740	(2E4)	ADDRESS	4	C@ENF58BLD	Build ENF58 parm lists
744	(2E8)	ADDRESS	4	C@HALCLASS	CHECK SYSOUT CLASS FOR HOLD RTN
748	(2EC)	ADDRESS	4	CADDR@HASPVTAB	$VERIFY control block table
752	(2F0)	ADDRESS	4	C@HCBCK	CHECKPOINT HASP CONTROL BLOCKS
756	(2F4)	ADDRESS	4	C@HCBFM	FREEMAIN CONTROL BLOCK STORAGE
760	(2F8)	ADDRESS	4	C@HCBGM	GETMAIN CONTROL BLOCK STORAGE
764	(2FC)	ADDRESS	4	C@HFCLSUB	FAKE CLOSE DATASETS
768	(300)	ADDRESS	4	C@HFCLTRNC	TRUNCATE A BUFFER ROUTINE
772	(304)	ADDRESS	4	C@HJSRETAB	REBUILD SDB TAB
776	(308)	ADDRESS	4	C@HONEWOUT	OPEN NEW OUTPUT DATASET RTN
780	(30C)	ADDRESS	4	C@HOOLDINP	OPEN OLD INPUT DATASET RTN
784	(310)	ADDRESS	4	C@HOOLDOUT	OPEN OLD OUTPUT DATASET RTN
788	(314)	ADDRESS	4	C@MTTRVAL	VALIDATE MTTR ROUTINE
792	(318)	ADDRESS	4	C@MTTR0VAL	Validate MTTR (R = 0 OK)
796	(31C)	ADDRESS	4	C@NJEHDRDU	NJE header read routine
800	(320)	ADDRESS	4	C@OLDJOE	Old JOE
804	(324)	ADDRESS	4	C@SIGIOU	Signature Rcd I/O Routine
808	(328)	ADDRESS	4	C@SYMTT	Generate SIGIO SYMREC rtn
812	(32C)	ADDRESS	4	C@USENF58	User environment ENF58 rtn
				Comment	
MODULE HASCSRIC ROUTINES LISTED ALPHABETICALLY					
				End of Comment	
816	(330)	ADDRESS	4	C@$$POST	POST HASP TASK
820	(334)	ADDRESS	4	C@$RACROUT	ISSUE SAF CALL
824	(338)	ADDRESS	4	C@$STRAK	ALLOCATE TRACK ADDRESS
828	(33C)	ADDRESS	4	C@$SVJLOK	GET JOB COM QUEUES LOCK RTN
832	(340)	ADDRESS	4	C@$SVJLOK2	Secondary locking routine
836	(344)	ADDRESS	4	C@$SVJTEST	TEST FOR JCQ LOCK OWNERSHIP
840	(348)	ADDRESS	4	C@$SVJUNLK	RELEASE JOB COM QUEUES LOCK RTN
844	(34C)	ADDRESS	4	C@$TRACER	EVENT TRACE FACILITY
848	(350)	ADDRESS	4	C@$TRAREL	$TRACE RELEASE ENTRY POINT
852	(354)	ADDRESS	4	C@$VFLI	SIMULATE VFL INSTRUCTION
856	(358)	ADDRESS	4	C@$XMPOST	CROSS MEMORY POST ROUTINE
860	(35C)	ADDRESS	4	C@BERTREAD	CSA $DOGBERT Fetch support

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
864	(360)	ADDRESS	4	C@BLOBMNT	2nd phase BLOB commit
868	(364)	ADDRESS	4	C#BLOBMNT	2nd phase BLOB commit PC #
872	(368)	ADDRESS	4	C@BLOBMNTA	2nd phase BLOB commit ARR
876	(36C)	ADDRESS	4	C@CATBFREE	Free unused $CATBERT
880	(370)	ADDRESS	4	C@CATREAD	CSA $DOGCAT Fetch support
884	(374)	ADDRESS	4	C@CKPTVERS	Obtain/release ckpt version
888	(378)	ADDRESS	4	C@FIFODEQ	Remove elmnt from FIFO que
892	(37C)	ADDRESS	4	C@FIFOENQ	Place element on FIFO queue
896	(380)	ADDRESS	4	C@GRPASGN	ASSIGN GROUPING TOKEN
900	(384)	ADDRESS	4	C@HCNVTIME	USED BY C/T FOR A TOD CONVERSION ROUTINE IN HASCSRIC
904	(388)	ADDRESS	4	C@HKYMERGE	MERGE OUTPUT JCL KEYWORDS RTN
908	(38C)	ADDRESS	4	C@HOSWB	GET SWB ERROR ROUTINE
912	(390)	ADDRESS	4	C@HSJFLSP	FREE SJF STORAGE ROUTINE
916	(394)	ADDRESS	4	C@JQEREAD	CSA $DOGJQE Fetch support
920	(398)	ADDRESS	4	C@PDDBUPD	Update PDDD
924	(39C)	ADDRESS	4	C@PPSOSJB	PURGE PSO FROM SJB ROUTINE
928	(3A0)	ADDRESS	4	C@PREWTO	WTO PREPROCESSING ROUTINE
932	(3A4)	ADDRESS	4	C@PRTAUTH	JESNEWS & SYSOUT DATA SET AUTHORIZATION
936	(3A8)	ADDRESS	4	C@PSQUEUE	PSO QUEUE ROUTINE
940	(3AC)	ADDRESS	4	C@RECABORT	PSO,STATUS,CANCEL recovery
944	(3B0)	ADDRESS	4	C@RRWTORTN	Issue chain of WTO msgs
948	(3B4)	ADDRESS	4	C@SSVXDEF	EXIT DEFINITION ROUTINE
952	(3B8)	ADDRESS	4	C@TBADTGBQ	Queue bad TGB to HASPSPOL
956	(3BC)	ADDRESS	4	C@TSETLOCK	GET LOCAL AND CMS LOCKS ROUTINE
960	(3C0)	ADDRESS	4	C@TSFRELOK	FREE LOCAL AND CMS LOCKS RTN
964	(3C4)	ADDRESS	4	C@WSCREAD	CSA $WSCJQE Fetch support

Comment

MODULE HASCSRJB ROUTINES LISTED ALPHABETICALLY

End of Comment

968	(3C8)	ADDRESS	4	C@$JBIDBLD	JOB ID BUILD ROUTINE
972	(3CC)	ADDRESS	4	C@$QLOCC	Locate JQE for a job #
976	(3D0)	ADDRESS	4	C@$SJBFIND	FIND AN SJB
980	(3D4)	ADDRESS	4	C@$SJBLOCK	LOCK AN SJB
984	(3D8)	ADDRESS	4	C@$SJBRQ	REQUEUE AN SJB
988	(3DC)	ADDRESS	4	C@$SJBUNLK	UNLOCK AN SJB
992	(3E0)	ADDRESS	4	C@HETSOUT	SAVES STATUS ON INTERRUPT
996	(3E4)	ADDRESS	4	C@SJBFREE	FREE AN SJB
1000	(3E8)	ADDRESS	4	C@SJBINIT	CREATE AN SJB
1004	(3EC)	ADDRESS	4	C@SJIOBINT	SJIOB initialization

Comment

Module HASCSRJM routines listed alphabetically

End of Comment

1008	(3F0)	ADDRESS	4	C@GETJ2MON	Access monitor addr space
1012	(3F4)	ADDRESS	4	C@DELJ2MON	Delete monitor addr space

Comment

Module HASCUBSR routines listed alphabetically

End of Comment

1016	(3F8)	ADDRESS	4	C@UBSRB	Unwritten buffer SRB rtn

Comment

Module HASCXJCT routines listed alphabetically

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1020	(3FC)	ADDRESS	4	C@$JCTXADD	Add $JCT extension
1024	(400)	ADDRESS	4	C@$JCTXEXP	Expand $JCT extension
1028	(404)	ADDRESS	4	C@$JCTXGET	Locate $JCT extension
1032	(408)	ADDRESS	4	C@$JCTXREM	Delete $JCT extension

Comment

RESERVED FOR FUTURE USE FIELDS--(LAST ENTRIES IN CADDR)

End of Comment

1036	(40C)	ADDRESS	4	CADDREQE (0)	End of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
1036	(40C)	ADDRESS	4	(4)	Reserved for future use

Comment

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.

End of Comment

1052	(41C)	ADDRESS	4	C@IEAVH709	MVS MCS flush routine
1052	(41C)	X'420'	0	CADDRLEN	"*-CADDR" LENGTH OF THE CADDR TABLE

$CADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
C#BLOBMNT	364		C@$GSINIT	C0	
C#CPBUILD	1D0		C@$GSTERM	C4	
C#CPDELETE	1DC		C@$HGFMAIN	18C	
C#CPEXPAND	1E8		C@$IOTBLD	2C0	
C#CPFREE	1F4		C@$JBIDBLD	3C8	
C#CPGET	200		C@$JCTXADD	3FC	
C#CPMODIFY	210		C@$JCTXEXP	400	
C#CPQCELL	21C		C@$JCTXGET	404	
C#CPQEXT	228		C@$JCTXREM	408	
C#CPQPOOL	234		C@$MLTFBUF	190	
C#PROTENDR	100		C@$MSDDUMP	194	
C#PROTGET	10C		C@$PDBBLD	20	
C#PROTPNT	124		C@$PDBDEFS	24	
C#PROTPUT	118		C@$PDBFIND	2C4	
C#PROTSRB	130		C@$PDBNEXT	2C8	
C@$$POST	330		C@$QLOCC	3CC	
C@$ALESERV	6C		C@$RACROUT	334	
C@$ALLDAU	14		C@$RQUEACT	244	
C@$CBIO	2B4		C@$RQUECMP	248	
C@$CRETRN	174		C@$RQUEDEA	24C	
C@$CSAVE	178		C@$RQUEEXE	250	
C@$DCTCHEK	2B8		C@$RQUEGET	254	
C@$DESTCHK	264		C@$RQUERET	258	
C@$DSCTBLD	1C		C@$SDBCHEK	2CC	
C@$FBUFRTN	17C		C@$SDBFREE	2D0	
C@$FNDRIOT	2BC		C@$SDBINIT	2D4	
C@$FRECEL	180		C@$SJBFIND	3D0	
C@$GASSIGN	BC		C@$SJBLOCK	3D4	
C@$GETCEL	184		C@$SJBRQ	3D8	
C@$GETHP	188		C@$SJBUNLK	3DC	
C@$GKGET	B0		C@$SSIBEGN	198	
C@$GKINIT	B4		C@$SSIEND	19C	
C@$GKTERM	B8		C@$STRAK	338	

Name	Hex Offset	Hex Value
C@$SVJLOK	33C	
C@$SVJLOK2	340	
C@$SVJTEST	344	
C@$SVJUNLK	348	
C@$SYMREC	1A0	
C@$TRACER	34C	
C@$TRAREL	350	
C@$UALDAU	18	
C@$UCBINDX	168	
C@$VERIFY	2D8	
C@$VFLI	354	
C@$XMPOST	358	
C@ABEND722	CC	
C@ARMEOJ	10	
C@BERTREAD	35C	
C@BLOBMNT	360	
C@BLOBMNTA	368	
C@CATBFREE	36C	
C@CATREAD	370	
C@CKPTVERS	374	
C@CNIN2OUT	D0	
C@CNVDEVID	284	
C@CPBREC	1D4	
C@CPBUILD	1CC	
C@CPDELETE	1D8	
C@CPDREC	1E0	
C@CPEXPAND	1E4	
C@CPFREC	1F8	
C@CPFREE	1F0	
C@CPGET	1FC	
C@CPGREC	204	
C@CPINIT	208	
C@CPJCLINI	8	
C@CPJCLTRM	C	
C@CPMODIFY	20C	
C@CPMREC	214	
C@CPQCELL	218	
C@CPQCREC	220	
C@CPQEXT	224	
C@CPQPOOL	230	
C@CPQPREC	238	
C@CPQXREC	22C	
C@CPTERM	23C	
C@CPXREC	1EC	
C@CSPEOX	25C	
C@CVDEVID	288	
C@DATASERV	260	
C@DELJ2AUX	2B0	
C@DELJ2MON	3F4	
C@DSNCMP	2DC	
C@DSNVFY	2E0	
C@DSOPEN	50	
C@DSPSERV	70	
C@ENFISSUE	74	
C@ENF58BLD	2E4	
C@EOBLOB	16C	
C@EOTFDCON	170	
C@FIFODEQ	378	
C@FIFOENQ	37C	
C@FINDMOD	1A4	
C@FREPBLOK	D4	
C@FRESDBLK	D8	
C@FRETRE	1A8	
C@GETJ2AUX	2AC	
C@GETJ2MON	3F0	

Name	Hex Offset	Hex Value
C@GETPBLOK	DC	
C@GETSDBLK	E0	
C@GETTRE	1AC	
C@GRPASGN	380	
C@HALCLASS	2E8	
C@HALFDSNR	28	
C@HALJMERG	2C	
C@HALOCRP	30	
C@HALOPDBI	34	
C@HALSSALP	38	
C@HALUNAL	3C	
C@HAMNULL	E4	
C@HAMPSTER	E8	
C@HAOUTSCN	40	
C@HASJFREQ	298	
C@HASJIDST	29C	
C@HASPAMI	EC	
C@HCBCK	2F0	
C@HCBFM	2F4	
C@HCBGM	2F8	
C@HCNVTIME	384	
C@HETSOUT	3E0	
C@HFCLSUB	2FC	
C@HFCLTRNC	300	
C@HFEXJESL	54	
C@HFEXSPIN	58	
C@HFJDLINE	144	
C@HFJLOGTM	140	
C@HFJOBLOG	13C	
C@HFOPSUB	5C	
C@HINTRDR	F0	
C@HIOTSPIN	44	
C@HJE000	148	
C@HJSMAKSL	14C	
C@HJSRETAB	304	
C@HKYMERGE	388	
C@HNDUPDTE	48	
C@HOCSETUP	60	
C@HONEWOUT	308	
C@HOOLDINP	30C	
C@HOOLDOUT	310	
C@HOSWB	38C	
C@HPOSTIR	4C	
C@HSJFACC	294	
C@HSJFLSP	390	
C@HWAITBUF	F4	
C@IEAVH709	41C	
C@JBFOUND	150	
C@JBSELECT	154	
C@JOBSTATS	158	
C@JQEREAD	394	
C@JSOPSSDS	15C	
C@JSREOPEN	160	
C@MBSCATTN	1B0	
C@MCSFLUSH	268	
C@MRGSWBS	164	
C@MTTRVAL	314	
C@MTTR0VAL	318	
C@NJEHDRDU	31C	
C@OBTGBAT	F8	
C@OLDJOE	320	
C@PDDBUPD	398	
C@PPSOSJB	39C	
C@PRENRREC	104	
C@PREWTO	3A0	

Name	Hex Offset	Hex Value
C@PRGETREC	110	
C@PRJBCLD	28C	
C@PROTENDR	FC	
C@PROTGET	108	
C@PROTPNT	120	
C@PROTPUT	114	
C@PROTSRB	12C	
C@PRPNTREC	128	
C@PRPUTREC	11C	
C@PRSPLIO	290	
C@PRSRBREC	134	
C@PRTAUTH	3A4	
C@PSQUEUE	3A8	
C@RECABORT	3AC	
C@RECOVERY	1B4	
C@RELGBAT	138	
C@RRWTORTN	3B0	
C@SFNDSJB	26C	
C@SIGIOU	324	
C@SJBFREE	3E4	
C@SJBINIT	3E8	
C@SJFSWBRD	2A0	
C@SJIOBINT	3EC	
C@SSIFINE	1B8	
C@SSISESTA	1BC	
C@SSISETUP	1C0	
C@SSVCLSC	64	
C@SSVOPNC	68	
C@SSVXDEF	3B4	
C@SWBTUMRG	2A4	
C@SYMTT	328	
C@TBADTGBQ	3B8	
C@TSCNVJB	270	
C@TSETLOCK	3BC	
C@TSFRELOK	3C0	
C@TUXTRACT	2A8	
C@UBSRB	3F8	
C@USENF58	32C	
C@USERDEST	274	
C@USERSUB	278	
C@USRNEWND	27C	
C@WSCREAD	3C4	
C@WTALOGQ	280	
CADDR	0	
CADDR#ENF35	7C	
CADDR#ENF41CP	8C	
CADDR#ENF41GL	84	
CADDR#ENF42	94	
CADDR#ENF56	9C	
CADDR#ENF57CM	A4	
CADDR#ENF57RV	AC	
CADDR@CNTBITAB	1C4	
CADDR@CPLTABS	240	
CADDR@ENF35	78	
CADDR@ENF41CP	88	
CADDR@ENF41GL	80	
CADDR@ENF42	90	
CADDR@ENF56	98	
CADDR@ENF57CM	A0	
CADDR@ENF57RV	A8	
CADDR@HAMAVT	C8	
CADDR@HASPVTAB	2EC	
CADDR@OCOOFFST	1C8	
CADDRENFBEG	78	
CADDRENFNUM	AC	7
CADDREQE	40C	
CADDREQS	8	
CADDRID	0	C3C1C4C4
CADDRLEN	41C	420
CADDRVNM	4	7
CADDRVSN	4	

$CAT Programming Interface information

Programming Interface information

$CAT

End of Programming Interface information

$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') multipying by the CATLEN equate, and adding the contents of $CATABLE.

$CAT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CAT	HASP CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	BITSTRING	1	CATJOBFL	HASP JOB FLAGS, COPIED INTO THE JCTJOBFL FIELD, FLAG VALUES ARE DEFINED IN $JCT
1	(1)	BITSTRING	1	CATJBOPT	HASP JOB OPTIONS, COPIED INTO THE JCTJBOPT FIELD, FLAG VALUES ARE DEFINED IN $JCT
2	(2)	CHARACTER	2	CATPROCN	PROCEDURE LIBRARY NUMBER
4	(4)	BITSTRING	1	CATSMFLG	HASP SMF FLAGS, COPIED INTO THE JCTSMFLG FIELD, FLAG VALUES ARE DEFINED IN $JCT
5	(5)	CHARACTER	3	CATPERFM	DEFAULT PERFORMANCE GROUP

Comment

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.

End of Comment

8	(8)	SIGNED	4	CATCPBGN (0)	START OF CONVERTER PARMS
8	(8)	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
8	(8)	X'3'	0	CATCALL	"CATCNAME+CATCNUMB" JOB AND NUMBER REQUIRED
		.... .1..		CATCSWAL	"B'00000100'" SWA ABOVE 16M LINE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
9	(9)	CHARACTER	2		RESERVED
11	(B)	CHARACTER	8	CATCTIME (0)	DFLT JOB STEP INTL TIME
11	(B)	CHARACTER	6	CATCMNTE	MAXIMUM MINUTES
17	(11)	CHARACTER	2	CATCSECS	MAXIMUM SECONDS
19	(13)	CHARACTER	5	CATCREGN (0)	DEFAULT JOB STEP REGION
19	(13)	CHARACTER	4	CATCRGN	NUMERIC SPECIFICATION
23	(17)	CHARACTER	1	CATCRGA	KILOBYTES OR MEGABYTES SPECIFICATION
24	(18)	CHARACTER	1	CATCMND	COMMAND DISPOSITION
24	(18)	X'F0'	0	CATCEXEC	"C'0'" PASS THE COMMAND THROUGH
24	(18)	X'F1'	0	CATCDSPL	"C'1'" DISPLAY AND THEN PASS CMND
24	(18)	X'F2'	0	CATCVER	"C'2'" ASK OPERATOR DISPOSITION
24	(18)	X'F3'	0	CATCIGN	"C'3'" IGNORE THE COMMAND
25	(19)	CHARACTER	1	CATCBLP	BYPASS LABEL PROCESSING OPT.
		1		CATCBLPY	"B'00000001'" PROCESS BYPASS LABEL PARM
26	(1A)	CHARACTER	1	CATCOCG (4)	OPERATOR COMMAND GROUP
		.... .1..		CATCGSYS	"B'00000100'" GROUP 1 COMMANDS (SYS)
		.... ..1.		CATCGIO	"B'00000010'" GROUP 2 COMMANDS (I/O)
		1		CATCGCON	"B'00000001'" GROUP 3 COMMANDS (CONS)
26	(1A)	X'7'	0	CATCGALL	"CATCGSYS+CATCGIO+CATCGCON" ALL GROUPS
30	(1E)	CHARACTER	1	CATCLJCL	DEFAULT MSGLEVEL, JCL LISTED IF NO MSGLEVEL
31	(1F)	CHARACTER	1	CATCTMSG	ALLOCATION TERMINATION MSGS
31	(1F)	X'8'	0	CATCONVP	"CATCPBGN,*-CATCPBGN" FULL CONVERTER PARAMETERS
32	(20)	BITSTRING	8		Reserved for potential expansion of IEFCNPRM

Comment

End of converter parameters mapped by IEFCNPRM

End of Comment

40	(28)	BITSTRING	1	CATOPSWT	CONVERTER OPTION SWITCHES
41	(29)	BITSTRING	1	CATFLAG1	NORMAL OUTDISP FOR JESDS
		1...		CAT1CDP	"B'10000000'" CONDITIONALLY PURGE OUTPUT FOR JOBS IN THIS CLASS
41	(29)	X'10'	0	CAT1NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
41	(29)	X'8'	0	CAT1NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
41	(29)	X'4'	0	CAT1NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
41	(29)	X'2'	0	CAT1NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
41	(29)	X'1'	0	CAT1NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
42	(2A)	BITSTRING	1	CATFLAG2	ABNORMAL OUTDISP FOR JESDS
42	(2A)	X'10'	0	CAT2AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
42	(2A)	X'8'	0	CAT2AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
42	(2A)	X'4'	0	CAT2AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
42	(2A)	X'2'	0	CAT2AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
42	(2A)	X'1'	0	CAT2AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
43	(2B)	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
44	(2C)	CHARACTER	8	CATXBM	PROCNAME FOR XBM/2 JOB
52	(34)	CHARACTER	8	CATCLASS	Job class
60	(3C)	SIGNED	4	CATMAXJ	Max executing jobs in this class in the JESPlex

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
Comment					
---------- CATCURJ is altered by $QBUSY, QADCHAIN and QDECHAIN only ----------					
End of Comment					
64	(40)	SIGNED	4	CATCURJ	Current executing jobs in this class in the JESPlex
68	(44)	SIGNED	4	CATMAXT	TOD when Max executing jobs reached
72	(48)	SIGNED	4	CATJQER	Number of JQEs waiting for timer reconciliation (only present in CATs with CAT3RECO on)
76	(4C)	SIGNED	4	CATIMER	TOD when queue held
80	(50)	ADDRESS	4	CATQHDI	First JQE in class; CKPT only (offset in R4 mode and index in R12 mode)
84	(54)	CHARACTER	16	CATSCHED	Default SCHENV, JOB classes only
100	(64)	CHARACTER	1	CATMCLAS	Default message class, TSU and STC classes only
Comment					

START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES log control
02 ACRONYM: $JESLOG
01 MACRO NAME: $JESLOG
01 DSECT NAME: JLG
01 LABEL PREFIX: JLG
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: "None"
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: n/a
02 KEY: n/a
02 RESIDENCY:
This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.
01 SIZE:
See JLGLEN
01 CREATED BY:
See "hosting" control blocks
01 POINTED TO BY:
No pointers
01 SERIALIZATION:
None required
01 FUNCTION:
The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOBLG) is to be supported.
01 METHOD OF ACCESS:
02 ASM:
Specify $JESLOG as a positional operand on a $MODULE macro instruction to cause this mapping to be generated. A USING of the following form is used: USING JLG,xxxx where xxxx is the label within the "hosting" block where the JESLOG

```
      Offsets
Dec       Hex     Type/Value        Len    Name (Dim)        Description
      mapping begins. For example when referencing the
      JESLOG within the JCT, code USING JLG,JCTJLOG
02 PL/X:
      This mapping is not available for compilations.
01 USED BY:
     Spin processing for the the two JESLOG data sets use
     the information for their decisions.
01 DELETED BY:
     See "hosting" blocks.
01 FREQUENCY:
     See "hosting" blocks
01 RESTRICTIONS:
     None
      END OF SPECIFICATIONS
01 CHANGE ACTIVITY:
 $Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs
 $Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support
01 A000000-999999 CREATED for JES2 OS/390 Release 12
|_____________________________________ End of Comment _____________________________________|
 101      (65)    BITSTRING         6    CATJLOG           JES log control
 112      (70)    DBL WORD          8    (0)               Ensure double word bdy
 112      (70)    X'70'             0    CATLEN            "*-CAT" Length of CAT
 112      (70)    X'70'             0    CATLLEN           "*-CAT" Full length of CAT
|_____________________________________ Comment _____________________________________|

      SPECIAL CLASS DEFINITIONS

|_____________________________________ End of Comment _____________________________________|
                  11.1  ....          CATSTCCL          "X'D0'" SYSTEM TASK CLASS
                  111.  ....          CATTSUCL          "X'E0'" FOREGROUND TIME SHARING CLASS
 112      (70)    X'5B'             0    CATSTCID          "C'$'" SYSTEM TASK DISPLAY ID
 112      (70)    X'7C'             0    CATTSUID          "C'@'" FORGROUND TIME SHARING DISPLAY ID
                  .1..  ....          CATNENT           "X'FF'-X'C0'+1" NUMBER OF ENTRIES IN CAT
```

$CAT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CAT	0		CATCRGN	13	
CATCACCT	8		CATCSECS	11	
CATCALL	8	3	CATCSWAL	8	4
CATCBLP	19		CATCTIME	B	
CATCBLPY	19	1	CATCTMSG	1F	
CATCDSPL	18	F1	CATCURJ	40	
CATCEXEC	18	F0	CATCVER	18	F2
CATCGALL	1A	7	CATFLAG1	29	
CATCGCON	1A	1	CATFLAG2	2A	
CATCGIO	1A	2	CATFLAG3	2B	
CATCGSYS	1A	4	CATIMER	4C	
CATCIGN	18	F3	CATJBOPT	1	
CATCLASS	34		CATJLOG	65	
CATCLJCL	1E		CATJOBFL	0	
CATCMND	18		CATJQER	48	
CATCMNTE	B		CATLEN	70	70
CATCNAME	8	1	CATLLEN	70	70
CATCNONE	8	0	CATMAXJ	3C	
CATCNUMB	8	2	CATMAXT	44	
CATCOCG	1A		CATMCLAS	64	
CATCONVP	1F	8	CATNENT	70	40
CATCPBGN	8		CATOPSWT	28	
CATCREGN	13		CATPERFM	5	
CATCRGA	17		CATPROCN	2	

$CAT Cross Reference

Name	Hex Offset	Hex Value
CATQHDI	50	
CATSCHED	54	
CATSMFLG	4	
CATSTCCL	70	D0
CATSTCID	70	5B
CATTSUCL	70	E0
CATTSUID	70	7C
CATXBM	2C	
CAT1CDP	29	80
CAT1NODH	29	4
CAT1NODK	29	2
CAT1NODL	29	1
CAT1NODP	29	10
CAT1NODW	29	8
CAT2AODH	2A	4
CAT2AODK	2A	2
CAT2AODL	2A	1
CAT2AODP	2A	10
CAT2AODW	2A	8
CAT3PSEU	2B	20
CAT3RBLD	2B	10
CAT3RECO	2B	8
CAT3SINV	2B	4
CAT3SPEC	2B	40
CAT3WLM	2B	80

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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

Comment

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.

End of Comment

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
8	(8)	SIGNED	4	CBRMAPS (0)	--+ Table of BERT maps
8	(8)	ADDRESS	4	CBRMINT	| Internal CB (always zero)
12	(C)	SIGNED	1	CBRNINT	| Number of entries (always 0)
13	(D)	BITSTRING	1	CBRINTF	| Flag byte
14	(E)	SIGNED	2	CBRINTL	| Max size (always zero)
16	(10)	SIGNED	2	CBRINTS	| Bytes in BERTs
18	(12)	SIGNED	2		| Reserved
20	(14)	ADDRESS	4	CBRMJQE	| JQE extensions
24	(18)	SIGNED	1	CBRNJQE	| Number of entries

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
25	(19)	BITSTRING	1	CBRJQEF	| Flag byte
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

Comment

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.

End of Comment

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

Offsets Dec	Hex	Type/Value	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...		BRTRF1OL	"B'10000000'" Offset overlaps allowed
		.1..		BRTRF1J2	"B'01000000'" Type is JES2-defined
14	(E)	X'F'	0	BRTRFILL	"BRTRFCLI+1,1" Fill character
14	(E)	X'12'	0	BRTRSIZE	"*-BRTRANS" Length of a table entry

$CATBERT Cross Reference

Name	Hex Offset	Hex Value
BRTRANS	0	
BRTRCBT	9	
BRTRCOFF	A	
BRTRFILL	E	F
BRTRFLG1	D	
BRTRF1J2	D	40
BRTRF1OL	D	80
BRTRID	8	
BRTRLEN	C	
BRTRMAXI	8	FD
BRTRNAME	0	
BRTRSIZE	E	12
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
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 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 Map

Offsets					
Dec	Hex	Type/Value	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

$CCE Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	X'18'	0	CCEL	"*-CCE"

$CCE Cross Reference

Name	Hex Offset	Hex Value
CCE	0	
CCECCE	8	
CCECLOC	C	
CCECSIZ	6	
CCEFLAG1	5	
CCEID	0	C3C3C540
CCEKEY1	10	
CCEKEY2	14	
CCEL	14	18
CCEVERSN	4	1
CCEVRSN	4	
CCE1PRIM	5	80

$CCW Programming Interface information

Programming Interface information

$CCW

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		

Comment

```
,$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
```

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description

Comment

```
     START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: CCW mapping and operation code equates
02 ACRONYM: $CCW
01 MACRO NAME: $CCW
01 DSECT NAME: None
01 LABEL PREFIX: None
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: None
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: N/A
01 SIZE: N/A
01 CREATED BY: N/A
01 POINTED TO BY: N/A
01 SERIALIZATION: N/A
01 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.
01 METHOD OF ACCESS:
02 ASM:
     Specify $CCW as a positional operand on a $MODULE
     macro instruction to cause this mapping to be
     generated.
02 PL/X:
     This mapping is not available for compilations.
01 USED BY:
    Used throughout JES2 by processes that build channel
    programs for EXCP and EXCPVR.
01 DELETED BY: N/A
01 FREQUENCY: N/A
01 RESTRICTIONS:
    None
     END OF SPECIFICATIONS
01 CHANGE ACTIVITY:
       @311 MVS/SP-JES2 VERSION 3 RELEASE 1 LEVEL 1
            (SP3.1.1, HJE3311)
       @311XX MAINTENANCE MERGED INTO MVS/SP-JES2 RELEASE 3.1.1
            (MODULE HASPDOC DOCUMENTS THE APAR NUMBERS)
 $R10LHIO=PERFDATA HJE7703 990930 TJW: HAM I/O performance
 $Z04LHIO=HAMIO HJE7707 010914 TJW: HAM I/O performance
 A000000-999999 CREATED FOR JES2 PRE SP
01 NOTES:
    None
      Basic CCW fields (format 0)
```

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

Basic CCW fields (format 1)

End of Comment

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

Comment

BASIC COMMAND CODES

End of Comment

		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

Comment

CCW FLAG VALUES

End of Comment

		1...		DC	"X'80'" DATA CHAINING
		.1..		CC	"X'40'" COMMAND CHAINING
		..1.		SLI	"X'20'" SURPRESS INCORRECT LENGTH
		...1		SKIP	"X'10'" SUPRESS DATA TRANSFER
		.... 1...		PCI	"X'08'" PGM CONTROLLED INTERRUPT
		.... .1..		IDA	"X'04'" CHANNEL INDIRECT ADDRESSING

Comment

DIRECT ACCESS DEVICE -- CONTROL COMMANDS

End of Comment

		..1. 1.11		ORIENT	"X'28'+CNTRL" ORIENT - (2305 0NLY)
		...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		LOCRCD	"X'44'+CNTRL" LOCATE RECORD - (EXT. C-K-D)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		Direct Access Device -- Locate record operators			
				End of Comment	
		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
				Comment	
		Direct Access Device -- Track operations			
				End of Comment	
		1.1. .11.		READTRD	"X'A4'+READ" Read track data
		1.1. .1.1		WRITETRD	"X'A4'+WRITE" Write track data
				Comment	
		DIRECT ACCESS DEVICE -- SEARCH COMMAND MODIFIERS			
				End of Comment	
		..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)
				Comment	
		DIRECT ACCESS DEVICE -- SENSE COMMAND MODIFIERS			
				End of Comment	
		1..1		RSVDISK	"X'90'" DEVICE RESERVE
		1.11		RLSDISK	"X'B0'" DEVICE RELEASE
				Comment	
		DIRECT ACCESS DEVICE -- FIELD MODIFIERS			
				End of Comment	
		...1 1...		HA	"X'18'" HOME ADDRESS FIELD
		...1		CNT	"X'10'" COUNT (ID) FIELD
		...1		ID	"X'10'" ID (COUNT) FIELD
		...1 .1..		REC0	"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...		MT	"X'80'" MULTI-TRACK OPERATION
				Comment	
		PRINTER DEVICE -- CONTROL COMMANDS			
				End of Comment	
		1111 1.11		LOADUCS	"X'F8'+CNTRL" LOAD UCS BUFFER
		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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		111. 1.11		GATEUCS	"X'E8'+CNTRL" GATE/LOAD UCS BUFFER
		.111 ..11		BLKDATAC	"X'70'+CNTRL" BLOCK DATA CHECK
		.111 1.11		ALWDATAC	"X'78'+CNTRL" ALLOW DATA CHECK
		.11. ..11		LOADFCB	"X'60'+CNTRL" LOAD FCB
		.11. 1.11		RAISCOVR	"X'68'+CNTRL" RAISE COVER

Comment

PRINTER DEVICE -- READ COMMANDS

End of Comment

		.... ..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

Comment

PRINTER DEVICE -- SPACING AND CHANNEL MODIFIERS

End of Comment

		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

Comment

NON-IMPACT PRINTER DEVICE (3800) -- CONTROL COMMANDS

End of Comment

		..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
		...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.

Comment

NON-IMPACT PRINTER DEVICE (3800) -- SPECAIL WRITE COMMANDS

End of Comment

		..1. .1.1		LDCHARMD	"X'24'+WRITE" LOAD CHARACTER MODIFICATION

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..11 .1.1		LDCOPYMD	"X'34'+WRITE" LOAD COPY MODIFICATION

$CCW Cross Reference

Name	Hex Offset	Hex Value
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
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
LDCHARMD	0	25
LDCOPYMD	0	35
LDCOPYNO	0	23
LOADFCB	0	63
LOADUCS	0	FB
LOADUSCF	0	F3
LOADWCGM	0	53
LOCRCD	0	47
LROFMT	0	3
LROREAD	0	6
LRORTRAK	0	C
LROWRITE	0	1
LROWTRAK	0	B
MARKFORM	0	17
MT	0	80
NOP	0	3
OFFSTACK	0	7
ORIENT	0	2B
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
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
TIC	0	8
UNFLDUCS	0	23
VARYSNS	0	27
WRITE	0	1
WRITEIO	0	5
WRITETRD	0	A5

$CHK Programming Interface information

Programming Interface information

$CHK

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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

Comment

```
-------------------------------------------------------------
   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)
-------------------------------------------------------------
```

End of Comment

104	(68)	CHARACTER	4	CHKJID	Eyecatcher
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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description

Comment

```
 %CHKPRO: ;
    START OF SPECIFICATIONS
01 Descriptive name: JES FSI checkpoint record area
02 Acronym: IAZCHK
01 Macro name: IAZCHK
01 DSECT name: IAZCHK or CHK
01 Label prefix: CHK
01 Component ID: JES Common (SC141)
01 External classification: PSPI
01 End of external classification:
01 Eye-catcher: 'CHK '
02 Offset: CHKID-CHK
02 Length: L'CHKID
01 Storage attributes:
02 Subpool: Caller
02 Key: Any
02 Residency:
    Virtual and real storage are anywhere.
01 Size:
   See CHKLEN
01 Created by:
   Caller of FSIREQ service
01 Pointed to by:
   GDSCKPA field of the IAZFSIP data area when
     FSIREQ REQUEST=FSIGDS
   CHKADR field of the IAZFSIP data area when
     FSIREQ REQUEST=FSICKPT
01 Serialization:
   None required
01 Function:
   This macro maps the data area describing the dataset
   information needed to understand the progress being
   made on the dataset by the processing FSA when a
   significant point in logic was reached. This
   information is used if the processing needs to be
   restarted, for example, a printer is repositioned
   and needs to resume work on a piece of output.
01 Method of access:
02 ASM:
    IAZCHK DSECT=YES|NO
      DSECT=YES - Provided DSECT for IAZCHK
      DSECT=NO - Provides storage definition for IAZCHK
02 PL/X:
      %DCL CHKPTR PTR
      %INCLUDE SYSLIB(IAZCHK)
01 Used by:
   Functional Subsystem Interface
01 Deleted by:
   Caller of FSIREQ service
01 Frequency:
    1 per call to the Functional Subsystem Interface
01 Restrictions:
   None
    END OF SPECIFICATIONS
 01 CHANGE ACTIVITY:
            MVS/SP RELEASE 3 LEVEL 3 (SP1.3.3, JBB1329)
```

```
   $VC1PXXX=PTM HJE5530 950915 VLC: BCP PTM xxx Ext Classifi
   $R04LWLM=WLM HJE6604 970317 J_K2: Misc fixes
   $R04P498=WLM HJE6604 970331 J_S1:
   A000000-999999 CREATED FOR MVS 1.3.3
01 NOTES:
    None
  %GOTO CHKDCL;
```

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	DBL WORD	8	IAZCHK (0)	
128	(80)	X'80'	0	CHK	"IAZCHK" 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"
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	DATA BUFFER SPOOL ADDR (MTTR)
156	(9C)	BITSTRING	4	CHKIOTTC	IOT TRACK ADDR (MTTR)
160	(A0)	BITSTRING	1	CHKCOPYC	CURRENT COPY NUMBER
161	(A1)	BITSTRING	1	CHKBOFF	CURRENT OFFSET INTO TRACKCELL
162	(A2)	BITSTRING	1	CHKCPYG	CURRENT OFFSET INTO COPY GROUP
163	(A3)	BITSTRING	1	CHKTNDS	TOTAL JOE DATASET COUNT

Comment

```
KEEP NEXT TWO FIELDS TOGETHER FOR $DU COMMAND
```

End of Comment

164	(A4)	SIGNED	4	CHKCRECN	CURRENT RECORD NUMBER
168	(A8)	SIGNED	4	CHKCPAGN	CURRENT PAGE NUMBER
168	(A8)	X'88'	0	CHKDATA	"CHKJESWK,*-CHKJESWK" CHK DATA AREA
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	2		Reserved for future use
186	(BA)	SIGNED	2	CHKPPHPC	PDDB PHYSICAL PAGE COUNT
200	(C8)	BITSTRING	1		Reserved
201	(C9)	BITSTRING	4	CHKRBATA	DATA BUFFER TRACK ADDRESS
205	(CD)	BITSTRING	3	CHKRBARN	RECORD NUMBER WITHIN BUFFER
256	(100)	SIGNED	4	(0)	PRESERVE FULL WORD ALIGNMENT
256	(100)	X'100'	0	CHKAZLNG	"*-CHKDSECT" Length of DSECT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		FLAG EQUATES FOR $#CHK MACRO INLINE PARAMETER LIST			
				End of Comment	
		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
				Comment	
		FLAG EQUATES FOR $#ALCHK MACRO INLINE PARAMETER LIST			
				End of Comment	
		1...		CHK2WRI	"B'10000000'" WRIOT=YES OPTION $#ALCHK MACRO
		.1..		CHK2WRJ	"B'01000000'" WRJCT=YES OPTION $#ALCHK MACRO
		..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

$CHK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CHK	80	80	CHKPPHPC	BA	
CHKAZLNG	100	100	CHKPROD	E8	
CHKBOFF	A1		CHKRBA	C8	
CHKCOPY	D8		CHKRBARN	CD	
CHKCOPYC	A0		CHKRBATA	C9	
CHKCPAGN	A8		CHKREC	E0	
CHKCPYG	A2		CHKRELS	F4	
CHKCRECN	A4		CHKSERV	FC	
CHKDATA	A8	88	CHKSPLNG	7C	18
CHKDEV	D0		CHKSTART	0	68
CHKDSECT	0		CHKTLNC	90	
CHKID	80		CHKTNDS	A3	
CHKIOTTC	9C		CHKTPCT	94	
CHKJBKEY	78		CHKTRNC	DC	
CHKJBNUM	74		CHKVER	F0	
CHKJESWK	88		CHK1NW	100	10
CHKJID	68		CHK1RD	100	80
CHKJNAME	6C		CHK1RS5	100	8
CHKJOENM	AC		CHK1RS6	100	4
CHKJOID	AC		CHK1RS7	100	2
CHKJOID1	B4		CHK1RS8	100	1
CHKJOID2	B6		CHK1WR	100	40
CHKJRCB	88		CHK1YW	100	20
CHKLEN	FC	80	CHK2IOT	100	20
CHKLNGTH	84		CHK2JCT	100	10
CHKMOD	D4		CHK2QUE	100	4
CHKMODF	F8		CHK2RS7	100	2
CHKMTTR	98		CHK2RS8	100	1
CHKPAGE	E4		CHK2WRI	100	80
CHKPDDB	8A		CHK2WRJ	100	40
CHKPPCT	8C		CHK2YJL	100	8

$CHK Cross Reference

Name	Hex Offset	Hex Value
IAZCHK	80	

$CIRWORK Programming Interface information

Programming Interface information

$CIRWORK

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

- CIRPRMWR

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
Comment					
GENERAL FLAG BYTES AND FIELDS COMMON TO ALL IRS					
End of Comment					
240	(F0)	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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1		CIRF1SER	"B'00000001'" SCAN PROCESSING DIAG ERROR MSG
241	(F1)	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
242	(F2)	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...		CIRF3IO1	"B'00001000'" I/O error on CKPT1
		.... .1..		CIRF3IO2	"B'00000100'" I/O error on CKPT2
		.... ..1.		CIRF3VE1	"B'00000010'" Validation error on CKPT1
		1		CIRF3VE2	"B'00000001'" Validation error on CKPT2
242	(F2)	X'F'	0	CIRF3ERR	"CIRF3IO1+CIRF3IO2+CIRF3VE1+CIRF3VE2" Mask to test for any CKPT errors
242	(F2)	X'C'	0	CIRF3I12	"CIRF3IO1+CIRF3IO2" I/O error on both datasets
242	(F2)	X'3'	0	CIRF3V12	"CIRF3VE1+CIRF3VE2" Validation error on both
242	(F2)	X'9'	0	CIRF3I1V	"CIRF3IO1+CIRF3VE2" I/O error on CKPT1, val. error on CKPT2
242	(F2)	X'6'	0	CIRF3V1I	"CIRF3VE1+CIRF3IO2" Val. error on CKPT1, I/O error on CKPT2
243	(F3)	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
		1		CIRF4RTE	"B'00000001'" Invalid Route code found
244	(F4)	SIGNED	4		RESERVED FOR FUTURE USE
248	(F8)	DBL WORD	8	CIRREPLY	WTOR REPLY AREA
256	(100)	DBL WORD	8	CIRDWORK	DOUBLE WORD WORK AREA
264	(108)	ADDRESS	4	CIRHCT	ADDR OF THE HCT
268	(10C)	SIGNED	4	CIRECB	ECB FOR GENERAL INIT USAGE

Comment

IROPTS FIELDS REQUIRED THROUGHOUT INITIALIZATION

End of Comment

272	(110)	ADDRESS	4	CIRWXIT0	"V(HASPXIT0)" HASPXIT0 ADDR IN HASPINIT LMOD
276	(114)	ADDRESS	4	CIREXIT0	HASPXIT0 LOAD MODULE ADDR OR 0
280	(118)	ADDRESS	4	CIROPTPF	ADDR OF THE OS PARM FIELD
284	(11C)	BITSTRING	100	CIROPTS	HASP OPTIONS STRING

Comment

INIT fields for Priority aging and jesplex resource thresholds

End of Comment

384	(180)	ADDRESS	2	CIRJQRAT	Priority aging rate
386	(182)	ADDRESS	1	CIRJQHI	Job priority aging upper
387	(183)	ADDRESS	1	CIRJQLOW	and lower limits
388	(184)	ADDRESS	2	CIRJORAT	Output priority aging rate
390	(186)	ADDRESS	2	CIRJOHI	Output priority aging upper
392	(188)	ADDRESS	2	CIRJOLOW	and lower limits

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
394	(18A)	ADDRESS	2	CIRJQPRC	JQE threshold percentage
396	(18C)	ADDRESS	2	CIRJOPRC	JOE threshold percentage
398	(18E)	ADDRESS	2	CIRJNPRC	Job num threshold percent
400	(190)	ADDRESS	2	CIRTGPRC	Track grp threshold percent
402	(192)	ADDRESS	2	CIRBTPRC	BERT threshold percentage

Comment

IRPL GENERAL PROCESSING FIELDS

End of Comment

404	(194)	ADDRESS	4	CIRSTMTW	ADDRESS OF IRPL STMT BUFFER
408	(198)	ADDRESS	4	CIRSTMTT	Address of IRPL translated statement buffer
412	(19C)	SIGNED	4	CIRSYMBP (0)	Symbol service parm list
424	(1A8)	ADDRESS	4		Addr of translated length
436	(1B4)	ADDRESS	4		Addr of return code
440	(1B8)	SIGNED	4	CIRTRANL	Length of translated str.
444	(1BC)	SIGNED	4	CIRTRANR	RC from translation service
448	(1C0)	SIGNED	2	CIRSTMTC	CURRENT IRPL STATEMENT COUNT
450	(1C2)	SIGNED	2	CIRNLLCT	NPLLOG LINE COUNTER (50-1)
452	(1C4)	SIGNED	2	CIRNLPCT	NPLLOG CURRENT PAGE NUMBER
454	(1C6)	BITSTRING	1	CIRIRPL1	Flag used in IRPL
		1...		CIRP1AST	"B'10000000'" Asterisk is last char on a line within a comment
455	(1C7)	BITSTRING	1		Reserved for future use
456	(1C8)	SIGNED	4	CIRSDLCT	$SCAN DISPLAY LINE COUNT
460	(1CC)	ADDRESS	4	CIRX0XRT	ADDR OF XRT FOR EXIT 0
464	(1D0)	SIGNED	1	CIRX0#RT	# of exit 0 routines
465	(1D1)	ADDRESS	3		RESERVED FOR FUTURE USE

Comment

SUBROUTINE ADDRESSES

End of Comment

468	(1D4)	ADDRESS	4	CIRNPLLG	"V(NPLLOG)" ADDRESS OF IRPL LOGGING ROUTINE
472	(1D8)	ADDRESS	4		RESERVED FOR FUTURE USE
476	(1DC)	ADDRESS	4		RESERVED For Future Use
480	(1E0)	ADDRESS	4	CIRNQMSG	"V(NQUERY)" ADDRESS FOR QUERY MESSAGE
484	(1E4)	ADDRESS	4	CIRNDLAY	"V(NDELAY)" Address for NDELAY routine

Comment

DCT PROCESSING FIELDS

End of Comment

488	(1E8)	ADDRESS	4	CIRPDCT	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOOL DCTS
492	(1EC)	ADDRESS	4	CIRPDCT2	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOL2 DCTS

Comment

NDELAY processing fields

STIMERM SET,MF=L List form to set timer
MACDATE = 08/19/88

End of Comment

496	(1F0)	BITSTRING	24	CIRSTIMS	REMOTE STIMERM SET PARM LIST
496	(1F0)	X'18'	0	CIRSTMSL	"*-CIRSTIMS" Length of parm list

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88
					End of Comment
520	(208)	BITSTRING	16	CIRSTIMC	REMOTE STIMERM TEST/CANCEL PARM LIST
520	(208)	X'10'	0	CIRSTMCL	"*-CIRSTIMC" Length of parm list
536	(218)	SIGNED	4	CIRNDCHN	Chain of NDELAY elements
536	(218)	X'0'	0	CIRNDEYE	"0,4,C'C'" Eyecatcher
536	(218)	X'4'	0	CIRNDNXT	"4,4,C'A'" Addr of next element
536	(218)	X'8'	0	CIRNDSTI	"8,4,C'F'" STIMERM ID=id-area
536	(218)	X'C'	0	CIRNDMSG	"12,4,C'A'" Addr of message text
536	(218)	X'10'	0	CIRNDDOM	"16,4,C'F'" NDELAY DOM id
536	(218)	X'14'	0	CIRNDLEN	"20" NDELAY element length
544	(220)	DBL WORD	8		Reserved for future use
					Comment
					MISCELLANEOUS FIELDS
					End of Comment
552	(228)	DBL WORD	8	CIRCMTSV	HOLD THE ADDR AND LEN OF STMT CUR- RENTLY RUNNING IN COMMENT-SCAN
560	(230)	SIGNED	2		Reserved for future use
562	(232)	BITSTRING	1	CIRFLAG5	General usage flag 5
		1...		CIR5IRDD	"B'10000000'" IRDA has completed
		..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
563	(233)	BITSTRING	1		Reserved for future use
564	(234)	SIGNED	4	CIRXRTNS	TOTAL NO. OF EXIT ROUTINES
568	(238)	ADDRESS	4	CIRJBMIN	MINIMUM LOCAL JOB NUMBER
572	(23C)	ADDRESS	4	CIRJBMAX	MAXIMUM LOCAL JOB NUMBER
572	(23C)	X'3C'	0	CIRXEMN	"WPLHTXT-WPL+47,2" EXIT NUMBER IN INIT MSG864
572	(23C)	X'39'	0	CIRGEMR	"WPLHTXT-WPL+44,10" GETMAIN ERROR MSG REASON
572	(23C)	X'3D'	0	CIRINFMR	"WPLTXT-WPL+9+48,45" Reason text in MSG HASP448
576	(240)	ADDRESS	4	CIRACCTJ	ADDR OF JES2-TO-NET NETACCT ELEMENTS
580	(244)	ADDRESS	4	CIRACCTN	ADDR OF NET-TO-JES2 NETACCT ELEMENTS
584	(248)	BITSTRING	6	CIRTGEDM	NUM TRACK GROUP EDIT MASK
					Comment
					---------- The TSUCLASS, STCCLASS and JOBCLASS 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. ----------
					End of Comment
590	(24E)	CHARACTER	24	CIRROPSL	TSUCLASS DEFAULTS
614	(266)	CHARACTER	24	CIRROPST	STCCLASS DEFAULTS
638	(27E)	CHARACTER	24	CIRROPSU	JOBCLASS DEFAULTS
662	(296)	SIGNED	2		RESERVED FOR FUTURE USE
664	(298)	ADDRESS	4	CIRVOLTB	ADDR OF VOLUME ALLOCATION TABLE
668	(29C)	ADDRESS	4	CIRCMDTB	ADDR OF 1ST TEMP COMMAND AREA
672	(2A0)	ADDRESS	4	CIRTSTOR	ADDR OF TEMPORARY STORAGE
676	(2A4)	ADDRESS	4	CIRTDCTS	ADDR OF PERMANENT DCT STORAGE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
680	(2A8)	SIGNED	4	CIRSNALC	COUNT OF UNIT=SNA LINES
684	(2AC)	ADDRESS	4	CIRZIP	ZAPJOB ZIP chain
688	(2B0)	ADDRESS	4	CIRBTGFA	ADDR OF FIRST BTG TABLE ENTRY
692	(2B4)	ADDRESS	4	CIRBTGLA	ADDR OF LAST BTG TABLE ENTRY
696	(2B8)	BITSTRING	0	CIRSPT (0)	SMF IDs for CPU 1-32
824	(338)	SIGNED	4	CIRX0PS (0)	PARAMETER LIST FOR EXIT 0
824	(338)	ADDRESS	4	CIROPTA	ADDR OF OPTIONS (OS OR WTOR)
828	(33C)	ADDRESS	4	CIROPTL	LENGTH OF OPTIONS (OS OR WTOR)
832	(340)	ADDRESS	4	CIRDOMID	$$WTO DOM ID
836	(344)	ADDRESS	4	CIRCNECT	WTO CONNECT message number
840	(348)	CHARACTER	8	CIRIQNAM	ENQ queue/resource name,
848	(350)	CHARACTER	8	CIRIRNAM	used for most of init time
856	(358)	ADDRESS	2		Reserved for future use
858	(35A)	SIGNED	2	CIRLNENM	Number of lines with dedicated sub-devices
860	(35C)	SIGNED	4	CIRNUMJT	Total number of NJTs
864	(360)	SIGNED	4	CIRNUMJR	Total number of NJRs
868	(364)	SIGNED	4	CIRNUMST	Total number of NSTs
872	(368)	SIGNED	4	CIRNUMSR	Total number of NSRs
876	(36C)	SIGNED	4	CIRBLDM (0)	Control block ID
880	(370)	BITSTRING	4		Console ID
884	(374)	ADDRESS	4		Address of the CART
888	(378)	ADDRESS	4		Pointer for JOBID
892	(37C)	ADDRESS	4		Control block address
896	(380)	ADDRESS	4		Display routine address
900	(384)	ADDRESS	4	(6)	6 word work area
924	(39C)	BITSTRING	2		ROUT code for Message
926	(39E)	BITSTRING	2		Not used
928	(3A0)	CHARACTER	4		Message ID
932	(3A4)	CHARACTER	1		Separator character
933	(3A5)	ADDRESS	1		Flag byte 1
934	(3A6)	ADDRESS	1		'DISPER'
935	(3A7)	ADDRESS	1		Flag byte 2
936	(3A8)	BITSTRING	16		Not used
952	(3B8)	ADDRESS	4	(0)	Ensure multiple of 4
952	(3B8)	ADDRESS	2	(0)	
952	(3B8)	CHARACTER	300	CIRMWORK	Message building work area
1256	(4E8)	DBL WORD	8	(0)	Ensure double alignment

Comment

```
-------------------------------------------------------------
      General work area for short-term usage by IRs
-------------------------------------------------------------
```

End of Comment

1256	(4E8)	BITSTRING	1	CIRGWORK	General work area

Comment

```
-------------------------------------------------------------
      First mapping of CIRGWORK used by IROPTS
-------------------------------------------------------------
```

End of Comment

1256	(4E8)	BITSTRING	2	CIRSCMLN	Scan message length
1258	(4EA)	CHARACTER	80	CIRSCMSG	Scan message text
1258	(4EA)	X'52'	0	CIRGW1LN	"*-CIRGWORK" Length of first mapping

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					---------- Second mapping of CIRGWORK used by IRPL ----------
				End of Comment	
1256	(4E8)	BITSTRING	20	CIRS99RB	SVC 99 REQUEST BLOCK
1276	(4FC)	SIGNED	4	CIRS99PT (0)	SVC 99 REQUEST BLOCK POINTER
1280	(500)	CHARACTER	121	CIRNLLNE (0)	NPLLOG OUTPUT LINE
1280	(500)	CHARACTER	1	CIRNLLCC	CARRIAGE CONTROL
1281	(501)	CHARACTER	10	CIRNLLSR	STATEMENT/DIAGNOSTIC SOURCE
1294	(50E)	CHARACTER	5	CIRNLLSH	STATEMENT NUMBER TEXT
1299	(513)	CHARACTER	6	CIRNLLSN	STATEMENT NUMBER
1299	(513)	X'1E'	0	CIRNLLL1	"*-CIRNLLSR" LENGTH OF FIRST PART OF LINE
1311	(51F)	CHARACTER	10		BLANKS
1321	(529)	CHARACTER	80	CIRNLLST	STATEMENT (ALL OR PART)
1404	(57C)	SIGNED	4	CIRX19PS (0)	PARAMETER LIST FOR EXIT 19
1404	(57C)	ADDRESS	4	CIRSTMTA	IRPL PARM STATEMENT ADDR
1408	(580)	ADDRESS	4	CIRSTMTL	IRPL PARM STATEMENT LEN
1412	(584)	ADDRESS	4	CIRINSSA	EXIT 19 INSERT STATEMENT ADDR
1416	(588)	ADDRESS	4	CIRINSSL	EXIT 19 INSERT STATEMENT LEN
1420	(58C)	ADDRESS	1	CIRSWARN	$SCAN WARNING MASK
1421	(58D)	ADDRESS	3		RESERVED FOR FUTURE USE
1424	(590)	ADDRESS	4	CIRPLWRK	IRPL 24 bit work area
1428	(594)	ADDRESS	4	CIRPRDCB	Original PARMLIB DCB
1432	(598)	ADDRESS	4	CIRPRMWR	Alt PARMLIB work areas
1436	(59C)	ADDRESS	4	CIRLPARM	Logical parmlib Readbuf adr
1440	(5A0)	SIGNED	4	CIRLRCNT	Logical dataset rec counter
				Comment	
					---------- Fields used to save the current PARMLIB data set name. ----------
				End of Comment	
1444	(5A4)	BITSTRING	1	CIRIPRW	Init PRW data area
1444	(5A4)	X'188'	0	CIRGW2LN	"*-CIRGWORK" Length of second mapping
				Comment	
					---------- Third mapping of CIRGWORK used by IRPOSTPL ----------
				End of Comment	
1256	(4E8)	X'0'	0	CIRGW3LN	"*-CIRGWORK" Length of third mapping
				Comment	
					---------- Fourth mapping of CIRGWORK used by IRDA ----------
				End of Comment	
1256	(4E8)	CHARACTER	8	CIRCURRC	$CKVTAB current value for $HASP496 message
1264	(4F0)	CHARACTER	8	CIRPREVC	$CKVTAB previous value for $HASP496 message
1272	(4F8)	SIGNED	4	CIRJQENC	$CKVTAB cur number of JQEs
1276	(4FC)	SIGNED	4	CIRJQENP	$CKVTAB prev number of JQEs
1280	(500)	ADDRESS	4	CIRSPLF	FIRST SPL IN WORK CHAIN
1284	(504)	ADDRESS	4	CIRSPLL	LAST SPL IN WORK CHAIN

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1288	(508)	ADDRESS	4	CIRMSTRS	ADDR OF MSTR REC SAVE AREA
1292	(50C)	ADDRESS	4	CIRTOTA	ADDR OF TEMP TRACK-1 TABLE
1296	(510)	ADDRESS	4	CIRCURDS	CKG ADDRESS OF CURRENT DS
1300	(514)	ADDRESS	4	CIRALTDS	CKG address of other DS
1304	(518)	ADDRESS	4	CIRLFJQE	Address of last JQE put on free queue ($QREBLD only)
1308	(51C)	ADDRESS	4	CIRCTENT	CTENT table used by IRDA
1312	(520)	ADDRESS	4	CIRCTEND	End of CTENT table
1316	(524)	SIGNED	4	CIRCOUNT	LOCK RETRY COUNT
1320	(528)	SIGNED	2	CIRCLREC	SIZE OF CHLOG FROM INIT
1322	(52A)	BITSTRING	1	CIRIRDA2	IRDA flags 2

Comment

CIRIRDA2 bit definitions

End of Comment

		1...		CIRCKVWR	"B'10000000'" Init deck error encountered
		.1..		CIRCKVER	"B'01000000'" Only a warning is needed
		..1.		CIRCKVTM	"B'00100000'" Terminating error detected
1323	(52B)	BITSTRING	1		Reserved

Comment

CTRACE PLISTVER=1,MF=L CTRACE parameter list
MACDATE -98/06/17-<2>

End of Comment

0	(0)	X'530'	0	M00M0859	"CIRCTLST" ++ CTRACE NAME
1328	(530)	DBL WORD	8	CIRCTLST (0)	++ CTRACE PARM LIST
1328	(530)	BITSTRING	1	CIRCTLST_XVERSION	
					++ INPUT XVERSION
1329	(531)	CHARACTER	3	CIRCTLST_XRSV0000	
					++ RESERVED XRSV0000
1332	(534)	SIGNED	4	CIRCTLST_XSERVICE	
					++ XSERVICE
1332	(534)	X'1'	0	CIRCTLST_DEFINE	
					"1" ++ XSERVICE.DEFINE KEYWORD
1332	(534)	X'2'	0	CIRCTLST_DELETE	
					"2" ++ XSERVICE.DELETE KEYWORD
1336	(538)	CHARACTER	8	CIRCTLST_XNAME	
					++ XNAME
1344	(540)	CHARACTER	8	CIRCTLST_XSTARTNAM	
					++ XSTARTNAM
1352	(548)	CHARACTER	8	CIRCTLST_XFMTTAB	
					++ XFMTTAB
1360	(550)	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
1361	(551)	BITSTRING	1	CIRCTLST_XFLG2	
					++ FIELD_LABEL
		1...		CIRCTLST_XLIKEHEAD_YES	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"B'10000000'" ++ XLIKEHEAD.YES KEYWORD
		.1..		CIRCTLST_XHEAD_YES	
					"B'01000000'" ++ XHEAD.YES KEYWORD
		..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
1362	(552)	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_SSRSNC	
					"B'00000010'" ++ KEYUSED.SSRSNC KEYWORD
		1		CIRCTLST_KEYUSED_IFNOSUBS	
					"B'00000001'" ++ KEYUSED.IFNOSUBS KEYWORD
1363	(553)	BITSTRING	1	CIRCTLST_XFLG4	
					++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_USERDATA	
					"B'10000000'" ++ KEYUSED.USERDATA KEYWORD
1364	(554)	ADDRESS	4	CIRCTLST_XLNKPARM	
					++ FIELD_LABEL XLNKPARM
1368	(558)	ADDRESS	4	CIRCTLST_XMINOPS_ADDR	
					++ ADDR XMINOPS
1372	(55C)	BITSTRING	2	CIRCTLST_XMINOPS_LEN	
					++ FIELD_LABEL XMINOPS_LEN
1374	(55E)	CHARACTER	16	CIRCTLST_XUSERDATA	
					++ XUSERDATA
1390	(56E)	CHARACTER	2	CIRCTLST_XRVS0002	
					++ FIELD_LABEL XRVS0002
1392	(570)	SIGNED	4	CIRCTLST_XBUFMIN	
					++ XBUFMIN
1396	(574)	SIGNED	4	CIRCTLST_XBUFMAX	
					++ XBUFMAX
1400	(578)	SIGNED	4	CIRCTLST_XBUFDFLT	
					++ XBUFDFLT
1404	(57C)	ADDRESS	4	CIRCTLST_XSUB_ADDR	
					++ ADDR XSUB
1408	(580)	BITSTRING	2	CIRCTLST_XSUB_LEN	
					++ FIELD_LABEL XSUB_LEN
1410	(582)	CHARACTER	2	CIRCTLST_XRVS0003	
					++ FIELD_LABEL XRVS0003
1412	(584)	CHARACTER	8	CIRCTLST_XPARM	
					++ XPARM
1420	(58C)	SIGNED	4	CIRCTLST_XSSRC	
					++ XSSRC
1424	(590)	SIGNED	4	CIRCTLST_XSSRSNC	
					++ XSSRSNC
1424	(590)	X'594'	0	CIRCTLST_PL_END	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"*" ++ END OF BASE PLIST
1424	(590)	X'64'	0	CIRCTLSTL	"*-CIRCTLST" ++ LENGTH OF PLIST

Comment

CTRACE-2

End of Comment

1428	(594)	ADDRESS	4	(0)	Force work alignment
1428	(594)	BITSTRING	16	CIRCTUSR (0)	CTRACE userdata
1428	(594)	ADDRESS	4	CIRCTBUF	Addr of data area
1432	(598)	ADDRESS	4	CIRCTBLN	Length of data area
1436	(59C)	SIGNED	2	CIRCTASI	Address space id of data
1438	(59E)	BITSTRING	6		Reserved
1444	(5A4)	CHARACTER	8	CIRCTNAM	CTRACE component name
1452	(5AC)	BITSTRING	1	CIRJOTES	JOT ERROR SWITCH
1453	(5AD)	BITSTRING	1	CIRIRDAF	IRDA ERROR SWITCH

Comment

CIRIRDAF BIT DEFINITIONS

End of Comment

		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
		.... ..1.		CIRJOTEC	"B'00000010'" JOT Error correction comp.
		1		CIRJOTRB	"B'00000001'" JOT rebuild completed
1453	(5AD)	X'3'	0	CIRJOTV	"CIRJOTEC+CIRJOTRB" JOT Verification Completed
1454	(5AE)	BITSTRING	1	CIRIRDA1	IRDA FLAG BYTE

Comment

CIRIRDA1 BIT DEFINITIONS

End of Comment

		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
1455	(5AF)	BITSTRING	1	CIRPARMF	PARAMETER FLAG BYTE
1456	(5B0)	SIGNED	4	CIRPARML (0)	GENERIC PARM LIST
1456	(5B0)	SIGNED	4	CIRPARM1	PARM 1
1460	(5B4)	SIGNED	4	CIRPARM2	PARM 2
1464	(5B8)	SIGNED	4	CIRPARM3	PARM 3
1468	(5BC)	SIGNED	4	CIRPARM4	PARM 4
1472	(5C0)	SIGNED	4	CIRPARM5	PARM 5
1476	(5C4)	SIGNED	4	CIRPARM6	PARM 6
1476	(5C4)	X'5AF'	0	CIRPARMS	"CIRPARMF,*-CIRPARMF" FULL PARAMETER LIST
1480	(5C8)	SIGNED	4	CIRFWCNT	COUNT FORWARDED DATA SET
1484	(5CC)	CHARACTER	72	CIRCKPT1	CKPT1 SPEC SAVE AREA
1556	(614)	CHARACTER	72	CIRCKPT2	CKPT2 SPEC SAVE AREA
1628	(65C)	CHARACTER	144	CIRCHFES	CURRENT STATE OF CKPT ALOC
1772	(6EC)	BITSTRING	4	CIRIDMEM	'In-Doubt' members mask
1776	(6F0)	ADDRESS	4	CIRM791W	CBADDR for HASP791 message
1780	(6F4)	SIGNED	4	CIRECBLS (0)	List of ECBs to wait on
1780	(6F4)	ADDRESS	4	CIRECBA1	Pointer to ECB 1
1784	(6F8)	ADDRESS	4	CIRECBA2	Pointer to ECB 2

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1788	(6FC)	ADDRESS	4	CIRECBA3	Pointer to ECB 3
1792	(700)	SIGNED	4	CIRECB1	1st ECB
1796	(704)	SIGNED	4	CIRECB2	2nd ECB
1800	(708)	SIGNED	4	CIRECB3	3rd ECB
1804	(70C)	CHARACTER	70	CIRDIAGR	Init dialog reason text
1804	(70C)	X'26A'	0	CIRGW4LN	"*-CIRGWORK" Length of fourth mapping

Comment

```
------------------------------------------------------------
      Fifth mapping of CIRGWORK used by IRURDEV
------------------------------------------------------------
```

End of Comment

Comment

```
CIRCAPU IOSCAPU MF=(L,CIRCAPU) IOSCAPU parm list
          MACDATE -01/22/01-<1>
```

End of Comment

0	(0)	X'4E8'	0	M00M0861	"CIRCAPU" ++ IOSCAPU NAME
1256	(4E8)	DBL WORD	8	CIRCAPU (0)	++ IOSCAPU PARM LIST
1256	(4E8)	BITSTRING	1	CIRCAPU_XVERSION	++ INPUT XVERSION
1257	(4E9)	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
1258	(4EA)	CHARACTER	2	CIRCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1260	(4EC)	ADDRESS	4	CIRCAPU_XUCBPTR	++ XUCBPTR
1264	(4F0)	ADDRESS	4	CIRCAPU_XCAPTPTR	++ XCAPTPTR
1268	(4F4)	CHARACTER	1	CIRCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1269	(4F5)	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
1270	(4F6)	BITSTRING	2	CIRCAPU_XASID	++ XASID
1272	(4F8)	CHARACTER	16	CIRCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1272	(4F8)	X'20'	0	CIRCAPUL	"*-CIRCAPU" ++ LENGTH OF PLIST

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		IOSCAPU-1			
				End of Comment	
0	(0)	X'20'	0	CIRGW5LN	"*-CIRGWORK" Length of fifth mapping
				Comment	

Sixth mapping of CIRGWORK used by IRMVS					

				End of Comment	
1256	(4E8)	ADDRESS	4	CIRSJLSP	SJF LOCAL STORAGE POINTER
1260	(4EC)	ADDRESS	4	CIRSJPTR	SWB SJF POINTER
1264	(4F0)	BITSTRING	256	CIRSJEXP	SJF EXTRACT PARAMETER LIST
1520	(5F0)	CHARACTER	32	CIRFPTX	FOOTPRINT AREA FOR $GKINIT
1552	(610)	SIGNED	1	CIRFPLN	FOOTPRINT LENGTH
1553	(611)	CHARACTER	3	CIRRSV1	RESERVED FOR FUTURE USE
1553	(611)	X'12C'	0	CIRGW6LN	"*-CIRGWORK" Length of sixth mapping
				Comment	

Seventh mapping of CIRGWORK used indirectly by IRNJE (IRNJE $CALLs NCOMMREQ, which $CALLs NPDDMSG to display a diagnostic message in error scenarios)					

				End of Comment	
1256	(4E8)	CHARACTER	120	CIRM500A	
1256	(4E8)	X'78'	0	CIRGW7LN	"*-CIRGWORK" Length of seventh mapping
				Comment	

Eighth mapping of CIRGWORK used by IRFINAL, IRNJE and IRRJE.					

				End of Comment	
1256	(4E8)	SIGNED	4	CIRCMSTR (0)	Full word alignment
1256	(4E8)	CHARACTER	4		CPLTAB ID
1260	(4EC)	ADDRESS	1		CPLTAB Version
1261	(4ED)	ADDRESS	1		Sub Pool ID (non-JES2 AS)
1262	(4EE)	ADDRESS	1		Sub Pool number (JES2 AS)
1263	(4EF)	ADDRESS	1		Storage Key
1264	(4F0)	ADDRESS	4		CPINDEX offset
1268	(4F4)	CHARACTER	8		Cell Type
1276	(4FC)	ADDRESS	4		Cell size
1280	(500)	ADDRESS	1		General flags
1281	(501)	ADDRESS	1		Location flags
1282	(502)	ADDRESS	1		Data space flags
1283	(503)	BITSTRING	1		Reserved for future use
1284	(504)	ADDRESS	4		Limit of num of cells
1288	(508)	ADDRESS	4		Primary cell count
1292	(50C)	ADDRESS	4		Secondary cell count
1292	(50C)	X'28'	0	CIRGW8LN	"*-CIRGWORK" Length of eighth mapping

```
      Offsets
Dec       Hex       Type/Value          Len    Name (Dim)          Description
                                                   Comment
 ------------------------------------------------------------
      Ninth mapping of CIRGWORK used by IRSSI
 ------------------------------------------------------------
                                                End of Comment
1256      (4E8)     ADDRESS             4      CIRETDEF            Local ETDEF work area
                                                   Comment
 ------------------------------------------------------------
      This is mapping of CIRGWORK used by
      CSVDYNEX for Multi System Dump
 ------------------------------------------------------------
            MACDATE -12/07/01-<0>
                                                End of Comment
   0      (0)       X'4F0'              0      M00M0865            "CIRDYNEX" ++ CSVDYNEX NAME
1264      (4F0)     DBL WORD            8      CIRDYNEX (0)        ++ CSVDYNEX PARM LIST
1264      (4F0)     BITSTRING           1      CIRDYNEX_XVERSION
                                                                   ++ INPUT XVERSION
1265      (4F1)     BITSTRING           1      CIRDYNEX_XREQUEST
                                                                   ++ XREQUEST
1265      (4F1)     X'0'                0      CIRDYNEX_XREQUEST_DEFINE
                                                                   "0" ++ XREQUEST.DEFINE KEYWORD
1265      (4F1)     X'1'                0      CIRDYNEX_XREQUEST_ADD
                                                                   "1" ++ XREQUEST.ADD KEYWORD
1265      (4F1)     X'2'                0      CIRDYNEX_XREQUEST_MODIFY
                                                                   "2" ++ XREQUEST.MODIFY KEYWORD
1265      (4F1)     X'3'                0      CIRDYNEX_XREQUEST_DELETE
                                                                   "3" ++ XREQUEST.DELETE KEYWORD
1265      (4F1)     X'4'                0      CIRDYNEX_XREQUEST_UNDEFINE
                                                                   "4" ++ XREQUEST.UNDEFINE KEYWORD
1265      (4F1)     X'5'                0      CIRDYNEX_XREQUEST_ATTRIB
                                                                   "5" ++ XREQUEST.ATTRIB KEYWORD
1265      (4F1)     X'6'                0      CIRDYNEX_XREQUEST_LIST
                                                                   "6" ++ XREQUEST.LIST KEYWORD
1265      (4F1)     X'7'                0      CIRDYNEX_XREQUEST_CALL
                                                                   "7" ++ XREQUEST.CALL KEYWORD
1265      (4F1)     X'8'                0      CIRDYNEX_XREQUEST_RECOVER
                                                                   "8" ++ XREQUEST.RECOVER KEYWORD
1265      (4F1)     X'9'                0      CIRDYNEX_XREQUEST_PROCESSDP
                                                                   "9" ++ XREQUEST.PROCESSDP KEYWORD
1265      (4F1)     X'A'                0      CIRDYNEX_XREQUEST_ACTIVATE
                                                                   "10" ++ XREQUEST.ACTIVATE KEYWORD
1265      (4F1)     X'B'                0      CIRDYNEX_XREQUEST_QUERY
                                                                   "11" ++ XREQUEST.QUERY KEYWORD
1265      (4F1)     X'C'                0      CIRDYNEX_XREQUEST_REPLACE
                                                                   "12" ++ XREQUEST.REPLACE KEYWORD
1266      (4F2)     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
```

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIRDYNEX_XSTATE_ACTIVE	
					"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		1		CIRDYNEX_XSTATE_INACTIVE	
					"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1267	(4F3)	BITSTRING	1	CIRDYNEX_XAMODE	
					++ XAMODE
1267	(4F3)	X'0'	0	CIRDYNEX_XAMODE_31	
					"0" ++ XAMODE.31 KEYWORD
1267	(4F3)	X'1'	0	CIRDYNEX_XAMODE_24	
					"1" ++ XAMODE.24 KEYWORD
1267	(4F3)	X'2'	0	CIRDYNEX_XAMODE_DEFINED	
					"2" ++ XAMODE.DEFINED KEYWORD
1268	(4F4)	SIGNED	4	CIRDYNEX_XKEY	
					++ XKEY
1272	(4F8)	BITSTRING	1	CIRDYNEX_XFLAGS2	
					++ FIELD_LABEL
		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
1273	(4F9)	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
1274	(4FA)	BITSTRING	1	CIRDYNEX_XPOS	
					++ XPOS
1274	(4FA)	X'0'	0	CIRDYNEX_XPOS_SYSTEM	
					"0" ++ XPOS.SYSTEM KEYWORD
1274	(4FA)	X'1'	0	CIRDYNEX_XPOS_LAST	
					"1" ++ XPOS.LAST KEYWORD
1274	(4FA)	X'2'	0	CIRDYNEX_XPOS_FIRST	
					"2" ++ XPOS.FIRST KEYWORD
1275	(4FB)	BITSTRING	1	CIRDYNEX_XEXAAVER	
					++ XEXAAVER
1275	(4FB)	X'0'	0	CIRDYNEX_XEXAAVER_0	
					"0" ++ XEXAAVER.0 KEYWORD
1275	(4FB)	X'1'	0	CIRDYNEX_XEXAAVER_1	
					"1" ++ XEXAAVER.1 KEYWORD
1276	(4FC)	CHARACTER	4	CIRDYNEX_XRSV0002	
					++ RESERVED XRSV0002
1280	(500)	CHARACTER	16	CIRDYNEX_XEXITNAME	
					++ XEXITNAME
1296	(510)	CHARACTER	8	CIRDYNEX_XMODNAME	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ XMODNAME
1304	(518)	ADDRESS	4	CIRDYNEX_XCMDINFO_ADDR	
					++ ADDR XCMDINFO
1308	(51C)	SIGNED	4	CIRDYNEX_XABENDNUM	
					++ XABENDNUM
1312	(520)	SIGNED	4	CIRDYNEX_XRCTO	
					++ XRCTO
1316	(524)	SIGNED	4	CIRDYNEX_XRCFROM	
					++ XRCFROM
1320	(528)	SIGNED	4	CIRDYNEX_XKEEPRC	
					++ XKEEPRC
1324	(52C)	BITSTRING	1	CIRDYNEX_XKEEPRCCOMP	
					++ XKEEPRCCOMP
1324	(52C)	X'0'	0	CIRDYNEX_XKEEPRCCOMP_EQ	
					"0" ++ XKEEPRCCOMP.EQ KEYWORD
1324	(52C)	X'1'	0	CIRDYNEX_XKEEPRCCOMP_NE	
					"1" ++ XKEEPRCCOMP.NE KEYWORD
1324	(52C)	X'2'	0	CIRDYNEX_XKEEPRCCOMP_GT	
					"2" ++ XKEEPRCCOMP.GT KEYWORD
1324	(52C)	X'3'	0	CIRDYNEX_XKEEPRCCOMP_LT	
					"3" ++ XKEEPRCCOMP.LT KEYWORD
1324	(52C)	X'4'	0	CIRDYNEX_XKEEPRCCOMP_GE	
					"4" ++ XKEEPRCCOMP.GE KEYWORD
1324	(52C)	X'5'	0	CIRDYNEX_XKEEPRCCOMP_LE	
					"5" ++ XKEEPRCCOMP.LE KEYWORD
1325	(52D)	BITSTRING	1	CIRDYNEX_XRCCOMPARE	
					++ XRCCOMPARE
1325	(52D)	X'0'	0	CIRDYNEX_XRCCOMPARE_EQ	
					"0" ++ XRCCOMPARE.EQ KEYWORD
1325	(52D)	X'1'	0	CIRDYNEX_XRCCOMPARE_NE	
					"1" ++ XRCCOMPARE.NE KEYWORD
1325	(52D)	X'2'	0	CIRDYNEX_XRCCOMPARE_GT	
					"2" ++ XRCCOMPARE.GT KEYWORD
1325	(52D)	X'3'	0	CIRDYNEX_XRCCOMPARE_LT	
					"3" ++ XRCCOMPARE.LT KEYWORD
1325	(52D)	X'4'	0	CIRDYNEX_XRCCOMPARE_GE	
					"4" ++ XRCCOMPARE.GE KEYWORD
1325	(52D)	X'5'	0	CIRDYNEX_XRCCOMPARE_LE	
					"5" ++ XRCCOMPARE.LE KEYWORD
1326	(52E)	CHARACTER	1	CIRDYNEX_XRSV0003	
					++ RESERVED XRSV0003
1327	(52F)	BITSTRING	1	CIRDYNEX_XEXRETVER	
					++ XEXRETVER
1327	(52F)	X'0'	0	CIRDYNEX_XEXRETVER_0	
					"0" ++ XEXRETVER.0 KEYWORD
1327	(52F)	X'1'	0	CIRDYNEX_XEXRETVER_1	
					"1" ++ XEXRETVER.1 KEYWORD
1328	(530)	SIGNED	4	CIRDYNEX_XCALLSTOPRC	
					++ XCALLSTOPRC
1332	(534)	CHARACTER	44	CIRDYNEX_XRSVNNNN	
					++ RESERVED XRSVNNNN
1332	(534)	X'560'	0	CIRDYNEX_PL_END	
					"*" ++ END OF BASE PLIST
1308	(51C)	SIGNED	4	CIRDYNEX_XADDABENDNUM	
					++ XADDABENDNUM
1324	(52C)	BITSTRING	1	CIRDYNEX_XKEEPRCCVAL	
					++ XKEEPRCCVAL
1325	(52D)	BITSTRING	1	CIRDYNEX_XRCCVAL	
					++ XRCCVAL
1332	(534)	ADDRESS	4	CIRDYNEX_XWORKAREA_ADDR	
					++ ADDR XWORKAREA
1336	(538)	ADDRESS	4	CIRDYNEX_XRETAREA_ADDR	
					++ ADDR XRETAREA
1340	(53C)	SIGNED	4	CIRDYNEX_XRETAREA_ALET	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ ALET XRETAREA
1344	(540)	SIGNED	4	CIRDYNEX_XRETLEN	
					++ XRETLEN
1348	(544)	ADDRESS	4	CIRDYNEX_XRUB_ADDR	
					++ ADDR XRUB
1352	(548)	SIGNED	4	CIRDYNEX_XRUB_ALET	
					++ ALET XRUB
1356	(54C)	CHARACTER	8	CIRDYNEX_XNEXTTOKEN	
					++ XNEXTTOKEN
1364	(554)	ADDRESS	4	CIRDYNEX_XSDWA_ADDR	
					++ ADDR XSDWA
1332	(534)	ADDRESS	4	CIRDYNEX_XANSAREA_ADDR	
					++ ADDR XANSAREA
1336	(538)	SIGNED	4	CIRDYNEX_XANSAREA_ALET	
					++ ALET XANSAREA
1340	(53C)	SIGNED	4	CIRDYNEX_XANSLEN	
					++ XANSLEN
1332	(534)	ADDRESS	4	CIRDYNEX_XDSNAME_ADDR	
					++ ADDR XDSNAME
1336	(538)	SIGNED	4	CIRDYNEX_XDSNAME_ALET	
					++ ALET XDSNAME
1340	(53C)	CHARACTER	8	CIRDYNEX_XJOBNAME	
					++ XJOBNAME
1348	(544)	ADDRESS	4	CIRDYNEX_XMODADDR	
					++ XMODADDR
1352	(548)	CHARACTER	8	CIRDYNEX_XPARAM	
					++ XPARAM
1340	(53C)	CHARACTER	8	CIRDYNEX_XSTOKEN	
					++ XSTOKEN
1376	(560)	X'70'	0	CIRDYNEXL	"*-CIRDYNEX" ++ LENGTH OF PLIST

Comment

CSVDYNEX-0

End of Comment

0	(0)	X'78'	0	CIRGW9LN	"*-CIRGWORK" Length of ninth mapping

Comment

End of CIRGWORK mappings.

End of Comment

1376	(560)	ADDRESS	2	(0)	Ensure that
1376	(560)	ADDRESS	2	(0)	CIRGWORK is
1376	(560)	ADDRESS	2	(0)	larger than
1376	(560)	ADDRESS	2	(0)	each of the
1376	(560)	ADDRESS	2	(0)	individual
1376	(560)	ADDRESS	2	(0)	mappings of
1376	(560)	ADDRESS	2	(0)	the data
1376	(560)	ADDRESS	2	(0)	area
1376	(560)	ADDRESS	2	(0)	
1908	(774)	SIGNED	4	(0)	
1908	(774)	X'684'	0	CIRWLEN	"*-PCEWORK" LENGTH OF CIR PCE WORK
1908	(774)	X'774'	0	CIRLEN	"*-PCE" LENGTH OF INIT PCE

$CIRWORK Cross Reference

Name	Hex Offset	Hex Value
CIRACCTJ	240	
CIRACCTN	244	
CIRALTDS	514	
CIRBLDM	36C	C2D3C440
CIRBTGFA	2B0	
CIRBTGLA	2B4	
CIRBTPRC	192	
CIRCAPU	4E8	
CIRCAPU_KEYUSED_ASID	4E9	10
CIRCAPU_KEYUSED_CAPTOACT	4E9	20
CIRCAPU_KEYUSED_CAPTPTR	4E9	4
CIRCAPU_KEYUSED_CAPTUCB	4E9	80
CIRCAPU_KEYUSED_UCAPTUCB	4E9	40
CIRCAPU_KEYUSED_UCBPTR	4E9	8
CIRCAPU_XASID	4F6	
CIRCAPU_XCAPTCOM_NEVER	4F5	10
CIRCAPU_XCAPTCOM_YES	4F5	20
CIRCAPU_XCAPTPTR	4F0	
CIRCAPU_XFLAGS1	4E9	
CIRCAPU_XLASTING_YES	4F5	40
CIRCAPU_XMASK	4F5	
CIRCAPU_XMSIFREE_YES	4F5	80
CIRCAPU_XRESERVED1	4EA	
CIRCAPU_XRESERVED2	4F4	
CIRCAPU_XRESERVED3	4F8	
CIRCAPU_XUCBPTR	4EC	
CIRCAPU_XVERSION	4E8	
CIRCAPUL	4F8	20
CIRCHFES	65C	
CIRCHIUS	5AE	8
CIRCKPT1	5CC	
CIRCKPT2	614	
CIRCKVER	52A	40
CIRCKVTM	52A	20
CIRCKVWR	52A	80
CIRCLGSZ	5AD	8
CIRCLREC	528	
CIRCMDTB	29C	
CIRCMSTR	4E8	
CIRCMTSV	228	0
CIRCNECT	344	
CIRCOUNT	524	
CIRCTASI	59C	
CIRCTBLN	598	
CIRCTBUF	594	
CIRCTEND	520	
CIRCTENT	51C	
CIRCTLST	530	
CIRCTLST_DEFINE	534	1
CIRCTLST_DELETE	534	2
CIRCTLST_KEYUSED_BUFDFLT	552	8
CIRCTLST_KEYUSED_BUFMAX	552	10
CIRCTLST_KEYUSED_BUFMIN	552	20
CIRCTLST_KEYUSED_IFNOSUBS	552	1
CIRCTLST_KEYUSED_MINOPS	550	10
CIRCTLST_KEYUSED_PARM	552	40
CIRCTLST_KEYUSED_SSRC	552	4
CIRCTLST_KEYUSED_SSRSNC	552	2
CIRCTLST_KEYUSED_SUB	552	80
CIRCTLST_KEYUSED_USERDATA	553	80
CIRCTLST_PL_END	590	594
CIRCTLST_XASIDS_YES	550	80
CIRCTLST_XBUFDEFIN_YES	550	4
CIRCTLST_XBUFDFLT	578	
CIRCTLST_XBUFFER_YES	550	40
CIRCTLST_XBUFMAX	574	
CIRCTLST_XBUFMIN	570	
CIRCTLST_XFLG1	550	
CIRCTLST_XFLG2	551	
CIRCTLST_XFLG3	552	
CIRCTLST_XFLG4	553	
CIRCTLST_XFMTTAB	548	
CIRCTLST_XHEAD_YES	551	40
CIRCTLST_XHEADOPTS_YES	551	20
CIRCTLST_XJOBS_YES	550	20
CIRCTLST_XLIKEHEAD_YES	551	80
CIRCTLST_XLNKPARM	554	
CIRCTLST_XMANYSUBS_YES		

Name	Hex Offset	Hex Value
	551	10
CIRCTLST_XMINOPS_ADDR		
	558	
CIRCTLST_XMINOPS_LEN		
	55C	
CIRCTLST_XMOD_YES		
	550	8
CIRCTLST_XNAME		
	538	
CIRCTLST_XPARM		
	584	
CIRCTLST_XRSV0000		
	531	
CIRCTLST_XRVS0002		
	56E	
CIRCTLST_XRVS0003		
	582	
CIRCTLST_XSERVICE		
	534	
CIRCTLST_XSSRC		
	58C	
CIRCTLST_XSSRSNC		
	590	
CIRCTLST_XSTARTNAM		
	540	
CIRCTLST_XSUB_ADDR		
	57C	
CIRCTLST_XSUB_LEN		
	580	
CIRCTLST_XUSERDATA		
	55E	
CIRCTLST_XVERSION		
	530	
CIRCTLST_XWTR_YES		
	550	2
CIRCTLST_XWTRMODE_DREF		
	551	4
CIRCTLST_XWTRMODE_FIXED		
	551	2
CIRCTLST_XWTRMODE_PAGEABLE		
	551	8
CIRCTLSTL	590	64
CIRCTNAM	5A4	
CIRCTUSR	594	
CIRCURDS	510	
CIRCURRC	4E8	
CIRDIAGR	70C	
CIRDOMID	340	
CIRDONFW	5AE	20
CIRDWORK	100	0
CIRDYNEX	4F0	
CIRDYNEX_KEYUSED_CALLSTOPRC		
	4F2	80
CIRDYNEX_KEYUSED_KEEPRC		
	4F2	20
CIRDYNEX_KEYUSED_RCFROM		
	4F2	40
CIRDYNEX_KEYUSED_STOKEN		
	4F8	1
CIRDYNEX_PL_END		
	534	560
CIRDYNEX_XABENDCONSEC_YES		
	4F8	4
CIRDYNEX_XABENDNUM		
	51C	
CIRDYNEX_XADDABENDNUM		
	51C	
CIRDYNEX_XAMODE		
	4F3	
CIRDYNEX_XAMODE_DEFINED		
	4F3	2
CIRDYNEX_XAMODE_24		
	4F3	1
CIRDYNEX_XAMODE_31		
	4F3	0
CIRDYNEX_XANSAREA_ADDR		
	534	
CIRDYNEX_XANSAREA_ALET		
	538	
CIRDYNEX_XANSLEN		
	53C	
CIRDYNEX_XANYKEY_YES		
	4F8	8
CIRDYNEX_XCALLSTOPRC		
	530	
CIRDYNEX_XCMDINFO_ADDR		
	518	
CIRDYNEX_XDSNAME_ADDR		
	534	
CIRDYNEX_XDSNAME_ALET		
	538	
CIRDYNEX_XEXAAVER		
	4FB	
CIRDYNEX_XEXAAVER_0		
	4FB	0
CIRDYNEX_XEXAAVER_1		
	4FB	1
CIRDYNEX_XEXITNAME		
	500	
CIRDYNEX_XEXRETVER		
	52F	
CIRDYNEX_XEXRETVER_0		
	52F	0
CIRDYNEX_XEXRETVER_1		
	52F	1
CIRDYNEX_XFASTPATH_YES		
	4F2	10
CIRDYNEX_XFLAGS		
	4F2	
CIRDYNEX_XFLAGS2		
	4F8	
CIRDYNEX_XFLAGS3		
	4F9	
CIRDYNEX_XFORCE_YES		
	4F8	40
CIRDYNEX_XJOBNAME		
	53C	
CIRDYNEX_XKEEPRC		
	528	
CIRDYNEX_XKEEPRCCOMP		
	52C	
CIRDYNEX_XKEEPRCCOMP_EQ		
	52C	0
CIRDYNEX_XKEEPRCCOMP_GE		
	52C	4
CIRDYNEX_XKEEPRCCOMP_GT		
	52C	2
CIRDYNEX_XKEEPRCCOMP_LE		
	52C	5
CIRDYNEX_XKEEPRCCOMP_LT		

Name	Hex Offset	Hex Value
	52C	3
CIRDYNEX_XKEEPRCCOMP_NE		
	52C	1
CIRDYNEX_XKEEPRCCVAL		
	52C	
CIRDYNEX_XKEY		
	4F4	
CIRDYNEX_XLINKSTACKOK_NO		
	4F8	2
CIRDYNEX_XMESSAGE_ERROR		
	4F2	4
CIRDYNEX_XMODADDR		
	544	
CIRDYNEX_XMODNAME		
	510	
CIRDYNEX_XNEXTTOKEN		
	54C	
CIRDYNEX_XONEMODULE_YES		
	4F8	80
CIRDYNEX_XPARAM		
	548	
CIRDYNEX_XPERSIST_ADDRESSSPACE		
	4F8	20
CIRDYNEX_XPERSIST_IPL		
	4F8	10
CIRDYNEX_XPOS		
	4FA	
CIRDYNEX_XPOS_FIRST		
	4FA	2
CIRDYNEX_XPOS_LAST		
	4FA	1
CIRDYNEX_XPOS_SYSTEM		
	4FA	0
CIRDYNEX_XQTYPE_ADD		
	4F9	8
CIRDYNEX_XRCCOMPARE		
	52D	
CIRDYNEX_XRCCOMPARE_EQ		
	52D	0
CIRDYNEX_XRCCOMPARE_GE		
	52D	4
CIRDYNEX_XRCCOMPARE_GT		
	52D	2
CIRDYNEX_XRCCOMPARE_LE		
	52D	5
CIRDYNEX_XRCCOMPARE_LT		
	52D	3
CIRDYNEX_XRCCOMPARE_NE		
	52D	1
CIRDYNEX_XRCCVAL		
	52D	
CIRDYNEX_XRCFROM		
	524	
CIRDYNEX_XRCTO		
	520	
CIRDYNEX_XREENTRANT_REQ		
	4F2	8
CIRDYNEX_XREQUEST		
	4F1	
CIRDYNEX_XREQUEST_ACTIVATE		
	4F1	A
CIRDYNEX_XREQUEST_ADD		
	4F1	1
CIRDYNEX_XREQUEST_ATTRIB		
	4F1	5
CIRDYNEX_XREQUEST_CALL		
	4F1	7
CIRDYNEX_XREQUEST_DEFINE		
	4F1	0
CIRDYNEX_XREQUEST_DELETE		
	4F1	3
CIRDYNEX_XREQUEST_LIST		
	4F1	6
CIRDYNEX_XREQUEST_MODIFY		
	4F1	2
CIRDYNEX_XREQUEST_PROCESSDP		
	4F1	9
CIRDYNEX_XREQUEST_QUERY		
	4F1	B
CIRDYNEX_XREQUEST_RECOVER		
	4F1	8
CIRDYNEX_XREQUEST_REPLACE		
	4F1	C
CIRDYNEX_XREQUEST_UNDEFINE		
	4F1	4
CIRDYNEX_XRETAREA_ADDR		
	538	
CIRDYNEX_XRETAREA_ALET		
	53C	
CIRDYNEX_XRETINFO_ALL		
	4F9	20
CIRDYNEX_XRETINFO_HIGHEST		
	4F9	80
CIRDYNEX_XRETINFO_LAST		
	4F9	10
CIRDYNEX_XRETINFO_LOWEST		
	4F9	40
CIRDYNEX_XRETLEN		
	540	
CIRDYNEX_XRSVNNNN		
	534	
CIRDYNEX_XRSV0002		
	4FC	
CIRDYNEX_XRSV0003		
	52E	
CIRDYNEX_XRUB_ADDR		
	544	
CIRDYNEX_XRUB_ALET		
	548	
CIRDYNEX_XSDWA_ADDR		
	554	
CIRDYNEX_XSTATE_ACTIVE		
	4F2	2
CIRDYNEX_XSTATE_INACTIVE		
	4F2	1
CIRDYNEX_XSTOKEN		
	53C	
CIRDYNEX_XVERSION		
	4F0	
CIRDYNEX_XWORKAREA_ADDR		
	534	
CIRDYNEXL	560	70
CIRECB	10C	0
CIRECBA1	6F4	
CIRECBA2	6F8	
CIRECBA3	6FC	
CIRECBLS	6F4	
CIRECB1	700	
CIRECB2	704	
CIRECB3	708	

Name	Hex Offset	Hex Value
CIRETDEF	4E8	
CIREXIT0	114	
CIREXPRF	5AD	40
CIRFFWD	5AE	10
CIRFLAG1	F0	0
CIRFLAG2	F1	0
CIRFLAG3	F2	
CIRFLAG4	F3	0
CIRFLAG5	232	0
CIRFPLN	610	
CIRFPTX	5F0	
CIRFWCNT	5C8	
CIRFWDDS	5AE	40
CIRF1CAN	F0	4
CIRF1CI	F0	20
CIRF1HPI	F0	80
CIRF1INC	F0	40
CIRF1PER	F0	8
CIRF1SER	F0	1
CIRF1SSW	F0	2
CIRF1XI	F0	10
CIRF2CM	F1	10
CIRF2CMA	F1	2
CIRF2CMT	F1	1
CIRF2ECM	F1	8
CIRF2HPO	F1	20
CIRF2JEX	F1	80
CIRF2RRD	F1	40
CIRF2SSE	F1	4
CIRF3BDV	F2	10
CIRF3ERR	F2	F
CIRF3IO1	F2	8
CIRF3IO2	F2	4
CIRF3I1V	F2	9
CIRF3I12	F2	C
CIRF3LOG	F2	40
CIRF3LST	F2	80
CIRF3MID	F2	20
CIRF3VE1	F2	2
CIRF3VE2	F2	1
CIRF3V1I	F2	6
CIRF3V12	F2	3
CIRF4CHD	F3	2
CIRF4CHM	F3	4
CIRF4ILL	F3	80
CIRF4RER	F3	8
CIRF4RES	F3	10
CIRF4RTE	F3	1
CIRF4SCN	F3	20
CIRF4XER	F3	40
CIRGEMR	23C	39
CIRGWORK	4E8	
CIRGW1LN	4EA	52
CIRGW2LN	5A4	188
CIRGW3LN	4E8	0
CIRGW4LN	70C	26A
CIRGW5LN	0	20
CIRGW6LN	611	12C
CIRGW7LN	4E8	78
CIRGW8LN	50C	28
CIRGW9LN	0	78
CIRHCT	108	
CIRIDMEM	6EC	
CIRINFMR	23C	3D
CIRINSSA	584	
CIRINSSL	588	
CIRIPRW	5A4	0
CIRIQNAM	348	E2E8E2E9
CIRIRDAF	5AD	0
CIRIRDA1	5AE	0
CIRIRDA2	52A	0
CIRIRNAM	350	C9D5C9E3
CIRIRPL1	1C6	0
CIRI416	5AE	2
CIRI460	5AE	4
CIRJBMAX	23C	
CIRJBMIN	238	
CIRJNPRC	18E	
CIRJOHI	186	FF0
CIRJOLOW	188	0
CIRJOPRC	18C	
CIRJORAT	184	0
CIRJOTEC	5AD	2
CIRJOTES	5AC	
CIRJOTRB	5AD	1
CIRJOTV	5AD	3
CIRJQENC	4F8	
CIRJQENP	4FC	
CIRJQHI	182	
CIRJQLOW	183	
CIRJQPRC	18A	
CIRJQRAT	180	0
CIRLEN	774	774
CIRLFJQE	518	
CIRLNENM	35A	0
CIRLPARM	59C	
CIRLRCNT	5A0	
CIRMAXQT	5AD	20
CIRMSGIS	5AE	80
CIRMSTRS	508	
CIRMWORK	3B8	
CIRM500A	4E8	
CIRM791W	6F0	
CIRNDCHN	218	0
CIRNDDOM	218	10
CIRNDEYE	218	0
CIRNDLAY	1E4	
CIRNDLEN	218	14
CIRNDMSG	218	C
CIRNDNXT	218	4
CIRNDSTI	218	8
CIRNLLCC	500	
CIRNLLCT	1C2	1
CIRNLLL1	513	1E
CIRNLLNE	500	
CIRNLLSH	50E	
CIRNLLSN	513	
CIRNLLSR	501	
CIRNLLST	529	
CIRNLPCT	1C4	0
CIRNODAT	5AE	1
CIRNPLLG	1D4	
CIRNQMSG	1E0	
CIRNUMJR	360	0
CIRNUMJT	35C	0
CIRNUMSR	368	0
CIRNUMST	364	0
CIROPTA	338	
CIROPTL	33C	
CIROPTPF	118	

Name	Hex Offset	Hex Value
CIROPTS	11C	0
CIRPARMF	5AF	
CIRPARML	5B0	
CIRPARMS	5C4	5AF
CIRPARM1	5B0	
CIRPARM2	5B4	
CIRPARM3	5B8	
CIRPARM4	5BC	
CIRPARM5	5C0	
CIRPARM6	5C4	
CIRPDCT	1E8	
CIRPDCT2	1EC	
CIRPLWRK	590	
CIRPRDCB	594	
CIRPREVC	4F0	
CIRPRMWR	598	
CIRP1AST	1C6	80
CIRREPLY	F8	0
CIRROPSL	24E	F0F0F0F0
CIRROPST	266	F0F0F0F0
CIRROPSU	27E	F0F0F0F0
CIRRSV1	611	
CIRSCMLN	4E8	
CIRSCMSG	4EA	
CIRSDLCT	1C8	0
CIRSJEXP	4F0	
CIRSJLSP	4E8	
CIRSJPTR	4EC	
CIRSNALC	2A8	0
CIRSPLF	500	
CIRSPLGE	5AD	10
CIRSPLL	504	
CIRSPT	2B8	0
CIRSTIMC	208	0
CIRSTIMS	1F0	0
CIRSTMCL	208	10
CIRSTMSL	1F0	18
CIRSTMTA	57C	
CIRSTMTC	1C0	0
CIRSTMTL	580	
CIRSTMTT	198	
CIRSTMTW	194	
CIRSWARN	58C	
CIRSYMBP	19C	0
CIRS99PT	4FC	
CIRS99RB	4E8	
CIRTDCTS	2A4	
CIRTGEDM	248	40202020
CIRTGPRC	190	
CIRTOTA	50C	
CIRTRANL	1B8	0
CIRTRANR	1BC	0
CIRTSTOR	2A0	
CIRVOLTB	298	
CIRWLEN	774	684
CIRWMER	5AD	80
CIRWXIT0	110	
CIRXEMN	23C	3C
CIRXRTNS	234	0
CIRX0#RT	1D0	
CIRX0PS	338	
CIRX0XRT	1CC	
CIRX19PS	57C	
CIRZIP	2AC	
CIR5BRTE	232	2
CIR5DMEM	232	8
CIR5DSEQ	232	20
CIR5HPRM	232	10
CIR5IRDD	232	80
CIR5LPRM	232	4
CIR5QWIK	232	40
CIR5RRTE	232	1
M00M0859	0	530
M00M0861	0	4E8
M00M0865	0	4F0
PCE	0	

$CK Programming Interface information

Programming Interface information

$CK

End of Programming Interface information

$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: None
Storage Attributes: Subpool: CKBPOOL (See $HASPEQU)
Key: 1
Residency: For CKBs that represent checkpoint data sets on DASD: Virtual and real storage of the CKB is below 16M in the 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 virtual and real storage for the CKA and CKAEs are anywhere in JES2 address space. For CKBs that represent checkpoint data sets on a coupling facility: Virtual and real storage of the CKB is above 16M in the private storage of the JES2 address space.
Size: CKB for data set on DASD
CKBASLEN
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:

```
- Checkpoint IOB
- Checkpoint status and flags
- CCW packets for track 1 data
- Data packets for track 1 data
- IDAWS for master record
```

A CKA and a set of CKAEs exists for each checkpoint data set allocated on DASD. The CKAEs contain record addresses (CCHHRs) for each potential record record in the data set.

$CK Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKB	

Comment

CKPT I/O IOB (corresponds to IEZIOB starting at
IOBSTDRD) 32 bytes + 8 byte extension

End of Comment

0	(0)	DBL WORD	8	CKBIOB (0)	IOB for checkpoint
0	(0)	BITSTRING	1	CKBIFLG1	IOBFLAG1
1	(1)	BITSTRING	1	CKBIFLG2	IOBFLAG2
2	(2)	BITSTRING	2	CKBSENSE	IOB SENSE BYTES
4	(4)	BITSTRING	1	CKBECBCC (0)	I/O COMPLETION CODE
4	(4)	ADDRESS	4	CKBECBP	ADDRESS OF HASP ECB
8	(8)	BITSTRING	8	CKBCSW	IOB FLAG AND CSW BYTES IOBFLAG3 and IOBCSW
16	(10)	ADDRESS	4	CKBSTART	Channel program address
20	(14)	BITSTRING	1	CKBIFLG4 (0)	IOBFLAG4
20	(14)	ADDRESS	4	CKBDCBP	ADDRESS OF DCB
24	(18)	ADDRESS	4		CHANNEL PROGRAM RESTART
28	(1C)	SIGNED	2	CKBIRRCT (2)	ERROR COUNTS

Comment

Direct access IOB extension (8 bytes)

End of Comment

32	(20)	BITSTRING	8	CKBSEEK	INITIAL SEEK ADDRESS

Comment

End of IOB

End of Comment

40	(28)	BITSTRING	1	CKBFLAG1	CKB I/O Flags
		1...		CKB1EXCP	"B'10000000'" I/O NEEDED/ISSUED TO DS
		.1..		CKB1SHFL	"B'01000000'" CCW PACKETS SHUFFLED
		..1.		CKB1SPCI	"B'00100000'" PCI flag to be turned on
		...1		CKB1CFIO	"B'00010000'" CF I/O needed/issued
		.... .1..		CKB1NOPP	"B'00000100'" NOP CCW issued to obtain hardware reserve
41	(29)	BITSTRING	1	CKBFLAG2	CKB Processing flags

Comment

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.

End of Comment

		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
42	(2A)	BITSTRING	1	CKBFLAG3	Reserved for future IBM Use
43	(2B)	BITSTRING	1	CKBNREC	RECORD COUNT FROM CKDNREC
44	(2C)	SIGNED	4	CKBECB (0)	CKPT I/O XECB

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	ADDRESS	4	CKBCKA	Addr of checkpoint address table for this data set (one entry per record)
68	(44)	SIGNED	4	CKBSIZE (0)	SIZE OF ENTIRE CKB
68	(44)	BITSTRING	1		SUBPOOL CKB IS IN
69	(45)	BITSTRING	3		LENGTH OF CKB
72	(48)	ADDRESS	4	CKBTRK1T	ADDR OF TRACK ONE TABLE
76	(4C)	SIGNED	2	CKBRETRY	ERROR RETRY COUNTER
78	(4E)	SIGNED	2	CKBERRCT	(APPENDAGE FIELD) ERROR RETRY COUNTER
80	(50)	ADDRESS	4	CKBERCCW	CCW address from IOB
84	(54)	ADDRESS	4	CKBERCC2	CCW address from IEDB

Comment

Key data area used in the search key operations

End of Comment

88	(58)	DBL WORD	8	(0)	
88	(58)	BITSTRING	8	CKBKEY	SEARCH KEY CCW ARGUMENT

Comment

Lock record read buffer

End of Comment

96	(60)	DBL WORD	8	(0)	
96	(60)	BITSTRING	8	CKBLRKEY	Key portion of lock record
104	(68)	BITSTRING	372	CKBLRDAT	LOCK DATA INPUT AREA
104	(68)	SIGNED	4	CKBLRSYS	Member ID ($SIDBUSY) Fld
108	(6C)	SIGNED	4	CKBLRLVI	Level indicator field
112	(70)	CHARACTER	4	CKBLRSID	$SID field
116	(74)	CHARACTER	360	CKBLROTH (0)	Area to copy to check record if CKPT on CF

Comment

Any changes to the equates CKBLRPLN to CKBLRMVS
require changes to the parameter list passed to
XCFQSTAT routine in the HASPXCF module. The
data is required to be mapped together.

End of Comment

116	(74)	CHARACTER	8	CKBLRPLN	MVS sysplex name
124	(7C)	BITSTRING	4	CKBLRSYT	MVS system id/token
128	(80)	BITSTRING	8	CKBLRPLI	MVS sysplex id
136	(88)	BITSTRING	8	CKBLRMTK	XCF member token
144	(90)	CHARACTER	8	CKBLRMVS	MVS System Name

Comment

End of data to be mapped together for XCFQSTAT.

End of Comment

476	(1DC)	X'168'	0	CKBLROTL	"*-CKBLROTH" Size of lock data to be moved to "check record" when CKPT is on CF
476	(1DC)	ADDRESS	2	(0)	Ensure hard coded
476	(1DC)	ADDRESS	2	(0)	length is correct
476	(1DC)	X'174'	0	CKBLKRLN	"*-CKBLRDAT" SIZE OF DATA AREA OF LOCK

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					Lock record write buffer
				End of Comment	
480	(1E0)	DBL WORD	8	CKBLWKEY	STORAGE AREA FOR WRITING
480	(1E0)	X'1E0'	0	CKBLWKYP	"CKBLWKEY,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
488	(1E8)	BITSTRING	372	CKBLWDAT	LOCK RECORD KEY AND DATA
488	(1E8)	SIGNED	4	CKBLWSYS	Member ID ($SIDBUSY) Fld
492	(1EC)	SIGNED	4	CKBLWLVI	Level indicator field
496	(1F0)	CHARACTER	4	CKBLWSID	$SID field
500	(1F4)	CHARACTER	360	CKBLWOTH (0)	Area to copy to check record if CKPT on CF
				Comment	
					---------- Any changes to the equates CKBLWPLN to CKBLWMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCF module. The data is required to be mapped together. ----------
				End of Comment	
500	(1F4)	CHARACTER	8	CKBLWPLN	MVS sysplex name
508	(1FC)	BITSTRING	4	CKBLWSYT	MVS system id/token
512	(200)	BITSTRING	8	CKBLWPLI	MVS sysplex id
520	(208)	BITSTRING	8	CKBLWMTK	XCF member token
528	(210)	CHARACTER	8	CKBLWMVS	MVS System Name
				Comment	
					---------- End of data to be mapped together for XCFQSTAT. ----------
				End of Comment	
860	(35C)	X'168'	0	CKBLWOTL	"*-CKBLWOTH" Size of lock data to be moved to "check record" when CKPT is on CF
860	(35C)	ADDRESS	2	(0)	Ensure hard coded
860	(35C)	ADDRESS	2	(0)	length is correct
				Comment	
					Check record buffer
				End of Comment	
864	(360)	DBL WORD	8	CKBCKDAT (0)	START OF CHECK RECORD DATA
864	(360)	CHARACTER	372	CKBCKREC (0)	Size of Check record (Offset table needs hard coded values)
864	(360)	BITSTRING	1	CKBCKHFM	CKPT DS FILE NAMES, FLAGS
864	(360)	X'360'	0	CKBCKHFP	"CKBCKHFM,308,C'C'" Get character version for offset table
1172	(494)	ADDRESS	2	(0)	Ensure lengths are
1172	(494)	ADDRESS	2	(0)	correct
1172	(494)	SIGNED	1	CKBFORWD	Dataset forwarded indicator
1173	(495)	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)
1174	(496)	BITSTRING	6	CKBLVOTH	Level of other checkpoint (CKBCKLEV of other CKB)
1180	(49C)	BITSTRING	32	CKBSVDEF	WLM Service Definition ID
1212	(4BC)	SIGNED	4	CKBWRTIM	Time data set last written
1216	(4C0)	DBL WORD	8	(0)	
1216	(4C0)	DBL WORD	8	CKBCKLEV	Level of all data in ckpt

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1216	(4C0)	X'4C0'	0	CKBCKLVP	"CKBCKLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1216	(4C0)	X'4C4'	0	CKBCKLVH	"CKBCKLEV+4,4,C'F'" Full word version of level number of 4K pages
1224	(4C8)	DBL WORD	8	CKB4KLEV	Level of 4K pages in ckpt
1224	(4C8)	X'4C8'	0	CKB4KLVP	"CKB4KLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1224	(4C8)	X'4CC'	0	CKB4KLVH	"CKB4KLEV+4,4,C'F'" Full word version of level number of 4K pages
1232	(4D0)	SIGNED	1	CKBCKVAL (0)	CHECK VALUE
1232	(4D0)	X'174'	0	CKBCKRLN	"*-CKBCKDAT" LENGTH OF CHECK RECORD
1236	(4D4)	ADDRESS	2	(0)	Make sure hardcoded
1236	(4D4)	ADDRESS	2	(0)	length is accurate

Comment

Other data buffers

End of Comment

1240	(4D8)	DBL WORD	8	CKBVERFY	STORAGE FOR READ-COUNT
1248	(4E0)	BITSTRING	8		Reserved for future IBM use
1248	(4E0)	X'500'	0	CKBCFSZE	"((*-CKB+63)/64)*64" Size of CKB when CKPT is on a CF

Comment

IOB extension (IOBE) and IOS diagnostic area (IEDB)
for CKPT DASD I/O.

End of Comment

1256	(4E8)	SIGNED	4	(0)	Ensure word alignment
1256	(4E8)	BITSTRING	48	CKBIOBE	Reserve space for IOB extension
1304	(518)	SIGNED	4	(0)	Ensure word alignment
1304	(518)	BITSTRING	48	CKBIEDB	Reserve space for I/O error data block
1352	(548)	ADDRESS	4	CKBLMTIC	TIC in last mstr rec CCW packet
1356	(54C)	SIGNED	4		Reserved

Comment

CCW packets
Note: These channel programs are copied to
HASPCKDS in routine KBLDCKB. Any changes to these
channel programs MUST be copied into CKDS.

End of Comment

1360	(550)	DBL WORD	8	CKBCCWS (0)	Channel program area

Comment

Channel program used by KTRK1IO

End of Comment

1376	(560)	DBL WORD	8	CKBLOCKV (0)	Lock verification
1424	(590)	DBL WORD	8	CKBCHCKR (0)	Check record read
1464	(5B8)	DBL WORD	8	CKBLOCKR (0)	Lock record read
1504	(5E0)	DBL WORD	8	CKBLOCK (0)	Lock record write KEY+DATA
1544	(608)	DBL WORD	8	CKBCHECK (0)	Check record read/write
1584	(630)	DBL WORD	8	CKBMSTR (0)	Master record read/write
1616	(650)	X'28'	0	CKBMSTCL	"*-CKBMSTR" Len of master record CCWs
1624	(658)	BITSTRING	40	CKBMSTX2	2nd extra mst rec CCWs
1664	(680)	BITSTRING	40	CKBMSTX3	3rd extra mst rec CCWs
1704	(6A8)	BITSTRING	40	CKBMSTX4	4th extra mst rec CCWs
1744	(6D0)	BITSTRING	40	CKBMSTX5	5th extra mst rec CCWs

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1784	(6F8)	BITSTRING	40	CKBMSTX6	6th extra mst rec CCWs
1824	(720)	BITSTRING	40	CKBMSTX7	7th extra mst rec CCWs
1864	(748)	BITSTRING	1	CKBMSTX8	8th extra mst rec CCWs
1864	(748)	X'220'	0	CKBCCWSL	"*-CKBCCWS" Len of normal track 1 CCWs

Comment

Data areas for track one channel programs. Note: these data areas must be in the same order as the TOR entries in the TOT (ie same order as the table at label NTR1TABL in HASPIRDA). Change log data area is done differently.

End of Comment

1904	(770)	DBL WORD	8	CKBT1DAT (0)	Start of data areas
1904	(770)	BITSTRING	16	CKBLOCKD	Lock record data area
1920	(780)	BITSTRING	16	CKBCHEKD	Check record data area
1936	(790)	BITSTRING	1	CKBMSTRD	Master record data area
1936	(790)	X'30'	0	CKBT1DLN	"*-CKBT1DAT" Length of data areas
1936	(790)	X'3'	0	CKBT1DNM	"CKBT1DLN/CKDLEN" Number of track 1 records

Comment

CKBMSTD2 must follow CKBMSTRD because code in CKDS (KBLDCKA) depends on it.

End of Comment

1952	(7A0)	BITSTRING	16	CKBMSTD2	2nd extra mstr rec area
1968	(7B0)	BITSTRING	16	CKBMSTD3	3rd extra mstr rec area
1984	(7C0)	BITSTRING	16	CKBMSTD4	4th extra mstr rec area
2000	(7D0)	BITSTRING	16	CKBMSTD5	5th extra mstr rec area
2016	(7E0)	BITSTRING	16	CKBMSTD6	6th extra mstr rec area
2032	(7F0)	BITSTRING	16	CKBMSTD7	7th extra mstr rec area
2048	(800)	BITSTRING	16	CKBMSTD8	8th extra mstr rec area
2064	(810)	BITSTRING	16	CKBCHKD2	Special check read
2080	(820)	BITSTRING	16	CKBLCKD2	Special lock read
2096	(830)	SIGNED	4	CKBIDAWS (0)	Master record IDAWs
2640	(A50)	ADDRESS	4	CKBIDAW1	IDAW for 1st MSTR rec CCW
2644	(A54)	ADDRESS	4	CKBIDAW2	IDAW for 2nd MSTR rec CCW
2648	(A58)	ADDRESS	4	CKBIDAW3	IDAW for 3rd MSTR rec CCW
2652	(A5C)	ADDRESS	4	CKBIDAW4	IDAW for 4th MSTR rec CCW
2656	(A60)	ADDRESS	4	CKBIDAW5	IDAW for 5th MSTR rec CCW
2660	(A64)	ADDRESS	4	CKBIDAW6	IDAW for 6th MSTR rec CCW
2664	(A68)	ADDRESS	4	CKBIDAW7	IDAW for 7th MSTR rec CCW
2668	(A6C)	ADDRESS	4	CKBIDAW8	IDAW for 8th MSTR rec CCW

Comment

Change log CCWs. This area is arranged as follows:
Positioning CCWs - 1 set
Read/write CCWs - TOTNORTK number of these
TIC next packet - 1

End of Comment

2672	(A70)	BITSTRING	16	CKBCHLGD	Change log data area
2688	(A80)	DBL WORD	8	CKBCHLOG (0)	Change log positioning CCWs
2712	(A98)	X'18'	0	CKBCHL1L	"CKBCHLRW-CKBCHLOG" Len of trk1 change log CCWs

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
2712	(A98)	X'A98'	0	CKBMINLN	"CKBCHLRW-CKB" Length of CKB without change log R/W CCWs, and final TIC.
2712	(A98)	X'1000'	0	CKBASLEN	"((*-CKB+2047)/2048)*2048" CKB length

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKDDSECT	

Comment

Locate record parameter list (ECKD devices only)

End of Comment

0	(0)	BITSTRING	16	CKDIPARM (0)	LOCATE RECORD PARAMETER LIST FOR PRIMARY
0	(0)	BITSTRING	1	CKDOPER	OPERATION BYTE
		1		CKDWRITE	"X'01'" - WRITE DATA
		11		CKDFMT	"X'03'" - FORMAT WRITE
		.... .11.		CKDREAD	"X'06'" - READ DATA
		.... 1.11		CKDWTRAK	"X'0B'" - Write Track
1	(1)	BITSTRING	1	CKDAUX	AUXILIARY BYTE
		1...		CKDAXTL	"X'80'" - USE TRANFER LENGTH FACTOR
2	(2)	BITSTRING	1		RESERVED (MUST BE 0)
3	(3)	BITSTRING	1	CKDNREC	NUMBER OF RECORDS TO PROCESS
4	(4)	BITSTRING	4	CKDCCHH	(CCHH) Seek address (CCHH)
8	(8)	BITSTRING	5	CKDCCHR1 (0)	(CCHHR) SEARCH ADDRESS
8	(8)	BITSTRING	4	CKDCCHH1	(CCHH) CYLINDER AND HEAD NUMBERS
12	(C)	BITSTRING	1	CKDREC1	(R) RECORD NUMBER
13	(D)	BITSTRING	1	CKDSECT1	SECTOR NUMBER
14	(E)	BITSTRING	2	CKDTLEN	TRANSFER LENGTH FACTOR
14	(E)	X'10'	0	CKDLEN	"*-CKDDSECT" Len of standard data packet
14	(E)	X'10'	0	CKDNEXT	"*" Label to addr next packet

Comment

Short CKD format for CKD devices only

End of Comment

0	(0)	BITSTRING	6	CKDADDR (0)	(00CCHH) Seek address (BBCCHH)
0	(0)	BITSTRING	2	CKDBB	BB value (always zero)
2	(2)	BITSTRING	5	CKDCCHHR (0)	CCHHR value
2	(2)	BITSTRING	4		CCHH calue
6	(6)	BITSTRING	1	CKDREC	R value
7	(7)	BITSTRING	1	CKDSECT	Sector number
7	(7)	X'8'	0	CKDLEN2	"*-CKDDSECT" Length of CKD parm area

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKA	, CKPT address DSECT
0	(0)	CHARACTER	4	CKAID	Eyecatcher
4	(4)	SIGNED	4	CKASIZE	Size of entire CKA
8	(8)	SIGNED	4	CKACHLOG	# of 1st change log entry
12	(C)	SIGNED	4	CKA4KPAG	# of 1st 4K page entry
12	(C)	X'10'	0	CKAFIRST	"*" Start of CKPT address table
12	(C)	X'10'	0	CKAPLEN	"*-CKA" Size of CKA prefix

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CKAE	, CKPT address table entry
0	(0)	BITSTRING	5	CKACCHHR (0)	CCHHR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	2	CKACC	CC
2	(2)	BITSTRING	2	CKAHH	HH
4	(4)	BITSTRING	1	CKAR	R
5	(5)	BITSTRING	1	CKASECT	Sector address of record
5	(5)	X'6'	0	CKAELEN	"*-CKAE" Length of a CKAE entry
5	(5)	X'6'	0	CKANEXT	"*" Start of next address entry

$CK Cross Reference

Name	Hex Offset	Hex Value
CKA	0	
CKACC	0	
CKACCHHR	0	
CKACHLOG	8	
CKAE	0	
CKAELEN	5	6
CKAFIRST	C	10
CKAHH	2	
CKAID	0	C3D2C140
CKANEXT	5	6
CKAPLEN	C	10
CKAR	4	
CKASECT	5	
CKASIZE	4	
CKA4KPAG	C	
CKB	0	
CKBASLEN	A98	1000
CKBCCWS	550	
CKBCCWSL	748	220
CKBCFSZE	4E0	500
CKBCHCKR	590	
CKBCHECK	608	
CKBCHEKD	780	
CKBCHKD2	810	
CKBCHLGD	A70	
CKBCHLOG	A80	
CKBCHL1L	A98	18
CKBCKA	40	
CKBCKCKM	495	40
CKBCKDAT	360	
CKBCKFLG	495	
CKBCKGMT	495	80
CKBCKHFM	360	
CKBCKHFP	360	360
CKBCKLEV	4C0	
CKBCKLVH	4C0	4C4
CKBCKLVP	4C0	4C0
CKBCKREC	360	
CKBCKRLN	4D0	174
CKBCKVAL	4D0	
CKBCSW	8	0
CKBDCBP	14	
CKBECB	2C	
CKBECBCC	4	
CKBECBP	4	
CKBERCCW	50	
CKBERCC2	54	
CKBERRCT	4E	
CKBFLAG1	28	
CKBFLAG2	29	
CKBFLAG3	2A	
CKBFORWD	494	
CKBIDAWS	830	

Name	Hex Offset	Hex Value
CKBIDAW1	A50	
CKBIDAW2	A54	
CKBIDAW3	A58	
CKBIDAW4	A5C	
CKBIDAW5	A60	
CKBIDAW6	A64	
CKBIDAW7	A68	
CKBIDAW8	A6C	
CKBIEDB	518	
CKBIFLG1	0	42
CKBIFLG2	1	0
CKBIFLG4	14	
CKBIOB	0	
CKBIOBE	4E8	
CKBIRRCT	1C	0
CKBKEY	58	
CKBLCKD2	820	
CKBLKRLN	1DC	174
CKBLMTIC	548	
CKBLOCK	5E0	
CKBLOCKD	770	
CKBLOCKR	5B8	
CKBLOCKV	560	
CKBLRDAT	68	
CKBLRKEY	60	
CKBLRLVI	6C	
CKBLRMTK	88	
CKBLRMVS	90	
CKBLROTH	74	
CKBLROTL	1DC	168
CKBLRPLI	80	
CKBLRPLN	74	
CKBLRSID	70	
CKBLRSYS	68	
CKBLRSYT	7C	
CKBLVOTH	496	
CKBLWDAT	1E8	
CKBLWKEY	1E0	
CKBLWKYP	1E0	1E0
CKBLWLVI	1EC	
CKBLWMTK	208	
CKBLWMVS	210	
CKBLWOTH	1F4	
CKBLWOTL	35C	168
CKBLWPLI	200	
CKBLWPLN	1F4	
CKBLWSID	1F0	
CKBLWSYS	1E8	
CKBLWSYT	1FC	
CKBMINLN	A98	A98
CKBMSTCL	650	28
CKBMSTD2	7A0	
CKBMSTD3	7B0	

Name	Hex Offset	Hex Value
CKBMSTD4	7C0	
CKBMSTD5	7D0	
CKBMSTD6	7E0	
CKBMSTD7	7F0	
CKBMSTD8	800	
CKBMSTR	630	
CKBMSTRD	790	
CKBMSTX2	658	0
CKBMSTX3	680	0
CKBMSTX4	6A8	0
CKBMSTX5	6D0	0
CKBMSTX6	6F8	0
CKBMSTX7	720	0
CKBMSTX8	748	0
CKBNREC	2B	
CKBRETRY	4C	
CKBSEEK	20	0
CKBSENSE	2	0
CKBSIZE	44	
CKBSTART	10	
CKBSVDEF	49C	
CKBTRK1T	48	
CKBT1DAT	770	
CKBT1DLN	790	30
CKBT1DNM	790	3
CKBVERFY	4D8	
CKBWRTIM	4BC	
CKB1CFIO	28	10
CKB1EXCP	28	80
CKB1NOPP	28	4
CKB1SHFL	28	40
CKB1SPCI	28	20
CKB2MSLI	29	1
CKB2RCHK	29	80
CKB2RLCK	29	10
CKB2RLOG	29	4
CKB2RMST	29	8
CKB2TLCK	29	20
CKB2WCHK	29	40
CKB2WLCK	29	2
CKB4KLEV	4C8	
CKB4KLVH	4C8	4CC
CKB4KLVP	4C8	4C8
CKDADDR	0	
CKDAUX	1	
CKDAXTL	1	80
CKDBB	0	
CKDCCHH	4	
CKDCCHHR	2	
CKDCCHH1	8	
CKDCCHR1	8	
CKDDSECT	0	
CKDFMT	0	3
CKDIPARM	0	
CKDLEN	E	10
CKDLEN2	7	8
CKDNEXT	E	10
CKDNREC	3	
CKDOPER	0	
CKDREAD	0	6
CKDREC	6	
CKDREC1	C	
CKDSECT	7	
CKDSECT1	D	
CKDTLEN	E	
CKDWRITE	0	1
CKDWTRAK	0	B

$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 and real storage are above 16M, in the private storage of the JES2 address space.
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 Map

Offsets Dec	Offsets Hex	Type/Value	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...		CKG1LOUT	"B'00001000'" TRACK 1 I/O INCOMPLETE
		.... .1..		CKG1IOE	"B'00000100'" KFORMAT I/O ERROR
		.... ..1.		CKG1IONC	"B'00000010'" KFORMAT I/O INCOMPLETE
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..		CKG2NEWR	"B'00000100'" A structure could be used to satisfy this allocation
7	(7)	BITSTRING	1	CKGALPRM	Hold CKPTALOC parm list for use by CFFORMAT
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	CKGCKC	ADDRESS OF THE CKC
28	(1C)	ADDRESS	4	CKGTOKEN	ADDRESS OF A TOKEN FIELD
32	(20)	ADDRESS	4	CKGDTE	Address of related DTE (CF only)
36	(24)	BITSTRING	8	CKGPARM (0)	PARAMETER LIST FOR KBLDCKB

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	ADDRESS	4	CKGDCB	ADDRESS OF THE DCB
40	(28)	ADDRESS	4	CKGTOT	ADDR OF THE TRACK 1 TABLE (TOT)
44	(2C)	SIGNED	4	CKGCF4KL	Size, in 4K elements, the structure is lacking
48	(30)	SIGNED	4	CKGCFSIZ	Size, in 1K units, of the CF structure
52	(34)	CHARACTER	16	CKGCONTK	Connection Token (only used if data set in CF)
68	(44)	SIGNED	1	CKGCONID	Connection Id (only used if data set in CF)
69	(45)	BITSTRING	1	CKGFLAG3	CKB CF Request footprints
		1...		CKG3MOVE	"B'10000000'" IXLLIST MOVE Request
		.1..		CKG3RITE	"B'01000000'" IXLLIST WRITE Request
		..1.		CKG3READ	"B'00100000'" IXLLIST READ Request
		...1		CKG3LOCK	"B'00010000'" IXLLIST LOCK Request
		.... 1...		CKG3RLST	"B'00001000'" IXLLIST READLIST Request
		.... .1..		CKG3DELM	"B'00000100'" IXLLIST DELETE MULT rqst
70	(46)	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
71	(47)	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
72	(48)	BITSTRING	1	CKGFLAG6	CCW 2 I/O Error flags Bit definitions are the same as CKGFLAG5
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	BITSTRING	4	CKGERROR (0)	Error flag word (set by CFALOC, used by PRE536 to display variable text of HASP536 message)
76	(4C)	BITSTRING	3	CKGCFERR	$OFFSTBL only supports
79	(4F)	BITSTRING	1		bit string of length 24.
80	(50)	SIGNED	4	CKGCFRRC	CF Service return code
84	(54)	SIGNED	4	CKGCFRC	Return code from IXL services
88	(58)	SIGNED	4	CKGCFRSN (0)	Reason code from IXL services
88	(58)	SIGNED	2	CKGCFRIN	First two bytes are internally defined
90	(5A)	SIGNED	2	CKGCFREX	Last two bytes have external meaning
92	(5C)	CHARACTER	4	CKGMSGID	Error message to issue
96	(60)	ADDRESS	4	CKGLEID	Pointer to LEIDs
100	(64)	ADDRESS	4	CKGANSA	Pointer to hold a single IXLLIST answer area.
104	(68)	SIGNED	4	CKGECB	XECB for asynch IXL reqs
104	(68)	BITSTRING	20	CKGXECB	XECB for asynch IXL reqs
124	(7C)	SIGNED	4	CKGRECB	ECB portion of XECB for CF locking requests
124	(7C)	BITSTRING	20	CKGRXECB	XECB for CF locking request
144	(90)	ADDRESS	4	CKGLIST0	Addr of LIST0 data buffer
148	(94)	SIGNED	4	CKGT1NUM	Number of elements in a Track1 CF access
152	(98)	SIGNED	1	CKGL0BLT	ID of List0 Leid builder
153	(99)	SIGNED	1	CKGL1BLT	ID of List1 Leid builder
154	(9A)	BITSTRING	1	CKGECBTP	I/O completion code for $HASP291 message
155	(9B)	SIGNED	1	CKGSCNID	Steal lock from CONID
156	(9C)	ADDRESS	4	CKGRDBF1	Pointer to 64K buffer for IXLLIST READ_LIST requests
160	(A0)	ADDRESS	4	CKGRDBF2	Pointer to second 64K buffer for IXLLIST READ_LIST requests
164	(A4)	ADDRESS	4	CKGCFLST	Pointer to CFLIST
168	(A8)	ADDRESS	4	CKGRWTKN	Pointer to storage to hold tokens returned from an IXLLIST READ or WRITE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
172	(AC)	ADDRESS	4	CKGBFLST	Pointer to BUFLIST storage
176	(B0)	ADDRESS	4	CKGLAAS	Addr of set of answer areas
180	(B4)	SIGNED	4	CKGCFSZE	Size of work area obtained when first structure is connected to
184	(B8)	SIGNED	4		Reserved for future IBM use
184	(B8)	X'BC'	0	CKGSIZE	"*-CKG" SIZE OF THE CKG

Comment

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.

End of Comment

188	(BC)	ADDRESS	2	(0)	Verify CKGCONTK
188	(BC)	ADDRESS	2	(0)	and CONCONTOKEN are same length
188	(BC)	ADDRESS	2	(0)	Verify CKGCONID
188	(BC)	ADDRESS	2	(0)	and CONACONID are the same length

$CKGPAR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKG	0		CKGRDBF1	9C	
CKGALPRM	7		CKGRDBF2	A0	
CKGANSA	64		CKGRECB	7C	
CKGBFLST	AC		CKGRWTKN	A8	
CKGCFERR	4C		CKGRXECB	7C	
CKGCFLST	A4		CKGSCNID	9B	
CKGCFRC	54		CKGSIZE	B8	BC
CKGCFREX	5A		CKGTOKEN	1C	
CKGCFRIN	58		CKGTOT	28	
CKGCFRRC	50		CKGT1NUM	94	
CKGCFRSN	58		CKGVER	4	
CKGCFSIZ	30		CKGVNR	4	2
CKGCFSZE	B4		CKGXECB	68	
CKGCF4KL	2C		CKG1ESUP	5	80
CKGCKB	14		CKG1IOE	5	4
CKGCKC	18		CKG1IOER	5	10
CKGCONID	44		CKG1IONC	5	2
CKGCONTK	34		CKG1ITRP	5	20
CKGDCB	24		CKG1LOKD	5	40
CKGDTE	20		CKG1LOUT	5	8
CKGECB	68		CKG2ALOC	6	10
CKGECBTP	9A		CKG2CF	6	40
CKGERROR	4C		CKG2DASD	6	80
CKGFILE	8		CKG2FCON	6	20
CKGFLAG1	5		CKG2NEWR	6	4
CKGFLAG2	6		CKG2RBLD	6	8
CKGFLAG3	45		CKG3DELM	45	4
CKGFLAG4	46		CKG3LOCK	45	10
CKGFLAG5	47		CKG3MOVE	45	80
CKGFLAG6	48		CKG3READ	45	20
CKGHFAME	10		CKG3RITE	45	40
CKGID	0	C3D2C740	CKG3RLST	45	8
CKGLAAS	B0		CKG4COND	46	20
CKGLEID	60		CKG4DUPC	46	2
CKGLIST0	90		CKG4LE0B	46	80
CKGL0BLT	98		CKG4LE1B	46	40
CKGL1BLT	99		CKG4NOCK	46	8
CKGMSGID	5C		CKG4STEL	46	10
CKGPARM	24		CKG4VALR	46	1

$CKGPAR Cross Reference

Name	Hex Offset	Hex Value
CKG4WCFL	46	4
CKG5CHKR	47	20
CKG5DTRS	47	40
CKG5LCKR	47	10
CKG5LOGR	47	4
CKG5MSTR	47	8
CKG5NDTR	47	80
CKG5PAGR	47	2
CKG5VERP	47	1

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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

Comment

Input/Output for routine CKRRSTRT callers.
Fields in section are named CKMSxxxx.
| "S" for start
Output fields are available to caller until the next CKRRDONE call.

End of Comment

8	(8)	DBL WORD	8	(0)	Alignment
8	(8)	BITSTRING	0	CKMSPARM (0)	CKRRSTRT parameter list
8	(8)	DBL WORD	8	CKMSBEGN (0)	Beginning of CKRRSTRT parms
8	(8)	BITSTRING	1	CKMSFLG1	(IO) Flag byte 1 for CKRRSTRT
		1...		CKMS1MBD	"B'10000000'" (I.) - This member MUST be driver (owns the Q's)
		.1..		CKMS1DRV	"B'01000000'" (.O) - CKRRSTRT has determined this is the initial driving member
		..1.		CKMS1OPV	"B'00100000'" (IO) - Use OPVERIFY=YES during this reconfiguration
		...1		CKMS1HUP	"B'00010000'" (I.) - HFAM update is pending
9	(9)	BITSTRING	1	CKMSFLG2	(IO) Flag byte 2 (Used for reconfiguration reason)
		1...		CKMS2IO1	"B'10000000'" (IO) - I/O error on CKPT1
		.1..		CKMS2IO2	"B'01000000'" (IO) - I/O error on CKPT2
9	(9)	X'C0'	0	CKMS2IOE	"CKMS2IO1+CKMS2IO2" (.O) - I/O error on CKPTn
		..1.		CKMS2CKV	"B'00100000'" (IO) - CKPT on volatile CF

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		CKMS2OPR	"B'00010000'" (IO) - Operator requested dialog
		.... 1...		CKMS2CAN	"B'00001000'" (.O) - Reconfiguration cancelled by JES2
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	BITSTRING	4	CKMSDCON	(IO) Console ID or zero
16	(10)	SIGNED	4	CKMSNIOE	(.O) Number of members with I/O errors on CKPTn (Check CKMSFLG2 bits for "n")
20	(14)	CHARACTER	4	CKMSDNAM	(.O) Name of driving member (Original driving member, use CKMCCDMN after syncs)
24	(18)	BITSTRING	8	CKMSLEVN	(I.) Checkpoint level number
32	(20)	CHARACTER	128	CKMSMEMV	(.O) Vector of member names at original driver selection
160	(A0)	BITSTRING	308	CKMSHFAM	(IO) Copy of HFAM to initially use for this reconfig
468	(1D4)	BITSTRING	4		Reserved for future use
472	(1D8)	DBL WORD	8	CKMSEND (0)	End of CKRRSTRT parm list

Comment

```
-------------------------------------------------------------
    CKRRSTRT return codes
-------------------------------------------------------------
```

End of Comment

472	(1D8)	X'0'	0	CKMSRCOK	"0" STRT processing completed
472	(1D8)	X'4'	0	CKMSRCCN	"4" Reconfig cancelled by JES2

Comment

```
    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.
```

End of Comment

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	(IO) Flag byte 1 for CKRRSYNC
		1...		CKMC1DMF	"B'10000000'" (.O) - Driving member failed
		.1..		CKMC1NDM	"B'01000000'" (.O) - This member is new driver (This bit only set for transitions, and NOT on subsequent syncs)
		..1.		CKMC1OKW	"B'00100000'" (IO) - 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	(.O) Name of current/new driving member
480	(1E0)	CHARACTER	8	CKMCTYPE	(I.) Type of sync call

Comment

```
-------------------------------------------------------------
    CKMCACT contains an "action" code set by the
    driving member that tells non-driving members
    what to do.
-------------------------------------------------------------
```

End of Comment

488	(1E8)	SIGNED	4	CKMCACT	(IO) 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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

The "condition" fields communicate conditions from all members to the driving member. Conditions are collected into a vector on the driving member.

End of Comment

492	(1EC)	SIGNED	4	CKMCICON	(I.) Condition on entering CKRRSYNC call
492	(1EC)	X'0'	0	CKMCCCNL	"0" (.O) - Null condition (member not participating or failed)
492	(1EC)	X'4'	0	CKMCCCOK	"4" (IO) - OK condition (previous action successful or no condition to report)
492	(1EC)	X'8'	0	CKMCCCUS	"8" (IO) - Unsuccessful result from previous action
496	(1F0)	BITSTRING	128	CKMCCONV	(.O) (On driver only) A vector containing the condition from each member
624	(270)	SIGNED	4	CKMCCONM	(.O) (On driving member only) Maximum condition value from CKMCCONV vector

Comment

"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.

End of Comment

628	(274)	SIGNED	4	CKMCIRSN	(I.) Reason code on entry to CKRRSYNC call
632	(278)	BITSTRING	1	CKMCRSNV	(.O) (On driver only) A vector containing reason codes for each member

Comment

Latest $HFAM from driving member

End of Comment

760	(2F8)	BITSTRING	308	CKMCHFAM	(IO) 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

Comment

CKRRSYNC return codes

End of Comment

1072	(430)	X'0'	0	CKMCRCOK	"0" SYNC processing completed
1072	(430)	X'4'	0	CKMCRCDF	"4" Driving member failed

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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 ----------
					End of Comment
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)
					Comment
					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.
					End of Comment
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)
1088	(440)	SIGNED	4	CKMICRST	Reconfig start time (BIN)
1092	(444)	SIGNED	4	CKMICRSD	Start date (YYYYMMDD)
1096	(448)	SIGNED	4	CKMICRET	Reconfig end time (BIN)
1100	(44C)	SIGNED	4	CKMICRED	End date (YYYYMMDD)
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
					Comment
					---------- General status flag byte ----------
					End of Comment
1132	(46C)	BITSTRING	1	CKMIFLG1	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
1133	(46D)	BITSTRING	3		Reserved
					Comment
					---------- Mailbox names (set by CKRRINIT) ----------
					End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1136	(470)	CHARACTER	1	CKMIMBNS	
1152	(480)	CHARACTER	1	CKMIMBNR	

Comment

Delay time constants (set by CKRRINIT)

End of Comment

0	(0)	X'F'	0	CKMISECS	"15" Wait time for other members in seconds
1168	(490)	SIGNED	4	CKMISTBI	STIMERM wait time for other members in 100th's of seconds
1168	(490)	X'3'	0	CKMISECI	"3" Wait time for IXZXIXIF to complete in seconds
1172	(494)	SIGNED	4	CKMISTIF	STIMERM wait time for IXZXIXIF in 100th's of seconds
1172	(494)	X'64'	0	CKMIIFFC	"100" Interval between IXZXIXIF requests in 100th's of seconds
1176	(498)	SIGNED	4	CKMIIFFI	STIMERM wait time between IXZXIXIF requests in 100th's of seconds

Comment

JESXCF post exit information (set by CKRRINIT).
Field CKMICKMA is also used for STIMERM.

End of Comment

1180	(49C)	ADDRESS	4	CKMICKMA	Pointer to $CKM used by IXZXIXMB for POSTDATA= and STIMERM for PARM=
1184	(4A0)	ADDRESS	4	CKMIHCTA	Addr of $HCT for post exit
1184	(4A0)	X'4'	0	CKMIPXRP	"4" Post exit reason code for incorrect exit parm list
1184	(4A0)	X'8'	0	CKMIPXRD	"8" Post exit reason code for incorrect post data
1184	(4A0)	X'C'	0	CKMIPXRM	"12" Post exit reason code for incorrect mailbox name
1188	(4A4)	SIGNED	4		Reserved

Comment

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.

End of Comment

1192	(4A8)	DBL WORD	8	CKMICLR1 (0)	Begin area to clear on STRT

Comment

Reconfiguration status flags

End of Comment

1192	(4A8)	BITSTRING	1	CKMIFLG2	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)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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
1193	(4A9)	BITSTRING	1	CKMIFLG3	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
1194	(4AA)	BITSTRING	1		Reserved

Comment

The following byte is permanently dedicated
for IBM int rnal 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.

End of Comment

1195	(4AB)	CHARACTER	1	CKMIFCT	FCT test byte

Comment

Reconfiguration operation sequence number
Starts at zero on exit from CKRRSTRT and
increments by one for each CKRRSYNC and by
one more for CKRRDONE.

End of Comment

1196	(4AC)	SIGNED	4	CKMIOSEQ	Operation sequence number

Comment

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.

End of Comment

1200	(4B0)	SIGNED	4	CKMIDMNO	Current/last committed
1204	(4B4)	CHARACTER	4	CKMIDMNA	driver number and name
1208	(4B8)	SIGNED	4	CKMIDCNO	Current/last candidate
1212	(4BC)	CHARACTER	4	CKMIDCNA	driver number and name (zeros unless driver is being selected)
1216	(4C0)	BITSTRING	4	CKMIMMPM	Participating member mask
1220	(4C4)	BITSTRING	4		Reserved

Comment

Timing data

End of Comment

1224	(4C8)	DBL WORD	8	(0)	Alignment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					--ISTMS STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88
					End of Comment
1224	(4C8)	BITSTRING	24	CKMISTMS	REMOTE STIMERM SET PARM LIST
1224	(4C8)	X'18'	0	CKMISTSL	"*-CKMISTMS" Length of parm list
					Comment
					--ISTMC STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88
					End of Comment
1248	(4E0)	BITSTRING	16	CKMISTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
1248	(4E0)	X'10'	0	CKMISTCL	"*-CKMISTMC" Length of parm list
1264	(4F0)	DBL WORD	8	(0)	Alignment
1264	(4F0)	SIGNED	4	CKMISTMI	STIMERM ID=id-area while waiting for response from IXZXIXIF service
1268	(4F4)	SIGNED	4	CKMISTMM	STIMERM ID=id-area while waiting for msg, ack or system event
1272	(4F8)	SIGNED	4	CKMISTME	STIMERM ID=id-area used for postponed IXZXIXIF request
1276	(4FC)	SIGNED	4	CKMISTEI	STIMERM interval set for postponed IXZXIXIF request
1280	(500)	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
1281	(501)	BITSTRING	7		Reserved
					Comment
					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.
					End of Comment
1288	(508)	DBL WORD	8	CKMICLR2 (0)	Begin area to clear on SYNC or DONE calls
					Comment
					---------- Information returned from IFGETVER routine ----------
					End of Comment
1288	(508)	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
1289	(509)	BITSTRING	3		Reserved
1292	(50C)	BITSTRING	4	CKMIMMRC	Reconfig capable mask
1296	(510)	BITSTRING	4	CKMIMMST	Reconfig started mask
1300	(514)	BITSTRING	4	CKMIMMMD	Member MUST drive mask
1304	(518)	BITSTRING	4	CKMIMMCO	Reconfig committed mask
1308	(51C)	BITSTRING	4	CKMIMMDR	Driving member mask

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1312	(520)	SIGNED	4	CKMIICNO	Candidate for driving member (based on CKPT level and MUST drive)
1316	(524)	CHARACTER	4	CKMIICNA	Candidate's name
1320	(528)	SIGNED	4	CKMIIDNO	Driving member number (Based on XMAUC1DR bit of lowest participating mem)
1324	(52C)	CHARACTER	4	CKMIIDNA	Driving member name
1328	(530)	CHARACTER	128	CKMIMEMV	Vector of member names
1456	(5B0)	BITSTRING	160	CKMIMCLV	Vector member CKPT levels from XMAUCRLV in member's XCF user state
1616	(650)	SIGNED	4	CKMIIFTS	BIN time stamp of last IXZXIXIF completion

Comment

```
-------------------------------------------------------------
      Bit mapped work mask for member states, etc.
-------------------------------------------------------------
```

End of Comment

1620	(654)	BITSTRING	1	CKMIMMWK	Member affinity work mask

Comment

```
-------------------------------------------------------------
      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
-------------------------------------------------------------
```

End of Comment

1620	(654)	X'1'	0	CKMIWUST	"1" Expecting "started"
1620	(654)	X'2'	0	CKMIWUDR	"2" Expecting "driving member" (issued by non-drivers)
1620	(654)	X'3'	0	CKMIWUCO	"3" Expecting "reconfiguration committed" (issued by driver only)
1620	(654)	X'4'	0	CKMIWUDD	"4" Expecting "driver done" (issued by non-drivers waiting for driver to revert to capable only)
1620	(654)	X'5'	0	CKMIWUAD	"5" Expecting "all done" (every participating member to revert to capable only)
1624	(658)	BITSTRING	1	CKMIWUDM	Mask of delayed members w/ pending user state change

Comment

```
-------------------------------------------------------------
      Driver selection information
-------------------------------------------------------------
```

End of Comment

1628	(65C)	SIGNED	4	(0)	Alignment
1628	(65C)	BITSTRING	0	CKMIDS (0)	Driver selection info
1628	(65C)	SIGNED	4	CKMIDSBG (0)	Begin driver selection info
1628	(65C)	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
1628	(65C)	X'60'	0	CKMIDFIO	"CKMIDFI1+CKMIDFI2" - I/O error on CKPTn
		...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
1629	(65D)	BITSTRING	3		Reserved
1632	(660)	SIGNED	4	CKMIDSOS	Operation sequence number
1636	(664)	BITSTRING	4	CKMIDCON	Console ID or zero
1640	(668)	SIGNED	4	CKMIDSI1	Number of CKPT1 I/O errors

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1644	(66C)	SIGNED	4	CKMIDSI2	Number of CKPT2 I/O errors
1648	(670)	CHARACTER	4	CKMIDNAM	Name of driving member
1652	(674)	CHARACTER	128	CKMIDPMV	Participating memb names
1780	(6F4)	BITSTRING	308	CKMIDSHF	HFAM to initially use for this reconfig instance
2088	(828)	SIGNED	4	CKMIDSEN (0)	End driver selection info

Comment

Reason codes for $K28 errors

End of Comment

2088	(828)	X'1'	0	CKMIECKM	"1" CKM eyecatcher error
2088	(828)	X'2'	0	CKMIESND	"2" STRT called again w/o DONE
2088	(828)	X'3'	0	CKMIECNS	"3" SYNC called before STRT
2088	(828)	X'4'	0	CKMIECAN	"4" SYNC called after reconfig cancelled by JES2
2088	(828)	X'5'	0	CKMIEDNS	"5" DONE called before STRT
2088	(828)	X'6'	0	CKMIESTE	"6" More than one reconfig reason in parm list
2088	(828)	X'7'	0	CKMIECTE	"7" Sync type (CKMCTYPE) mismatch detected by this non-driving member
2088	(828)	X'8'	0	CKMIESWD	"8" Non-driving member called CKRRSYNC when driving member called CKRRDONE
2088	(828)	X'9'	0	CKMIEDWS	"9" Non-driving member called CKRRDONE when driving member called CKRRSYNC
2088	(828)	X'A'	0	CKMIEIEC	"10" Internal eyecatcher error (Possible storage overlay from STRT/SYNC parm list)

Comment

Register save area, $ERROR reason code, and
$Kxx error code index. Fields are set by the
$CKRRRC, $CKRRV and $CKRRK30 macros and
CRERROR routine.

End of Comment

2088	(828)	SIGNED	4	CKMIKRGS (2)	R14, R15 at time of error
2096	(830)	SIGNED	4	CKMIKRSN (0)	$Kxx reason code set from
2096	(830)	BITSTRING	1	CKMIKRSF	- (CKMIFUNC) Function code
2097	(831)	BITSTRING	1	CKMIKRSS	- (CKMIFLG2) Status flags
2098	(832)	ADDRESS	1	CKMIKRST	- (CKMIXERT) Error type
2099	(833)	ADDRESS	1	CKMIKRSX	- (CKMILSTX) Last IXZXIXxx
2100	(834)	ADDRESS	1	CKMIKXX	$Kxx error code index
2100	(834)	X'1'	0	CKMIK29	"1" - Fail with $K29 error - JESXCF data
2100	(834)	X'2'	0	CKMIK30	"2" - Fail with $K30 error - HASPCKRR internal logic
2100	(834)	X'3'	0	CKMIK34	"3" - Fail with $K34 error - JESXCF return code

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		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 ----------			
				End of Comment	
2101	(835)	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
				Comment	
		---------- Last IXZXIXxx function footprint ----------			
				End of Comment	
2102	(836)	ADDRESS	1	CKMILSTX	Last JESXCF function
2102	(836)	X'1'	0	CKMILXAC	"1" - Acknowledge message
2102	(836)	X'2'	0	CKMILXIF	"2" - Obtain member information
2102	(836)	X'3'	0	CKMILXMB	"3" - Create mailbox
2102	(836)	X'4'	0	CKMILXMC	"4" - Clear mailbox
2102	(836)	X'5'	0	CKMILXMD	"5" - Delete mailbox
2102	(836)	X'6'	0	CKMILXRM	"6" - Receive message
2102	(836)	X'7'	0	CKMILXSM	"7" - Send message
2102	(836)	X'8'	0	CKMILXUS	"8" - Call to XCFUSTAT to update XCF user state
				Comment	
		---------- Specific error type Error type equates have the form: CKMIXExx for JESXCF related $K29 and $K34 errors CKMIIExx for HASPCKRR internal logic $K30 errors ----------			
				End of Comment	
2103	(837)	ADDRESS	1	CKMIXERT	Error type
				Comment	
		Error types for JESXCF related $K29 or $K34 errors			
				End of Comment	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2103	(837)	X'1'	0	CKMIXERC	"1" - Unexpected return code (Used for $K34 only)
2103	(837)	X'2'	0	CKMIXEDA	"2" - IXZXIXRM DATA= addr is 0
2103	(837)	X'3'	0	CKMIXEZL	"3" - IXZXIXRM DATALEN is 0
2103	(837)	X'4'	0	CKMIXEZT	"4" - IXZXIXSM/IF REQTOKEN is 0
2103	(837)	X'5'	0	CKMIXEEE	"5" - YIXEN eyecatcher error
2103	(837)	X'6'	0	CKMIXEER	"6" - YIXEN system RC is not 0
2103	(837)	X'7'	0	CKMIXEES	"7" - YIXEN rsn code is not 0
2103	(837)	X'8'	0	CKMIXEEV	"8" - YIXEN not for sys event
2103	(837)	X'9'	0	CKMIXEEO	"9" - YIXEN msg offset is 0
2103	(837)	X'A'	0	CKMIXEEL	"10" - YIXEN msg length is 0
2103	(837)	X'B'	0	CKMIXEEC	"11" - YIXEN inconsistent length
2103	(837)	X'C'	0	CKMIXESE	"12" - YIXSE eyecatcher error
2103	(837)	X'D'	0	CKMIXESO	"13" - YIXSE msg offset is 0
2103	(837)	X'E'	0	CKMIXESM	"14" - YIXSE offset points past end of msg
2103	(837)	X'F'	0	CKMIXESI	"15" - YIXSE not for member info
2103	(837)	X'10'	0	CKMIXEIE	"16" - YIXIF eyecatcher error
2103	(837)	X'11'	0	CKMIXEIL	"17" - YIXIF length greater than remaining msg len
2103	(837)	X'12'	0	CKMIXEIG	"18" - YIXIF group name error
2103	(837)	X'13'	0	CKMIXEIP	"19" - YIXIF member name not blank padded
2103	(837)	X'14'	0	CKMIXEID	"20" - YIXIF duplicate member #
2103	(837)	X'15'	0	CKMIXEIO	"21" - YIXIF offset inconsistent with YIXIF length
2103	(837)	X'16'	0	CKMIXEIB	"22" - YIXIF offset past msg end
2103	(837)	X'17'	0	CKMIXEIU	"23" - YIXIF own memb # missing
2103	(837)	X'18'	0	CKMIXEIN	"24" - YIXIF own name mismatch
2103	(837)	X'19'	0	CKMIXEAE	"25" - YIXAC eyecatcher error
2103	(837)	X'1A'	0	CKMIXEAC	"26" - YIXAC inconsistent length
2103	(837)	X'1B'	0	CKMIXEAO	"27" - YIXAC msg offset is 0

Comment

Error types for HASPCKRR internal logic $K30 errors

End of Comment

2103	(837)	X'0'	0	CKMIIEUN	"0" Unknown error type
2103	(837)	X'1'	0	CKMIIEIL	"1" Internal logic error
2103	(837)	X'2'	0	CKMIIESU	"2" Non-start-up msg received in start-up mailbox
2103	(837)	X'3'	0	CKMIIEMT	"3" Unexpected msg type received
2103	(837)	X'4'	0	CKMIIEMS	"4" Cannot find a REQTOKEN in CKMISMRT token vector
2103	(837)	X'5'	0	CKMIIEIN	"5" Message type does not match envelope
2103	(837)	X'6'	0	CKMIIEOS	"6" Sync operation sequence number mismatch
2103	(837)	X'7'	0	CKMIIEDF	"7" Inconsistent view of driver failed status
2103	(837)	X'8'	0	CKMIIEIR	"8" Unexpected return code from IMPROC
2103	(837)	X'9'	0	CKMIIEIM	"9" Invalid member number passed to subroutine
2103	(837)	X'A'	0	CKMIIEDE	"10" Non-zero DOM ID found on a DOMDELAY verify call
2103	(837)	X'B'	0	CKMIIEHD	"11" We are driving when there is another driver with a lower member number
2103	(837)	X'C'	0	CKMIIEMD	"12" Multiple members with MUST in XCF user state and we aren't the lowest MUST drive member #
2103	(837)	X'D'	0	CKMIIEAD	"13" IMPROC is processing an appl msg, but we do not have a driver or driver candidate
2103	(837)	X'E'	0	CKMIIEEY	"14" Invalid CKX eyecatcher
2103	(837)	X'F'	0	CKMIIEMH	"15" Invalid msg type passed to MHEADER routine

Comment

IXZXIXxx macro return and reason codes

End of Comment

2104	(838)	SIGNED	4	CKMIRTNC	Last IXZXIXxx return code (except for IXZXIXUS)
2108	(83C)	SIGNED	4	CKMIRSNC	Last IXZXIXxx reason code (except for IXZXIXUS)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				---------- Other footprints ----------	
				End of Comment	
2112	(840)	SIGNED	4	CKMIIFRC	Last IFGETVER return code
2116	(844)	SIGNED	4	CKMIIMRC	Last IMPROC return code
2120	(848)	SIGNED	4		Reserved
				Comment	
				Data associated with IXZXIXxx services ---------- General use data ----------	
				End of Comment	
2120	(848)	X'8'	0	CKMITOKL	"8" Length of JESXCF msg token
2124	(84C)	SIGNED	4	CKMICRML	Current residual msg length
2128	(850)	SIGNED	4	CKMIMSGL	Length of msg/ack to send
2132	(854)	CHARACTER	1	CKMISMNA	XCF member name to send to
				Comment	
				---------- Data returned from IXZXIXIF for member information ----------	
				End of Comment	
2148	(864)	BITSTRING	1	CKMIIFRT	Request token (REQTOKEN=)
				Comment	
				---------- Data returned from IXZXIXRM for a system event ----------	
				End of Comment	
2156	(86C)	ADDRESS	4	CKMIRMED	Addr of message (DATA=)
2160	(870)	SIGNED	4	CKMIRMEL	Length of msg (DATALEN=)
2164	(874)	BITSTRING	1	CKMIRMET	Message token (MSGTOKEN=)
				Comment	
				---------- Data returned from IXZXIXRM for a message or ack ----------	
				End of Comment	
2172	(87C)	ADDRESS	4	CKMIRMMD	Addr of message (DATA=)
2176	(880)	SIGNED	4	CKMIRMML	Length of msg (DATALEN=)
2180	(884)	BITSTRING	8	CKMIRMMT	Message token (MSGTOKEN=)
2188	(88C)	SIGNED	4		Reserved
2192	(890)	SIGNED	4	CKMIRMSN	Sending member number (set by IMPROC routine)
2196	(894)	BITSTRING	1	CKMIRMAC	Req token from ack's YIXAC (set by IMPROC routine)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment

					Data returned from IXZXIXSM

					End of Comment
2204	(89C)	BITSTRING	1	CKMISMRT	Request tokens (REQTOKEN=). One for each member number
					Comment
					Data associated with $BLDMSG usage
					--IBMSG $BLDMSG MF=L List form of $BLDMSG
					End of Comment
2460	(99C)	SIGNED	4	CKMIBMSG (0)	Control block ID
2464	(9A0)	BITSTRING	4		Console ID
2468	(9A4)	ADDRESS	4		Address of the CART
2472	(9A8)	ADDRESS	4		Pointer for JOBID
2476	(9AC)	ADDRESS	4		Control block address
2480	(9B0)	ADDRESS	4		Display routine address
2484	(9B4)	ADDRESS	4	(6)	6 word work area
2508	(9CC)	BITSTRING	2		ROUT code for Message
2510	(9CE)	BITSTRING	2		Not used
2512	(9D0)	CHARACTER	4		Message ID
2516	(9D4)	CHARACTER	1		Separator character
2517	(9D5)	ADDRESS	1		Flag byte 1
2518	(9D6)	ADDRESS	1		'DISPER'
2519	(9D7)	ADDRESS	1		Flag byte 2
2520	(9D8)	BITSTRING	16		Not used
2536	(9E8)	ADDRESS	4	(0)	Ensure multiple of 4
2536	(9E8)	ADDRESS	2	(0)	
0	(0)	X'4C'	0	CKMIBMLN	"*-CKMIBMSG" Length of $BLDMSG MF=L
2536	(9E8)	SIGNED	4	CKMID254	DOM ID for HASP254/709 msg
2540	(9EC)	BITSTRING	128	CKMID257	DOM ID vector for HASP257
2668	(A6C)	CHARACTER	4	CKMIDMCM	HASP257 causing member name
2672	(A70)	ADDRESS	1	CKMIDMAC	HASP257 waiting for action
2672	(A70)	X'1'	0	CKMIDMA1	"1" - Reconfig starting
2672	(A70)	X'2'	0	CKMIDMA2	"2" - Driver commit
2672	(A70)	X'3'	0	CKMIDMA3	"3" - Reconfig commit
2672	(A70)	X'4'	0	CKMIDMA4	"4" - JESXCF msg from driver
2672	(A70)	X'5'	0	CKMIDMA5	"5" - JESXCF ack from non-drv
2672	(A70)	X'6'	0	CKMIDMA6	"6" - Driver decommit
2672	(A70)	X'7'	0	CKMIDMA7	"7" - Reconfig decommit
2673	(A71)	CHARACTER	2	CKMIDMMT	First two chars of CKXMEYE for HASP257 message
2675	(A73)	BITSTRING	5		Reserved
					Comment
					List form macros for JESXCF services
					End of Comment
2680	(A78)	DBL WORD	8	CKMIXLST (0)	JESXCF list form macros
					Comment
					------- IXZXIXAC MF=(L,CKMIIXAC) Acknowledge message
					MACDATE -93/06/10-<1>
					End of Comment
2680	(A78)	SIGNED	2	M00M0853 (0)	IXZXIXAC-1
2680	(A78)	DBL WORD	8	CKMIIXAC (0)	++ IXZXIXAC PARM LIST
2680	(A78)	BITSTRING	1	CKMIIXAC_XVERSION	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ INPUT XVERSION
2681	(A79)	CHARACTER	6	CKMIIXAC_XEYECATCH	
					++ CONSTANT XEYECATCH
2687	(A7F)	BITSTRING	1	CKMIIXAC_XSTB	
					++ INPUT
		1...		CKMIIXAC_XSTB_NO	
					"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXAC_XSTB_YES	
					"B'01000000'" ++ XSTB.YES KEYWORD
2688	(A80)	BITSTRING	8	CKMIIXAC_XMSGTOKEN	
					++ XMSGTOKEN
2696	(A88)	ADDRESS	4	CKMIIXAC_XDATA	
					++ XDATA
2700	(A8C)	SIGNED	4	CKMIIXAC_XDATALEN	
					++ XDATALEN
2704	(A90)	SIGNED	4	CKMIIXAC_XUSERRC	
					++ XUSERRC
2708	(A94)	SIGNED	4	CKMIIXAC_XGROUPTOKEN	
					++ XGROUPTOKEN
2712	(A98)	SIGNED	4	CKMIIXAC_XSYSRC	
					++ XSYSRC
2716	(A9C)	SIGNED	4	CKMIIXAC_XSYSRSN	
					++ XSYSRSN
2720	(AA0)	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
2721	(AA1)	BITSTRING	1	CKMIIXAC_XMSGATTR	
					++ INPUT
		1...		CKMIIXAC_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXAC_XMSGATTR_EXPRESS	
					"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2721	(AA1)	X'2A'	0	CKMIIXACL	"*-CKMIIXAC" ++ LENGTH OF PLIST

Comment

IXZXIXAC-1

End of Comment

Comment

------- IXZXIXIF MF=(L,CKMIIXIF) Obtain member information
MACDATE -96/10/24-<2>

End of Comment

0	(0)	X'A78'	0	M00M0854	"CKMIIXIF" ++ IXZXIXIF NAME
2680	(A78)	DBL WORD	8	CKMIIXIF (0)	++ IXZXIXIF PARM LIST
2680	(A78)	BITSTRING	1	CKMIIXIF_XVERSION	
					++ INPUT XVERSION
2681	(A79)	CHARACTER	6	CKMIIXIF_XEYECATCH	
					++ CONSTANT XEYECATCH
2687	(A7F)	CHARACTER	1	CKMIIXIF_XRSV0001	
					++ RESERVED XRSV0001
2688	(A80)	SIGNED	4	CKMIIXIF_XGROUPTOKEN	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ XGROUPTOKEN
2692	(A84)	CHARACTER	16	CKMIIXIF_XREQMBOX	
					++ XREQMBOX
2708	(A94)	CHARACTER	8	CKMIIXIF_XREQTOKEN	
					++ XREQTOKEN
2716	(A9C)	ADDRESS	4	CKMIIXIF_XANSAREA	
					++ XANSAREA
2720	(AA0)	SIGNED	4	CKMIIXIF_XANSLEN	
					++ XANSLEN
2724	(AA4)	BITSTRING	1	CKMIIXIF_XINFOLVL	
					++ INPUT
		1...		CKMIIXIF_XINFOLVL_GROUP	
					"B'10000000'" ++ XINFOLVL.GROUP KEYWORD
		.1..		CKMIIXIF_XINFOLVL_MEMBER	
					"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
2725	(AA5)	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
2726	(AA6)	BITSTRING	1	CKMIIXIF_XSTATE	
					++ INPUT
		1...		CKMIIXIF_XSTATE_ANY	
					"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1..		CKMIIXIF_XSTATE_ACTIVE	
					"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
2727	(AA7)	BITSTRING	1	CKMIIXIF_XSYSTEM	
					++ INPUT
		1...		CKMIIXIF_XSYSTEM_ANY	
					"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1..		CKMIIXIF_XSYSTEM_CURRENT	
					"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
2728	(AA8)	BITSTRING	1	CKMIIXIF_XPOLYJES	
					++ INPUT
		1...		CKMIIXIF_XPOLYJES_YES	
					"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1..		CKMIIXIF_XPOLYJES_NO	
					"B'01000000'" ++ XPOLYJES.NO KEYWORD
2729	(AA9)	BITSTRING	2	CKMIIXIF_XFUNCTION	
					++ INPUT
2729	(AA9)	BITSTRING	0	CKMIIXIF_XFUNCTION_ARM	
					"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
2731	(AAB)	CHARACTER	8	CKMIIXIF_XGROUPNAME	
					++ XGROUPNAME
2731	(AAB)	X'3B'	0	CKMIIXIFL	"*-CKMIIXIF" ++ LENGTH OF PLIST

Comment

IXZXIXIF-2

End of Comment

Comment

------- IXZXIXMB MF=(L,CKMIIXMB) Create mailbox
MACDATE -93/05/10-<1>

End of Comment

2680	(A78)	SIGNED	2	M00M0855 (0)	IXZXIXMB-1

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2680	(A78)	DBL WORD	8	CKMIIXMB (0)	++ IXZXIXMB PARM LIST
2680	(A78)	BITSTRING	1	CKMIIXMB_XVERSION	++ INPUT XVERSION
2681	(A79)	CHARACTER	6	CKMIIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2687	(A7F)	CHARACTER	1	CKMIIXMB_XRSV0001	++ RESERVED XRSV0001
2688	(A80)	CHARACTER	16	CKMIIXMB_XMBOXNAME	++ XMBOXNAME
2704	(A90)	ADDRESS	4	CKMIIXMB_XPOSTXIT	++ XPOSTXIT
2708	(A94)	ADDRESS	4	CKMIIXMB_XPOSTDATA	++ XPOSTDATA
2712	(A98)	SIGNED	4	CKMIIXMB_XPOSTALET	++ XPOSTALET
2716	(A9C)	SIGNED	4	CKMIIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2720	(AA0)	BITSTRING	1	CKMIIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CKMIIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		CKMIIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2720	(AA0)	X'29'	0	CKMIIXMBL	"*-CKMIIXMB" ++ LENGTH OF PLIST

Comment

IXZXIXMB-1

End of Comment

Comment

------- IXZXIXMC MF=(L,CKMIIXMC) Clear mailbox
MACDATE -93/05/10-<1>

End of Comment

2680	(A78)	SIGNED	2	M00M0857 (0)	IXZXIXMC-1
2680	(A78)	DBL WORD	8	CKMIIXMC (0)	++ IXZXIXMC PARM LIST
2680	(A78)	BITSTRING	1	CKMIIXMC_XVERSION	++ INPUT XVERSION
2681	(A79)	CHARACTER	6	CKMIIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2687	(A7F)	BITSTRING	1	CKMIIXMC_XSTB	++ INPUT
		1...		CKMIIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2688	(A80)	CHARACTER	16	CKMIIXMC_XMBOXNAME	++ XMBOXNAME
2704	(A90)	SIGNED	4	CKMIIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2704	(A90)	X'1C'	0	CKMIIXMCL	"*-CKMIIXMC" ++ LENGTH OF PLIST

Comment

IXZXIXMC-1

End of Comment

```
      Offsets
Dec       Hex       Type/Value        Len    Name (Dim)          Description

                                                Comment

------- IXZXIXMD MF=(L,CKMIIXMD) Delete mailbox
          MACDATE -93/05/10-<1>

                                              End of Comment
2680      (A78)     SIGNED            2      M00M0858 (0)        IXZXIXMD-1
2680      (A78)     DBL WORD          8      CKMIIXMD (0)        ++ IXZXIXMD PARM LIST
2680      (A78)     BITSTRING         1      CKMIIXMD_XVERSION
                                                                 ++ INPUT XVERSION
2681      (A79)     CHARACTER         6      CKMIIXMD_XEYECATCH
                                                                 ++ CONSTANT XEYECATCH
2687      (A7F)     BITSTRING         1      CKMIIXMD_XSTB
                                                                 ++ INPUT
                     1...  ....              CKMIIXMD_XSTB_NO
                                                                 "B'10000000'" ++ XSTB.NO KEYWORD
                     .1..  ....              CKMIIXMD_XSTB_YES
                                                                 "B'01000000'" ++ XSTB.YES KEYWORD
2688      (A80)     CHARACTER        16      CKMIIXMD_XMBOXNAME
                                                                 ++ XMBOXNAME
2704      (A90)     SIGNED            4      CKMIIXMD_XGROUPTOKEN
                                                                 ++ XGROUPTOKEN
2704      (A90)     X'1C'             0      CKMIIXMDL           "*-CKMIIXMD" ++ LENGTH OF PLIST

                                                Comment

                          IXZXIXMD-1

                                              End of Comment

                                                Comment

------- IXZXIXRM MF=(L,CKMIIXRM) Receive message
          MACDATE -93/05/10-<1>

                                              End of Comment
2680      (A78)     SIGNED            2      M00M0859 (0)        IXZXIXRM-1
2680      (A78)     DBL WORD          8      CKMIIXRM (0)        ++ IXZXIXRM PARM LIST
2680      (A78)     BITSTRING         1      CKMIIXRM_XVERSION
                                                                 ++ INPUT XVERSION
2681      (A79)     CHARACTER         6      CKMIIXRM_XEYECATCH
                                                                 ++ CONSTANT XEYECATCH
2687      (A7F)     CHARACTER         1      CKMIIXRM_XRSV0001
                                                                 ++ RESERVED XRSV0001
2688      (A80)     CHARACTER        16      CKMIIXRM_XMBOXNAME
                                                                 ++ XMBOXNAME
2704      (A90)     ADDRESS           4      CKMIIXRM_XDATA
                                                                 ++ XDATA
2708      (A94)     SIGNED            4      CKMIIXRM_XDATALEN
                                                                 ++ XDATALEN
2712      (A98)     BITSTRING         8      CKMIIXRM_XMSGTOKEN
                                                                 ++ XMSGTOKEN
2720      (AA0)     SIGNED            4      CKMIIXRM_XGROUPTOKEN
                                                                 ++ XGROUPTOKEN
2724      (AA4)     BITSTRING         1      CKMIIXRM_XMSGFETCH
                                                                 ++ INPUT
                     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
```

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2725	(AA5)	BITSTRING	1	CKMIIXRM_XKEYS	
					++ FIELD_LABEL
		1...		CKMIIXRM_KEYUSED_MSGFETCH	
					"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2725	(AA5)	X'2E'	0	CKMIIXRML	"*-CKMIIXRM" ++ LENGTH OF PLIST

Comment

IXZXIXRM-1

End of Comment

Comment

------- IXZXIXSM MF=(L,CKMIIXSM) Send message
MACDATE -93/05/10-<1>

End of Comment

2680	(A78)	SIGNED	2	M00M0860 (0)	IXZXIXSM-1
2680	(A78)	DBL WORD	8	CKMIIXSM (0)	++ IXZXIXSM PARM LIST
2680	(A78)	BITSTRING	1	CKMIIXSM_XVERSION	
					++ INPUT XVERSION
2681	(A79)	CHARACTER	6	CKMIIXSM_XEYECATCH	
					++ CONSTANT XEYECATCH
2687	(A7F)	BITSTRING	1	CKMIIXSM_XMSGATTR	
					++ INPUT
		1...		CKMIIXSM_XMSGATTR_J3CONNECT	
					"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXSM_XMSGATTR_EXPRESS	
					"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2688	(A80)	CHARACTER	16	CKMIIXSM_XMBOXNAME	
					++ XMBOXNAME
2704	(A90)	CHARACTER	16	CKMIIXSM_XMEMBER	
					++ XMEMBER
2720	(AA0)	ADDRESS	4	CKMIIXSM_XDATA	
					++ XDATA
2724	(AA4)	SIGNED	4	CKMIIXSM_XDATALEN	
					++ XDATALEN
2728	(AA8)	BITSTRING	8	CKMIIXSM_XREQTOKEN	
					++ XREQTOKEN
2736	(AB0)	CHARACTER	16	CKMIIXSM_XREQMBOX	
					++ XREQMBOX
2752	(AC0)	SIGNED	4	CKMIIXSM_XDATAALET	
					++ XDATAALET
2756	(AC4)	SIGNED	4	CKMIIXSM_XRESPDALT	
					++ XRESPDALT
2760	(AC8)	SIGNED	4	CKMIIXSM_XECB	
					++ XECB
2764	(ACC)	SIGNED	4	CKMIIXSM_XEXIT	
					++ XEXIT
2768	(AD0)	BITSTRING	8	CKMIIXSM_XCONNECT	
					++ XCONNECT
2776	(AD8)	SIGNED	4	CKMIIXSM_XGROUPTOKEN	
					++ XGROUPTOKEN
2780	(ADC)	SIGNED	4	CKMIIXSM_XUSERRC	
					++ XUSERRC
2784	(AE0)	SIGNED	4	CKMIIXSM_XRESPDATA	
					++ XRESPDATA
2788	(AE4)	SIGNED	4	CKMIIXSM_XRESPDLEN	
					++ XRESPDLEN
2792	(AE8)	CHARACTER	4	CKMIIXSM_XRSV00001	
					++ RESERVED XRSV00001
2796	(AEC)	BITSTRING	8	CKMIIXSM_XMSGTOKEN	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ XMSGTOKEN
2804	(AF4)	SIGNED	4	CKMIIXSM_XSYNCECB	
					++ FIELD_LABEL XSYNCECB
2808	(AF8)	BITSTRING	1	CKMIIXSM_XREQTYPE	
					++ INPUT
		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
2809	(AF9)	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
2810	(AFA)	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
2811	(AFB)	BITSTRING	1	CKMIIXSM_XKEYS1	
					++ FIELD_LABEL
		1...		CKMIIXSM_KEYUSED_ECB	
					"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		CKMIIXSM_KEYUSED_DATAALET	
					"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
2811	(AFB)	X'84'	0	CKMIIXSML	"*-CKMIIXSM" ++ LENGTH OF PLIST

Comment

IXZXIXSM-1

End of Comment

2816	(B00)	DBL WORD	8	(0)	Alignment
2816	(B00)	X'88'	0	CKMIXLLN	"*-CKMIXLST" Length of longest list form

Comment

End of data internal to CKRRxxxx routines

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2816	(B00)	DBL WORD	8	(0)	Alignment
2816	(B00)	X'5F8'	0	CKMICL2L	"*-CKMICLR2" Length of area to clear in CKRRSTRT
2816	(B00)	X'658'	0	CKMICL1L	"*-CKMICLR1" Length of area to clear in CKRRSYNC or CKRRDONE
2816	(B00)	X'6D0'	0	CKMIEND	"*-CKMIDATA" Length of internal data

Comment

End of $CKM data area

End of Comment

2816	(B00)	X'B00'	0	CKMLEN	"*-CKM" Length of $CKM data area PRINT ON

$CKM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKM	0		CKMICRSD	444	
CKMCACCT	1E8	4	CKMICRSE	450	
CKMCACF1	1E8	10	CKMICRST	440	
CKMCACF2	1E8	14	CKMID	0	
CKMCACNL	1E8	0	CKMIDATA	430	
CKMCACOC	1E8	C	CKMIDCNA	4BC	
CKMCACRT	1E8	8	CKMIDCNO	4B8	
CKMCACS1	1E8	18	CKMIDCON	664	
CKMCACS2	1E8	1C	CKMIDFCN	65C	4
CKMCACT	1E8		CKMIDFCV	65C	10
CKMCACU1	1E8	20	CKMIDFHU	65C	2
CKMCACU2	1E8	24	CKMIDFIO	65C	60
CKMCBEGN	1D8		CKMIDFI1	65C	40
CKMCCCNL	1EC	0	CKMIDFI2	65C	20
CKMCCCOK	1EC	4	CKMIDFLG	65C	
CKMCCCUS	1EC	8	CKMIDFOR	65C	8
CKMCCDMN	1DC		CKMIDFOV	65C	80
CKMCCONM	270		CKMIDMAC	A70	
CKMCCONV	1F0		CKMIDMA1	A70	1
CKMCEND	430		CKMIDMA2	A70	2
CKMCFLG1	1D8		CKMIDMA3	A70	3
CKMCHFAM	2F8		CKMIDMA4	A70	4
CKMCICON	1EC		CKMIDMA5	A70	5
CKMCIRSN	274		CKMIDMA6	A70	6
CKMCPARM	1D8		CKMIDMA7	A70	7
CKMCRCDF	430	4	CKMIDMCM	A6C	
CKMCRCOK	430	0	CKMIDMMT	A71	
CKMCRSNV	278		CKMIDMNA	4B4	
CKMCTYPE	1E0		CKMIDMNO	4B0	
CKMC1DMF	1D8	80	CKMIDNAM	670	
CKMC1NDM	1D8	40	CKMIDPMV	674	
CKMC1OKW	1D8	20	CKMIDS	65C	
CKMDRCOK	430	0	CKMIDSBG	65C	
CKMDRCRC	430	4	CKMIDSEN	828	
CKMIBMLN	0	4C	CKMIDSHF	6F4	
CKMIBMSG	99C	C2D3C440	CKMIDSI1	668	
CKMICKMA	49C		CKMIDSI2	66C	
CKMICKXA	438		CKMIDSOS	660	
CKMICKXS	43C		CKMID254	9E8	
CKMICLR1	4A8		CKMID257	9EC	
CKMICLR2	508		CKMIECAN	828	4
CKMICL1L	B00	658	CKMIECKM	828	1
CKMICL2L	B00	5F8	CKMIECNS	828	3
CKMICRED	44C		CKMIECTE	828	7
CKMICRET	448		CKMIEDNS	828	5
CKMICRIF	454		CKMIEDWS	828	9
CKMICRML	84C		CKMIEIEC	828	A

Name	Hex Offset	Hex Value
CKMIEND	B00	6D0
CKMIESND	828	2
CKMIESTE	828	6
CKMIESWD	828	8
CKMIFCT	4AB	
CKMIFLG1	46C	
CKMIFLG2	4A8	
CKMIFLG3	4A9	
CKMIFUDR	835	10
CKMIFUDS	835	2
CKMIFUIF	835	8
CKMIFUIM	835	1
CKMIFUNC	835	
CKMIFURC	835	60
CKMIFURD	835	80
CKMIFURI	835	20
CKMIFURM	835	E0
CKMIFURS	835	40
CKMIFUWU	835	4
CKMIHCTA	4A0	
CKMIICNA	524	
CKMIICNO	520	
CKMIIDNA	52C	
CKMIIDNO	528	
CKMIIEAD	837	D
CKMIIEDE	837	A
CKMIIEDF	837	7
CKMIIEEY	837	E
CKMIIEHD	837	B
CKMIIEIL	837	1
CKMIIEIM	837	9
CKMIIEIN	837	5
CKMIIEIR	837	8
CKMIIEMD	837	C
CKMIIEMH	837	F
CKMIIEMS	837	4
CKMIIEMT	837	3
CKMIIEOS	837	6
CKMIIESU	837	2
CKMIIEUN	837	0
CKMIIEYE	430	
CKMIIFFC	494	64
CKMIIFFI	498	
CKMIIFG	508	
CKMIIFGC	508	40
CKMIIFGD	508	80
CKMIIFRC	840	
CKMIIFRT	864	
CKMIIFTS	650	
CKMIIMRC	844	
CKMIIXAC	A78	
CKMIIXAC_KEYUSED_DATA		
	AA0	80
CKMIIXAC_KEYUSED_DATALEN		
	AA0	40
CKMIIXAC_KEYUSED_SYSRC		
	AA0	10
CKMIIXAC_KEYUSED_SYSRSN		
	AA0	8
CKMIIXAC_KEYUSED_USERRC		
	AA0	20
CKMIIXAC_XDATA		
	A88	
CKMIIXAC_XDATALEN		
	A8C	
CKMIIXAC_XEYECATCH		
	A79	
CKMIIXAC_XGROUPTOKEN		
	A94	
CKMIIXAC_XKEYS		
	AA0	
CKMIIXAC_XMSGATTR		
	AA1	
CKMIIXAC_XMSGATTR_EXPRESS		
	AA1	40
CKMIIXAC_XMSGATTR_J3CONNECT		
	AA1	80
CKMIIXAC_XMSGTOKEN		
	A80	
CKMIIXAC_XSTB		
	A7F	
CKMIIXAC_XSTB_NO		
	A7F	80
CKMIIXAC_XSTB_YES		
	A7F	40
CKMIIXAC_XSYSRC		
	A98	
CKMIIXAC_XSYSRSN		
	A9C	
CKMIIXAC_XUSERRC		
	A90	
CKMIIXAC_XVERSION		
	A78	
CKMIIXACL	AA1	2A
CKMIIXIF	A78	
CKMIIXIF_KEYUSED_ANSAREA		
	AA5	40
CKMIIXIF_KEYUSED_GROUPNAME		
	AA5	10
CKMIIXIF_KEYUSED_GROUPTOKEN		
	AA5	20
CKMIIXIF_KEYUSED_REQMBOX		
	AA5	80
CKMIIXIF_XANSAREA		
	A9C	
CKMIIXIF_XANSLEN		
	AA0	
CKMIIXIF_XEYECATCH		
	A79	
CKMIIXIF_XFUNCTION		
	AA9	
CKMIIXIF_XFUNCTION_ARM		
	AA9	8000
CKMIIXIF_XGROUPNAME		
	AAB	
CKMIIXIF_XGROUPTOKEN		
	A80	
CKMIIXIF_XINFOLVL		
	AA4	
CKMIIXIF_XINFOLVL_GROUP		
	AA4	80
CKMIIXIF_XINFOLVL_MEMBER		
	AA4	40
CKMIIXIF_XKEYS		
	AA5	
CKMIIXIF_XPOLYJES		
	AA8	
CKMIIXIF_XPOLYJES_NO		
	AA8	40
CKMIIXIF_XPOLYJES_YES		

Name	Hex Offset	Hex Value
	AA8	80
CKMIIXIF_XREQMBOX		
	A84	
CKMIIXIF_XREQTOKEN		
	A94	
CKMIIXIF_XRSV0001		
	A7F	
CKMIIXIF_XSTATE		
	AA6	
CKMIIXIF_XSTATE_ACTIVE		
	AA6	40
CKMIIXIF_XSTATE_ANY		
	AA6	80
CKMIIXIF_XSYSTEM		
	AA7	
CKMIIXIF_XSYSTEM_ANY		
	AA7	80
CKMIIXIF_XSYSTEM_CURRENT		
	AA7	40
CKMIIXIF_XVERSION		
	A78	
CKMIIXIFL	AAB	3B
CKMIIXMB	A78	
CKMIIXMB_XEYECATCH		
	A79	
CKMIIXMB_XGROUPTOKEN		
	A9C	
CKMIIXMB_XMBOXNAME		
	A80	
CKMIIXMB_XPOSTALET		
	A98	
CKMIIXMB_XPOSTDATA		
	A94	
CKMIIXMB_XPOSTXIT		
	A90	
CKMIIXMB_XRSV0001		
	A7F	
CKMIIXMB_XSYSEVENT_NO		
	AA0	40
CKMIIXMB_XSYSEVENT_YES		
	AA0	80
CKMIIXMB_XSYSEVENTS		
	AA0	
CKMIIXMB_XVERSION		
	A78	
CKMIIXMBL	AA0	29
CKMIIXMC	A78	
CKMIIXMC_XEYECATCH		
	A79	
CKMIIXMC_XGROUPTOKEN		
	A90	
CKMIIXMC_XMBOXNAME		
	A80	
CKMIIXMC_XSTB		
	A7F	
CKMIIXMC_XSTB_NO		
	A7F	80
CKMIIXMC_XSTB_YES		
	A7F	40
CKMIIXMC_XVERSION		
	A78	
CKMIIXMCL	A90	1C
CKMIIXMD	A78	
CKMIIXMD_XEYECATCH		
	A79	
CKMIIXMD_XGROUPTOKEN		
	A90	
CKMIIXMD_XMBOXNAME		
	A80	
CKMIIXMD_XSTB		
	A7F	
CKMIIXMD_XSTB_NO		
	A7F	80
CKMIIXMD_XSTB_YES		
	A7F	40
CKMIIXMD_XVERSION		
	A78	
CKMIIXMDL	A90	1C
CKMIIXRM	A78	
CKMIIXRM_KEYUSED_MSGFETCH		
	AA5	80
CKMIIXRM_XDATA		
	A90	
CKMIIXRM_XDATALEN		
	A94	
CKMIIXRM_XEYECATCH		
	A79	
CKMIIXRM_XGROUPTOKEN		
	AA0	
CKMIIXRM_XKEYS		
	AA5	
CKMIIXRM_XMBOXNAME		
	A80	
CKMIIXRM_XMSGFETCH		
	AA4	
CKMIIXRM_XMSGFETCH_ACKS		
	AA4	10
CKMIIXRM_XMSGFETCH_ALL		
	AA4	80
CKMIIXRM_XMSGFETCH_MESSAGES		
	AA4	40
CKMIIXRM_XMSGFETCH_SYSEVENT		
	AA4	20
CKMIIXRM_XMSGTOKEN		
	A98	
CKMIIXRM_XRSV0001		
	A7F	
CKMIIXRM_XVERSION		
	A78	
CKMIIXRML	AA5	2E
CKMIIXSM	A78	
CKMIIXSM_KEYUSED_CONNECT		
	AFA	4
CKMIIXSM_KEYUSED_DATAALET		
	AFB	40
CKMIIXSM_KEYUSED_ECB		
	AFB	80
CKMIIXSM_KEYUSED_EXIT		
	AFA	10
CKMIIXSM_KEYUSED_MSGATTR		
	AFA	1
CKMIIXSM_KEYUSED_MSGTOKEN		
	AFA	2
CKMIIXSM_KEYUSED_REQMBOX		
	AFA	20
CKMIIXSM_KEYUSED_REQTOKEN		
	AFA	40
CKMIIXSM_KEYUSED_REQTYPE		
	AFA	80
CKMIIXSM_KEYUSED_SEGTYPE		

Name	Hex Offset	Hex Value
	AFA	8
CKMIIXSM_XCONNECT		
	AD0	
CKMIIXSM_XDATA		
	AA0	
CKMIIXSM_XDATAALET		
	AC0	
CKMIIXSM_XDATALEN		
	AA4	
CKMIIXSM_XECB		
	AC8	
CKMIIXSM_XEXIT		
	ACC	
CKMIIXSM_XEYECATCH		
	A79	
CKMIIXSM_XGROUPTOKEN		
	AD8	
CKMIIXSM_XKEYS		
	AFA	
CKMIIXSM_XKEYS1		
	AFB	
CKMIIXSM_XMBOXNAME		
	A80	
CKMIIXSM_XMEMBER		
	A90	
CKMIIXSM_XMSGATTR		
	A7F	
CKMIIXSM_XMSGATTR_EXPRESS		
	A7F	40
CKMIIXSM_XMSGATTR_J3CONNECT		
	A7F	80
CKMIIXSM_XMSGTOKEN		
	AEC	
CKMIIXSM_XREQMBOX		
	AB0	
CKMIIXSM_XREQTOKEN		
	AA8	
CKMIIXSM_XREQTYPE		
	AF8	
CKMIIXSM_XREQTYPE_ASYNC		
	AF8	80
CKMIIXSM_XREQTYPE_ASYNCACK		
	AF8	20
CKMIIXSM_XREQTYPE_COMM		
	AF8	10
CKMIIXSM_XREQTYPE_SYNC		
	AF8	40
CKMIIXSM_XRESPDALT		
	AC4	
CKMIIXSM_XRESPDATA		
	AE0	
CKMIIXSM_XRESPDLEN		
	AE4	
CKMIIXSM_XRSV00001		
	AE8	
CKMIIXSM_XSEGTYPE		
	AF9	
CKMIIXSM_XSEGTYPE_ABORT		
	AF9	8
CKMIIXSM_XSEGTYPE_FIRST		
	AF9	40
CKMIIXSM_XSEGTYPE_LAST		
	AF9	10
CKMIIXSM_XSEGTYPE_MIDDLE		
	AF9	20
CKMIIXSM_XSEGTYPE_SINGLE		
	AF9	80
CKMIIXSM_XSYNCECB		
	AF4	
CKMIIXSM_XUSERRC		
	ADC	
CKMIIXSM_XVERSION		
	A78	
CKMIIXSML	AFB	84
CKMIKRGS	828	
CKMIKRSF	830	
CKMIKRSN	830	
CKMIKRSS	831	
CKMIKRST	832	
CKMIKRSX	833	
CKMIKXX	834	
CKMIK29	834	1
CKMIK30	834	2
CKMIK34	834	3
CKMILSTX	836	
CKMILXAC	836	1
CKMILXIF	836	2
CKMILXMB	836	3
CKMILXMC	836	4
CKMILXMD	836	5
CKMILXRM	836	6
CKMILXSM	836	7
CKMILXUS	836	8
CKMIMBNR	480	
CKMIMBNS	470	
CKMIMCLV	5B0	
CKMIMEMV	530	
CKMIMMCO	518	
CKMIMMDR	51C	
CKMIMMMD	514	
CKMIMMPM	4C0	
CKMIMMRC	50C	
CKMIMMST	510	
CKMIMMWK	654	
CKMIMSGL	850	
CKMIOSEQ	4AC	
CKMIPXRD	4A0	8
CKMIPXRM	4A0	C
CKMIPXRP	4A0	4
CKMIRMAC	894	
CKMIRMED	86C	
CKMIRMEL	870	
CKMIRMET	874	
CKMIRMMD	87C	
CKMIRMML	880	
CKMIRMMT	884	
CKMIRMSN	890	
CKMIRSNC	83C	
CKMIRTNC	838	
CKMISECI	490	3
CKMISECS	0	F
CKMISMNA	854	
CKMISMRT	89C	
CKMISTBI	490	
CKMISTCL	4E0	10
CKMISTEI	4FC	
CKMISTF	500	
CKMISTFE	500	20
CKMISTFI	500	80
CKMISTFM	500	40

Name	Hex Offset	Hex Value
CKMISTIF	494	
CKMISTMC	4E0	0
CKMISTME	4F8	
CKMISTMI	4F0	
CKMISTMM	4F4	
CKMISTMS	4C8	0
CKMISTSL	4C8	18
CKMITOKL	848	8
CKMIWUAD	654	5
CKMIWUCO	654	3
CKMIWUDD	654	4
CKMIWUDM	658	
CKMIWUDR	654	2
CKMIWUST	654	1
CKMIXEAC	837	1A
CKMIXEAE	837	19
CKMIXEAO	837	1B
CKMIXECB	458	
CKMIXEDA	837	2
CKMIXEEC	837	B
CKMIXEEE	837	5
CKMIXEEL	837	A
CKMIXEEO	837	9
CKMIXEER	837	6
CKMIXEES	837	7
CKMIXEEV	837	8
CKMIXEIB	837	16
CKMIXEID	837	14
CKMIXEIE	837	10
CKMIXEIG	837	12
CKMIXEIL	837	11
CKMIXEIN	837	18
CKMIXEIO	837	15
CKMIXEIP	837	13
CKMIXEIU	837	17
CKMIXERC	837	1
CKMIXERT	837	
CKMIXESE	837	C
CKMIXESI	837	F
CKMIXESM	837	E
CKMIXESO	837	D
CKMIXEZL	837	3
CKMIXEZT	837	4
CKMIXLLN	B00	88
CKMIXLST	A78	
CKMI1CAN	46C	20
CKMI1CAP	46C	80
CKMI1RST	46C	40
CKMI2DCO	4A8	10
CKMI2DFP	4A8	2
CKMI2DMF	4A8	4
CKMI2DRV	4A8	8
CKMI2NIH	4A8	80
CKMI2ONE	4A8	40
CKMI2RCO	4A8	20
CKMI2WSG	4A8	1
CKMI3IFT	4A9	40
CKMI3RDD	4A9	80
CKMLEN	B00	B00
CKMSBEGN	8	
CKMSDCON	C	
CKMSDNAM	14	
CKMSEND	1D8	
CKMSFLG1	8	
CKMSFLG2	9	

Name	Hex Offset	Hex Value
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
CKMS1OPV	8	20
CKMS2CAN	9	8
CKMS2CKV	9	20
CKMS2IOE	9	C0
CKMS2IO1	9	80
CKMS2IO2	9	40
CKMS2OPR	9	10
CKMVERN	4	1
CKMVERSN	4	
M00M0853	A78	
M00M0854	0	A78
M00M0855	A78	
M00M0857	A78	
M00M0858	A78	
M00M0859	A78	
M00M0860	A78	

$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 $RETWORK'ed by the dialog routine.

$CKPRECV Map

Offsets					
Dec	Hex	Type/Value	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...		CKR1LIM	"B'10000000'" MAIN TASK LIMITED CALLER
		.1..		CKR1IOER	"B'01000000'" REASON FOR CALL IS I/O ERROR
		..1.		CKR1RECO	"B'00100000'" REASON FOR CALL IS RECONFIG
		...1		CKR1INIT	"B'00010000'" REASON FOR CALL IS INIT
		.... 1...		CKR1THIS	"B'00001000'" MOST UP TO DATE QUEUES ARE IN THIS SYSTEM'S MEMORY
		.... .1..		CKR1OTH	"B'00000100'" SOME OTHER SYSTEM HAS THE MOST UP DATE QUEUES
		.... ..1.		CKR1STAT	"B'00000010'" USE THE $STATUS BYTE TO DETERMINE IF WE HAVE MOST UP-TO-DATE COPY OF THE QUEUES
		1		CKR1QUSE	"B'00000001'" TURN OFF $QSONDA WHEN FINISHED
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
		..1.		CKR2OPT7	"B'00100000'" OPTION 7/8 PROCESSING
		...1		CKR2DEL	"B'00010000'" DELETE IS VALID RESPONSE TO HASP237, HASP273, HASP278
		.... .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 & KDSLOC FLAGS

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					ALL BIT CONFIGURATIONS FOR CKRFLAG3 ARE DEFINED IN $HASPEQU
					End of Comment
14	(E)	BITSTRING	1	CKRFLAG3	Flag byte (Shadowed in CKWRECF3)
15	(F)	BITSTRING	1	CKRFLAG4	Flag byte
		1...		CKR4ILEV	"B'10000000'" Increment $CKPTLEV
		.1..		CKR4CFV	"B'01000000'" REASON=VOLATILE when dialog is entered
		..1.		CKR4OPV	"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..		CKR4OAR	"B'00000100'" Operator assistance requested (this is used for the issuance of HASP235 message)
16	(10)	BITSTRING	1	CKRFLAG5	DISPER flag for HASPMSG
		1...		CKR5CRC	"B'10000000'" Reconfig Complete -255
		.1..		CKR5CRCO	"B'01000000'" Reconfig Cancelled by Operator -255
		..1.		CKR5CRCJ	"B'00100000'" Reconfig Cancelled by JES2 -255
17	(11)	BITSTRING	3		Reserved
20	(14)	SIGNED	4	CKRCOUNT	The number of members unable to reconfigure
					Comment
					---------- 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. ----------
					End of Comment
24	(18)	SIGNED	4	CKRCACT	Reconfig "action" saved for undoing reconfig
28	(1C)	CHARACTER	4	CKRAERRC	$ERROR CODE FOR HASP275 MESSAGE
32	(20)	ADDRESS	4	CKRACODE	ADDR OF $ERROR MACRO TO BE USED IF ALL ELSE FAILS
36	(24)	SIGNED	4	CKRRTCD1	Return code from KDLRECON or KDLINITC routine
					Comment
					ALL WTO DOM IDS ARE KEPT HERE
					End of Comment
40	(28)	ADDRESS	4	CKRDMFST (0)	FIRST DOM ID
40	(28)	SIGNED	4	CKRDM233	DOM ID for message HASP233
44	(2C)	SIGNED	4	CKRDM235	DOM ID for message HASP235
48	(30)	SIGNED	4	CKRDM237	DOM ID for message HASP237
52	(34)	SIGNED	4	CKRDM270	DOM ID FOR MESSAGE HASP270
56	(38)	SIGNED	4	CKRDM271	DOM ID FOR MESSAGE HASP271
60	(3C)	SIGNED	4	CKRDM272	DOM ID FOR MESSAGE HASP272
64	(40)	SIGNED	4	CKRDM273	DOM ID FOR MESSAGE HASP273
68	(44)	SIGNED	4	CKRDM275	DOM ID FOR MESSAGE HASP275
72	(48)	SIGNED	4	CKRDM276	DOM ID FOR MESSAGE HASP276
76	(4C)	SIGNED	4	CKRDM277	DOM ID FOR MESSAGE HASP277
80	(50)	SIGNED	4	CKRDM278	DOM ID FOR MESSAGE HASP278
84	(54)	SIGNED	4	CKRDM281	DOM ID FOR MESSAGE HASP281
88	(58)	SIGNED	4	CKRDM282	DOM ID FOR MESSAGE HASP282
92	(5C)	SIGNED	4	CKRDM284	DOM ID FOR MESSAGE HASP284
96	(60)	SIGNED	4	CKRDM285	DOM ID FOR MESSAGE HASP285
100	(64)	SIGNED	4	CKRDM294	DOM ID FOR MESSAGE HASP294
104	(68)	SIGNED	4	CKRDM299	DOM ID FOR MESSAGE HASP299
108	(6C)	SIGNED	4	CKRDMINT	DOM ID for init statement
108	(6C)	X'6C'	0	CKRDMLST	"*-4" LAST DOM ID

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					THE WTOR ECB
				End of Comment	
112	(70)	ADDRESS	4	CKRECB (0)	ECB USED FOR ALL WTOR'S
132	(84)	ADDRESS	4	CKRSAVHF	ANCHOR FOR SAVED HFAM'S
136	(88)	CHARACTER	8	CKRCKPTD	'CKPTDEF' when needed
144	(90)	CHARACTER	144	CKRESPON	ALL REPLIES TO WTOR'S COME HERE
				Comment	
					------ $BLDMSG MF=L List form of $BLDMSG
				End of Comment	
288	(120)	SIGNED	4	CKRMSGL (0)	Control block ID
292	(124)	BITSTRING	4		Console ID
296	(128)	ADDRESS	4		Address of the CART
300	(12C)	ADDRESS	4		Pointer for JOBID
304	(130)	ADDRESS	4		Control block address
308	(134)	ADDRESS	4		Display routine address
312	(138)	ADDRESS	4	(6)	6 word work area
336	(150)	BITSTRING	2		ROUT code for Message
338	(152)	BITSTRING	2		Not used
340	(154)	CHARACTER	4		Message ID
344	(158)	CHARACTER	1		Separator character
345	(159)	ADDRESS	1		Flag byte 1
346	(15A)	ADDRESS	1		'DISPER'
347	(15B)	ADDRESS	1		Flag byte 2
348	(15C)	BITSTRING	16		Not used
364	(16C)	ADDRESS	4	(0)	Ensure multiple of 4
364	(16C)	ADDRESS	2	(0)	
364	(16C)	ADDRESS	4	CKRCKGW	Spare CKG pointer
368	(170)	ADDRESS	4	CKRECLST (2)	ECB LIST
				Comment	
					BLD parameter list used as $SCAN token by the $MSGDISR display routine ------- $BLDMSG MF=L For HASP272 init stmt reply
				End of Comment	
376	(178)	SIGNED	4	CKRSDBLD (0)	Control block ID
380	(17C)	BITSTRING	4		Console ID
384	(180)	ADDRESS	4		Address of the CART
388	(184)	ADDRESS	4		Pointer for JOBID
392	(188)	ADDRESS	4		Control block address
396	(18C)	ADDRESS	4		Display routine address
400	(190)	ADDRESS	4	(6)	6 word work area
424	(1A8)	BITSTRING	2		ROUT code for Message
426	(1AA)	BITSTRING	2		Not used
428	(1AC)	CHARACTER	4		Message ID
432	(1B0)	CHARACTER	1		Separator character
433	(1B1)	ADDRESS	1		Flag byte 1
434	(1B2)	ADDRESS	1		'DISPER'
435	(1B3)	ADDRESS	1		Flag byte 2
436	(1B4)	BITSTRING	16		Not used
452	(1C4)	ADDRESS	4	(0)	Ensure multiple of 4
452	(1C4)	ADDRESS	2	(0)	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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.
					End of Comment
452	(1C4)	BITSTRING	72	CKRVECTR	RESPONSE VECTOR
524	(20C)	BITSTRING	72	CKRHFAME	TEMPORARY HFAME
596	(254)	BITSTRING	1	CKRMFLAG	FLAG BYTE USED FOR MESSAGE CREATION
					Comment
					PARAMETER LIST FOR KTRK1IO ROUTINE
					End of Comment
600	(258)	ADDRESS	4	CKRPARMX (0)	PARAMETER LIST FOR $CALLS
600	(258)	ADDRESS	4	CKRTCKG1	ADDRESS OF CKG1
604	(25C)	ADDRESS	4	CKRTCKG2	ADDRESS OF CKG2
608	(260)	ADDRESS	4	CKRTKYR1	ADDRESS OF KEY COMP FOR DS1
612	(264)	ADDRESS	4	CKRTKYR2	ADDRESS OF KEY COMP FOR DS2
616	(268)	ADDRESS	4	CKRTKYW1	ADDRESS KEY WRITE FOR DS1
620	(26C)	ADDRESS	4	CKRTKYW2	ADDRESS KEY WRITE FOR DS2
620	(26C)	X'258'	0	CKRPARM	"CKRPARMX,*-CKRPARMX" PARAMETER LIST
600	(258)	BITSTRING	12	CKRTQE	TQE AREA
624	(270)	ADDRESS	4	CKRCVCKG	ADDRESS OF CKG WHICH HAS HAD AN I/O ERROR AS A COMPANION
628	(274)	ADDRESS	4		RESERVED FOR FUTURE USE
632	(278)	ADDRESS	4	(0)	ENSURE WORK AREA ENDS ON WORD BOUNDARY
					Comment
					Equates for HASPCKDS as a function indicator for type of work to do in subroutines - KDLRFORW, KDLRSUSP, KDLRRESM, KDLROPT1, KDLROPT5, and KDLROPT7
					End of Comment
632	(278)	X'0'	0	CKRPROC	"0" Process the function
632	(278)	X'4'	0	CKRFNSH	"4" Finish up remaining work
632	(278)	X'8'	0	CKRCLEN	"8" Clean up the work
632	(278)	X'C'	0	CKRDRVF	"12" Handle driver failure
632	(278)	X'278'	0	CKRSIZE	"*-CKR" SIZE OF WORK AREA

$CKPRECV Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKR	0		CKRDM233	28	
CKRACODE	20		CKRDM235	2C	
CKRAERRC	1C		CKRDM237	30	
CKRCACT	18		CKRDM270	34	
CKRCKG	4		CKRDM271	38	
CKRCKGW	16C		CKRDM272	3C	
CKRCKG2	8		CKRDM273	40	
CKRCKPTD	88		CKRDM275	44	
CKRCLEN	278	8	CKRDM276	48	
CKRCOUNT	14		CKRDM277	4C	
CKRCVCKG	270		CKRDM278	50	
CKRDMFST	28		CKRDM281	54	
CKRDMINT	6C		CKRDM282	58	
CKRDMLST	6C	6C	CKRDM284	5C	

Name	Hex Offset	Hex Value
CKRDM285	60	
CKRDM294	64	
CKRDM299	68	
CKRDRVF	278	C
CKRECB	70	
CKRECLST	170	
CKRESPON	90	
CKRFLAG1	C	
CKRFLAG2	D	
CKRFLAG3	E	
CKRFLAG4	F	
CKRFLAG5	10	
CKRFNSH	278	4
CKRHFAME	20C	
CKRID	0	
CKRMFLAG	254	
CKRMSGL	120	C2D3C440
CKRPARM	26C	258
CKRPARMX	258	
CKRPROC	278	0
CKRRTCD1	24	
CKRSAVHF	84	
CKRSDBLD	178	C2D3C440
CKRSIZE	278	278
CKRTCKG1	258	
CKRTCKG2	25C	
CKRTKYR1	260	
CKRTKYR2	264	
CKRTKYW1	268	
CKRTKYW2	26C	
CKRTQE	258	
CKRVECTR	1C4	
CKR1INIT	C	10
CKR1IOER	C	40
CKR1LIM	C	80
CKR1OTH	C	4
CKR1QUSE	C	1
CKR1RECO	C	20
CKR1STAT	C	2
CKR1THIS	C	8
CKR2CREA	D	4
CKR2DEL	D	10
CKR2KNUL	D	16
CKR2KRSV	D	1
CKR2MIOE	D	40
CKR2NCRE	D	2
CKR2OPT7	D	20
CKR2RECR	D	80
CKR4CFV	F	40
CKR4FWC1	F	10
CKR4FWC2	F	8
CKR4ILEV	F	80
CKR4OAR	F	4
CKR4OPV	F	20
CKR5CRC	10	80
CKR5CRCJ	10	20
CKR5CRCO	10	40

$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 Map

Offsets					
Dec	Hex	Type/Value	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
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	CKQNEXT	Next CB on work queue
12	(C)	SIGNED	4	CKQREGS (2)	R0 and R1 on entry to service
20	(14)	ADDRESS	4	CKQRTNA	Address of routine
24	(18)	ADDRESS	4	CKQPCE	Address of associated PCE
24	(18)	X'1C'	0	CKQLEN	"*-CKPTQCB" Length of CKPTQCB

$CKPTQCB Cross Reference

Name	Hex Offset	Hex Value
CKPTQCB	0	
CKQID	0	C3D2D840
CKQLEN	18	1C
CKQNEXT	8	
CKQPCE	18	
CKQREGS	C	
CKQRTNA	14	
CKQVERN	4	1
CKQVERSN	4	

$CKPWORK Programming Interface information

Programming Interface information

$CKPWORK

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP CHECKPOINT PROCESSOR
240	(F0)	ADDRESS	4	CKPXREQ	Pointer to XREQ area
244	(F4)	SIGNED	4		Reserved for future use
248	(F8)	DBL WORD	8	CKPGTLKT	TIME SYSTEM GOT CKPT LOCK
256	(100)	DBL WORD	8	CKPRLSET	TIME SYSTEM GAVE UP LOCK
264	(108)	SIGNED	4	CKPHLTIM	Checkpoint held time
268	(10C)	SIGNED	4	CKPDRMTM	Checkpoint dormancy time
272	(110)	SIGNED	2	CKPUWORK	General work area
274	(112)	BITSTRING	4	CKPUMASK	General work mask
278	(116)	BITSTRING	1	CKPFLAG1	FLAG BYTE --
		1...		CKP1FILL	"B'10000000'" TGB HAS BEEN FILLED

Comment

COMPATABILITY

End of Comment

		.1..		CKP1JQTR	"B'01000000'" Reconcile JQTs needed
		..1.		CKP1OFLW	"B'00100000'" CH LOG IS OVERFLOWING
		...1		CKP1SFMI	"B'00010000'" SPOOL FULL MSG ISSUED
		.... 1...		CKP1PCAP	"B'00001000'" APPLCOPY 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 KBLOB)
279	(117)	BITSTRING	1		Reserved for future use

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
280	(118)	SIGNED	2		RESERVED FOR FUTURE USE
282	(11A)	SIGNED	2	CKPSRCHO	SEARCH OFFSET WITHIN EXTENT
284	(11C)	SIGNED	4	(0)	
284	(11C)	BITSTRING	12	CKPSTQE	$STIMER QUEUE ELEMENT
296	(128)	BITSTRING	12	CKPMITQE	$STIMER QUEUE ELEMENT FOR MAX INTERVAL TO WAIT BEFORE INITIATING A CHECKPOINT WRITE
308	(134)	BITSTRING	20	CKPAPECB	HASPCKAP ECB
328	(148)	SIGNED	4	CKPAPTIM	TIME OF LAST HASPCKAP POST
332	(14C)	SIGNED	4	CKPBTIME	SPOOL WARNING TIME STAMP
336	(150)	ADDRESS	4	CKPPALA	ADDRESS OF PAGE ADDR LIST
340	(154)	ADDRESS	4	CKPTRPTR	ADDRESS OF THE CHECKPOINT TRACE WORK AREA
344	(158)	ADDRESS	4	CKPCLENT	ADDRESS OF THE NEXT AVAILABLE ENTRY IN THE CHANGE LOG
348	(15C)	SIGNED	4	CKPUSER1	RESERVED FOR USER
352	(160)	SIGNED	4	CKPUSER2	RESERVED FOR USER
356	(164)	SIGNED	4	CKPSTCK	TIMER SAVE AREA
360	(168)	SIGNED	4	CKPDASN	ADDRESS OF NEXT DAS FOR BLOB
364	(16C)	BITSTRING	32	CKPBLMPR	Previous mask of volumes in the BLOB (from last time through KBLOB)
396	(18C)	BITSTRING	32	CKPBLMSK	Mask of volumes in BLOB with affinity for this member
428	(1AC)	BITSTRING	32	CKPBLMFN	Mask of vols in BLOB at end of KBLOB (may include vols without affinity for the member)
460	(1CC)	BITSTRING	32	CKPBLMWK	Work mask for KBLOB
492	(1EC)	BITSTRING	1		Reserved for future use
493	(1ED)	BITSTRING	1	CKPDASP2	'M' of next DAS to use when filling BLOB round- robin from the DASes
494	(1EE)	SIGNED	2	CKPRETRY	I/O ERROR RETRY COUNTER +1
496	(1F0)	CHARACTER	4	CKPRLSID	SYSTEM NAME AND AFFINITY
500	(1F4)	ADDRESS	1	CKPRLAFF	FROM $ESYS,RESET=
501	(1F5)	BITSTRING	1	CKPBLCNT	COUNT OF SPOOLS IN BLOB
502	(1F6)	SIGNED	2	CKPTGESZ	Max num of entries in BLOB
504	(1F8)	SIGNED	4	CKPQLOCK (0)	Query Lock work area
504	(1F8)	SIGNED	4	CKPQSSID	System ID of lock holder
508	(1FC)	CHARACTER	16	CKPQSSNM	System name of lock holder
508	(1FC)	X'14'	0	CKPQLLEN	"*-CKPQLOCK" Length of Query Lock
508	(1FC)	X'1FB'	0	CKPSTLID	"CKPQSSID+3" 1 byte lock id to be cleared via $SYS,RESET=
524	(20C)	SIGNED	4	CKPQSOLD	System ID of previous CF lock holder
528	(210)	DBL WORD	8	CKPCSTRT	STCK WHEN CKPT STARTED CYCLE (KRESERVE ISSUED)
536	(218)	ADDRESS	4	CKPECMBF	Addr of first CMB for reset of checkpoint lock FIFO q
540	(21C)	ADDRESS	4	CKPECNID	Console id for reset lock messages
544	(220)	CHARACTER	8	CKPECART	CART for reset lock msgs
552	(228)	ADDRESS	4	CKPKITPS	Address of KIT PSTs
556	(22C)	SIGNED	4		Reserved
560	(230)	DBL WORD	8	(0)	
560	(230)	X'140'	0	CKPPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

$CKPWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKPAPECB	134		CKPECMBF	218	
CKPAPTIM	148		CKPECNID	21C	
CKPBLCNT	1F5		CKPFLAG1	116	
CKPBLMFN	1AC		CKPGTLKT	F8	
CKPBLMPR	16C		CKPHLTIM	108	
CKPBLMSK	18C		CKPKITPS	228	
CKPBLMWK	1CC		CKPMITQE	128	
CKPBTIME	14C		CKPPALA	150	
CKPCLENT	158		CKPPCEWS	230	140
CKPCSTRT	210		CKPQLLEN	1FC	14
CKPDASN	168		CKPQLOCK	1F8	
CKPDASP2	1ED		CKPQSOLD	20C	
CKPDRMTM	10C		CKPQSSID	1F8	
CKPECART	220		CKPQSSNM	1FC	

$CKPWORK Cross Reference

Name	Hex Offset	Hex Value
CKPRETRY	1EE	
CKPRLAFF	1F4	
CKPRLSET	100	
CKPRLSID	1F0	
CKPSRCHO	11A	
CKPSTCK	164	
CKPSTLID	1FC	1FB
CKPSTQE	11C	
CKPTGESZ	1F6	
CKPTRPTR	154	
CKPUMASK	112	
CKPUSER1	15C	
CKPUSER2	160	
CKPUWORK	110	
CKPXREQ	F0	
CKP1FILL	116	80
CKP1JQTR	116	40
CKP1LHBS	116	2
CKP1OFLW	116	20
CKP1PCAP	116	8
CKP1SFMI	116	10
CKP1STOP	116	1
CKP1VLEN	116	4
PCE	0	

$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 (HASPCKPT and HASPCKDS). 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 Map

Offsets					
Dec	Hex	Type/Value	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'3'	0	CKWVERN	"3" Version number
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	CKWFLAG1	Ckpt work area flags
		1...		CKW1FNLW	"B'10000000'" FINAL CHECKPOINT DS WRITE
		.1..		CKW1OFLW	"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..		CKW1SPIO	"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)
7	(7)	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
8	(8)	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
8	(8)	X'E0'	0	CKWSCNL	"CKWSCF+CKWSDSN+CKWSVOL" (NEW)CKPTn level bits
		1		CKWSNCN	"B'00000001'" NEWCKPTn was changed

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	X'1'	0	CKWSCDL	"CKWSNCN" CKPTDEF level bits
9	(9)	BITSTRING	1	CKWFLAG3	CKPT Work flag 3
		1...		CKW3FMFX	"B'10000000'" KFORMAT fixed pages for I/O to DASD
		.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
10	(A)	BITSTRING	1	CKWFLAG4	CKPT Work Flag 4
		1...		CKW4WTO1	"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
		.... 1...		CKW4IGNO	"B'00001000'" VOLATILE=ALLCKPT=IGNORE
		.... .1..		CKW4DIAG	"B'00000100'" VOLATILE=ALLCKPT=DIALOG
11	(B)	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
12	(C)	BITSTRING	1	CKWRECF3	Shadow copy of CKRFLAG3
13	(D)	BITSTRING	3	CKWRESV1	Reserved for future IBM use
16	(10)	BITSTRING	4	CKWRCID	Connection id of member holding the lock if the reserve data set is on a structure
20	(14)	ADDRESS	4	CKWLKIT	Local KIT information
24	(18)	SIGNED	2	CKWLKNUM	Number of local KITs
26	(1A)	SIGNED	2	CKWMAXRC	Maximum # of 4K CKPT pages
28	(1C)	ADDRESS	4	CKWIO24K	I/O area to 4K page index
32	(20)	ADDRESS	4	CKWCKMA	Address of CKM control blk
36	(24)	ADDRESS	4	CKWPPLA	ADDRESS OF PAGE POINTER LIST
40	(28)	ADDRESS	4	CKWCTWA	ADDRESS OF CKPT TRACE WORK AREA
44	(2C)	SIGNED	4	CKWERREG (16)	SAVE AREA FOR REGS IF ERROR
108	(6C)	ADDRESS	4	CKWCURCG	CKG OF DS BEING PROCESSED
112	(70)	SIGNED	4	CKWMSTRL	Len of $MASTERI page fixed
116	(74)	SIGNED	2	CKWLIRCT	LOST INTERRUPT RETRY COUNTER
118	(76)	SIGNED	2	CKWPCIRC	Record count for PCIs
118	(76)	X'7D0'	0	CKWPCICT	"2000" PCI frequency value

Comment

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).

End of Comment

120	(78)	SIGNED	4	CKWCKPTN	Number of $CKPTs issued
128	(80)	DBL WORD	8	CKWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
136	(88)	DBL WORD	8	CKWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
144	(90)	SIGNED	4	CKWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
148	(94)	SIGNED	4	CKWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
152	(98)	SIGNED	4	CKWOPT4K	Number of 4K pages skipped due to CKPT optimization
156	(9C)	SIGNED	4	CKWPAGCT	4K pages in current I/O
160	(A0)	SIGNED	4	CKWCBCNT	CBs in change log for I/O
164	(A4)	SIGNED	4	CKWCKPSZ	Size of checkpoint data

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
CKC fixed area work area					
				End of Comment	
168	(A8)	ADDRESS	4	CKWCKCLP	1st non-page fixed byte at beginning of CKC
172	(AC)	ADDRESS	4	CKWCKCSP	Start of page fixed area at end of CKC
176	(B0)	ADDRESS	4	CKWCKCLW	Max low area in CKC used
180	(B4)	ADDRESS	4	CKWCKCHW	Max high area in CKC used
184	(B8)	ADDRESS	4	CKWCKCTM	Time of last CKC adjustment
				Comment	
The following are work areas used in building channel programs (routines KB4KCCWS, KBCLCCWS)					
				End of Comment	
188	(BC)	SIGNED	2	CKWRECNT	Current adjacent record cnt
190	(BE)	BITSTRING	1	CKWRWOP	The R/W CCW op code
191	(BF)	BITSTRING	1	CKWCCWFL	CCW build flag byte
		1...		CKWCECKD	"B'10000000'" Build ECKD CCWs
		.1..		CKWCADJ	"B'01000000'" Adjacent records flag
		..1.		CKWC1ST	"B'00100000'" 1st CCW packet added
192	(C0)	ADDRESS	4	CKWCCWA	Pointer to last used CCW
196	(C4)	ADDRESS	4	CKWCKDA	Pointer to available data area
200	(C8)	ADDRESS	4	CKWCTLBA	1st CTLB used to build CCWs
204	(CC)	ADDRESS	4	CKWCTLB0	Zero-th byte of CTLBs
208	(D0)	ADDRESS	4	CKWFIXST	Starting addr of fix-list
212	(D4)	SIGNED	4	CKWCLSTA	Record # for previous CCWs
216	(D8)	ADDRESS	4	CKWSHLST	Address of share list
220	(DC)	ADDRESS	4	CKWIOLST	Address of I/O needed list
				Comment	
General parameter list					
				End of Comment	
224	(E0)	SIGNED	4	(0)	
224	(E0)	BITSTRING	0	CKWPARMS (0)	GENERAL PARAMETER LIST
224	(E0)	ADDRESS	4	CKWPARM1	PARAMETER WORD 1
228	(E4)	ADDRESS	4	CKWPARM2	PARAMETER WORD 2
232	(E8)	ADDRESS	4	CKWPARM3	PARAMETER WORD 3
236	(EC)	ADDRESS	4	CKWPARM4	PARAMETER WORD 4
240	(F0)	ADDRESS	4	CKWPARM5	PARAMETER WORD 5
244	(F4)	ADDRESS	4	CKWPARM6	PARAMETER WORD 6
244	(F4)	X'18'	0	CKWPARML	"*-CKWPARMS" LENGTH OF GENERAL PARM LIST
248	(F8)	BITSTRING	8	CKWLKEY1	CKPT1 LOCK KEY COMPARAND VAL
256	(100)	BITSTRING	8	CKWLKEY2	CKPT2 LOCK KEY COMPARAND VAL
264	(108)	BITSTRING	8	CKWLKVL1	CKPT1 LOCK KEY WRITE VALUE
272	(110)	BITSTRING	8	CKWLKVL2	CKPT2 LOCK KEY WRITE VALUE
280	(118)	SIGNED	4	CKWKT1RC	KTRK1IO - RETURN CODE SAVE
284	(11C)	SIGNED	4	CKWCT1RC	CFTRK1IO - return code save
288	(120)	SIGNED	4	CKWCFAIL	CFTRK1IO - failing CKG
292	(124)	SIGNED	4	CKWDFAIL	KTRK1IO - failing CKG
296	(128)	ADDRESS	4	CKWCFTD	CF Trace data table
304	(130)	DBL WORD	8	CKWKT1PK	KTRK1IO - 1ST CCW PACKET (PSEUDO TIC CCW)
312	(138)	DBL WORD	8	CKWINITM	Time IRDA got the CKPT data set lock
320	(140)	DBL WORD	8	CKWCFWTM	Time CKPT started waiting for CF (CFWAIT)
328	(148)	SIGNED	4	CKWCFWRE	R14 at time CFWAIT called
332	(14C)	SIGNED	4	CKWFMCKG	CKG work area - KFORMAT
336	(150)	DBL WORD	8	(0)	Align next field
336	(150)	CHARACTER	8	CKWCFLVL	$CKPTLEV when CF subtask is posted
336	(150)	X'154'	0	CKWCFLVN	"CKWCFLVL+4,4,C'F'" 4 byte level for PLX code

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
344	(158)	DBL WORD	8	CKWR2LEV	CKPT level at last Read 2
352	(160)	DBL WORD	8	CKWWRLEV	CKPT level at last IW/FW
360	(168)	SIGNED	4	CKWRECB (0)	CKPT RESERVE ECB
380	(17C)	BITSTRING	12	CKWKSTQE	TIMER ELEMENT FOR CKPT SERVICES
392	(188)	SIGNED	4	CKWQECB (0)	KWRITE HASP272 msg ecb
412	(19C)	CHARACTER	8	CKWQREPL	KWRITE HASP272 reply area
420	(1A4)	BITSTRING	4	CKWCONID	Dialog console id

Comment

DOM IDs for HASP256 message

End of Comment

424	(1A8)	SIGNED	4	CKWDRNC1	DOMID FOR $HASP256 NEWCKPT1
428	(1AC)	SIGNED	4	CKWDRNC2	DOMID FOR $HASP256 NEWCKPT2
432	(1B0)	CHARACTER	80	CKWMSG	MESSAGE WORK AREA

Comment

------- $BLDMSG MF=L List form of $BLDMSG

End of Comment

512	(200)	SIGNED	4	CKWBLMSG (0)	Control block ID
516	(204)	BITSTRING	4		Console ID
520	(208)	ADDRESS	4		Address of the CART
524	(20C)	ADDRESS	4		Pointer for JOBID
528	(210)	ADDRESS	4		Control block address
532	(214)	ADDRESS	4		Display routine address
536	(218)	ADDRESS	4	(6)	6 word work area
560	(230)	BITSTRING	2		ROUT code for Message
562	(232)	BITSTRING	2		Not used
564	(234)	CHARACTER	4		Message ID
568	(238)	CHARACTER	1		Separator character
569	(239)	ADDRESS	1		Flag byte 1
570	(23A)	ADDRESS	1		'DISPER'
571	(23B)	ADDRESS	1		Flag byte 2
572	(23C)	BITSTRING	16		Not used
588	(24C)	ADDRESS	4	(0)	Ensure multiple of 4
588	(24C)	ADDRESS	2	(0)	
588	(24C)	SIGNED	4	CKWPPL (0)	PURGE PARAMETER LIST
604	(25C)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
604	(25C)	CHARACTER	12	CKWSTAR (0)	STAR PARM LIST MAP
604	(25C)	SIGNED	4	STARUCBA (0)	UCB ADDRESS
604	(25C)	SIGNED	4	STARDCTA (0)	DEVICE TABLE ADDRESS
604	(25C)	BITSTRING	3		
607	(25F)	BITSTRING	1	STARTYPE	DEVICE TYPE
608	(260)	BITSTRING	1	STARFLGS	FUNCTION AND OPTIONS
		1...		STARFUNC	"B'10000000'" FUNCTION: 0=TRKBAL, 1=TRKCAP
		.1..		STARMAXS	"B'01000000'" 1=MAXSIZE REQUESTED
		..1.		STARREMV	"B'00100000'" 1=REMOVE REQUESTED
		...1		STARUBAL	"B'00010000'" 1=CALLER PROVIDED BALANCE
		.... 1...		STARLAST	"B'00001000'" 1=SPECIAL LAST RCD REQUEST
		.... .11.		STARDTU	"B'00000110'" DVCT ENTRY SOURCE FLAGS: 00=DVCT ENTRY ADDRESS PROVIDED 01=RESERVED 10=UCB ADDRESS PROVIDED 11=DEVICE TYPE PROVIDED
		1		STARLOC	"B'00000001'" LOC=ANY. DEVTAB OR UCB ABOVE THE LINE
609	(261)	BITSTRING	1		RESERVED
610	(262)	SIGNED	2	STARBAL	TRACK BALANCE
612	(264)	SIGNED	4	STARRKDD (0)	RECORD INFO AS DEFINED BELOW
612	(264)	BITSTRING	1	STARR	RECORD NUMBER
613	(265)	BITSTRING	1	STARKL	KEY LENGTH
614	(266)	SIGNED	2	STARDL	DATA LENGTH

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
616	(268)	ADDRESS	4	CKWRESVS (0)	RESERVE MF=L BEGINS HERE
					Comment
					MACRO-DATE = 05/05/95
					End of Comment
616	(268)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
616	(268)	ADDRESS	4		PREFIX - ECB ADDRESS
616	(268)	X'26C'	0	CKWRESV	"*" X02113
620	(26C)	ADDRESS	1		PELLAST flag byte. X02113
621	(26D)	ADDRESS	1		PELMILEN - RNAME length.
622	(26E)	BITSTRING	1		
					Comment
					PELFLAG - flag byte 2.
					End of Comment
623	(26F)	ADDRESS	1		PELRET - return code byte.
624	(270)	ADDRESS	4		QNAME ADDRESS
628	(274)	ADDRESS	4		RNAME ADDRESS
632	(278)	ADDRESS	4		PELUCBAA - address to pointer to UCB.
632	(278)	X'268'	0	CKWRESVL	"CKWRESVS,*-CKWRESVS" MF=L FORM OF RESERVE
616	(268)	ADDRESS	4	CKWDEQS (0)	DEQ MF=L BEGINS HERE
					Comment
					MACRO-DATE = 01/17/01
					End of Comment
616	(268)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
616	(268)	X'268'	0	CKWDEQ	"*" X02113
616	(268)	ADDRESS	1		PELLAST flag byte. X02113
617	(269)	ADDRESS	1		PELMILEN - RNAME length.
618	(26A)	BITSTRING	1		
					Comment
					PELFLAG - flag byte 2.
					End of Comment
619	(26B)	ADDRESS	1		PELRET - return code byte.
620	(26C)	ADDRESS	4		QNAME ADDRESS
624	(270)	ADDRESS	4		RNAME ADDRESS
628	(274)	ADDRESS	4		PELUCBAA - address to pointer to UCB.
628	(274)	X'268'	0	CKWDEQL	"CKWDEQS,*-CKWDEQS" MF=L FORM OF DEQ
					Comment
					MACDATE -04/12/94-<0>
					End of Comment
616	(268)	SIGNED	2	M00M0860 (0)	IXLPURGE-0
616	(268)	DBL WORD	8	CKWCFPUR (0)	++ IXLPURGE PARM LIST
616	(268)	BITSTRING	1	CKWCFPUR_XVERSION	
					++ INPUT XVERSION
617	(269)	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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"B'00100000'" ++ XSCOPE.CONTOKEN KEYWORD
618	(26A)	CHARACTER	2	CKWCFPUR_XRSV0001	
					++ RESERVED XRSV0001
620	(26C)	CHARACTER	8	CKWCFPUR_XSTOKEN	
					++ XSTOKEN
628	(274)	CHARACTER	16	CKWCFPUR_XTTOKEN	
					++ XTTOKEN
644	(284)	CHARACTER	16	CKWCFPUR_XCONTOKEN	
					++ XCONTOKEN
660	(294)	CHARACTER	8	CKWCFPUR_XREQID	
					++ XREQID
660	(294)	X'34'	0	CKWCFPURL	"*-CKWCFPUR" ++ LENGTH OF PLIST

Comment

IXLPURGE-0

End of Comment

0	(0)	X'268'	0	CKWCFPRL	"CKWCFPUR,*-CKWCFPUR" Length of IXLPURGE
0	(0)	X'268'	0	M00M0861	"CKWXLIST" ++ IXLLIST NAME
616	(268)	DBL WORD	8	CKWXLIST (0)	++ IXLLIST PARM LIST
616	(268)	CHARACTER	96	CKWXLIST_XSHL_DATA	
					++ FIELD_LABEL XSHL_DATA
712	(2C8)	CHARACTER	4	CKWXLIST_XMOB_DATA	
					++ FIELD_LABEL XMOB_DATA
716	(2CC)	CHARACTER	112	CKWXLIST_XMCB_DATA1	
					++ FIELD_LABEL XMCB_DATA1
828	(33C)	CHARACTER	20	CKWXLIST_XMCB_DATA2	
					++ FIELD_LABEL XMCB_DATA2
828	(33C)	X'350'	0	CKWXLIST_PL_END	
					"*" ++ END OF BASE PLIST
616	(268)	BITSTRING	1	CKWXLIST_XVERSION	
					++ INPUT XVERSION
617	(269)	BITSTRING	1	CKWXLIST_XCMDCODE	
					++ FIELD_LABEL XCMDCODE
618	(26A)	CHARACTER	4	CKWXLIST_XSHLFLGS	
					++ FIELD_LABEL XSHLFLGS
622	(26E)	CHARACTER	2	CKWXLIST_XRSV0102	
					++ RESERVED XRSV0102
624	(270)	BITSTRING	1	CKWXLIST_XCOMPCONID	
					++ FIELD_LABEL XCOMPCONID
625	(271)	BITSTRING	1	CKWXLIST_XBUFSTGKEY	
					++ XBUFSTGKEY
626	(272)	BITSTRING	2	CKWXLIST_XANSLEN	
					++ XANSLEN
628	(274)	CHARACTER	16	CKWXLIST_XCONTOKEN	
					++ XCONTOKEN
644	(284)	CHARACTER	12	CKWXLIST_XDATADDR	
					++ FIELD_LABEL XDATADDR
656	(290)	CHARACTER	8	CKWXLIST_XADJADDR	
					++ FIELD_LABEL XADJADDR
664	(298)	CHARACTER	8	CKWXLIST_XANSADDR	
					++ FIELD_LABEL XANSADDR
672	(2A0)	CHARACTER	8	CKWXLIST_XREQDATA	
					++ XREQDATA
680	(2A8)	CHARACTER	8	CKWXLIST_XREQID	
					++ XREQID
688	(2B0)	CHARACTER	16	CKWXLIST_XOPTIONALDATA	
					++ FIELD_LABEL XOPTIONALDATA
704	(2C0)	CHARACTER	8	CKWXLIST_XRSV0103	
					++ RESERVED XRSV0103
618	(26A)	BITSTRING	1	CKWXLIST_XSHLFLGS1	
					++ FIELD_LABEL
		1...		CKWXLIST_KEYUSED_BUFFER	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"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
619	(26B)	BITSTRING	1	CKWXLIST_XSHLFLGS2	
					++ FIELD_LABEL
		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_ASYNCECB	
					"B'00010000'" ++ XMODE.ASYNCECB KEYWORD
		.... 1...		CKWXLIST_XMODE_ASYNCEXIT	
					"B'00001000'" ++ XMODE.ASYNCEXIT KEYWORD
		.... .1..		CKWXLIST_XMODE_ASYNCTOKEN	
					"B'00000100'" ++ XMODE.ASYNCTOKEN KEYWORD
		.... ..1.		CKWXLIST_XMODE_ASYNCNORESPONSE	
					"B'00000010'" ++ XMODE.ASYNCNORESPONSE KEYWORD
620	(26C)	BITSTRING	1	CKWXLIST_XSHLFLGS3	
					++ 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_HELDBY	
					"B'00010000'" ++ XLOCKOPER.HELDBY 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
621	(26D)	BITSTRING	1	CKWXLIST_XSHLFLGS4	
					++ 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
628	(274)	CHARACTER	13	CKWXLIST_XRSV0201	
					++ RESERVED XRSV0201
641	(281)	BITSTRING	1	CKWXLIST_XCONID	
					++ FIELD_LABEL XCONID
642	(282)	CHARACTER	2	CKWXLIST_XRSV0202	
					++ RESERVED XRSV0202
644	(284)	SIGNED	4	CKWXLIST_XBUFFER_ALET	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ ALET XBUFFER
648	(288)	SIGNED	4	CKWXLIST_XBUFSIZE	
					++ XBUFSIZE
652	(28C)	ADDRESS	4	CKWXLIST_XBUFFER	
					++ XBUFFER
644	(284)	SIGNED	4	CKWXLIST_XBUFALET	
					++ XBUFALET
648	(288)	SIGNED	4	CKWXLIST_XBUFLIST_ALET	
					++ ALET XBUFLIST
652	(28C)	ADDRESS	4	CKWXLIST_XBUFLIST	
					++ XBUFLIST
656	(290)	SIGNED	4	CKWXLIST_XADJAREA_ALET	
					++ ALET XADJAREA
660	(294)	ADDRESS	4	CKWXLIST_XADJAREA	
					++ XADJAREA
656	(290)	SIGNED	4	CKWXLIST_XMOSVECTOR_ALET	
					++ ALET XMOSVECTOR
660	(294)	ADDRESS	4	CKWXLIST_XMOSVECTOR	
					++ XMOSVECTOR
664	(298)	SIGNED	4	CKWXLIST_XANSAREA_ALET	
					++ ALET XANSAREA
668	(29C)	ADDRESS	4	CKWXLIST_XANSAREA	
					++ XANSAREA
672	(2A0)	ADDRESS	4	CKWXLIST_XREQECB	
					++ XREQECB
676	(2A4)	CHARACTER	4	CKWXLIST_XRSV0203	
					++ RESERVED XRSV0203
672	(2A0)	SIGNED	4	CKWXLIST_XREQTOKEN_ALET	
					++ ALET XREQTOKEN
676	(2A4)	ADDRESS	4	CKWXLIST_XREQTOKEN	
					++ XREQTOKEN
688	(2B0)	CHARACTER	8	CKWXLIST_XLOCKDATA	
					++ XLOCKDATA
696	(2B8)	CHARACTER	8	CKWXLIST_XRSV0204	
					++ RESERVED XRSV0204
688	(2B0)	CHARACTER	16	CKWXLIST_XEXTRESTOKEN	
					++ XEXTRESTOKEN
688	(2B0)	CHARACTER	8	CKWXLIST_XEXTRESTOKENTKN	
					++ FIELD_LABEL XEXTRESTOKENTKN
696	(2B8)	CHARACTER	8	CKWXLIST_XEXTRESTOKENPSVN	
					++ FIELD_LABEL XEXTRESTOKENPSVN
712	(2C8)	BITSTRING	2	CKWXLIST_XCMDLEN	
					++ FIELD_LABEL XCMDLEN
714	(2CA)	BITSTRING	1	CKWXLIST_XBUFNUM	
					++ XBUFNUM
715	(2CB)	BITSTRING	1	CKWXLIST_XBUFINCRNUM	
					++ XBUFINCRNUM
716	(2CC)	CHARACTER	1	CKWXLIST_XCCA	
					++ FIELD_LABEL XCCA
717	(2CD)	CHARACTER	1	CKWXLIST_XCCB	
					++ FIELD_LABEL XCCB
718	(2CE)	CHARACTER	2	CKWXLIST_XRSV0501	
					++ RESERVED XRSV0501
720	(2D0)	BITSTRING	4	CKWXLIST_XCMDFLGS1	
					++ FIELD_LABEL XCMDFLGS1
724	(2D4)	CHARACTER	4	CKWXLIST_XB8TO11	
					++ FIELD_LABEL XB8TO11
728	(2D8)	SIGNED	4	CKWXLIST_XLOCKINDEX	
					++ XLOCKINDEX
732	(2DC)	SIGNED	4	CKWXLIST_XLISTNUM	
					++ XLISTNUM
736	(2E0)	CHARACTER	12	CKWXLIST_XENTRYID	
					++ XENTRYID
748	(2EC)	CHARACTER	8	CKWXLIST_XNEWVERS	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ XNEWVERS
756	(2F4)	CHARACTER	8	CKWXLIST_XVERSCOMP	
					++ XVERSCOMP
764	(2FC)	CHARACTER	16	CKWXLIST_XAUTHCOMP1	
					++ FIELD_LABEL XAUTHCOMP1
780	(30C)	CHARACTER	16	CKWXLIST_XNEWAUTH1	
					++ FIELD_LABEL XNEWAUTH1
796	(31C)	CHARACTER	32	CKWXLIST_XLISTDESC	
					++ XLISTDESC
720	(2D0)	CHARACTER	1	CKWXLIST_XCMDFLGS1A	
					++ FIELD_LABEL XCMDFLGS1A
721	(2D1)	CHARACTER	1	CKWXLIST_XCMDFLGS1B	
					++ FIELD_LABEL XCMDFLGS1B
722	(2D2)	CHARACTER	1	CKWXLIST_XCMDFLGS1C	
					++ FIELD_LABEL XCMDFLGS1C
723	(2D3)	CHARACTER	1	CKWXLIST_XCMDFLGS1D	
					++ FIELD_LABEL XCMDFLGS1D
720	(2D0)	BITSTRING	1	CKWXLIST_XELEMNUM	
					++ XELEMNUM
720	(2D0)	BITSTRING	1	CKWXLIST_XDBS	
					++ FIELD_LABEL XDBS
723	(2D3)	CHARACTER	1	CKWXLIST_XUID3	
					++ FIELD_LABEL XUID3
724	(2D4)	CHARACTER	3	CKWXLIST_XRSV0502	
					++ RESERVED XRSV0502
727	(2D7)	CHARACTER	1	CKWXLIST_XCGLM	
					++ FIELD_LABEL XCGLM
724	(2D4)	BITSTRING	2	CKWXLIST_XSTARTINDEX	
					++ XSTARTINDEX
726	(2D6)	BITSTRING	2	CKWXLIST_XENDINDEX	
					++ XENDINDEX
728	(2D8)	SIGNED	4	CKWXLIST_XVECTORINDEX	
					++ XVECTORINDEX
736	(2E0)	SIGNED	4	CKWXLIST_XLISTLIMIT	
					++ XLISTLIMIT
740	(2E4)	CHARACTER	8	CKWXLIST_XRSV0601	
					++ RESERVED XRSV0601
764	(2FC)	CHARACTER	16	CKWXLIST_XENTRYNAME	
					++ XENTRYNAME
764	(2FC)	CHARACTER	16	CKWXLIST_XENTRYKEY	
					++ XENTRYKEY
764	(2FC)	CHARACTER	16	CKWXLIST_XKEYCOMP	
					++ XKEYCOMP
764	(2FC)	CHARACTER	1	CKWXLIST_XUID2	
					++ FIELD_LABEL XUID2
765	(2FD)	CHARACTER	15	CKWXLIST_XRSV0602	
					++ RESERVED XRSV0602
780	(30C)	CHARACTER	8	CKWXLIST_XRESTOKEN	
					++ XRESTOKEN
788	(314)	CHARACTER	8	CKWXLIST_XRSV0603	
					++ RESERVED XRSV0603
780	(30C)	BITSTRING	2	CKWXLIST_XFIRSTELEM	
					++ XFIRSTELEM
782	(30E)	BITSTRING	2	CKWXLIST_XLASTELEM	
					++ XLASTELEM
784	(310)	CHARACTER	8	CKWXLIST_XRSV0604	
					++ RESERVED XRSV0604
792	(318)	CHARACTER	1	CKWXLIST_XCMDFLGS2A	
					++ FIELD_LABEL XCMDFLGS2A
793	(319)	CHARACTER	3	CKWXLIST_XRSV0605	
					++ RESERVED XRSV0605
796	(31C)	CHARACTER	1	CKWXLIST_XUID1	
					++ FIELD_LABEL XUID1
797	(31D)	CHARACTER	31	CKWXLIST_XRSV0606	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ RESERVED XRSV0606
828	(33C)	CHARACTER	16	CKWXLIST_XMOVETOKEY0	
					++ FIELD_LABEL XMOVETOKEY0
844	(34C)	SIGNED	4	CKWXLIST_XMOVETOLIST0	
					++ FIELD_LABEL XMOVETOLIST0
848	(350)	X'E8'	0	CKWXLISTL	"*-CKWXLIST" ++ LENGTH OF PLIST

Comment

IXLLIST-3

End of Comment

0	(0)	X'268'	0	CKWCFLSL	"CKWXLIST,*-CKWXLIST" Length of IXLLIST
848	(350)	ADDRESS	4	CKWVRL	Pointer to VRL area
852	(354)	SIGNED	4	CKWVRLN	Total number of VRL entries
856	(358)	ADDRESS	4	CKWVRLP	Pointer to free VRL
860	(35C)	SIGNED	4	CKWVRLC	Count of entries in use

Comment

IARVSERV MF=(L,CKWVSERV) List form of IARVSERV macro
MACDATE -12/04/00-<0>

End of Comment

0	(0)	X'360'	0	M00M0862	"CKWVSERV" ++ IARVSERV NAME
864	(360)	DBL WORD	8	CKWVSERV (0)	++ IARVSERV PARM LIST
864	(360)	BITSTRING	1	CKWVSERV_XVERSION	
					++ INPUT XVERSION
865	(361)	BITSTRING	1	CKWVSERV_XSERVICE	
					++ XSERVICE
865	(361)	X'1'	0	CKWVSERV_SHARE	
					"1" ++ XSERVICE.SHARE KEYWORD
865	(361)	X'2'	0	CKWVSERV_UNSHARE	
					"2" ++ XSERVICE.UNSHARE KEYWORD
865	(361)	X'3'	0	CKWVSERV_CHANGEACCESS	
					"3" ++ XSERVICE.CHANGEACCESS KEYWORD
865	(361)	X'4'	0	CKWVSERV_SHARESEG	
					"4" ++ XSERVICE.SHARESEG KEYWORD
866	(362)	BITSTRING	1	CKWVSERV_XFLAGS1	
					++ FIELD_LABEL
		1...		CKWVSERV_TARGET_VIEW_RO	
					"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.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
867	(363)	BITSTRING	1	CKWVSERV_XFLAGS2	
					++ FIELD_LABEL
		1...		CKWVSERV_XPARTIALPAGE_YES	
					"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
868	(364)	SIGNED	4	CKWVSERV_XNUMRANGE	
					++ XNUMRANGE
872	(368)	ADDRESS	4	CKWVSERV_XRANGLIST	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					++ XRANGLIST
872	(368)	X'C'	0	CKWVSERVL	"*-CKWVSERV" ++ LENGTH OF PLIST
Comment					
		IARVSERV-0			
End of Comment					
880	(370)	DBL WORD	8	CKWGMTOF	GMT offset of local member, including leap seconds
888	(378)	DBL WORD	8	CKWRESTM	Time CKPT got the reserve
888	(378)	X'380'	0	CKWLNGTH	"*-CKW" LENGTH OF CKW

$CKW Cross Reference

Name	Hex Offset	Hex Value
CKW	0	
CKWBLMSG	200	C2D3C440
CKWCADJ	BF	40
CKWCBCNT	A0	
CKWCCWA	C0	
CKWCCWFL	BF	
CKWCECKD	BF	80
CKWCFAIL	120	
CKWCFLSL	0	268
CKWCFLVL	150	
CKWCFLVN	150	154
CKWCFPRL	0	268
CKWCFPUR	268	
CKWCFPUR_XCONTOKEN	284	
CKWCFPUR_XREQID	294	
CKWCFPUR_XRSV0001	26A	
CKWCFPUR_XSCOPE_CONTOKEN	269	20
CKWCFPUR_XSCOPE_STOKEN	269	80
CKWCFPUR_XSCOPE_TTOKEN	269	40
CKWCFPUR_XSCOPEFLAGS	269	
CKWCFPUR_XSTOKEN	26C	
CKWCFPUR_XTTOKEN	274	
CKWCFPUR_XVERSION	268	
CKWCFPURL	294	34
CKWCFTD	128	
CKWCFWRE	148	
CKWCFWTM	140	
CKWCKCHW	B4	
CKWCKCLP	A8	
CKWCKCLW	B0	
CKWCKCSP	AC	
CKWCKCTM	B8	
CKWCKDA	C4	
CKWCKMA	20	
CKWCKPSZ	A4	
CKWCKPTN	78	
CKWCLSTA	D4	
CKWCONID	1A4	

Name	Hex Offset	Hex Value
CKWCTLBA	C8	
CKWCTLB0	CC	
CKWCTWA	28	
CKWCT1RC	11C	
CKWCURCG	6C	
CKWC1ST	BF	20
CKWDEQ	268	268
CKWDEQL	274	268
CKWDEQS	268	
CKWDFAIL	124	
CKWDRNC1	1A8	
CKWDRNC2	1AC	
CKWERREG	2C	
CKWFIXST	D0	
CKWFLAG1	6	
CKWFLAG2	7	
CKWFLAG3	9	
CKWFLAG4	A	
CKWFLAG5	B	
CKWFMCKG	14C	
CKWGMTOF	370	
CKWID	0	C3D2E640
CKWINITM	138	
CKWIOLST	DC	
CKWIO24K	1C	
CKWKSTQE	17C	
CKWKT1PK	130	
CKWKT1RC	118	
CKWLDIAG	6	8
CKWLIRCT	74	
CKWLKEY1	F8	
CKWLKEY2	100	
CKWLKIT	14	
CKWLKNUM	18	
CKWLKVL1	108	
CKWLKVL2	110	
CKWLNGTH	378	380
CKWMAXRC	1A	
CKWMSG	1B0	
CKWMSTRL	70	
CKWMVSWT	80	
CKWOPTCK	94	
CKWOPT4K	98	
CKWPAGCT	9C	
CKWPARML	F4	18
CKWPARMS	E0	
CKWPARM1	E0	
CKWPARM2	E4	

Name	Hex Offset	Hex Value
CKWPARM3	E8	
CKWPARM4	EC	
CKWPARM5	F0	
CKWPARM6	F4	
CKWPCICT	76	7D0
CKWPCIRC	76	
CKWPPL	24C	0
CKWPPLA	24	
CKWQECB	188	
CKWQREPL	19C	40404040
CKWQSUSE	88	
CKWRCID	10	
CKWRECB	168	
CKWRECF3	C	
CKWRECNT	BC	
CKWRESTM	378	
CKWRESV	268	26C
CKWRESVL	278	268
CKWRESVS	268	
CKWRESV1	D	
CKWRWOP	BE	
CKWR2LEV	158	
CKWSCAN	8	
CKWSCDL	8	1
CKWSCF	8	80
CKWSCNL	8	E0
CKWSDSN	8	40
CKWSHLST	D8	
CKWSNCN	8	1
CKWSTAR	25C	
CKWSVOL	8	20
CKWVERN	4	3
CKWVERSN	4	
CKWVRL	350	
CKWVRLC	35C	
CKWVRLN	354	
CKWVRLP	358	
CKWVSERV	360	
CKWVSERV_CHANGEACCESS	361	3
CKWVSERV_COPYNOW	362	2
CKWVSERV_RETAIN_YES	362	1
CKWVSERV_SHARE	361	1
CKWVSERV_SHARESEG	361	4
CKWVSERV_TARGET_VIEW_LS	362	8
CKWVSERV_TARGET_VIEW_NA	362	4
CKWVSERV_TARGET_VIEW_RO	362	80
CKWVSERV_TARGET_VIEW_SW	362	40
CKWVSERV_TARGET_VIEW_TW	362	10
CKWVSERV_TARGET_VIEW_UW	362	20
CKWVSERV_UNSHARE	361	2
CKWVSERV_XFLAGS1	362	
CKWVSERV_XFLAGS2	363	
CKWVSERV_XNUMRANGE	364	
CKWVSERV_XPARTIALPAGE_YES	363	80
CKWVSERV_XRANGLIST	368	
CKWVSERV_XSERVICE	361	
CKWVSERV_XVERSION	360	
CKWVSERVL	368	C
CKWWRLEV	160	
CKWWTTM	90	
CKWXLIST	268	
CKWXLIST_KEYUSED_ADJAREA	26A	20
CKWXLIST_KEYUSED_ANSAREA	26A	10
CKWXLIST_KEYUSED_BUFFER	26A	80
CKWXLIST_KEYUSED_BUFLIST	26A	40
CKWXLIST_KEYUSED_BUFSTGKEY	26A	4
CKWXLIST_KEYUSED_EXTRESTOKEN	26D	20
CKWXLIST_KEYUSED_LOCKCOMP	26C	1
CKWXLIST_PL_END	33C	350
CKWXLIST_RCVRYREQASYNC	26D	1
CKWXLIST_XADJADDR	290	
CKWXLIST_XADJAREA	294	
CKWXLIST_XADJAREA_ALET	290	
CKWXLIST_XANSADDR	298	
CKWXLIST_XANSAREA	29C	
CKWXLIST_XANSAREA_ALET	298	
CKWXLIST_XANSLEN	272	
CKWXLIST_XAUTHCOMP1	2FC	
CKWXLIST_XBUFADDRTYPE_REAL	26A	2
CKWXLIST_XBUFALET	284	
CKWXLIST_XBUFFER	28C	
CKWXLIST_XBUFFER_ALET	284	
CKWXLIST_XBUFINCRNUM	2CB	
CKWXLIST_XBUFLIST	28C	
CKWXLIST_XBUFLIST_ALET	288	
CKWXLIST_XBUFNUM	2CA	

Name	Hex Offset	Hex Value
CKWXLIST_XBUFSIZE	288	
CKWXLIST_XBUFSTGKEY	271	
CKWXLIST_XB8TO11	2D4	
CKWXLIST_XCCA	2CC	
CKWXLIST_XCCB	2CD	
CKWXLIST_XCGLM	2D7	
CKWXLIST_XCMDCODE	269	
CKWXLIST_XCMDFLGS1	2D0	
CKWXLIST_XCMDFLGS1A	2D0	
CKWXLIST_XCMDFLGS1B	2D1	
CKWXLIST_XCMDFLGS1C	2D2	
CKWXLIST_XCMDFLGS1D	2D3	
CKWXLIST_XCMDFLGS2A	318	
CKWXLIST_XCMDLEN	2C8	
CKWXLIST_XCOMPCONID	270	
CKWXLIST_XCONID	281	
CKWXLIST_XCONTOKEN	274	
CKWXLIST_XDATADDR	284	
CKWXLIST_XDBS	2D0	
CKWXLIST_XELEMNUM	2D0	
CKWXLIST_XENDINDEX	2D6	
CKWXLIST_XENTRYID	2E0	
CKWXLIST_XENTRYKEY	2FC	
CKWXLIST_XENTRYNAME	2FC	
CKWXLIST_XEXTRESTOKEN	2B0	
CKWXLIST_XEXTRESTOKENPSVN	2B8	
CKWXLIST_XEXTRESTOKENTKN	2B0	
CKWXLIST_XFIRSTELEM	30C	
CKWXLIST_XKEYCOMP	2FC	
CKWXLIST_XLASTELEM	30E	
CKWXLIST_XLISTDESC	31C	
CKWXLIST_XLISTLIMIT	2E0	
CKWXLIST_XLISTNUM	2DC	
CKWXLIST_XLOCKDATA	2B0	
CKWXLIST_XLOCKINDEX	2D8	
CKWXLIST_XLOCKMODE_COND	26C	2
CKWXLIST_XLOCKOPER_HELDBY	26C	10
CKWXLIST_XLOCKOPER_NOTHELD	26C	20
CKWXLIST_XLOCKOPER_READNEXT	26C	4
CKWXLIST_XLOCKOPER_RESET	26C	40
CKWXLIST_XLOCKOPER_SET	26C	80
CKWXLIST_XLOCKOPER_TEST	26C	8
CKWXLIST_XMCB_DATA1	2CC	
CKWXLIST_XMCB_DATA2	33C	
CKWXLIST_XMOB_DATA	2C8	
CKWXLIST_XMODE_ASYNCECB	26B	10
CKWXLIST_XMODE_ASYNCEXIT	26B	8
CKWXLIST_XMODE_ASYNCNORESPONSE	26B	2
CKWXLIST_XMODE_ASYNCTOKEN	26B	4
CKWXLIST_XMODE_SYNCECB	26B	80
CKWXLIST_XMODE_SYNCEXIT	26B	40
CKWXLIST_XMODE_SYNCTOKEN	26B	20
CKWXLIST_XMOSVECTOR	294	
CKWXLIST_XMOSVECTOR_ALET	290	
CKWXLIST_XMOVETOKEY0	33C	
CKWXLIST_XMOVETOLIST0	34C	
CKWXLIST_XNEWAUTH1	30C	
CKWXLIST_XNEWVERS	2EC	
CKWXLIST_XOPTIONALDATA	2B0	
CKWXLIST_XPAGEABLE_NO	26A	8
CKWXLIST_XREQDATA	2A0	
CKWXLIST_XREQECB	2A0	
CKWXLIST_XREQID	2A8	
CKWXLIST_XREQTOKEN	2A4	
CKWXLIST_XREQTOKEN_ALET	2A0	

Name	Hex Offset	Hex Value
CKWXLIST_XRESTOKEN		
	30C	
CKWXLIST_XRSV0102		
	26E	
CKWXLIST_XRSV0103		
	2C0	
CKWXLIST_XRSV0201		
	274	
CKWXLIST_XRSV0202		
	282	
CKWXLIST_XRSV0203		
	2A4	
CKWXLIST_XRSV0204		
	2B8	
CKWXLIST_XRSV0501		
	2CE	
CKWXLIST_XRSV0502		
	2D4	
CKWXLIST_XRSV0601		
	2E4	
CKWXLIST_XRSV0602		
	2FD	
CKWXLIST_XRSV0603		
	314	
CKWXLIST_XRSV0604		
	310	
CKWXLIST_XRSV0605		
	319	
CKWXLIST_XRSV0606		
	31D	
CKWXLIST_XSHL_DATA		
	268	
CKWXLIST_XSHLFLGS		
	26A	
CKWXLIST_XSHLFLGS1		
	26A	
CKWXLIST_XSHLFLGS2		
	26B	
CKWXLIST_XSHLFLGS3		
	26C	
CKWXLIST_XSHLFLGS4		
	26D	
CKWXLIST_XSTARTINDEX		
	2D4	
CKWXLIST_XTYPE_ADJDATA		
	26D	80
CKWXLIST_XTYPE_ECONTROLS		
	26D	40
CKWXLIST_XUID1		
	31C	
CKWXLIST_XUID2		
	2FC	
CKWXLIST_XUID3		
	2D3	
CKWXLIST_XVECTORINDEX		
	2D8	
CKWXLIST_XVERSCOMP		
	2F4	
CKWXLIST_XVERSION		
	268	
CKWXLISTL	350	E8
CKW1ESUP	6	20
CKW1FNLW	6	80
CKW1OFLW	6	40
CKW1SPIO	6	4
CKW1SPSC	6	2
CKW1S266	6	10
CKW2FMLS	7	4
CKW2FWLS	7	8
CKW2IWLS	7	10
CKW2PWLS	7	20
CKW2R1LS	7	80
CKW2R2LS	7	40
CKW3FMCP	9	40
CKW3FMFX	9	80
CKW3PWWP	9	8
CKW3R2WP	9	10
CKW4DIAG	A	4
CKW4DIA1	A	20
CKW4IGNO	A	8
CKW4IGN1	A	40
CKW4WTOR	A	10
CKW4WTO1	A	80
CKW5PMST	B	2
CKW5PROT	B	4
CKW5STRL	B	8
CKW51NVL	B	40
CKW51VOL	B	80
CKW52NVL	B	10
CKW52VOL	B	20
M00M0860	268	
M00M0861	0	268
M00M0862	0	360
STARBAL	262	
STARDCTA	25C	
STARDL	266	
STARDTU	260	6
STARFLGS	260	
STARFUNC	260	80
STARKL	265	
STARLAST	260	8
STARLOC	260	1
STARMAXS	260	40
STARR	264	
STARREMV	260	20
STARRKDD	264	
STARTYPE	25F	
STARUBAL	260	10
STARUCBA	25C	

$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 (CKXHDRLN) 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 IXZXIXSM macro instruction and areas in acknowledgement messages are created by the IXZXIXAC 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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CKX	, Checkpoint reconfiguration JESXCF messages and acks

Comment

JES2 checkpoint reconfiguration message/ack header

End of Comment

0	(0)	CHARACTER	4	CKXID	Control block eyecatcher
4	(4)	ADDRESS	1	CKXVERSN	Sender's control block version

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

Reason codes for $K26 error codes

End of Comment

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

Comment

General purpose information fields

End of Comment

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

Comment

The following section is permanently dedicated
for IBM int rnal 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.

End of Comment

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

Comment

JES2 checkpoint reconfiguration JESXCF
message and acknowledgement types

End of Comment

60	(3C)	SIGNED	4	CKXMTYPE	Message or ack type
60	(3C)	X'1'	0	CKXM0	"1" Start-up CKPT reconfig

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

End of header section

End of Comment

64	(40)	SIGNED	4	(0)	Alignment
64	(40)	X'40'	0	CKXHDRLN	"*-CKX" Length of msg/ack header

Comment

Beginning of message section

End of Comment

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

Comment

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.

End of Comment

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM1. Fields in this section are named CKXM1xxx.	
				End of Comment	
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
				Comment	
				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 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.	
				End of Comment	
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
		.... .1..		CKXA1HUP	"B'00000100'" - HFAM update is pending
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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM2. Fields in this section are named CKXM2xxx.	
				End of Comment	
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
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
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
				Comment	
				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.	
				End of Comment	
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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM3. Fields in this section are named CKXM3xxx.	
				End of Comment	
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
				Comment	
				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.	
				End of Comment	
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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM4. Fields in this section are named CKXM4xxx.	
				End of Comment	
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
				Comment	
				Ack message: Ack sync go-ahead Use this section when CKXMTYPE is set to CKXA4. Fields in this section are named CKXA4xxx.	
				End of Comment	
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
				Comment	
				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=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM5. Fields in this section are named CKXM5xxx.	
				End of Comment	
64	(40)	BITSTRING	0	CKXM5MSG (0)	Reconfiguration DONE
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

$CKX Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Comment

Ack message: Ack reconfiguration DONE
Use this section when CKXMTYPE is set to CKXA5.
Fields in this section are named CKXA5xxx.

End of Comment

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

Comment

End of $CKX data area

End of Comment

532	(214)	SIGNED	4	(0)	Alignment
532	(214)	X'214'	0	CKXMAXLN	"*-CKX" Max $CKX data area length PRINT ON

$CKX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKX	0		CKXA4EYE	40	
CKXA1	3C	3	CKXA4HCL	50	10
CKXA1BEG	40		CKXA4MSG	40	
CKXA1CON	50		CKXA4TYP	48	
CKXA1END	188		CKXA5	3C	B
CKXA1EYE	40		CKXA5BEG	40	
CKXA1FCV	48	10	CKXA5END	48	
CKXA1FI1	48	40	CKXA5EYE	40	
CKXA1FI2	48	20	CKXA5HCL	48	8
CKXA1FLG	48		CKXA5MSG	40	
CKXA1FOR	48	8	CKXFCTFA	34	80
CKXA1FOV	48	80	CKXFCTFC	34	20
CKXA1HCL	188	148	CKXFCTFD	34	10
CKXA1HFM	54		CKXFCTFG	34	
CKXA1HUP	48	4	CKXFCTFI	34	40
CKXA1MSG	40		CKXFCTRC	38	
CKXA1SEQ	4C		CKXHDRLN	40	40
CKXA2	3C	5	CKXID	0	
CKXA2BEG	40		CKXK26R1	5	1
CKXA2END	48		CKXK26R2	5	2
CKXA2EYE	40		CKXMAXLN	214	214
CKXA2HCL	48	8	CKXMEYE	40	
CKXA2MSG	40		CKXMSG	40	
CKXA3	3C	7	CKXMSGLN	10	
CKXA3BEG	40		CKXMTYPE	3C	
CKXA3CON	50		CKXM0	3C	1
CKXA3END	58		CKXM0BEG	40	
CKXA3EYE	40		CKXM0END	48	
CKXA3HCL	58	18	CKXM0EYE	40	
CKXA3MSG	40		CKXM0HCL	48	8
CKXA3RSN	54		CKXM0MSG	40	
CKXA3TYP	48		CKXM1	3C	2
CKXA4	3C	9	CKXM1BEG	40	
CKXA4BEG	40		CKXM1END	48	
CKXA4END	50		CKXM1EYE	40	

Name	Hex Offset	Hex Value
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
CKXM2FOV	48	80
CKXM2HCL	214	1D4
CKXM2HFM	E0	
CKXM2MSG	40	
CKXM2NAM	5C	
CKXM2NI1	54	
CKXM2NI2	58	
CKXM2PMV	60	
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

$CMB Programming Interface information

Programming Interface information

$CMB

End of Programming Interface information

$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
$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
$CONWKQ 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
CCTRCPCQ 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 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMB	

Comment

KEEP FIELDS CMBCMB THROUGH CMBUSER TOGETHER FOR $WTO
LONG PARAMETER LIST.

End of Comment

0	(0)	CHARACTER	4	CMBID	CMB IDENTIFIER
4	(4)	ADDRESS	1	CMBVRS	CMB VERSION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 (FOR CMDS)
		.1..		CMB2GMTK	"B'01000000'" $GETMAINed TOKEN
		..1.		CMB2AUTO	"B'00100000'" CMB from auto command
		...1		CMB2INIT	"B'00010000'" CMB from initialization
		.... 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...		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)	ADDRESS	4	CMBPCE	PCE ISSUING MLWTO
20	(14)	SIGNED	4	CMBWTOPL (0)	START OF WTO PARM MAP
20	(14)	BITSTRING	1	CMBFLAG	FLAG BYTE
21	(15)	BITSTRING	1	CMBLEVEL (0)	IMPORTANCE LEVEL (HIGH 4 BITS)
21	(15)	BITSTRING	1	CMBPRIO	OUTPUT PRIORITY (LOW 4 BITS)
22	(16)	BITSTRING	1	CMBTYPE	TYPE BYTE
23	(17)	BITSTRING	1	CMBML	LENGTH OF MESSAGE
24	(18)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
24	(18)	ADDRESS	3	CMBTO (0)	TO SYSTEM ROUTE CODE (BINARY)
24	(18)	SIGNED	2	CMBTONOD	TO NODE NUMBER
26	(1A)	BITSTRING	1	CMBTOQUL	TO NODE QUALIFIER
27	(1B)	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)
28	(1C)	CHARACTER	8	CMBCART	COMMAND AND RESPONSE TOKEN
36	(24)	BITSTRING	1	CMBUCM	FOR DOWN LEVEL COMPATIBILITY
37	(25)	BITSTRING	1	CMBUCMA	MCS CONSOLE AREA
38	(26)	BITSTRING	2	CMBLINET	LINE TYPE FOR MLWTO
40	(28)	BITSTRING	4	CMBUCMID	4-BYTE MCS CONSOLE ID
44	(2C)	BITSTRING	2	CMBDESC	MCS DESCRIPTOR CODES
46	(2E)	BITSTRING	2	CMBROUT	MCS CONSOLE ROUTINGS
48	(30)	BITSTRING	4	CMBDOMID	MCS DOM ID
52	(34)	SIGNED	2	CMBRMT	REMOTE NUMBER
54	(36)	CHARACTER	8	CMBUSER	TSO USER ID
54	(36)	X'2A'	0	CMBWTOLG	"*-CMBWTOPL" LENGTH OF LONG WTO PARMLIST
64	(40)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
64	(40)	ADDRESS	3	CMBFM (0)	FROM SYSTEM ROUTE CODE (BINARY)
64	(40)	SIGNED	2	CMBFMNOD	FROM NODE NUMBER
66	(42)	BITSTRING	1	CMBFMQUL	FROM NODE QUALIFIER
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
67	(43)	X'30'	0	CMBPARML	"*-CMBWTOPL" LENGTH OF CMB PARAMETER LST
68	(44)	CHARACTER	148	CMBLGMSG (0)	Maximum nodal message for store-and-forward
68	(44)	CHARACTER	132	CMBMSG (0)	CONSOLE MESSAGE
68	(44)	CHARACTER	8	CMBTIME	TIME STAMP FOR REMOTE SYSTEMS
76	(4C)	CHARACTER	1		SPACER
77	(4D)	CHARACTER	8	CMBJOBID	JOB ID
85	(55)	CHARACTER	1		SPACER
86	(56)	CHARACTER	9	CMBMID	MESSAGE ID FIELD
95	(5F)	CHARACTER	8	CMBJOBN	JOB NAME
103	(67)	CHARACTER	1		SPACER
104	(68)	CHARACTER	96	CMBTEXT	MESSAGE TEXT

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
200	(C8)	SIGNED	4	CMBEND (0)	END OF CMB
200	(C8)	X'C8'	0	CMBL	"CMBEND-CMB" LENGTH OF CMB
200	(C8)	X'D8'	0	CMBLGEND	"CMBEND+(L'CMBLGMSG-L'CMBMSG)" End of store-and-forwrd CMB
200	(C8)	X'D8'	0	CMBLGLEN	"CMBLGEND-CMB" Max length for store-and- forward CMB

Comment

FORMATTED COMMAND DEFINITIONS

End of Comment

68	(44)	BITSTRING	40	CMBFNORM (0)	Formatted area for normal command
68	(44)	BITSTRING	40	CMBFRTE (0)	Formatted area for route command
68	(44)	BITSTRING	1	CMBFOP	OPCODE
69	(45)	BITSTRING	1	CMBFFLG	FLAGS OR OPCODE MODIFIER
70	(46)	BITSTRING	2	CMBFJID	INITIAL JOB NUMBER
72	(48)	CHARACTER	8	CMBFORGN	ORIGIN NODE NAME
80	(50)	CHARACTER	8	CMBFJNAM	JOB NAME
88	(58)	CHARACTER	8	CMBFD	DESTINATION FOR ROUTE COMMAND
96	(60)	CHARACTER	8	CMBFR	REMOTE IF NOT IMPLIED BY CMBFD
104	(68)	BITSTRING	4	CMBFJNUM	Fullword job number

Comment

CMBFLAG DEFINITIONS

End of Comment

		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
104	(68)	X'60'	0	CMBFLAGQ	"CMBFLAGW+CMBFLAGT" CMB HAS EITHER REMOTE OR TSO USERID

Comment

CMBPRIO DEFINITIONS

End of Comment

		 1111		CMBPRIM	"B'00001111'" CMBPRIO PURIFYING MASK

Comment

CMBTYPE DEFINITIONS

WARNING: For CMBs which are to cross nodes, CMBTYPE becomes NMRTYPE and the following bits can take on meaning specified by NMRTYPE.

End of Comment

		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

Comment

CMBFOP DEFINITIONS

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
104	(68)	X'1'	0	CMBFOPD	"1" DISPLAY JOB COMMAND
104	(68)	X'2'	0	CMBFOPC	"2" CANCEL JOB COMMAND
104	(68)	X'3'	0	CMBFOPA	"3" RELEASE JOB COMMAND
104	(68)	X'4'	0	CMBFOPH	"4" HOLD JOB COMMAND
104	(68)	X'5'	0	CMBFOPR	"5" ROUTE JOB COMMAND

Comment

CMBFFLG DEFINITIONS

End of Comment

....	..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

$CMB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CMB	0		CMBID	0	C3D4C240
CMBCART	1C	40404040	CMBJOBID	4D	40404040
CMBCLR	4	5	CMBJOBN	5F	40404040
CMBCMB	C		CMBL	C8	C8
CMBDESC	2C	0	CMBLEVEL	15	
CMBDOMID	30	0	CMBLGEND	C8	D8
CMBEND	C8		CMBLGLEN	C8	D8
CMBFD	58	40404040	CMBLGMSG	44	
CMBFFLG	45	0	CMBLINET	26	0
CMBFFLGD	68	40	CMBMID	56	
CMBFFLGJ	68	3	CMBML	17	0
CMBFFLGO	68	80	CMBMSG	44	
CMBFFLGS	68	1	CMBPARML	43	30
CMBFFLGT	68	2	CMBPCE	10	
CMBFJID	46	0	CMBPRIM	68	F
CMBFJNAM	50	40404040	CMBPRIO	15	0
CMBFJNUM	68	0	CMBRMT	34	0
CMBFLAG	14	0	CMBROUT	2E	0
CMBFLAGC	68	80	CMBTEXT	68	40404040
CMBFLAGD	68	2	CMBTIME	44	40404040
CMBFLAGJ	68	4	CMBTO	18	
CMBFLAGQ	68	60	CMBTOKA	8	
CMBFLAGR	68	8	CMBTONOD	18	0
CMBFLAGS	68	1	CMBTOQUL	1A	0
CMBFLAGT	68	20	CMBTYPE	16	0
CMBFLAGU	68	10	CMBTYPED	68	1
CMBFLAGW	68	40	CMBTYPEF	68	2
CMBFLAG2	5	0	CMBTYPET	68	4
CMBFLAG3	1B	0	CMBTYPEX	68	F0
CMBFLAG4	6	0	CMBTYPE4	68	8
CMBFM	40		CMBUCM	24	0
CMBFMNOD	40	0	CMBUCMA	25	0
CMBFMQUL	42	0	CMBUCMID	28	0
CMBFNORM	44		CMBUSER	36	40404040
CMBFOP	44	0	CMBVRS	4	
CMBFOPA	68	3	CMBVRSN	4	1
CMBFOPC	68	2	CMBWTOLG	36	2A
CMBFOPD	68	1	CMBWTOPL	14	
CMBFOPH	68	4	CMB2AUTO	5	20
CMBFOPR	68	5	CMB2DMC	5	1
CMBFORGN	48	40404040	CMB2GETM	5	80
CMBFR	60	40404040	CMB2GMTK	5	40
CMBFRTE	44		CMB2IFF	5	8

$CMB Cross Reference

Name	Hex Offset	Hex Value
CMB2INIT	5	10
CMB2LGON	5	4
CMB2NOTF	5	2
CMB3INTC	1B	40
CMB3TOK	1B	80
CMB4EMER	6	80
CMB4LOGO	6	1

$CNVWORK Programming Interface information

Programming Interface information

$CNVWORK

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	BITSTRING	1	JPCESTAT	PROCESSOR STATUS BYTE
		1...		JPCEDUPL	"B'10000000'" Duplicate logon tried
		.1..		JPCEJCTV	"B'01000000'" JCT VALID
		...1		JPCENCWT	"B'00010000'" This PCE cannot wait for OS CNVT
241	(F1)	CHARACTER	1	JPCECLAS	ORIGINAL JOB CLASS
242	(F2)	CHARACTER	1	JPCEPRIO	ORIGINAL JOB PRIORITY
243	(F3)	BITSTRING	1		RESERVED FOR FUTURE USE
244	(F4)	ADDRESS	4	JPCEDTE	SUBTASK DTE ADDRESS
248	(F8)	ADDRESS	4	JPCEJCTA	JCT BUFFER ADDR FOR PCE
252	(FC)	ADDRESS	4	JPCEIOT	ADDRESS OF ALLOCATION IOT
256	(100)	BITSTRING	12	JPCETQE	HASP TIMER QUEUE ELEMENT
268	(10C)	SIGNED	4	JPCEBSIZ	TOTAL PERMANENT BUFFER STORAGE
272	(110)	ADDRESS	4	JPCERSUM	$ESTAE RESUME ADDR, IF ANY
276	(114)	SIGNED	4	JPCEJCTT	MTTR OF JCT, CHANGED BY PROCESSOR WHEN NEW MTTR SET OF JCT
280	(118)	ADDRESS	4		RESERVED FOR FUTURE IBM USE
284	(11C)	SIGNED	4	JPCEDOM	ADDRESS OF CMB TO BE $DOM'D

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
288	(120)	ADDRESS	4	JPCEXPLA	Address of XPL for Exit 44
292	(124)	ADDRESS	4	JPCEPARM	NODE TABLE ADDRESS
296	(128)	ADDRESS	4		CONTROL BLOCK ADDRESS
300	(12C)	ADDRESS	4		CLASS LIST ADDRESS
304	(130)	ADDRESS	4		ADDRESS OF JQE
308	(134)	ADDRESS	1		CLASS LIST LENGTH
309	(135)	ADDRESS	1		QUEUE TYPE SPECIFIED
310	(136)	ADDRESS	1		WORK SELECTION TYPE FLAG
311	(137)	ADDRESS	1		RESERVED FOR FUTURE USE
311	(137)	X'124'	0	JPCELST	"JPCEPARM,*-JPCEPARM" QGET PARAMETER LIST STORAGE
312	(138)	BITSTRING	1	JPCEXRSP	EXIT 44 response byte Work area copy of $XPL response byte X044RESP
313	(139)	CHARACTER	16	JPCESCHE	Default SCHENV

Comment

```
    START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES log control
02 ACRONYM: $JESLOG
01 MACRO NAME: $JESLOG
01 DSECT NAME: JLG
01 LABEL PREFIX: JLG
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: "None"
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: n/a
02 KEY: n/a
02 RESIDENCY:
    This block is included in JCTs, SJXBs, CATs and
    CNVWORK. See the description of those "hosting"
    blocks for storage attributes.
01 SIZE:
    See JLGLEN
01 CREATED BY:
    See "hosting" control blocks
01 POINTED TO BY:
    No pointers
01 SERIALIZATION:
    None required
01 FUNCTION:
    The JESLOG describes how the spinning of JESLOG
    (JESYSMG and JESJOBLG) is to be supported.
01 METHOD OF ACCESS:
02 ASM:
    Specify $JESLOG as a positional operand on a
    $MODULE macro instruction to cause this mapping
    to be generated. A USING of the following form
    is used: USING JLG,xxxx where xxxx is the
    label within the "hosting" block where the JESLOG
```

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		mapping begins. For example when referencing the JESLOG within the JCT, code USING JLG,JCTJLOG			
02 PL/X:					
		This mapping is not available for compilations.			
01 USED BY:					
		Spin processing for the the two JESLOG data sets use the information for their decisions.			
01 DELETED BY:					
		See "hosting" blocks.			
01 FREQUENCY:					
		See "hosting" blocks			
01 RESTRICTIONS:					
		None			
		END OF SPECIFICATIONS			
01 CHANGE ACTIVITY:					
$Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs					
$Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support					
01 A000000-999999 CREATED for JES2 OS/390 Release 12					
End of Comment					
329	(149)	BITSTRING	6	JPCEJLOG	JES log control
329	(149)	X'5F'	0	JPCELEN	"*-PCEWORK" LENGTH OF PROCESSOR WORK SPACE

$CNVWORK Cross Reference

Name	Hex Offset	Hex Value
JPCEBSIZ	10C	
JPCECLAS	F1	
JPCEDOM	11C	
JPCEDTE	F4	
JPCEDUPL	F0	80
JPCEIOT	FC	
JPCEJCTA	F8	
JPCEJCTT	114	
JPCEJCTV	F0	40
JPCEJLOG	149	
JPCELEN	149	5F
JPCELST	137	124
JPCENCWT	F0	10
JPCEPARM	124	
JPCEPRIO	F2	
JPCERSUM	110	
JPCESCHE	139	
JPCESTAT	F0	
JPCETQE	100	
JPCEXPLA	120	
JPCEXRSP	138	
PCE	0	

$COMWORK Programming Interface information

Programming Interface information

$COMWORK

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

- COMMLTEA

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	BITSTRING	1		$RDRWORK len (for HASPRJCS)

Comment

SPOOL MASK WORK AREA - USED WITH V=VOLSER OPERAND

End of Comment

880	(370)	BITSTRING	1	COMSPMSK	VOLUME SERIAL MASK

Comment

SECURITY RELATED TOKEN OF ISSUER OF COMMAND

End of Comment

912	(390)	CHARACTER	80	COMSECT	SECURITY TOKEN
992	(3E0)	ADDRESS	4	COMSQD	ADDRESS OF SQD OR ZERO
996	(3E4)	BITSTRING	1	COMFLAG2	Second CMB flag (CMBFLAG2)
1000	(3E8)	ADDRESS	4	COMPXEQ	DOM id for $P XEQ

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	

				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.	

				End of Comment	
1004	(3EC)	SIGNED	4	COMENTBG	See above comment box
				Comment	

				Parameters for IEAVM173 (WPL message extract service)	

				End of Comment	
1008	(3F0)	ADDRESS	4	COMMLTEA	Address of MLTE
1012	(3F4)	CHARACTER	1	COMMLTE	WPL message extract parms
				Comment	

				List form of the $WTO parameter list. The following fields must match those defined in the CMB starting at CMBWTOPL.	

				End of Comment	
1060	(424)	SIGNED	4	COMWTOPL (0)	START OF WTO PARAMETERS
1060	(424)	CHARACTER	1	COMFLAG	FLAGS FOR CMB
1061	(425)	CHARACTER	1	COMLEVEL	LIST LEVEL AND PRIORITY
1062	(426)	CHARACTER	1	COMTYPE	FORMAT TYPE
1063	(427)	CHARACTER	1	COMML	LENGTH OF MESSAGE
1064	(428)	SIGNED	4	(0)	
1064	(428)	ADDRESS	3	COMTO (0)	TO SYSTEM NODE INFORMATION
1064	(428)	SIGNED	2	COMTONOD	NODE NUMBER (BINARY)
1066	(42A)	BITSTRING	1	COMTOQUL	NODE QUALIFIER
1067	(42B)	BITSTRING	1	COMFLAG3	CMB General flag byte 3
1068	(42C)	CHARACTER	8	COMCART	COMMAND AND RESPONSE TOKEN
1076	(434)	CHARACTER	1	COMUCM	FOR DOWN LEVEL COMPATIBILITY
1077	(435)	CHARACTER	1	COMUCMA	MCS CONSOLE AREA
1078	(436)	CHARACTER	2	COMLINET	LINE TYPE FOR MLWTO
1080	(438)	CHARACTER	4	COMUCMID	4-BYTE MCS CONSOLE ID
1084	(43C)	CHARACTER	2	COMDESC	MCS DESCRIPTOR CODES
1086	(43E)	CHARACTER	2	COMROUT	MCS ROUTE CODES
1088	(440)	CHARACTER	4	COMDOMID	MCS DOM ID
1092	(444)	SIGNED	2	COMRMT	REMOTE NUMBER
1094	(446)	CHARACTER	8	COMUSER	TSO USER ID
1094	(446)	X'2A'	0	COMWTOLG	"*-COMWTOPL" LENGTH OF WTO PARM LIST
1102	(44E)	ADDRESS	2	(0)	Verify that lengths of
1102	(44E)	ADDRESS	2	(0)	parameter lists are OK
				Comment	
				FUNCTION WORK SPACE	
				End of Comment	
1102	(44E)	CHARACTER	4	COMINCON	SOURCE CONSOLE UCMID
1106	(452)	CHARACTER	1	COMAUTH	SOURCE CONSOLE AUTHORITY
1107	(453)	CHARACTER	8	COMACEID	AUTOMATIC COMMAND ELEMENT ID

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1116	(45C)	SIGNED	4	COMJROUT (0)	JOB QUEUING ROUTE CODE FROM CMB (BINARY)
1116	(45C)	SIGNED	2	COMJNOD	NODE ID
1118	(45E)	SIGNED	2	COMJRMT	REMOTE ID
1120	(460)	SIGNED	4	COMJSCAT	SAVE AREA FOR $CFJSCAN CAT
1124	(464)	SIGNED	4	COMEWORK	SINGLE PRECISION WORK AREA
1128	(468)	DBL WORD	8	COMDWORK	DOUBLE PRECISION WORK AREA
1136	(470)	DBL WORD	8	COMWREGS (2)	REGISTER SAVE AREA
1152	(480)	SIGNED	4	COMFWORK	FULL WORD WORK AREA
1156	(484)	ADDRESS	1	COMBWORK	ONE BYTE WORK AREA
1157	(485)	BITSTRING	1	COMGFLG1	GENERAL FLAG BYTE
		1...		COMG1APO	"B'10000000'" APOSTROPHE SWITCH IS ON
		.1..		COMG1REQ	"B'01000000'" CMB MUST BE REQUEUED
		..1.		COMG1PAR	"B'00100000'" CLOSING PAREN SWITCH IS ON
		...1		COMG1CON	"B'00010000'" MASTER CONSOLE RETRY BIT
		.... 1...		COMG1SSI	"B'00001000'" SSI FORMATTED COMMAND
		.... .1..		COMG1$MN	"B'00000100'" $M/$N command found
		.... ..1.		COMG1UAC	"B'00000010'" Unauthorized console
		1		COMG1SJR	"B'00000001'" A single job being processed by a job list command
1158	(486)	BITSTRING	1	COMGFLG2	Command level general flag

Comment

CPOFLAG and definitions for $PQ and $OQ commands

End of Comment

1158	(486)	X'486'	0	CPOFLAG	"COMGFLG2"
		1...		CPOFCLS	"B'10000000'" FLAG FOR CLASS STRING EXISTS
		.1..		CPOFCNCL	"B'01000000'" FLAG FOR CANCEL HELD DS
		..1.		CPOFRTE	"B'00100000'" FLAG FOR RE-ROUTING DESIRED
		...1		CPOPROT	"B'00010000'" PROTECTED keyword given
		.... 1...		CPOFALL	"B'00001000'" FLAG FOR 'ALL' OPERAND
		.... .1..		CPOFAGHR	"B'00000100'" FLAG FOR CUT OFF AGE/HOURS
		.... ..1.		CPOFQR	"B'00000010'" Q= and/or R= was specified
		1		CPOFNJO	"B'00000001'" Flag destid on Network Q
1159	(487)	BITSTRING	1	COMPWORK	For "PROTECTED" keyword use
1160	(488)	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
1162	(48A)	CHARACTER	10	COMCONNM	SYMBOLIC CONSOLE NAME AND OUT-OF-LINE AREA

Comment

COMMAND EDIT ROUTINE FLAGS

End of Comment

1162	(48A)	X'466'	0	COMLFLG	"COMEWORK+2" FLAG BYTE
1162	(48A)	X'1'	0	COMLFLGR	"1" UCM CMD FROM REMOTE SYSTEM
1162	(48A)	X'2'	0	COMLFLGC	"2" CONSOLE HAS BEEN SPECIFIED
1162	(48A)	X'4'	0	COMLFLGA	"4" AREA HAS BEEN SPECIFIED

Comment

COMMAND INPUT PASSED TO $SCAN

End of Comment

1172	(494)	CHARACTER	132	COMINPUT	COMMAND INPUT PASSED TO $SCAN
1304	(518)	SIGNED	4	COMSDLCT	COUNT OF $SCAN DISPLAY LINES
1308	(51C)	SIGNED	4	COMTDLCT	Count of total lines displayed for commands partially implemented via $SCAN
1312	(520)	ADDRESS	4	COMSTAB	Address of $SCANTAB related to command

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		COMMAND TEXT AREA			
				End of Comment	
1316	(524)	CHARACTER	2	COMMID	MESSAGE ID
1316	(524)	X'524'	0	COMLNGTH	"COMMID" Command length
1318	(526)	CHARACTER	1024	COMMAND	COMMAND AND MESSAGE AREA
1318	(526)	X'527'	0	COMVERB	"COMMAND+1" LOCATION OF COMMAND VERB
1318	(526)	X'528'	0	COMOPRND	"COMMAND+2" LOCATION OF FIRST OPERAND
1318	(526)	X'5EE'	0	COMSAFL	"COMMAND+200,1" Length and command image
1318	(526)	X'5EF'	0	COMSAFC	"COMSAFL+1,150" for $SEAS CMDAUTH call
2342	(926)	CHARACTER	8	COMJNAME	MESSAGE AREA EXTENSION/JOBNAME
2350	(92E)	CHARACTER	132	CURRCMD	Mirror of Command
2482	(9B2)	SIGNED	2	COMMNDLN	Length of data in CURRCMD
2484	(9B4)	ADDRESS	4	COMXWCA	Address of CXWC DSECT
2488	(9B8)	ADDRESS	4	COMLJBRG	Ptr to last job range
				Comment	
		OPERAND POINTER AREA			
				End of Comment	
2492	(9BC)	SIGNED	4	COMPNTER (20)	AREA FOR OPERAND POINTERS
2492	(9BC)	X'50'	0	COMPNTRL	"*-COMPNTER" Length of operand ptr area
2572	(A0C)	ADDRESS	2	(0)	Force assembly error IF AREA TOO SMALL FOR USE BY $DM
2572	(A0C)	SIGNED	4	COMNULOP	NULL OPERAND
2576	(A10)	BITSTRING	20	COMPINDX	COMPNTER/CDUTABLE INDEX BYTES
2596	(A24)	SIGNED	4	(0)	
2596	(A24)	SIGNED	4	COMINXSV	SAVE AREA FOR COMPINDX POINTER
2600	(A28)	SIGNED	4	COMOPFLG	Operand flags
				Comment	
		---------- COMREGSV is used by HASPCOMM for a $SCAND buffer when it calls SCAN. 64 bytes are used. ----------			
				End of Comment	
2604	(A2C)	BITSTRING	248	COMREGSV	REGISTER SAVE/WORK AREA
				Comment	
		---------- COFRTR work area for route code ranges ----------			
				End of Comment	
2852	(B24)	BITSTRING	18	COMRWORK	WORK AREA FOR SUBMITTING EBCDIC ROUTES TO $DEST/USERDEST
2870	(B36)	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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1		COMR1RPR	"B'00000001'" INDICATES ROUTECODE CONTAINED (
2871	(B37)	BITSTRING	1		RESERVED FOR FUTURE USE
2872	(B38)	CHARACTER	8	COMUWORK	HI-END USERID FROM $DEST
2872	(B38)	X'0'	0	COMNODE	"0,2,C'H'" Offset/length of node
2872	(B38)	X'2'	0	COMRMTE	"2,2,C'H'" Offset/length of rmt
2872	(B38)	X'4'	0	COMUSEID	"4,8,C'D'" Offset/length of userid
2872	(B38)	X'4'	0	COMNRLEN	"L'COMNODE+L'COMRMT" Length of node+remote
2872	(B38)	X'8'	0	COMUCNT	"8" COUNTER FOR EXAMINING GENERIC USERIDS
2880	(B40)	BITSTRING	1		Reserved

Comment

More flag bytes

End of Comment

2881	(B41)	BITSTRING	1	COMSFLG1	Flag byte for specific cmds
		1...		COMS1WT	"B'10000000'" Waited 1 sec in $PJES2 for system to quiesce

Comment

Next 2 bits used for Joblist commands

End of Comment

		.1..		COMS1JQ	"B'01000000'" JOBQ specified as object
		..1.		COMS1JST	"B'00100000'" J, S, or T specified
		...1		COMS1HIT	"B'00010000'" JOE found flag
		.... 1...		COMS1RTS	"B'00001000'" $T RMT switched BSC<--->SNA
		.... .1..		COMS1MAX	"B'00000100'" Maximum hi range specified
		.... ..1.		COMS1FLT	"B'00000010'" Job queue filter required
		1		COMS1RBD	"B'00000001'" Include rebuild queue in job scan
2882	(B42)	BITSTRING	2		Reserved for future use

Comment

$CFSEL macro/service routine communication area

End of Comment

2884	(B44)	ADDRESS	4	COMSCOTE	Address of current entry in operand pointer table
2888	(B48)	ADDRESS	4	COMSRTNA	Address of selected routine (or zero if no match)
2892	(B4C)	SIGNED	4	COMSSLEN	Length of matching string (or zero if no match)
2896	(B50)	SIGNED	4	COMSRLEN	Residual operand length (or input operand length if no match)

Comment

Area for specifications for filter type operands

End of Comment

2900	(B54)	CHARACTER	8	COMJNAM	STORE OUTPUT JOE NAME
2908	(B5C)	SIGNED	2	COMJID1	STORE OUTPUT JOE 1ST ID
2910	(B5E)	SIGNED	2	COMJID2	STORE OUTPUT JOE 2ND ID

Comment

$TO AND $R WORK AREA FOR JOES

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2912	(B60)	SIGNED	4	(0)	Word alignment
2912	(B60)	BITSTRING	104	COJWORK	Work-JOE area for $TO/$R
3016	(BC8)	BITSTRING	76	COCHAR	Char-JOE area for $TO/$R
3092	(C14)	BITSTRING	1	COMLTFLG	Flag byte for $L and $TO
		1...		COMLTMAX	"B'10000000'" DISPMAX reached for current set of $HAS686 msgs

Comment

```
-------------------------------------------------------------
      Field needed for $CFJSCAN Processing
-------------------------------------------------------------
```

End of Comment

3093	(C15)	BITSTRING	2		Reserved for future use
3095	(C17)	BITSTRING	1	COMQUE	Requested Queue

Comment

```
-------------------------------------------------------------
     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
-------------------------------------------------------------
```

End of Comment

3096	(C18)	BITSTRING	4	COMAFMSK	System affinity mask
3100	(C1C)	BITSTRING	1	COMOSAFM	Old system affinity mask

Comment

```
-----------------------------------------------------------------
      ENQ/DEQ parameter lists
-----------------------------------------------------------------
       MACRO-DATE = 01/30/01
```

End of Comment

3104	(C20)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
3104	(C20)	X'C20'	0	COMRDRNQ	"*" X02113
3104	(C20)	ADDRESS	1		PELLAST flag byte. X02113
3105	(C21)	ADDRESS	1		PELMILEN - RNAME length.
3106	(C22)	BITSTRING	1		

Comment

```
                    PELFLAG - flag byte 2.
```

End of Comment

3107	(C23)	ADDRESS	1		PELRET - return code byte.
3108	(C24)	ADDRESS	4		QNAME ADDRESS
3112	(C28)	ADDRESS	4		RNAME ADDRESS
3112	(C28)	X'C'	0	COMENQL	"*-COMRDRNQ" Length of ENQ

Comment

```
      MACRO-DATE = 01/17/01
```

End of Comment

3116	(C2C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
3116	(C2C)	X'C2C'	0	COMRDRDQ	"*" X02113
3116	(C2C)	ADDRESS	1		PELLAST flag byte. X02113
3117	(C2D)	ADDRESS	1		PELMILEN - RNAME length.
3118	(C2E)	BITSTRING	1		

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					PELFLAG - flag byte 2.
					End of Comment
3119	(C2F)	ADDRESS	1		PELRET - return code byte.
3120	(C30)	ADDRESS	4		QNAME ADDRESS
3124	(C34)	ADDRESS	4		RNAME ADDRESS
3124	(C34)	X'C'	0	COMDEQL	"*-COMRDRDQ" Length of DEQ
3124	(C34)	X'B48'	0	COMMAXL	"*-PCEWORK" Maximum length of COMWORK
					Comment

					Beginning of remappings of existing areas. Add all new fields that are to be in the "base" $COMWORK mapping before label COMMAXL.

					SUBSYSTEM-INDEPENDENT (SSI) FORMATTED COMMAND AREA

					End of Comment
2604	(A2C)	BITSTRING	40	COMFCMDA (0)	FORMATTED COMMAND AREA
2604	(A2C)	CHARACTER	1	COMFOP	FORMATTED COMMAND OPTION CODE
2605	(A2D)	CHARACTER	1	COMFFLG	FORMATTED COMMAND FLAG BYTE
2606	(A2E)	SIGNED	2	COMFJID	JOB IDENTIFICATION
2608	(A30)	CHARACTER	8	COMFORGN	ORIGINATING NODE NAME
2616	(A38)	CHARACTER	8	COMFJNAM	JOB NAME
2624	(A40)	CHARACTER	8	COMFD	DESTINATION NODE NAME (ROUTE CMD)
2632	(A48)	CHARACTER	8	COMFR	REMOTE NAME (ROUTE CMD)
2640	(A50)	SIGNED	4	COMFJNO	Job number identifier
2640	(A50)	X'A54'	0	COMFEND	"*" END OF FORMATTED COMMAND AREA
2640	(A50)	X'28'	0	COMFL	"*-COMFOP" LENGTH OF FORMATTED CMD AREA
2644	(A54)	ADDRESS	2	(0)	Ensure area fits within COMREGSV
					Comment

					SSI FORMATTED CMD WORKAREA (USED BY HASPCFCP)

					End of Comment
2492	(9BC)	CHARACTER	80	COSIWORK (0)	
2492	(9BC)	BITSTRING	40	COSICMDA (0)	FORMATTED COMMAND AREA
2492	(9BC)	CHARACTER	1	COSIOP	FORMATTED COMMAND OPTION CODE
2493	(9BD)	CHARACTER	1	COSIFLG	FLAG BYTE (SEE COMFFLG DEF.)
2494	(9BE)	SIGNED	2	COSIJID	JOB IDENTIFICATION
2496	(9C0)	CHARACTER	8	COSIORGN	ORIGINATING NODE NAME
2504	(9C8)	CHARACTER	8	COSIJNAM	JOB NAME
2512	(9D0)	CHARACTER	8	COSID	DESTINATION NODE NAME (ROUTE CMD)
2520	(9D8)	CHARACTER	8	COSIR	REMOTE NAME (ROUTE CMD)
2528	(9E0)	SIGNED	4	COSIJNO	Job number identifier
2528	(9E0)	X'9E4'	0	COSIEND	"*" END OF FORMATTED COMMAND AREA
2528	(9E0)	X'28'	0	COSIL	"*-COSICMDA" LENGTH OF FORMATTED CMD AREA
2532	(9E4)	SIGNED	4	COSILINK	USED TO SAVE LINK REGISTER
2536	(9E8)	SIGNED	4	COSIJQER	USED TO SAVE PTR TO JQE
2540	(9EC)	SIGNED	4	COSISAV0	USED TO SAVE R0 CONTENTS
2544	(9F0)	SIGNED	2	COSINOD#	ORIGINATING NODE # (BINARY)
2546	(9F2)	CHARACTER	1	COSIEFOP	EFFECTIVE CMD OPTION CODE
2547	(9F3)	BITSTRING	1		RESERVED FOR FUTURE USE
2547	(9F3)	X'38'	0	COMSIL	"*-COSIWORK" Length of this remapping
2548	(9F4)	ADDRESS	2	(0)	Ensure area fits within COMPNTER

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					COMFOP DEFINITIONS
				End of Comment	
2548	(9F4)	X'1'	0	COMFOPD	"1" DISPLAY JOB COMMAND ($GD)
2548	(9F4)	X'2'	0	COMFOPC	"2" CANCEL JOB COMMAND ($GC)
2548	(9F4)	X'3'	0	COMFOPA	"3" RELEASE JOB COMMAND ($GA)
2548	(9F4)	X'4'	0	COMFOPH	"4" HOLD JOB COMMAND ($GH)
2548	(9F4)	X'5'	0	COMFOPR	"5" ROUTE JOB COMMAND ($GR)
				Comment	
					COMFFLG DEFINITIONS
				End of Comment	
		1...		COMFFLGO	"B'10000000'" A) FOR COMFOPC ($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
				Comment	
					$R COMMAND WORK AREA
				End of Comment	
2604	(A2C)	SIGNED	4	CRXWORKA (0)	$R COMMAND WORK AREA
2604	(A2C)	SIGNED	4	CRXOLDRT	SAVE AREA FOR OLD ROUTECDE
2608	(A30)	SIGNED	4	CRXNEWRT	SAVE AREA FOR NEW ROUTECDE
2612	(A34)	SIGNED	4	CRXCLSPT	SAVE AREA FOR CLASS PTR
2616	(A38)	SIGNED	4	CRXJBNUM	SAVE AREA FOR JOB NUMBER
2620	(A3C)	BITSTRING	1	CRXOUTD	OUTDISP PROCESSING FLAGS
		1...		CRXODLST	"B'10000000'" PARENTHESIZED OPERAND LIST CURRENTLY BEING PROCESSED
2620	(A3C)	X'8'	0	CRXODW	"$ODWRITE" PROCESS OUTDISP=WRITE
2620	(A3C)	X'4'	0	CRXODH	"$ODHOLD" PROCESS OUTDISP=HOLD
2620	(A3C)	X'2'	0	CRXODK	"$ODKEEP" PROCESS OUTDISP=KEEP
2620	(A3C)	X'1'	0	CRXODL	"$ODLEAVE" PROCESS OUTDISP=LEAVE
2620	(A3C)	X'F'	0	CRXODANY	"$ODANY" ANY OUTDISP SETTINGS
2621	(A3D)	BITSTRING	1	CRXFLAG1	$R command flag byte
		1...		CRX1GENC	"B'10000000'" CRXOLDUS contains generic characters ('*' or '?')
2622	(A3E)	BITSTRING	37	CRXCLASL	Q= CLASS LIST (36 + BLANK)
2660	(A64)	SIGNED	4	(0)	FULL WORD ALIGNMENT
2660	(A64)	CHARACTER	8	CRXOLDUS	SAVE AREA FOR OLD ROUTE CD
2668	(A6C)	CHARACTER	8	CRXNEWUS	SAVE AREA FOR NEW ROUTE CD
2676	(A74)	CHARACTER	8	CRXNEWND	SAVE AREA FOR NEW NODE NAME
2676	(A74)	X'50'	0	CRXLEN	"*-CRXWORKA" LENGTH OF $R WORK AREA
2684	(A7C)	ADDRESS	2	(0)	CHECK FOR OVERLAP
				Comment	
					MESSAGE TEXT FOR PRMODE SYSTEM TABLE ERROR
				End of Comment	
1318	(526)	CHARACTER	66	CTPRTEXT	PRMODE TABLE MESSAGE
1384	(568)	ADDRESS	2	(0)	Generate assembly error if L'CTPRTEXT exceeds L'COMMAND

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		Flag byte for PREJOE, PREJQE and PSTCFVQE			
				End of Comment	
2704	(A90)	BITSTRING	1	CRJFLAG	Flags for JOE/JQE commands
2704	(A90)	X'65'	0	CRJLEN	"*-COMREGSV" Length of remapped area
2706	(A92)	ADDRESS	2	(0)	Check for overlap
				Comment	
		Flag definitions for CRJFLAG			
				End of Comment	
		1...		CRJFLGCF	"B'10000000'" PSTCFVQE has been invoked
				Comment	
		DISPLAY UNIT FLAG DEFINITIONS			
				End of Comment	
2706	(A92)	X'A28'	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
2706	(A92)	X'A29'	0	CDUDEVTP	"COMOPFLG+1" TYPE-GROUP DCT TYPE
2706	(A92)	X'A2A'	0	CDUMASK	"COMOPFLG+2" BRANCH MASK VALUE
2706	(A92)	X'A2B'	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
2706	(A92)	X'A2C'	0	CDUDEVN	"COMREGSV,12" Device name for $DU
				Comment	
		---------- Definitions for HASP608 job information message OPT= operand of the $CFJMSG macro. ----------			
				End of Comment	
		1		COFN	"X'01'" DISPLAY NORMAL JOBS
		.... ..1.		COFS	"X'02'" DISPLAY SYSTEM JOBS
		.... .1..		COFT	"X'04'" DISPLAY LOGON JOBS
2706	(A92)	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
2706	(A92)	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
2706	(A92)	X'E7'	0	COFQ	"COFJ+COFI+COFO+COFP" DISPLAY QUEUED JOBS

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2706	(A92)	X'FF'	0	COFU	"COFJ+COFI+COFO+COFX+COFP+COFD" DISPLAY UNCONDITIONAL

Comment

Definitions for HASP608 job information message
OPT2= operand of the $CFJMSG macro.

End of Comment

		1		COFLNGFG	"B'00000001'" LONG OPERAND SPECIFIED FLAG
		.... ..1.		COFPREFX	"B'00000010'" SPOOL PREFIX ALREADY PRINTED

Comment

Define the COMMAND work area for use building the
job related display messages.

Define the fixed message start.

End of Comment

2706	(A92)	X'526'	0	COFJOB	"COMMAND,3" TEXT 'JOB', 'STC', OR 'TSU'
2706	(A92)	X'529'	0	COFJNO	"COFJOB+3,5" JOB NUMBER WITH LEADING BLANK
2706	(A92)	X'52F'	0	COFJNAME	"COFJNO+6,8" JOB NAME

Comment

Define the 2nd field - queue and/or activity info.

End of Comment

2706	(A92)	X'538'	0	COFQUE	"COFJNAME+9,8" TEXT 'AWAITING'
2706	(A92)	X'908'	0	COFOPT	"COMMAND+L'COMMAND-30,1" OPTION SPECIFIED
2706	(A92)	X'909'	0	COFNULL	"COFOPT+1,1" Place holder for COFAFF
2706	(A92)	X'90A'	0	COFOPT2	"COFNULL+1,1" 2ND OPTION FLAG
2706	(A92)	X'90B'	0	COFSECF	"COFOPT2+1,4" SECURITY FIELD FOR $WTO'S
2706	(A92)	X'90F'	0	COFLNGTH	"COFSECF+4,2" LENGTH OF MSG
2706	(A92)	X'3EB'	0	COFSIZE	"COFLNGTH+L'COFLNGTH-COFJOB" Size of work area
2706	(A92)	CHARACTER	1	(0)	Ensure work area fits within COMMAND field
2706	(A92)	X'C1C'	0	COFAFF	"COMOSAFM" System affinity mask
2706	(A92)	X'C18'	0	COFAFWRK	"COMAFMSK" Affinity mask work area

Comment

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.
NOTE: all new fields should be added BEFORE the
label COMMAXL.

End of Comment

240	(F0)	BITSTRING	2888		Account for largest section
3128	(C38)	SIGNED	4	(0)	Ensure full-word align
3128	(C38)	X'B48'	0	COMPCEWS	"*-PCEWORK" LENGTH OF WORK AREA

$COMWORK Cross Reference

Name	Hex Offset	Hex Value
CDUDEVN	A92	A2C
CDUDEVTP	A92	A29
CDUFLACT	A92	8
CDUFLAG1	A92	A28
CDUFLAG2	A92	A2B
CDUFLCLS	A92	4
CDUFLFND	A92	20
CDUFLGRP	A92	80
CDUFLLU	A92	2
CDUFLMOD	A92	1
CDUFLONE	A92	8
CDUFLONG	A92	40
CDUFLOPR	A92	10
CDUFLRAT	A92	10
CDUFLRMT	A92	20
CDUFLSHT	A92	2
CDUFLSTR	A92	4
CDUFLSUB	A92	80
CDUFLTYP	A92	C0
CDUFXSUB	A92	1
CDUMASK	A92	A2A
COCHAR	BC8	
COFA	A92	1F
COFAFF	A92	C1C
COFAFWRK	A92	C18
COFD	A92	10
COFI	A92	20
COFJ	A92	7
COFJNAME	A92	52F
COFJNO	A92	529
COFJOB	A92	526
COFLNGFG	A92	1
COFLNGTH	A92	90F
COFN	A92	1
COFNULL	A92	909
COFO	A92	40
COFOPT	A92	908
COFOPT2	A92	90A
COFP	A92	80
COFPREFX	A92	2
COFQ	A92	E7
COFQUE	A92	538
COFS	A92	2
COFSECF	A92	90B
COFSIZE	A92	3EB
COFT	A92	4
COFU	A92	FF
COFX	A92	8
COJWORK	B60	
COMACEID	453	
COMAFMSK	C18	
COMAUTH	452	
COMBWORK	484	
COMCART	42C	
COMCONNM	48A	
COMDEQL	C34	C
COMDESC	43C	
COMDOMID	440	
COMDWORK	468	
COMENQL	C28	C
COMENTBG	3EC	
COMEWORK	464	
COMFCMDA	A2C	
COMFD	A40	
COMFEND	A50	A54
COMFFLG	A2D	
COMFFLGD	9F4	40
COMFFLGJ	488	3
COMFFLGN	9F4	20
COMFFLGO	9F4	80
COMFFLGS	488	1
COMFFLGT	488	2
COMFJID	A2E	
COMFJNAM	A38	
COMFJNO	A50	
COMFL	A50	28
COMFLAG	424	
COMFLAG2	3E4	
COMFLAG3	42B	
COMFOP	A2C	
COMFOPA	9F4	3
COMFOPC	9F4	2
COMFOPD	9F4	1
COMFOPH	9F4	4
COMFOPR	9F4	5
COMFORGN	A30	
COMFR	A48	
COMFWORK	480	
COMGFLG1	485	
COMGFLG2	486	
COMG1$MN	485	4
COMG1APO	485	80
COMG1CON	485	10
COMG1PAR	485	20
COMG1REQ	485	40
COMG1SJR	485	1
COMG1SSI	485	8
COMG1UAC	485	2
COMINCON	44E	
COMINPUT	494	
COMINXSV	A24	
COMJID1	B5C	
COMJID2	B5E	
COMJNAM	B54	
COMJNAME	926	
COMJNOD	45C	
COMJRMT	45E	
COMJROUT	45C	
COMJSCAT	460	
COMLCCA	488	
COMLEVEL	425	
COMLFLG	48A	466
COMLFLGA	48A	4
COMLFLGC	48A	2
COMLFLGR	48A	1
COMLINET	436	
COMLJBRG	9B8	
COMLNGTH	524	524
COMLTFLG	C14	
COMLTMAX	C14	80
COMMAND	526	
COMMAXL	C34	B48
COMMID	524	
COMML	427	
COMMLTE	3F4	
COMMLTEA	3F0	

Name	Hex Offset	Hex Value
COMMNDLN	9B2	
COMNODE	B38	0
COMNRLEN	B38	4
COMNULOP	A0C	
COMOPFLG	A28	
COMOPRND	526	528
COMOSAFM	C1C	
COMPCEWS	C38	B48
COMPINDX	A10	
COMPNTER	9BC	
COMPNTRL	9BC	50
COMPWORK	487	
COMPXEQ	3E8	
COMQUE	C17	
COMRDRDQ	C2C	C2C
COMRDRNQ	C20	C20
COMREGSV	A2C	
COMRFLG1	B36	
COMRMT	444	
COMRMTE	B38	2
COMROUT	43E	
COMRWORK	B24	
COMR1DFT	B36	8
COMR1GEN	B36	4
COMR1GNA	B36	2
COMR1GNC	B36	40
COMR1RAL	B36	10
COMR1RPR	B36	1
COMR1UNN	B36	20
COMSAFC	526	5EF
COMSAFL	526	5EE
COMSCOTE	B44	
COMSDLCT	518	
COMSECT	390	
COMSFLG1	B41	
COMSIL	9F3	38
COMSPMSK	370	
COMSQD	3E0	
COMSRLEN	B50	
COMSRTNA	B48	
COMSSLEN	B4C	
COMSTAB	520	
COMS1FLT	B41	2
COMS1HIT	B41	10
COMS1JQ	B41	40
COMS1JST	B41	20
COMS1MAX	B41	4
COMS1RBD	B41	1
COMS1RTS	B41	8
COMS1WT	B41	80
COMTDLCT	51C	
COMTO	428	
COMTONOD	428	
COMTOQUL	42A	
COMTYPE	426	
COMUCM	434	
COMUCMA	435	
COMUCMID	438	
COMUCNT	B38	8
COMUSEID	B38	4
COMUSER	446	
COMUWORK	B38	
COMVERB	526	527
COMWREGS	470	
COMWTOLG	446	2A
COMWTOPL	424	
COMXWCA	9B4	
COSICMDA	9BC	
COSID	9D0	
COSIEFOP	9F2	
COSIEND	9E0	9E4
COSIFLG	9BD	
COSIJID	9BE	
COSIJNAM	9C8	
COSIJNO	9E0	
COSIJQER	9E8	
COSIL	9E0	28
COSILINK	9E4	
COSINOD#	9F0	
COSIOP	9BC	
COSIORGN	9C0	
COSIR	9D8	
COSISAV0	9EC	
COSIWORK	9BC	
CPOFAGHR	486	4
CPOFALL	486	8
CPOFCLS	486	80
CPOFCNCL	486	40
CPOFLAG	486	486
CPOFNJO	486	1
CPOFQR	486	2
CPOFRTE	486	20
CPOPROT	486	10
CRJFLAG	A90	
CRJFLGCF	A92	80
CRJLEN	A90	65
CRXCLASL	A3E	
CRXCLSPT	A34	
CRXFLAG1	A3D	
CRXJBNUM	A38	
CRXLEN	A74	50
CRXNEWND	A74	
CRXNEWRT	A30	
CRXNEWUS	A6C	
CRXODANY	A3C	F
CRXODH	A3C	4
CRXODK	A3C	2
CRXODL	A3C	1
CRXODLST	A3C	80
CRXODW	A3C	8
CRXOLDRT	A2C	
CRXOLDUS	A64	
CRXOUTD	A3C	
CRXWORKA	A2C	
CRX1GENC	A3D	80
CTPRTEXT	526	
CURRCMD	92E	
PCE	0	

$CPCWORK Programming Interface information

Programming Interface information

$CPCWORK

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPCWPARM	, CPOOL QCELL Work Mapping
0	(0)	ADDRESS	4	CPCWCELL	Cell address
4	(4)	SIGNED	4	CPCWSTAT	Cell status
8	(8)	SIGNED	4	CPCWXNUM	Extent number for cell
12	(C)	SIGNED	4	CPCWRC	MVS service return code
16	(10)	SIGNED	4	CPCALET	ALET of cell
16	(10)	X'14'	0	CPCWSIZE	"*-CPCWPARM" Size of parmlist

$CPEBE Programming Interface Information

Programming Interface Information

$CPEBE

End of Programming Interface Information

$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: 0
Length: 4
Storage Attributes: Subpool: 231
Key: 1
Residency: Extended private
Size: See CPESIZE
Created by: CPEXPAND Routine in HASCPOOL
Pointed to by: CPMCPEBE field of the CPMASTR table.
Frequency: One per cell pool extent.
Serialization: None.
Function: The $CPEBE mapping is used to mapped over storage that contains information on Cell Pool extents.

$CPEBE Map

Offsets Dec	Offsets Hex	Type/Value	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	3		Reserved for future use
8	(8)	ADDRESS	4	CPENEXT	Address of next CPEBE
12	(C)	ADDRESS	4	CPEBBADR	Address of CPEB/Bit map
16	(10)	SIGNED	4	CPEBBSIZ	Size of CPEB/Bit map
20	(14)	ADDRESS	4	CPEXXADD	Address of extent
24	(18)	SIGNED	4	CPEXXSZ	Size of extent
28	(1C)	SIGNED	4	CPEBXNUM	Extent number
32	(20)	SIGNED	4	CPEBMAST	CPMASTR offset in CPINDEX
32	(20)	X'24'	0	CPESIZE	"*-CPEBE" Size of CPEBE element

$CPEBE Cross Reference

Name	Hex Offset	Hex Value
CPEBBADR	C	
CPEBBSIZ	10	
CPEBE	0	
CPEBMAST	20	
CPEBXNUM	1C	
CPEID	0	C3D7C5C2
CPENEXT	8	
CPESIZE	20	24
CPEVNUM	4	1
CPEVRSN	4	
CPEXXADD	14	
CPEXXSZ	18	

$CPINDEX Programming Interface information

Programming Interface information

$CPINDEX

End of Programming Interface information

$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 (BAT, BSC, CB, HASP, NMAP, NSA, NTQ, NAT, PAGE, PP, PROT, PSO, SAPID, SMF, SPXFR, STAC, TJEV, UNPROT, and VTAM).
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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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 CPMASTR addr, location (BELOW,ANY)
4	(4)	X'4'	0	CPIBAT_C	"CPIBAT,4,C'A'" BAT Common pool equate
8	(8)	ADDRESS	4	CPIBSC	BSC CPMASTR addr, subpool BSCPOOL
12	(C)	ADDRESS	4	CPICB	CB CPMASTR addr, subpool CBPOOL
16	(10)	ADDRESS	4	CPICMB	CMB CPMASTR addr, subpool CMBPOOL
20	(14)	ADDRESS	4	CPIEVT	EVT CPMASTR addr, location CSA
20	(14)	X'14'	0	CPIEVT_C	"CPIEVT,4,C'A'" EVT Common pool equate
24	(18)	ADDRESS	4	CPIHASP	HASP CPMASTR addr, subpool HASPPOOL
28	(1C)	ADDRESS	4	CPIHEDR	HEDR CPMASTR addr, subpool HEDRPOOL
32	(20)	ADDRESS	4	CPIICE	ICE CPMASTR addr, subpool ICEPOOL
36	(24)	ADDRESS	4	CPINAT	NAT CPMASTR addr, subpool NATPOOL

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	ADDRESS	4	CPIB32K	B32K CPMASTR addr, subpool B32KPOOL
44	(2C)	ADDRESS	4	CPINMAP	NMAP CPMASTR addr, subpool NMAPPOOL
48	(30)	ADDRESS	4	CPINSA	NSA CPMASTR addr, subpool NSAPOOL
52	(34)	ADDRESS	4	CPINTQ	NTQ CPMASTR addr, subpool NTQPOOL
56	(38)	ADDRESS	4	CPIPAGE	PAGE CPMASTR addr, subpool PAGEPOOL
60	(3C)	ADDRESS	4	CPIPP	PP CPMASTR addr, subpool PPPOOL
64	(40)	ADDRESS	4	CPIPSO	PSO CPMASTR addr, location DATASPACE
64	(40)	X'40'	0	CPIPSO_C	"CPIPSO,4,C'A'" PSO Common pool equate
68	(44)	ADDRESS	4	CPIRNT	RNT CPMASTR addr, subpool RNTPOOL
72	(48)	ADDRESS	4	CPISAPID	SAPID CPMASTR addr, location DATASPACE
72	(48)	X'48'	0	CPISAPID_C	"CPISAPID,4,C'A'" SAPID Common pool equate
76	(4C)	ADDRESS	4	CPISTAC	STAC CPMASTR addr, location DATASPACE
76	(4C)	X'4C'	0	CPISTAC_C	"CPISTAC,4,C'A'" STAC Common pool equate
80	(50)	ADDRESS	4	CPITJEV	TJEV CPMASTR addr, location DATASPACE
80	(50)	X'50'	0	CPITJEV_C	"CPITJEV,4,C'A'" TJEV Common pool equate
84	(54)	ADDRESS	4	CPISMF	SMF CPMASTR addr, subpool SMFPOOL
88	(58)	ADDRESS	4	CPITRE	TRE CPMASTR addr, subpool 230
92	(5C)	ADDRESS	4	CPIVTAM	VTAM CPMASTR addr, subpool VTAMPOOL
96	(60)	ADDRESS	4	CPIXRQ	XRQ CPMASTR addr, subpool XRQPOOL
96	(60)	X'60'	0	CPISTEND	"*-CPISTART" Size of the CPLTABs
96	(60)	X'64'	0	CPISTD	"*-CPINDEX" Size of the standard cell types
96	(60)	X'4'	0	CPIOFLEN	"4" Length of offset field
100	(64)	SIGNED	4	CPIWSTRT (0)	Start of the work cell types
100	(64)	ADDRESS	4	CPIWORK (0)	User-defined CPMASTER's
100	(64)	X'F94'	0	CPIWLEN	"*-CPIWSTRT" Size of the work cell types
100	(64)	X'FF8'	0	CPILEN	"4096-$CSBPRFX" Size of the CPINDEX table

$CPINDEX Cross Reference

Name	Hex Offset	Hex Value
CPIBAT	4	
CPIBAT_C	4	4
CPIBSC	8	
CPIB32K	28	
CPICB	C	
CPICMB	10	
CPIEMPTY	2	80
CPIEVT	14	
CPIEVT_C	14	14
CPIFLAG1	2	
CPIFLAG2	3	
CPIHASP	18	
CPIHEDR	1C	
CPIICE	20	
CPILEN	64	FF8
CPILOCK	1	
CPINAT	24	
CPINDEX	0	
CPINMAP	2C	
CPINSA	30	
CPINTQ	34	
CPIOFLEN	60	4
CPIPAGE	38	
CPIPP	3C	
CPIPSO	40	
CPIPSO_C	40	40
CPIRNT	44	
CPISAPID	48	
CPISAPID_C	48	48
CPISMF	54	
CPISTAC	4C	
CPISTAC_C	4C	4C
CPISTART	4	
CPISTD	60	64
CPISTEND	60	60
CPITJEV	50	
CPITJEV_C	50	50
CPITRE	58	
CPIVNUM	0	1
CPIVRSN	0	
CPIVTAM	5C	
CPIWLEN	64	F94
CPIWORK	64	
CPIWSTRT	64	
CPIXRQ	60	
CPI1CSA	2	40

$CPMASTR Programming Interface information

Programming Interface information

$CPMASTR

End of Programming Interface information

$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 CPMASTR element in the JES2 pre-defined cell types. To insert a user-defined cell type, a lock (CPILOCK) must be obtained before the CPMASTR 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.

$CPMASTR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPMASTR	Cell Pool Master Element
0	(0)	CHARACTER	4	CPMID	CPMASTR Identifier
4	(4)	BITSTRING	1	CPMVRSN	CPMASTER 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 CPMASTR
12	(C)	CHARACTER	8	CPMTYPE	Cell Type
20	(14)	SIGNED	4	CPMCSIZE	Cell Size
24	(18)	BITSTRING	1	CPMFLAG1	CPMASTR processing flags
		1...		CPM1FALL	"B'10000000'" FREEMAIN setup storage
		.1..		CPM1ALTP	"B'01000000'" Alternate cell pool
		..1.		CPM1REAL	"B'00100000'" The real CPMASTR
		...1		CPM1PRIM	"B'00010000'" Primary extent allocated
25	(19)	BITSTRING	1	CPMFLAG2	CPMASTR pool attribute flag
		1...		CPM2ABOV	"B'10000000'" Storage is above
		.1..		CPM2BELO	"B'01000000'" Storage is below
		..1.		CPM2DSP	"B'00100000'" Cell pool in a data space
		...1		CPM2CSA	"B'00010000'" Cell pool is in CSA
		.... 1...		CPM2NCLR	"B'00001000'" Don't clear cell storage between uses (up to caller to clear)
		.... .1..		CPM2RANY	"B'00000100'" Real storage can be above
26	(1A)	BITSTRING	1	CPMFLAG3	CPMASTR 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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...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
27	(1B)	BITSTRING	1		Reserved for future use
28	(1C)	SIGNED	4	CPMGEND (0)	End of general CPMASTR
28	(1C)	SIGNED	4	CPMLIMIT	Max limit for num of cell
32	(20)	SIGNED	4	CPMPRMSZ	Primary extent size (cells)
36	(24)	SIGNED	4	CPMSECSZ	Secondary ext size (cells)
36	(24)	X'28'	0	CPMTSIZE	"*-CPMASTR" CPMASTR portion that maps over CPLTAB
40	(28)	SIGNED	2	CPMLEN	Length of storage area (Includes CPMASTR and a CPAB that follows)
42	(2A)	SIGNED	2		Reserved for future use
44	(2C)	ADDRESS	4	CPMCPAB	CPAB addr
48	(30)	ADDRESS	4	CPMCPINX	CPINDEX addr
52	(34)	ADDRESS	4	CPMCPEBE	Addr to first CPEBE
56	(38)	ADDRESS	4	CPMTCBAD	TCB Address to use with STORAGE OBTAIN
60	(3C)	SIGNED	4	CPMALLOC	Num of allocated cells

Comment

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

End of Comment

64	(40)	ADDRESS	4	CPMDSB	DSB address
72	(48)	DBL WORD	8	CPMDSPOL (0)	+-- Dataspace work storage pool
72	(48)	ADDRESS	4	CPMDSSTR	| Addr of available Block of | storage
76	(4C)	SIGNED	4	CPMDSLEN	+-- Length of storage block
76	(4C)	X'40'	0	CPMSCPAB	"64" Size of CPAB
76	(4C)	X'80'	0	CPMSCPEB	"128" Size of CPEB
76	(4C)	X'50'	0	CPMSIZE	"*-CPMASTR" Size of the CPMASTR

$CPMASTR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CPMALLOC	3C		CPMTCBAD	38	
CPMASTR	0		CPMTSIZE	24	28
CPMCPAB	2C		CPMTYPE	C	
CPMCPEBE	34		CPMVNUM	4	2
CPMCPINX	30		CPMVRSN	4	
CPMCSIZE	14		CPM1ALTP	18	40
CPMDSB	40		CPM1FALL	18	80
CPMDSLEN	4C		CPM1PRIM	18	10
CPMDSPOL	48		CPM1REAL	18	20
CPMDSSTR	48		CPM2ABOV	19	80
CPMFLAG1	18		CPM2BELO	19	40
CPMFLAG2	19		CPM2CSA	19	10
CPMFLAG3	1A		CPM2DSP	19	20
CPMGEND	1C		CPM2NCLR	19	8
CPMID	0	C3D7D4D9	CPM2RANY	19	4
CPMKEY	7		CPM3ALL	1A	2
CPMLEN	28		CPM3AUX	1A	8
CPMLIMIT	1C		CPM3COMM	1A	1
CPMOFFST	8		CPM3CURR	1A	10
CPMPRMSZ	20		CPM3FPRO	1A	80
CPMSCPAB	4C	40	CPM3LOCL	1A	4
CPMSCPEB	4C	80	CPM3MSTR	1A	20
CPMSECSZ	24		CPM3NPRO	1A	40
CPMSIZE	4C	50			
CPMSUBP	6				
CPMSUBP2	5				

$CPPWORK Programming Interface information

Programming Interface information

$CPPWORK

End of Programming Interface information

$CPPWORK Heading Information

Common Name: CPOOL Query Pool Work Area Mapping
Macro ID: $CPPWORK
DSECT Name: CPPWPARM
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 Map

Offsets					
Dec	Hex	Type/Value	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)	SIGNED	4	CPPWCSIZ	Cell size
12	(C)	SIGNED	4	CPPWCNUM	Total number of cells
16	(10)	SIGNED	4	CPPWACNM	Number of available cells
20	(14)	SIGNED	4	CPPWNMXT	Number of extents
24	(18)	SIGNED	4	CPPWRC	MVS service return code
28	(1C)	SIGNED	4	CPPWALET	ALET to access pool
28	(1C)	X'20'	0	CPPWSIZE	"*-CPPWPARM" Size of parmlist

$CPXWORK Programming Interface information

Programming Interface information

$CPXWORK

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPXWPARM	, CPOOL Query Ext Work Area DSECT
0	(0)	SIGNED	4	CPXWEXTN	Extent number
4	(4)	SIGNED	4	CPXWSTAT	Extent status
8	(8)	ADDRESS	4	CPXWCPEB	CPEB addr for this extent
12	(C)	SIGNED	4	CPXWEBLN	Length of CPEB in bytes
16	(10)	ADDRESS	4	CPXWSTOR	Storage address
20	(14)	SIGNED	4	CPXWSTSZ	Storage size
24	(18)	SIGNED	4	CPXWCELL	Total number of cells in ext.
28	(1C)	SIGNED	4	CPXWAVAI	Number of available cells
32	(20)	SIGNED	4	CPXWRC	MVS service return code
32	(20)	X'24'	0	CPXWSIZE	"*-CPXWPARM" Size of parmlist

$CPXWORK Cross Reference

Name	Hex Offset	Hex Value
CPXWAVAI	1C	
CPXWCELL	18	
CPXWCPEB	8	
CPXWEBLN	C	
CPXWEXTN	0	
CPXWPARM	0	
CPXWRC	20	
CPXWSIZE	20	24
CPXWSTAT	4	
CPXWSTOR	10	
CPXWSTSZ	14	

$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 a dynamic allocation request, as part of an ENF parameter list or as part of the output from an Extended Status SSI request.

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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CTOKEN	, HASP Client Token DSECT
16	(10)	SIGNED	4	CTK2JOBN	Job number
20	(14)	BITSTRING	4	CTK2JOBK	Job identifier key
24	(18)	SIGNED	4	CTK2DSID	Data set number
28	(1C)	BITSTRING	4	CTK2MTTR	IOT MTTR for data set
32	(20)	CHARACTER	12	CTK2JOEI (0)	JOE Identification block
32	(20)	CHARACTER	8	CTK2JONM	JOE's output group name
40	(28)	SIGNED	2	CTK2JOI1	JOE'S output group 1st id
42	(2A)	SIGNED	2	CTK2JOI2	JOE'S output group 2nd id
44	(2C)	SIGNED	4	CTK2PDBO	Offset of PDDB within IOT
48	(30)	BITSTRING	31		Reserved
79	(4F)	BITSTRING	1	CTK2FLG1	Flag byte
		1...		CTK21TCT	"B'10000000'" Token represents a data set (Created as a result of a dynamic allocation request)
		.1..		CTK21TJO	"B'01000000'" Token represents a JOE rather than a data set
		..1.		CTK21TSA	"B'00100000'" Token represents a data set (Returned as a result of a SAPI Put/Get Request)
79	(4F)	X'40'	0	CTK2SIZE	"*-CTKNJESD" Length of HASP section
80	(50)	ADDRESS	2	(0)	Generate assembly error if CTK2SIZE exceeds L'CTKNJESD

$CTOKEN Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		The following equates provide values for the Bit Map based on which parts of the Client Token are valid to be used in comparisions. Two equates are required to map the Bit Map (each equate maps 32 bits). 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 Client Token (actually a schedulable work element 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 token.			
				End of Comment	
80	(50)	BITSTRING	0	CTK2BCT1	"B'11111111111100000000000000000000',4,C'B'"
		....		CTK2BCT2	"B'00000000000000000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2BJO1	"B'11111111000000001111111111110000',4,C'B'"
		....		CTK2BJO2	"B'00000000000000000000000000000000',4,C'B'"
		....		CTK2BJB1	"B'11111111000000000000000000000000',4,C'B'"
		....		CTK2BJB2	"B'00000000000000000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2BDS1	"B'11111111111100000000000000001111',4,C'B'"
		....		CTK2BDS2	"B'00000000000000000000000000000000',4,C'B'"

$CTOKEN Cross Reference

Name	Hex Offset	Hex Value
CTK2BCT1	50	F00000
CTK2BCT2	50	0
CTK2BDS1	50	F0000F
CTK2BDS2	50	0
CTK2BJB1	50	0
CTK2BJB2	50	0
CTK2BJO1	50	FFF0
CTK2BJO2	50	0
CTK2DSID	18	
CTK2FLG1	4F	
CTK2JOBK	14	
CTK2JOBN	10	
CTK2JOEI	20	
CTK2JOI1	28	
CTK2JOI2	2A	
CTK2JONM	20	
CTK2MTTR	1C	
CTK2PDBO	2C	
CTK2SIZE	4F	40
CTK21TCT	4F	80
CTK21TJO	4F	40
CTK21TSA	4F	20
CTOKEN	0	

$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 Map

Offsets					
Dec	Hex	Type/Value	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'2'	0	CTWVERN	"2" CTW version number
5	(5)	BITSTRING	1	CTWFLAG1	FLAGS
		1...		CTW1RD1	"B'10000000'" THIS DATA IS FOR READ 1
		.1..		CTW1RD2	"B'01000000'" THIS DATA IS FOR READ 2
		..1.		CTW1PRMW	"B'00100000'" THIS DATA IS FOR THE PRIM WRITE
		...1		CTW1INTW	"B'00010000'" THIS DATA IS FOR AN INTERMEDIATE WRITE
		.... 1...		CTW1FINW	"B'00001000'" THIS DATA IS FOR FINAL WRITE
		.... .1..		CTW1PRIO	"B'00000100'" THIS DATA WAS AFFECTED BY PRIORITY AGING
		.... ..1.		CTW1CKDS	"B'00000010'" 0 IF I/O TO CKPT1, 1 IF I/O TO CKPT2
6	(6)	BITSTRING	2		RESERVED FOR FUTURE USE
8	(8)	SIGNED	2	CTWDATA (0)	START OF CTW DATA
8	(8)	DBL WORD	8	CTWIOSTR	I/O START TIME
16	(10)	DBL WORD	8	CTWIOSTP	I/O STOP TIME
24	(18)	SIGNED	4	CTWCKPWT	NUM OF TIMES THE CKPT PCE $WAITED BEFORE BEING DISPATCHED
28	(1C)	SIGNED	4	CTWCLNPA	NUMBER OF PAGES ALLOCATED TO CHANGE LOG
32	(20)	SIGNED	4	CTWCLNPU	NUM OF USED PAGES IN CHANGE LOG
36	(24)	SIGNED	4	CTWCLPR1	NUMBER OF CH LOG PAGES READ IN
40	(28)	SIGNED	4	CTWMINHL	MINHOLD VALUE
44	(2C)	SIGNED	4	CTWMINDR	MINDORM VALUE
48	(30)	SIGNED	4	CTWMAXDR	MAXDORM VALUE
52	(34)	SIGNED	4	CTWCLNCB	NUMBER OF CONTROL BLOCKS IN THE CHANGE LOG
56	(38)	SIGNED	4	CTWNMPCE	NUMBER OF PCES DEFINED
60	(3C)	SIGNED	4	CTWWTPCE	NUMBER OF PCES WAITING FOR CKPT
64	(40)	SIGNED	4	CTWMXTIM	MAXIMUM AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
68	(44)	SIGNED	4	CTWAVTIM	AVERAGE AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
72	(48)	SIGNED	4	CTWCLNBU	NUM OF USED BYTES IN THE CH LOG
76	(4C)	SIGNED	4	CTWHLTIM	CHECKPOINT HELD TIME
80	(50)	SIGNED	4	CTWDRMTM	CHECKPOINT DORMANCY TIME

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	SIGNED	4	CTWPGNCL	PAGES TRANS. IF NO CH LOG
88	(58)	SIGNED	4	CTWLEVNM	LEVEL NUMBER OF DATASET

Comment

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).

End of Comment

92	(5C)	SIGNED	4	CTWCKPTN	Number of $CKPTs issued
96	(60)	SIGNED	4	CTWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
100	(64)	SIGNED	4	CTWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
104	(68)	SIGNED	4	CTWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
108	(6C)	SIGNED	4	CTWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
112	(70)	SIGNED	4	CTWOPT4K	Number of 4K pages skipped due to CKPT optimization
116	(74)	SIGNED	2	CTWKITNM	Number of CTENT entries
118	(76)	SIGNED	2		Reserved for future use
118	(76)	X'78'	0	CTWFXEND	"*-CTW" END OF FIXED PORTION OF CTW
120	(78)	SIGNED	4	CTWCTNTS (0)	START OF CTENT INFORMATION:
120	(78)	X'0'	0	CTWCTNMP	"0,4" NUM OF PAGES FOR THIS CTENT
120	(78)	X'4'	0	CTWCTNMC	"4,4" NUMBER OF CONTROL BLOCKS FOR THIS CTENT
120	(78)	X'8'	0	CTWCTLEN	"L'CTWCTNMP+L'CTWCTNMC" LENGTH OF CTW CTENT ENTRY

$CTW Cross Reference

Name	Hex Offset	Hex Value
CTW	0	
CTWAVTIM	44	
CTWCKPTN	5C	
CTWCKPWT	18	
CTWCLNBU	48	
CTWCLNCB	34	
CTWCLNPA	1C	
CTWCLNPU	20	
CTWCLPR1	24	
CTWCTLEN	78	8
CTWCTNMC	78	4
CTWCTNMP	78	0
CTWCTNTS	78	
CTWDATA	8	
CTWDRMTM	50	
CTWFLAG1	5	
CTWFXEND	76	78
CTWHLTIM	4C	
CTWIOSTP	10	
CTWIOSTR	8	
CTWKITNM	74	
CTWLEVNM	58	
CTWLID	0	C3E3E640
CTWMAXDR	30	
CTWMINDR	2C	
CTWMINHL	28	
CTWMVSWT	60	
CTWMXTIM	40	
CTWNMPCE	38	
CTWOPTCK	6C	
CTWOPT4K	70	
CTWPGNCL	54	
CTWQSUSE	64	
CTWVER	4	
CTWVERN	4	2
CTWWTPCE	3C	
CTWWTTM	68	
CTW1CKDS	5	2
CTW1FINW	5	8
CTW1INTW	5	10
CTW1PRIO	5	4
CTW1PRMW	5	20
CTW1RD1	5	80
CTW1RD2	5	40

$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: N/A
Key: 1
Residency: In the JES2CKVR data space
Size: See CVCBSIZE
Created by: HASPCKVR
Pointed to by: SPUD_LATEST_VERSION field of $SPUD data area
SPUD_FREE_QUEUE field of $SPUD data area
SPUD_HOLD field of $SPUD data area
DSRVCVPT field of IAZDSERV data area
Serialization: Serialization is handled by means of ENQ/DEQ.
HASPCKVR-Versioning/Applcopy 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 data space as a version, the representative CVCB is placed in the SPUD (Space Utilization Description block) 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.
When the HASPCKVR 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.
ENQ/DEQ NAMES:
Major name - CCTQNAM = 'SYSZssss'
ssss - JES2 subsystem name
Minor name - 'CVCBnnnn'
nnnn - CVCB_VERSION_NUMBER

Function: 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 SPUD. 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.

$CVCB Map

Offsets					
Dec	**Hex**	**Type/Value**	**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'2'	0	CVCBCVNO	"2" Current CB version number

Comment

CVCB_FLAG is cleared when a CVCB version is generated.

End of Comment

5	(5)	BITSTRING	1	CVCB_FLAG	Flag Byte
		1...		CVCB_FDMP	"B'10000000'" SDUMP requested
6	(6)	BITSTRING	1		Reserved

Comment

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.

End of Comment

7	(7)	BITSTRING	1	CVCB_ENQ_SKIP_COUNT	ENQ check counter
8	(8)	ADDRESS	4	CVCB_NEXT	Next CVCB address
12	(C)	ADDRESS	4	CVCB_MASTER_REC	Address of master record
16	(10)	ADDRESS	4	CVCB_4K_PAGES	Address of 4K pages
20	(14)	ADDRESS	4	CVCB_$CATBERT_ADDR	Address of $CATBERT
24	(18)	SIGNED	4	CVCB_ADDRS (0)	Start of section address
24	(18)	ADDRESS	4	CVCB_JOT_ADDR	JOT start address
28	(1C)	ADDRESS	4	CVCB_JQE_ADDR	JQE start address
32	(20)	ADDRESS	4	CVCB_QSE_ADDR	QSE start address
36	(24)	ADDRESS	4	CVCB_HCT_ADDR	HCT start address (Ckpt'ed)
40	(28)	ADDRESS	4	CVCB_JQEX_ADDR	JQE extension address
44	(2C)	ADDRESS	4	CVCB_KIT_ADDR	KITs start address
48	(30)	ADDRESS	4	CVCB_JNT_ADDR	JNT start address
52	(34)	ADDRESS	4	CVCB_JQX_ADDR	JQX start address

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	ADDRESS	4	CVCB_BERT_ADDR	
					BERT start address
60	(3C)	ADDRESS	4	CVCB_DAS_ADDR	
					DAS start address
64	(40)	SIGNED	4	CVCB_ENQ_CT	Count of shared ENQs
		1...		CVCB_USED	"B'10000000'" Version used this cycle
68	(44)	CHARACTER	8	CVCB_TIME	Time stamp for version
76	(4C)	CHARACTER	8	CVCB_MAJOR (0)	Major name for ENQ
76	(4C)	CHARACTER	4	CVCB_SYS	'SYSZ'
80	(50)	CHARACTER	4	CVCB_JESID	Subsystem name
84	(54)	CHARACTER	8	CVCB_MINOR (0)	Minor name for ENQ
84	(54)	CHARACTER	4	CVCB_ENQ_ID	'CVCB'
88	(58)	SIGNED	4	CVCB_VERSION_NUMBER	
					Version numb of this CVCB
92	(5C)	SIGNED	4	(0)	Alignment
92	(5C)	X'5C'	0	CVCBSIZE	"*-CVCB" Size of the CVCB

$CVCB Cross Reference

Name	Hex Offset	Hex Value
CVCB	0	
CVCB_$CATBERT_ADDR		
	14	
CVCB_ADDRS	18	
CVCB_BERT_ADDR		
	38	
CVCB_CBVN	4	
CVCB_DAS_ADDR		
	3C	
CVCB_ENQ_CT	40	
CVCB_ENQ_ID	54	
CVCB_ENQ_SKIP_COUNT		
	7	
CVCB_FDMP	5	80
CVCB_FLAG	5	
CVCB_HCT_ADDR		
	24	
CVCB_ID	0	
CVCB_JESID	50	
CVCB_JNT_ADDR		
	30	
CVCB_JOT_ADDR		
	18	
CVCB_JQE_ADDR		
	1C	
CVCB_JQEX_ADDR		
	28	
CVCB_JQX_ADDR		
	34	
CVCB_KIT_ADDR		
	2C	
CVCB_MAJOR	4C	
CVCB_MASTER_REC		
	C	
CVCB_MINOR	54	
CVCB_NEXT	8	
CVCB_QSE_ADDR		
	20	
CVCB_SYS	4C	
CVCB_TIME	44	
CVCB_USED	40	80
CVCB_VERSION_NUMBER		
	58	

Name	Hex Offset	Hex Value
CVCB_4K_PAGES		
	10	
CVCBCVNO	4	2
CVCBSIZE	5C	5C

$DAS Programming Interface information

Programming Interface information

$DAS

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

- DASMAPO

End of Programming Interface information

$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 APPLCOPY and the DAS copies is ECSA. Real storage is anywhere.
Size: See DASSIZ for JES2 private storage
See DASSIZC for CSA copies
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 APPLCOPY and 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 $SPOLNUM-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, and perhaps an APPLCOPY copy in subpool 0 private or subpool 231 ECSA.

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 Map

Offsets Dec	Offsets Hex	Type/Value	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	DASIOOK	"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
44	(2C)	BITSTRING	2	DASNOTGE	NUMBER OF TG'S IN EXTENT
46	(2E)	SIGNED	2	DASNORTK	NUMBER OF RECORDS PER TRACK

Comment

```
------------------------------------------------------------
    DASTRK is the absolute track addresses if DAS4RELT
    is off (absolute addressing is being used) or the
    relative track numbers (DASLOTRK = 1) if DAS4RELT
    is on. When relative track addressing is active
    the absolute track address is obtained by adding
    DASSTRK to the relative TT.
------------------------------------------------------------
```

End of Comment

48	(30)	SIGNED	4	DASTRK (0)	Valid track range (TT)
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)

Comment

```
------------------------------------------------------------
    DASFLAG4 is updated by JES2 maintask only.
    There is no serialization.
------------------------------------------------------------
```

End of Comment

57	(39)	BITSTRING	1	DASFLAG4	Fourth flag byte

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					---------- The next two bits have the following valid states: 00 No signature records, none desired 01 No signature records, but signature records desired 11 Signature records exist
				End of Comment	
		1...		DAS4SIG	"B'10000000'" Extent has signature rcds
		.1..		DAS4MFMT	"B'01000000'" Extent needs to be mini-formatted
				Comment	

				End of Comment	
		..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
				Comment	
					COMPATIBILITY CODE DASRPSO is maintained for conpatibility with pre-release 10 levels of JES2. Once release 8 and below are no longer supported in a MAS, this field does not need to be maintained.
				End of Comment	
58	(3A)	BITSTRING	1	DASRPSO	RPS Table for this device
				Comment	
					---------- This table will be moved to a non-checkpointed area. All 64 RPS entries are never used so we can "steal" some space at the end of the RPS table for other data that needs to be checkpointed. ---------- COMPATIBILITY CODE Field DASJOBNO_R4 should be used for the job number when the checkpoint is R4 mode and field DASJBNUM should be used when the checkpoint is R12 mode.
				End of Comment	
108	(6C)	SIGNED	4	DASJBNUM	Lowest job number using extent while halting or draining (R12 mode)
112	(70)	SIGNED	4	DASSTRK	First track of spool extent if relative addressing is being used (else 0)
116	(74)	SIGNED	2		Reserved for future use
118	(76)	BITSTRING	1	DASSYAFF	Spool system affinity
118	(76)	X'E'	0	DASNRPS	"*-DASJBNUM" Length of fields that are not part of the RPS table but use the RPS storage
122	(7A)	SIGNED	2	DASCTGA	CSA only mapping of track groups allocated
124	(7C)	SIGNED	2	DASCSAC (0)	End of area copied to CSA
124	(7C)	X'7C'	0	DASSIZCO	"*-DAS" Len of area copied to CSA
124	(7C)	BITSTRING	64	DASRPS	RPS Table for this device
124	(7C)	X'BC'	0	DASSIZC	"*-DAS" Length of DAS mapped in CSA

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	DBL WORD	8		RESERVED FOR FUTURE USE
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

Comment

COMPATIBILITY CODE
Field DASJOBNO_R4 should be used for the job number when the checkpoint is R4 mode and field DASJBNUM should be used when the checkpoint is R12 mode.

End of Comment

144	(90)	SIGNED	2	DASJOBNO_R4	LOWEST JOB NUM USING EXTENT WHILE HALTING OR DRAINING
146	(92)	SIGNED	2	DASNOBYM	NUMBER OF BYTES IN A 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..		DASBLOB	"B'00000100'" Indicates which phase of drain/halt processing has completed(acts as a gate to Phase 2, deallocation)
		.... ..1.		DASINIT	"B'00000010'" INITIAL START HAS BEEN PERFORMED
		1		DASJOBWT	"B'00000001'" HALT/DRAIN WAITING JOBS
156	(9C)	X'F0'	0	DASCMNDS	"DASCDRN+DASCHALT+DASCSTRT+DASCFMT"
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
158	(9E)	BITSTRING	1	DASCMD2	Member nr issuing new cmd
159	(9F)	BITSTRING	1		Reserved for future use

Comment

THE NEXT FOUR FIELDS MUST BE KEPT TOGETHER. ROUTINE DADCKALL IN HASPSPOL DEPENDS ON THESE FIELDS BEING CONTIGUOUS.

End of Comment

160	(A0)	SIGNED	4	DASINDIC (0)	INDICATOR FIELDS
160	(A0)	BITSTRING	4	DASALOCS	Sys. with ext alloc'ed
164	(A4)	BITSTRING	4	DASDONE	Cmd done on these systems
168	(A8)	BITSTRING	4	DASBUSY	Cmd being done on systems
172	(AC)	ADDRESS	1	DASCMDID	SYSID of sys issuing cmd
172	(AC)	X'D'	0	DASINDLN	"*-DASINDIC" Length of indicator fields
173	(AD)	BITSTRING	4	DASERROR	Affinity of system with command error
177	(B1)	BITSTRING	1	DASERCDE (0)	ERROR CODES FOR SYSTEMS
177	(B1)	X'20'	0	DASERLEN	"*-DASERCDE" LENGTH OF ALL ERROR CODES
212	(D4)	SIGNED	4	(0)	ALIGN END OF DAS
212	(D4)	X'D4'	0	DASSIZ	"*-DAS" LENGTH OF DSECT
212	(D4)	X'7'	0	DASVRSN	"7" VERSION OF THE DAS

$DAS Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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.
					End of Comment
212	(D4)	X'4'	0	DASMNTER	"4,L'DASERCDE" VOLUME NOT MOUNTED
212	(D4)	X'8'	0	DASDUPER	"8,L'DASERCDE" DUPLICATE SPOOL VOLUMES
212	(D4)	X'C'	0	DASALCER	"12,L'DASERCDE" ALLOCATION ERROR
212	(D4)	X'10'	0	DASPMTER	"16,L'DASERCDE" PREVIOUS MOUNTED VOL NOT MOUNTED
212	(D4)	X'14'	0	DASEXTER	"20,L'DASERCDE" EXTENT ERROR
212	(D4)	X'18'	0	DASFMTER	"24,L'DASERCDE" PREV. MOUNTED VOL NOT FORMATTED
					Comment
					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.
					End of Comment
212	(D4)	X'0'	0	DASEXTGA	"0,2" NO. TG'S ALLOC. - 16 BITS
212	(D4)	X'2'	0	DASEXLEN	"L'DASEXTGA" LENGTH OF DAS EXTENSION

$DAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DAS	0		DASEXSTS	7	10
DASACTIV	7	C	DASEXTER	D4	14
DASALCER	D4	C	DASEXTGA	D4	0
DASALLOC	7	4	DASEXTNO	6	0
DASALOCS	A0	0	DASFINAL	7	2
DASAVAIL	7	CC	DASFLAG	7	0
DASBLOB	9C	4	DASFLAG2	9C	0
DASBUSY	A8	0	DASFLAG3	9D	0
DASCDRN	9C	80	DASFLAG4	39	
DASCFMT	9C	10	DASFMTER	D4	18
DASCHALT	9C	40	DASHALT	7	40
DASCMDID	AC		DASINACT	9C	8
DASCMD2	9E	0	DASINDIC	A0	
DASCMNDS	9C	F0	DASINDLN	AC	D
DASCSAC	7C		DASINIT	9C	2
DASCSTRT	9C	20	DASIOOK	7	48
DASCTGA	7A		DASJBNUM	6C	0
DASDONE	A4	0	DASJOBNO_R4	90	0
DASDRAIN	7	80	DASJOBWT	9C	1
DASDUPER	D4	8	DASLOTRK	30	0
DASERCDE	B1	0	DASMAPO	94	0
DASERLEN	B1	20	DASMASK	8	0
DASERROR	AD	0	DASMNTER	D4	4
DASEXLEN	D4	2	DASMTCSZ	36	1

Name	Hex Offset	Hex Value
DASNOBYM	92	0
DASNORTK	2E	0
DASNOTGE	2C	0
DASNOTGP	34	0
DASNRPS	76	E
DASPMTER	D4	10
DASRPS	7C	0
DASRPSF	7	1
DASRPSO	3A	0
DASSELEC	7	8
DASSIZ	D4	D4
DASSIZC	7C	BC
DASSIZCO	7C	7C
DASSTRK	70	0
DASSYAFF	76	
DASTART	7	20
DASTGSIZ	98	0
DASTKCYL	28	0
DASTRAKQ	88	0
DASTRK	30	
DASTYPE	38	0
DASUPTRK	32	0
DASVOLID	0	40404040
DASVRSN	D4	7
DASWORKQ	8C	0
DAS3CNCL	9D	20
DAS3ITGM	9D	80
DAS3SYSA	9D	40
DAS4ECKD	39	8
DAS4MFMT	39	40
DAS4PFMT	39	10
DAS4RDTD	39	4
DAS4RELT	39	1
DAS4SFMT	39	20
DAS4SIG	39	80
DAS4WTRD	39	2

$DCT Programming Interface information

Programming Interface information

$DCT

The following fields are **NOT** programming interface information:

- DCTACB
- DCTDCB
- DCTUCB

End of Programming Interface information

$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: Subpool 2 for JES2 private storage DCTs (most DCTs); Subpool 241 for CSA storage DCTs (internal reader DCTs only).
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M). Storage for internal reader DCTs is in common storage (CSA). All other DCTs are 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:
- 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
- the CCTIRDRS and CCTDCTMD fields of the $HCCT data area
- 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

The following fields are used to chain DCTs on the $#POST work queues:
- $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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DCT	DEVICE CONTROL TABLE DSECT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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
					End of Comment
0	(0)	CHARACTER	4	DCTID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	4	DCTPCE	ADDRESS OF PROCESSOR CNTRL ELEM.
8	(8)	SIGNED	4	DCTFLGFW (0)	FOLLOWING FOUR FLAG BYTES MUST BE KEPT CONTIGUOUS FOR COMPARE AND SWAP PROCESSING
8	(8)	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
9	(9)	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
10	(A)	BITSTRING	1	DCTFLAG2	MORE DCT FLAGS
		1...		DCTRACE	"B'10000000'" Device eligible for I/O tracing
		.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
11	(B)	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.		DCTFDFLT	"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
12	(C)	ADDRESS	4	MDCTSDCT (0)	ADDR OF NXT SUSPND RMT DCT (SNA)
12	(C)	ADDRESS	4	DCTBUFAD	ADDRESS OF CURRENT BUFFER
16	(10)	ADDRESS	4	DCTDCB (0)	ADDRESS OF DATA CONTROL BLOCK
16	(10)	ADDRESS	4	DCTSEEK (0)	SEEK ADDRESS FOR $EXCP
16	(10)	ADDRESS	4	DCTACB	ADDRESS OF ACB
20	(14)	ADDRESS	4	DCTEWF	PCE WITH EWF TO POST OR EXIT ADDR
24	(18)	SIGNED	2	DCTBUFCN	Count of active buffers
24	(18)	X'14'	0	DCTBUFLM	"20" Max buffers for some DCT types (NOT enforced for all types)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
26	(1A)	BITSTRING	1	DCTDEVTP	DEVICE TYPE

Comment

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

End of Comment

		.... ..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
26	(1A)	X'2'	0	DCTLNE	"DCTRJE" REMOTE JOB ENTRY LINE
26	(1A)	X'E'	0	DCTMLNE	"DCTINT+DCTRJE+DCTNET" MAS JOB ENTRY LINE
26	(1A)	X'6'	0	DCTLOG	"DCTINT+DCTRJE" APPLICATION LOGON DCT
		...1		DCTRDR	"X'10'" LOCAL CARD READER
26	(1A)	X'12'	0	DCTRJR	"DCTRJE+DCTRDR" REMOTE CARD READER
26	(1A)	X'14'	0	DCTINR	"DCTINT+DCTRDR" INTERNAL READER
26	(1A)	X'50'	0	DCTRJI	"DCTDVTPX+DCTRDR" REQUEST-FOR-JOBID DCT
		..1.		DCTPRT	"X'20'" LOCAL PRINTER
26	(1A)	X'22'	0	DCTRPR	"DCTRJE+DCTPRT" REMOTE PRINTER
		..11		DCTPUN	"X'30'" LOCAL PUNCH
26	(1A)	X'32'	0	DCTRPU	"DCTRJE+DCTPUN" REMOTE PUNCH
26	(1A)	X'20'	0	DCTPRPU	"DCTPRT" PRINTER OR PUNCH
26	(1A)	X'30'	0	DCTRPP	"DCTRDR+DCTPRPU" READER, PRINTER, OR PUNCH
26	(1A)	X'42'	0	DCTRCON	"DCTRJE+DCTDVTPX" REMOTE CONSOLE
26	(1A)	X'18'	0	DCTNJR	"DCTNET+DCTRDR" NETWORK JOB RECEIVER
26	(1A)	X'38'	0	DCTNJT	"DCTNJR+DCTPRPU" NETWORK JOB TRANSMITTER
26	(1A)	X'8'	0	DCTNSR	"DCTNET" NETWORK SYSOUT RECEIVER
26	(1A)	X'28'	0	DCTNST	"DCTNSR+DCTPRPU" NETWORK SYSOUT TRANSMITTER
26	(1A)	X'58'	0	DCTNRR	"DCTNJR+DCTDVTPX" NETWORK ROUTE RECEIVER
26	(1A)	X'78'	0	DCTNRT	"DCTNJT+DCTDVTPX" NETWORK ROUTE TRANSMITTER
26	(1A)	X'90'	0	DCTXJR	"DCTSPOF+DCTRDR" SPOOL OFFLOAD JOB RECEIVER
26	(1A)	X'B0'	0	DCTXJT	"DCTXJR+DCTPRPU" SPOOL OFFLOAD JOB TRANSMITTER
26	(1A)	X'80'	0	DCTXSR	"DCTSPOF" SPOOL OFFLOAD SYSOUT RECEIVER
26	(1A)	X'A0'	0	DCTXST	"DCTXSR+DCTPRPU" SPOOL OFFLOAD SYSOUT XMITTER
26	(1A)	X'84'	0	DCTOFF	"DCTSPOF+DCTINT" SPOOL OFFLOAD MEDIA DEVICE

Comment

End of DEVICE TYPE definition

End of Comment

27	(1B)	BITSTRING	1	DCTFLAG3	Flags
		1...		DCT3JWS	"B'10000000'" Dev uses JOB work sel

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		DCT3SWS	"B'01000000'" Dev uses SYSOUT work sel
27	(1B)	X'18'	0	DCTDALEN	"*-DCTPCE" LENGTH OF DA DCT FOR $EXCP
28	(1C)	BITSTRING	1	DCTSTAT2	SECOND STATUS FLAG BYTE
29	(1D)	BITSTRING	7		Reserved for future use
36	(24)	ADDRESS	4	DCTCHAIN	ADDRESS OF NEXT DCT
40	(28)	CHARACTER	8	DCTDEVN	EBCDIC DEVICE NAME
48	(30)	ADDRESS	4	DCTUCB	UCB ADDRESS
52	(34)	ADDRESS	4	DCTTOKA	SECURITY TOKEN ADDRESS - IF 0, JES TOKEN IS ASSOCIATED WITH DEVICE; ELSE, IS ADDRESS OF TOKEN
56	(38)	BITSTRING	1	DCTLRECL	DEVICE DEFAULT LRECL

Comment

Start of DEVICE ID definition

End of Comment

57	(39)	BITSTRING	3	DCTDEVID	DEVICE IDENTITY

Comment

DCTDEVID (first byte only)

Use CLI, not TM, to test DCTINRID since the equate value is 0.

End of Comment

		....		DCTINRID	"B'00000000'" Internal reader

Comment

For the following devices, the low 4 bits may be used as a device number 'x':
- local device - always 0
- remote device - RMTn.RDx, RMTn.PRx, RMTn.PUx
- network device - Ln.JRx, Ln.JTx, Ln.STx, Ln.SRx
- route device - always hex '8' (DCTRTEID)
- spof device - always hex 'F' (DCTXFRID)

Use CLI to test for a local device.
E.G. CLI DCTDEVID,DCTRDRID Local reader?
Use TM to test for an RJE or an NJE
E.G. TM DCTDEVID,DCTRMTID+DCTNJTID
BM Is RJE or NJE
BO Is Line or Logon
BZ Is Local

End of Comment

		...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...		DCTRMTID	"B'10000000'" Remote device
		11..		DCTLGNID	"B'11000000'" Logon
		11.1		DCTLNEID	"B'11010000'" Line

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
					---------- DCTXFRID is valid only when combined with one of the transmitter/receiver bit equates. ----------
				End of Comment	
		 1111		DCTXFRID	"B'00001111'" Spool transfer device
				Comment	
					---------- DCTRTEID is valid only when combined with the job receiver or job transmitter equate. ----------
				End of Comment	
		.... 1...		DCTRTEID	"B'00001000'" Route device
				Comment	
					---------- The following equates indicate pseudo devices. There can be up to 15 of these ('0001'b-'1111'b). CLI must be used to test for these devices. ----------
				End of Comment	
		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
				Comment	
					EQU B'00000110' Unused EQU B'00000111' Unused EQU B'00001000' Unused EQU B'00001001' Unused EQU B'00001010' Unused EQU B'00001011' Unused EQU B'00001100' Unused
				End of Comment	
		.... 11.1		DCTSAPID	"B'00001101'" Sysout API
		.... 111.		DCTOUTID	"B'00001110'" TSO Output command device
		 1111		DCTXWTID	"B'00001111'" External writer device

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					---------- 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. ----------
					End of Comment
57	(39)	X'3A'	0	DCTNUM	"DCTDEVID+1,2,C'H'" DEVICE NUMBER
57	(39)	X'1'	0	DCTTODNE	"1" $TO has processed the JOE
57	(39)	X'2'	0	DCTRDONE	"2" $R or $GR has processed the JOE
					Comment
					End of DEVICE ID definition
					End of Comment
60	(3C)	SIGNED	4	DCTUSER0	RESERVED FOR USER
64	(40)	SIGNED	4	DCTUSER1	RESERVED FOR USER
68	(44)	CHARACTER	8	DCTFSSNM (0)	FSS NAME (HASPINIT ONLY)
68	(44)	ADDRESS	4	DCTFSSCH (0)	NEXT FSS DCT (INIT ONLY)
68	(44)	SIGNED	2	DCTFSSNW (0)	FSS ID TO CHANGE TO FOR NEW FSS (POST-INIT FSS-MODE DCT ONLY)
68	(44)	SIGNED	4	DCTWKBUF	ADDR OF PRINTER WORK BUFFER (POST-INIT JES-MODE DCT)
72	(48)	SIGNED	4	DCTFSID (0)	FSID OF DEVICE FSA, FSS MODE
72	(48)	SIGNED	2	DCTFSSID	FSS PORTION OF FSID
74	(4A)	SIGNED	2	DCTFSAID	FSA PORTION OF FSID
					Comment
					DCT FOUNDATION EXTENSION ORG POINT - REQUIRED.
					End of Comment
80	(50)	DBL WORD	8	DCTFEORG (0)	DCT FOUNDATION EXT ORIGIN
					Comment
					LOCAL DEVICE FOUNDATION EXTENSION
					End of Comment
80	(50)	ADDRESS	4		RESERVED
84	(54)	ADDRESS	4		RESERVED
88	(58)	ADDRESS	4		RESERVED
92	(5C)	ADDRESS	4		RESERVED
96	(60)	ADDRESS	4		RESERVED
100	(64)	CHARACTER	4	DCTUNIT	UNIT FOR LOCAL DEVICES, LINES
104	(68)	BITSTRING	8		Reserved
					Comment
					DEVICE EXTENSION ORG POINT - OPTIONAL.
					End of Comment
112	(70)	DBL WORD	8	DCTEXORG (0)	DCT DEVICE EXTENSION ORIGIN

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					SNA LOGON DCT FOUNDATION EXTENSION
					End of Comment
80	(50)	ADDRESS	4		MDCTADCT ADDR NEXT ACTIVE LOGON DCT
84	(54)	ADDRESS	4	MDCTICE	ADDR OF FIRST LOGGED ON ICE
88	(58)	ADDRESS	4		MDCTDCT RESERVED FOR SNA LOGON DCTS
92	(5C)	BITSTRING	1	MDCTXERR	VTAM EXIT ROUTINE ERROR CODE
93	(5D)	BITSTRING	1	MDCTATYP	APPLICATION TYPE
94	(5E)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
95	(5F)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
96	(60)	ADDRESS	2		RESERVED
98	(62)	BITSTRING	1	MDCTSUSP	DCT SUSPEND FLAG
99	(63)	ADDRESS	1	MDCTPWDL	APPLICATION PASSWORD LENGTH
100	(64)	CHARACTER	4		RESERVED
104	(68)	BITSTRING	8		Not used
					Comment
					BSC LINE DCT FOUNDATION EXTENSION
					End of Comment
80	(50)	ADDRESS	4	MDCTADCT	ADDR OF NEXT ACTIVE LINE DCT
84	(54)	BITSTRING	1	MDCTRSEQ	RECEIVE SEQUENCE COUNT
85	(55)	BITSTRING	1	MDCTTSEQ	TRANSMIT SEQUENCE COUNT
86	(56)	BITSTRING	1	MDCTMODE	ADAPTER MODE SET VALUE
87	(57)	ADDRESS	1	MDCTERCT	LINE ERROR COUNT
88	(58)	ADDRESS	4	MDCTDCT	ADDR OF FIRST REMOTE DCT
92	(5C)	BITSTRING	1	MDCTLINE	LINE CHARACTERISTICS
93	(5D)	BITSTRING	1	MDCTTYPE	TERMINAL TYPE
94	(5E)	BITSTRING	1	MDCTATTN	LINE ACTION FLAGS
95	(5F)	BITSTRING	1	MDCTSTAT	LINE STATUS FLAGS
96	(60)	SIGNED	2	MDCTBFSZ	MULTI-LEAVING BUFFER SIZE - 5
98	(62)	BITSTRING	2	MDCTFCS	LAST RECEIVED FCS
100	(64)	CHARACTER	4		MDCTUNIT UNIT FOR LOCAL DEVICES, LINES
104	(68)	BITSTRING	8		Not used
					Comment
					SNA LINE DCT FOUNDATION EXTENSION
					End of Comment
80	(50)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
84	(54)	ADDRESS	4		MDCTICE ADDR OF FIRST ALLOCATED ICE
88	(58)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
92	(5C)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
93	(5D)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
94	(5E)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
95	(5F)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
96	(60)	ADDRESS	4	MDCTWICE	ADDR OF ICE IN WAIT-TIME DELAY
100	(64)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('SNA ')
104	(68)	BITSTRING	8		Not used
					Comment
					BSC REMOTE DCT FOUNDATION EXTENSION
					End of Comment
80	(50)	BITSTRING	1	MDCTRECL	REMOTE DEVICE MAX RECORD LENGTH
81	(51)	BITSTRING	1	MDCTRCB	REMOTE DEVICE RECORD CNTRL BYTE
82	(52)	BITSTRING	1	MDCTFMT	TERMINAL DATA FORMAT
83	(53)	BITSTRING	1	MDCTFEAT	TERMINAL FEATURES

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	ADDRESS	4		RESERVED
88	(58)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
92	(5C)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
93	(5D)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
94	(5E)	BITSTRING	1		RESERVED
95	(5F)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
96	(60)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BFR SIZE - 5
98	(62)	BITSTRING	2		MDCTFCS REMOTE FUNCTION CTRL SEQ
100	(64)	CHARACTER	4		DCTUNIT RESERVED
104	(68)	BITSTRING	8		Not used
104	(68)	X'70'	0	MDCTRFXE	"*"

Comment

SNA REMOTE DCT FOUNDATION EXTENSION

End of Comment

80	(50)	BITSTRING	1		MDCTRECL REMOTE DEV MAX RECORD LEN
81	(51)	BITSTRING	1	MDCTSEL	REMOTE DEVICE DATASTREAM SELECT
82	(52)	BITSTRING	1		MDCTFMT TERMINAL DATA FORMAT
83	(53)	BITSTRING	1		MDCTFEAT TERMINAL FEATURES
84	(54)	ADDRESS	4		MDCTICE ADDR OF ASSOCIATED ICE
88	(58)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
92	(5C)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
93	(5D)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
94	(5E)	BITSTRING	1	MDCTFLG1	REMOTE FLAG BYTE
95	(5F)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
96	(60)	ADDRESS	2		MDCTBFSZ MAXIMUM RU SIZE
98	(62)	BITSTRING	1		RESERVED
99	(63)	ADDRESS	1	MDCTCHLM	OUTSTANDING CHAIN LIMIT
100	(64)	CHARACTER	4		RESERVED
104	(68)	BITSTRING	8		Not used

Comment

INTERNAL READER FOUNDATION EXTENSION

End of Comment

80	(50)	BITSTRING	12	RIDXMPL (0)	Cross memory POST parm list
80	(50)	ADDRESS	4	RIDERRET	Addr of XMPOST error exit
84	(54)	ADDRESS	4	RIDECBP	ADDRESS OF INTERNAL READER ECB
88	(58)	ADDRESS	4	RIDASCBP	ADDRESS OF ASCB
92	(5C)	BITSTRING	8	RIDASCBT	Address space token
100	(64)	SIGNED	4	RIDECB	Internal reader ECB
104	(68)	ADDRESS	4	RIDHCCT	ADDRESS OF HCCT
108	(6C)	SIGNED	2	RIDLRECL	LRECL of intrdr dataset
110	(6E)	BITSTRING	1	RIDRECFM	RECFM of intrdr dataset, bits defined in DCB under DCBRECFM
111	(6F)	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..		RID1UDCB	"B'01000000'" Internal 'switch' used to determine method for setting lrecl for SYSIN data sets. If on, prop- agate DCB attributes associated with internal reader to SYSIN data sets. If off, set LRECL to logical record length of record immediately preced- ing the SYSIN data.

Comment

SPOOL OFFLOAD (XFR) DCT FOUNDATION EXTENSION

End of Comment

80	(50)	BITSTRING	1	XDCTSTAT	STATUS FLAG BYTE
81	(51)	BITSTRING	1	XDCTRCB	STREAM IDENTIFIER

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
82	(52)	BITSTRING	2		RESERVED FOR FUTURE USE
84	(54)	ADDRESS	4	XDCTDCT	PTR TO CHAIN OF RECV/TRANS DCTS
88	(58)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
100	(64)	CHARACTER	4		RESERVED
104	(68)	BITSTRING	8		Not used

Comment

Line transmitter/receiver DCT extension

End of Comment

80	(50)	ADDRESS	1		MDCTRECL DEVICE MAX RECORD LENGTH
81	(51)	ADDRESS	1		MDCTRCB DEVICE RECORD CNTRL BYTE
82	(52)	ADDRESS	2		RESERVED
84	(54)	ADDRESS	4		RESERVED
88	(58)	ADDRESS	4		MDCTDCT Address of next xmitter/ receiver
92	(5C)	ADDRESS	4		RESERVED
96	(60)	ADDRESS	2		RESERVED
98	(62)	ADDRESS	2		MDCTFCS LAST RECEIVED FCS
100	(64)	ADDRESS	4		RESERVED
104	(68)	BITSTRING	8		Not used
104	(68)	X'70'	0	DCTSREND	"*"

Comment

READER DCT EXTENSION

End of Comment

112	(70)	SIGNED	2	DCTXEQND	DEFAULT EXECUTION NODE
114	(72)	BITSTRING	1	DCTRDFL1	Reader flags
		1...		DCTR1IND	"B'10000000'" Independent mode
115	(73)	BITSTRING	1		Reserved for future use
116	(74)	SIGNED	4	DCTRDRT (0)	READER ROUTE CODE
116	(74)	SIGNED	2	DCTRDNOD	NODE NUMBER
118	(76)	SIGNED	2	DCTRDRTE	REMOTE NUMBER
120	(78)	SIGNED	4	DCTPRINT (0)	DEFAULT PRINT ROUTE CODE
120	(78)	SIGNED	2	DCTPRNOD	NODE NUMBER
122	(7A)	SIGNED	2	DCTPRRTE	LOCAL PRINTER/REMOTE NUMBER
124	(7C)	CHARACTER	8	DCTPRSER	PRINT USERID
132	(84)	SIGNED	4	DCTPUNCH (0)	DEFAULT PUNCH ROUTE CODE
132	(84)	SIGNED	2	DCTPUNOD	NODE NUMBER
134	(86)	SIGNED	2	DCTPURTE	LOCAL PUNCH/REMOTE NUMBER
136	(88)	CHARACTER	8	DCTPUSER	PUNCH USERID
144	(90)	BITSTRING	4	DCTSIAFF	Default system affinity
148	(94)	BITSTRING	1	DCTRAUTH	READER COMMAND AUTHORITY
149	(95)	CHARACTER	1	DCTJCLAS	DEFAULT JOB CLASS
150	(96)	CHARACTER	1	DCTMCLAS	DEFAULT MSGCLASS
151	(97)	BITSTRING	1	DCTPRINC	PRIORITY INCREMENT
152	(98)	BITSTRING	1	DCTPRLIM	PRIORITY LIMIT
152	(98)	X'99'	0	DCTIRORG	"*" END OF COMMON READER DCT FIELDS
156	(9C)	SIGNED	4	DCTRDEND (0)	END OF READER DCT
156	(9C)	X'9C'	0	DCTJREND	"*" END OF JOB RECEIVER DCT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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.
					End of Comment
112	(70)	BITSTRING	1	DCTWORK	JOB RECEIVER WORK AREA
					Comment
					CTWSP--$WSP PREFIX=DCT,DSECT=NO Generate $#GET parms
					End of Comment
160	(A0)	DBL WORD	8	DCTWSP (0)	HASP WSP
160	(A0)	SIGNED	4	DCTCWS (0)	Start of common work select
160	(A0)	CHARACTER	4	DCTID2	
160	(A0)	X'6'	0	DCTVOLEN	"6" Length of volume
160	(A0)	X'4'	0	DCTVOLMX	"4" Maximum number of volumes
164	(A4)	SIGNED	1	DCTNMVOL	Number of volumes
165	(A5)	BITSTRING	3		Reserved for future use
					Comment
					Note that the xxxVOL field must always precede the xxxWS field and that the xxxWSPRI must always be the first byte of xxxWS
					End of Comment
168	(A8)	BITSTRING	0	DCTVOL (0)	Device select volume list
168	(A8)	X'4'	0	DCTWSENT	"4" Length of ws entry
168	(A8)	X'8'	0	DCTWSPRL	"8" Offset of first ws entry
					Comment
					---------- 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 OS/390 Release 5 with APAR OW35104, the largest table is that of the Sysout API which has 20 entries. ----------
					End of Comment
168	(A8)	X'16'	0	DCTMAXWS	"19+1+2" Number of criteria that will fit in xxxWSREQ
192	(C0)	SIGNED	4	(0)	
192	(C0)	CHARACTER	1	DCTWSBEG (0)	Beginning of WS list
192	(C0)	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
		...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 specifed
193	(C1)	BITSTRING	1	DCTWSPR2	2nd WS priority flag

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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.		DCTSLLIM	"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
194	(C2)	BITSTRING	1	DCTQPOS	Position of Q in WS-list
195	(C3)	BITSTRING	1	DCTLPOS	Position of LIM in WS-list
196	(C4)	BITSTRING	1	DCTRPOS	Position of RC in WS-list
197	(C5)	BITSTRING	1	DCTPPOS	Position of P in WS-list
198	(C6)	SIGNED	2	DCTONODE	Job's origin node number

Comment

note that a value of X'FF' for xxxQPOS, xxxLPOS, xxxRPOS, xxxPPOS indicates that position has not been calculated

End of Comment

		1111 1111		DCTPOSNL	"X'FF'" Position has not been set
200	(C8)	BITSTRING	1	DCTWSREQ	Work selection via ws parm
200	(C8)	X'C0'	0	DCTWS	"DCTWSBEG,*-DCTWSBEG,C'X'" Max length ws list
288	(120)	ADDRESS	4	DCTWSTB	Addr of related ws table pair
288	(120)	X'4'	0	DCTRCMAX	"4" Define maximum route codes
288	(120)	X'0'	0	DCTNODE	"0,2,C'H'" Offset/len of node in rc
288	(120)	X'2'	0	DCTROUTE	"2,2,C'H'" Offset/length of remote in rc
288	(120)	X'4'	0	DCTUSEID	"4,8,C'D'" Offset/len of userid in rc
288	(120)	X'C'	0	DCTRCLEN	"L'DCTNODE+L'DCTROUTE+L'DCTUSEID" Len of rc
288	(120)	X'4'	0	DCTNRLEN	"L'DCTNODE+L'DCTROUTE" Len of node and route
292	(124)	CHARACTER	0	DCTRC (0)	Space for route codes
340	(154)	ADDRESS	2	(0)	xxxNRC must follow xxxRC
340	(154)	CHARACTER	8	DCTJOBNM	Job name for device work select
348	(15C)	CHARACTER	8	DCTCURJB	Job name of element last selected
356	(164)	CHARACTER	8	DCTCRUID	Value for creator= keyword
364	(16C)	ADDRESS	1	DCTNRC	Number of route codes
365	(16D)	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)
366	(16E)	BITSTRING	2		Reserved for future use
368	(170)	SIGNED	4	DCTJNUML	Device select low job number
372	(174)	SIGNED	4	DCTJNUMH	Device select high job number
376	(178)	ADDRESS	4	(2)	Reserved for future use
384	(180)	CHARACTER	37	DCTCLASS	Class list, terminated by blank
421	(1A5)	BITSTRING	1		Reserved for future use
422	(1A6)	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
		...1 111.		DCTWSANY	"B'00011110'" Select any range
423	(1A7)	BITSTRING	1		Reserved for future use
424	(1A8)	SIGNED	4	DCTWRNUM	Writer ID number for JOE/Writer exclude list
428	(1AC)	BITSTRING	8	DCTWRASI	Writer ID address space level used for JOE/Writer exclude list
436	(1B4)	CHARACTER	8	DCTDEVN2	Device name of form: For non-SAPI DCTDEVN For SAPI jobname.sss2appl
436	(1B4)	X'1B4'	0	DCTDEVNC	"DCTDEVN2,*-DCTDEVN2,C'C'" Complete device name
453	(1C5)	BITSTRING	1	DCTDEVT2	Device type (copy of DCTDEVTP)
454	(1C6)	BITSTRING	3	DCTDEVI2	Device identity (copy of DCTDEVID)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
457	(1C9)	BITSTRING	3		Reserved for future use
460	(1CC)	SIGNED	4	DCTLIMLO	Device lower limit (records)
464	(1D0)	SIGNED	4	DCTLIMHI	Device upper limit (records)
468	(1D4)	SIGNED	4	(0)	Force alignment
468	(1D4)	X'134'	0	DCTCWSLN	"*-DCTCWS" Length of common criteria fields

Comment

Job work selection criteria fields

End of Comment

160	(A0)	SIGNED	4	DCTJWS (0)	Start of job work selection
160	(A0)	BITSTRING	308		Fields common with sysout select
468	(1D4)	BITSTRING	4	DCTSAF	Device select affinity list
472	(1D8)	ADDRESS	4	DCTSAFPT	System affinity list pointer
476	(1DC)	CHARACTER	8	DCTSRVCL	Service class
484	(1E4)	CHARACTER	16	DCTSCHE	Scheduling environment
484	(1E4)	X'154'	0	DCTJWSLN	"*-DCTJWS" Length of job work selection

Comment

Sysout work selection criteria fields

End of Comment

160	(A0)	SIGNED	4	DCTSWS (0)	Start of sysout work selection
160	(A0)	BITSTRING	308		Fields common with sysout select
468	(1D4)	CHARACTER	8	DCTFORMS	Current print/punch forms id
476	(1DC)	CHARACTER	8	DCTWFORM (0)	Forms for work selection
476	(1DC)	X'1DC'	0	DCTWFORC	"DCTWFORM,*-DCTWFORM,C'C'" Forms
540	(21C)	CHARACTER	4	DCTFCB	Printer fcb (carriage tape) id
544	(220)	CHARACTER	4	DCTUCS	Printer ucs id
548	(224)	CHARACTER	4	DCTFLASH	Printer overlay frame
552	(228)	CHARACTER	4	DCTFLSHD	N/I-printer overlay default
556	(22C)	SIGNED	4	DCTPLIML	Device lower limit (pages)
560	(230)	SIGNED	4	DCTPLIMH	Device upper limit (pages)
564	(234)	SIGNED	4	DCTAGE	Age in seconds since JOE creation
568	(238)	CHARACTER	8	DCTWTRID	Ext wtr name for work select
576	(240)	BITSTRING	8	DCTPRMD	Prmode index list
584	(248)	ADDRESS	4	DCTPRTBL	Address of PRMODE table or zero
588	(24C)	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

Comment

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.)

End of Comment

		.... 1...		DCTWSIP	"B'00001000'" Select only IP-format
		.... .1..		DCTWSBTH	"B'00000100'" Select both IP and non-IP
589	(24D)	BITSTRING	1	DCT1STFL	Device select flag byte
589	(24D)	X'8'	0	DCT1SODW	"$ODWRITE" Select OUTDISP=WRITE
589	(24D)	X'4'	0	DCT1SODH	"$ODHOLD" Select OUTDISP=HOLD
589	(24D)	X'2'	0	DCT1SODK	"$ODKEEP" Select OUTDISP=KEEP
589	(24D)	X'1'	0	DCT1SODL	"$ODLEAVE" Select OUTDISP=LEAVE
589	(24D)	X'F'	0	DCT1SODA	"$ODANY" Check all bit settings
590	(24E)	BITSTRING	2		Reserved for future use

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
592	(250)	ADDRESS	4	DCTGTW	Address of $#GET Trace work area
596	(254)	ADDRESS	4	DCTASAPI	Address of SAPID (ALET is in $SAPTOK in HCT)
600	(258)	ADDRESS	4	DCTNACTV	Next active DCT address
604	(25C)	ADDRESS	4	DCTPACTV	Previous active DCT address
608	(260)	BITSTRING	1	DCTWSFG3	WSP status flag
		1...		DCTWS3QD	"B'10000000'" DCT is on an active DCT Q
609	(261)	BITSTRING	3		Reserved for future use

Comment

```
-------------------------------------------------------------
      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 then one JOE in queue for this
                   device
-------------------------------------------------------------
```

End of Comment

612	(264)	ADDRESS	4	DCTPJOE	Next JOE to process
616	(268)	ADDRESS	4	(0)	Align on a full word
616	(268)	X'1C8'	0	DCTSWSLN	"*-DCTSWS" Length of sysout selection
616	(268)	X'1C8'	0	DCTLENG	"*-DCTCWS" Length of WSP

Comment

SNA LOGON DCT EXTENSION

End of Comment

112	(70)	CHARACTER	8		APPLICATION PASSWORD
120	(78)	ADDRESS	2	MDCTSNCT	COUNT OF LOGGED ON TERMINALS
122	(7A)	ADDRESS	1		RESERVED FOR SNA LOGON DCTS
123	(7B)	ADDRESS	1	MDCTAPNL	APPLICATION NAME LENGTH
124	(7C)	CHARACTER	8	MDCTAPPL	APPLICATION NAME
132	(84)	SIGNED	4	MDCTLOGN	COUNT OF LOGONS TO APPL
136	(88)	SIGNED	4	MDCTNICE	LOGON FAILED FOR ICE COUNT
140	(8C)	SIGNED	4	MDCTNLNE	LOGON FAILED FOR LINE COUNT
144	(90)	SIGNED	4	MDCTINVL	LOGON FAILED FOR DATA COUNT
148	(94)	SIGNED	4	MDCTABRT	SESSION ABNORMAL TERM COUNT
152	(98)	SIGNED	4		RESERVED FOR FUTURE USE
160	(A0)	DBL WORD	8	MDCTRAWK (0)	ACTIVE RECEIVE ANY BUFFER WORK
160	(A0)	SIGNED	2	MDCTRALM	ACTIVE RECEIVE ANY BUFFER LIMIT
162	(A2)	SIGNED	2	MDCTRACT	ACTIVE RECEIVE ANY BUFFER COUNT
164	(A4)	ADDRESS	4	MDCTRABF	ACTIVE RECEIVE ANY BUFFER CHAIN
168	(A8)	DBL WORD	8	MDCTRQWK (0)	QUEUED RECEIVE ANY BUFFER WORK
168	(A8)	SIGNED	2	MDCTRQLM	QUEUED RECEIVE ANY BUFFER LIMIT
170	(AA)	SIGNED	2	MDCTRQCT	QUEUED RECEIVE ANY BUFFER COUNT
172	(AC)	ADDRESS	4	MDCTRQBF	QUEUED RECEIVE ANY BUFFER CHAIN
176	(B0)	DBL WORD	8	MDCTEXWK (0)	EXIT ROUTINE WORK AREA
176	(B0)	SIGNED	4	MDCTEXCD (0)	EXIT ROUT. ACTION CODE WORKAREA
176	(B0)	BITSTRING	3		RESERVED
179	(B3)	BITSTRING	1	MDCTXCOD	EXIT ROUTINE REQ ACTION CODE
180	(B4)	ADDRESS	4	MDCTEXIT	ADDR OF NEXT SCHED LOGON DCT
184	(B8)	SIGNED	4	MDCTLGND (0)	END OF SNA LOGON DCT

Comment

BSC LINE DCT EXTENSION

End of Comment

112	(70)	CHARACTER	8	MDCTPSWD	RJE LINE PASSWORD
120	(78)	ADDRESS	4	MDCTOBUF	RJE OUTPUT BUFFER CHAIN

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
124	(7C)	SIGNED	4	MDCTIMOK	TIME OF LAST TRANSMISSION
128	(80)	ADDRESS	4	MDCTRAT	ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
132	(84)	ADDRESS	4	MDCTCODE	ADDRESS OF RJE CODE TABLE
136	(88)	BITSTRING	0	MDCTOTAL (0)	DCT EVENT COUNTERS
136	(88)	SIGNED	4	MDCTXCP	LINE COUNTS - TOTAL EXCPS
140	(8C)	SIGNED	4	MDCTNAK	NAKS TO WRITE TEXT
144	(90)	SIGNED	4	MDCTDCK	DATA CHECKS TO READ TEXT
148	(94)	SIGNED	4	MDCTTO	TIMEOUTS TO READ TEXT
152	(98)	SIGNED	4	MDCTREM	ALL OTHER ERRORS
156	(9C)	BITSTRING	0	MDCTCNTS (0)	DCT SESSION EVENT COUNTERS
156	(9C)	SIGNED	4	MDCTSXCP	SESSION COUNTS - TOTAL EXCPS
160	(A0)	SIGNED	4	MDCTSNAK	NAKS TO WRITE TEXT
164	(A4)	SIGNED	4	MDCTSDCK	DATA CHECKS TO READ TEXT
168	(A8)	SIGNED	4	MDCTSTO	TIMEOUTS TO READ TEXT
172	(AC)	SIGNED	4	MDCTSREM	ALL OTHER ERRORS
176	(B0)	BITSTRING	1	MDCTPMBC	NETWORK PATH MGR BUF COUNT
177	(B1)	BITSTRING	1	MDCTPMFL	NETWORK PATH MGR FLAGS
178	(B2)	SIGNED	2	MDCTDCNT	DEDICATED LINE DCT COUNT
180	(B4)	ADDRESS	4	MDCTACT (0)	ACTIVE HARDWARE RJE DCT
180	(B4)	ADDRESS	4	MDCTNM	NETWORK MULTIPLE TRUNK QUEUE
184	(B8)	ADDRESS	4	MDCTNA	NETWORK ACTIVE QUEUE
188	(BC)	SIGNED	2	MDCTNR	NETWORK HALF LINE RESISTANCE
190	(BE)	SIGNED	2	MDCTNNR	NETWORK NODE TO NODE RESISTANCE
192	(C0)	ADDRESS	4	MDCTNCES	NETWORK CONNECT EVENT SEQUENCE
196	(C4)	BITSTRING	1	MDCTNFL2	NETWORK FLAGS II
197	(C5)	BITSTRING	1	MDCTNFL3	Network flags III
198	(C6)	BITSTRING	1		Reserved for future use
199	(C7)	CHARACTER	1	MDCTLNCC	Last NCC signon record sent
200	(C8)	SIGNED	2	MDCTOPCT	COUNT OF OPEN RJE PROCESSORS
202	(CA)	BITSTRING	1	MDCTNFL	NETWORK FLAGS
203	(CB)	SIGNED	1	MDCTCMCT	CONSOLE MESSAGE COUNT
203	(CB)	X'B4'	0	MDCTNETA	"MDCTNM,*-MDCTNM" NETWORK AREA FOR $NPMWORK
204	(CC)	BITSTRING	8	MDCTNEGR	PENDING NEGATIVE XMTTER RESPONSES
212	(D4)	SIGNED	4	MDCTNO (0)	LINE ROUTE CODE
212	(D4)	ADDRESS	2	MDCTNODE	NODE NUMBER
214	(D6)	ADDRESS	1	MDCTQUAL	QUALIFIER
215	(D7)	ADDRESS	1		RESERVED FOR FUTURE USE
216	(D8)	ADDRESS	4	MDCTNMAP	NETWORK PATH MAN NOTIFY MAP
220	(DC)	ADDRESS	4	MDCTRNTA	REACHABLE NODES TABLE ADDR, ZERO UNLESS LINE IN NJE USE RNT=1 BIT PER NODE
224	(E0)	CHARACTER	8	MDCTNPAS	PASSWORD to send to node (BSC Only)
232	(E8)	SIGNED	4	MDCTMDOM	$HASP500 DOM ID
236	(EC)	SIGNED	4	MDCTIFEA	NJE signon feature flags supported by this line
240	(F0)	ADDRESS	4	MDCTNLDV (0)	Numbers of line subdevices
240	(F0)	ADDRESS	1	MDCTJTNM	LINEnn JTNUM= value
241	(F1)	ADDRESS	1	MDCTJRNM	LINEnn JRNUM= value
242	(F2)	ADDRESS	1	MDCTSTNM	LINEnn STNUM= value
243	(F3)	ADDRESS	1	MDCTSRNM	LINEnn SRNUM= value
244	(F4)	ADDRESS	4	MDCTMRT	MRT address
248	(F8)	ADDRESS	4	MDCTMRRT	MRRT address
252	(FC)	SIGNED	4	MDCTNOTS	RCP CMB Throw-away time
256	(100)	SIGNED	4	MDCTLEND (0)	END OF LINE DCT

Comment

SNA LINE DCT EXTENSION

End of Comment

112	(70)	CHARACTER	8		RJE LINE PASSWORD
120	(78)	ADDRESS	2		ALLOCATED SESSION COUNT
122	(7A)	SIGNED	2		RESERVED
124	(7C)	SIGNED	4		TIME OF LAST TRANSMISSION

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	ADDRESS	4		MDCTRAT ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
132	(84)	ADDRESS	4	MDCTATE	APT address for automatic restart from NPM recovery
136	(88)	SIGNED	4	MDCTVREQ	TOTAL COUNT OF VTAM REQ PROCESSED
140	(8C)	SIGNED	4	MDCTXRSP	TOTAL COUNT OF EXCEPTION RESP
144	(90)	SIGNED	4	MDCTLUST	TOTAL COUNT OF LUSTAT RECEIVED
148	(94)	SIGNED	4	MDCTBIDR	TOTAL COUNT OF BID REJECTED
152	(98)	SIGNED	4	MDCTMPER	TOTAL COUNT OF TEMPORARY ERRORS
156	(9C)	SIGNED	4	MDCTSCNT (5)	REMOTE COUNTS
176	(B0)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
177	(B1)	BITSTRING	1		NETWORK PATH MGR FLAGS
178	(B2)	SIGNED	2		DEDICATED LINE DCT COUNT
180	(B4)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
184	(B8)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
188	(BC)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
190	(BE)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
192	(C0)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
196	(C4)	BITSTRING	1		MDCTNFL2 Network flags II
197	(C5)	BITSTRING	1		MDCTNFL3 Network flags III
198	(C6)	BITSTRING	1		Reserved for future use
199	(C7)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
200	(C8)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
202	(CA)	BITSTRING	1		MDCTNFL NETWORK FLAGS
203	(CB)	SIGNED	1		CONSOLE MESSAGE COUNT
204	(CC)	BITSTRING	8		RESERVED
212	(D4)	ADDRESS	4		LINE ROUTE CODE
216	(D8)	ADDRESS	4		NETWORK PATH MAN NOTIFY MAP
220	(DC)	ADDRESS	4		REACHABLE NODES TABLE ADDR
224	(E0)	CHARACTER	8	MDCTATMP	APPL NAME (SNA ONLY)
232	(E8)	SIGNED	4		$HASP500 DOM ID
236	(EC)	SIGNED	4		NJE signon feature flags supported by this line
240	(F0)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
241	(F1)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
242	(F2)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
243	(F3)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
244	(F4)	ADDRESS	4		MDCTMRT MRT address
248	(F8)	ADDRESS	4		MDCTMRRT MRRT address
252	(FC)	SIGNED	4		MDCTNOTS RCP CMB Throw-away time
256	(100)	SIGNED	4	(0)	SNA LINE DCT END (MDCTLEND)

Comment

MAS LINE DCT EXTENSION

End of Comment

112	(70)	ADDRESS	0	MDCTAFTK (0)	Affinity token for member
112	(70)	CHARACTER	8		Reserved
120	(78)	BITSTRING	1	MDCTMEMB	ID of associated member
121	(79)	BITSTRING	3		Reserved
124	(7C)	SIGNED	4		Time of last transmission
128	(80)	ADDRESS	4		MDCTRAT Address of NIT entry
132	(84)	ADDRESS	4	MDCTNATP	NATP chain for response to member signon propagation
136	(88)	ADDRESS	4	MDCTNPCH	Chain of permanent NATPs
140	(8C)	ADDRESS	4	MDCTNQSE	QSE address
144	(90)	ADDRESS	4	MDCTMDNQ	Member down chain field
148	(94)	SIGNED	4	MDCTMTIM	Time last MAS I/J sent to this member
152	(98)	SIGNED	4	MDCTMDID	$HASP501 DOM id
156	(9C)	SIGNED	4	(5)	Reserved
176	(B0)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
177	(B1)	BITSTRING	1		NETWORK PATH MGR FLAGS
178	(B2)	SIGNED	2		Reserved
180	(B4)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
184	(B8)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
188	(BC)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
190	(BE)	SIGNED	2		MDCTNNR NJE TOTAL RESISTANCE
192	(C0)	ADDRESS	4		MDCTNCES NJE CONNECT EVENT SEQUENCE
196	(C4)	BITSTRING	1		MDCTNFL2 Network flags II
197	(C5)	BITSTRING	1		MDCTNFL3 Network flags III
198	(C6)	BITSTRING	1		Reserved for future use
199	(C7)	CHARACTER	1		MDCTLNCC Reserved
200	(C8)	SIGNED	2		Reserved
202	(CA)	BITSTRING	1		MDCTNFL Network flags
203	(CB)	SIGNED	1		Reserved
204	(CC)	BITSTRING	8		RESERVED
212	(D4)	ADDRESS	4		MDCTNO LINE ROUTE CODE
216	(D8)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
220	(DC)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
224	(E0)	CHARACTER	8		APPL NAME (SNA ONLY)
232	(E8)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
236	(EC)	SIGNED	4		NJE signon feature flags supported by this line
240	(F0)	ADDRESS	1		LINEnn JTNUM= value
241	(F1)	ADDRESS	1		LINEnn JRNUM= value
242	(F2)	ADDRESS	1		LINEnn STNUM= value
243	(F3)	ADDRESS	1		LINEnn SRNUM= value
244	(F4)	ADDRESS	4		MDCTMRT MRT address
248	(F8)	ADDRESS	4		MDCTMRRT MRRT address
252	(FC)	SIGNED	4		MDCTNOTS RCP CMB Throw-away time
256	(100)	SIGNED	4	(0)	MAS LINE DCT END (MDCTLEND)

Comment

INTERNAL READER DCT EXTENSION

End of Comment

153	(99)	BITSTRING	1	RIDFLAGS	INTRDR serialized flag byte (update using OIL/NIL only)
		.1..		RIDCLNUP	"B'01000000'" INTRDR needs cleanup (non-EOM)
		..1.		RIDALLOC	"B'00100000'" THIS INTERNAL READER IS ALLOCATED
		...1		RIDEND	"B'00010000'" Internal reader is closing (processing last buffer)
		.... 1...		RIDSKIP	"B'00001000'" INTERNAL READER SKIPPING FOR JOB
		.... .1..		RIDEOM	"B'00000100'" EOM IN PROGRESS
		.... ..1.		RID1ROUT	"B'00000010'" A default print/punch routing has been passed
		1		RIDPOSTI	"B'00000001'" INTENT TO POST INTERNAL RDR
156	(9C)	ADDRESS	4	RIDUBF	ADDRESS OF UNPRTECTD BUFFER (IBF)
160	(A0)	ADDRESS	4	RIDPBF	ADDRESS OF PROTECTED BUFFER (JBF)
164	(A4)	ADDRESS	4	RIDPBFO	OFFSET IN PROTECTED BUFFER
168	(A8)	CHARACTER	8	RIDJOBID	INTERNAL READER JOB ID
176	(B0)	BITSTRING	12	RIDEXMPL (0)	Cross memory POST parm list
176	(B0)	ADDRESS	4	RIDEOMER	Error return for $XMPOST
180	(B4)	ADDRESS	4	RIDEOMP	Address of EOM ECB
184	(B8)	ADDRESS	4	RIDEOMA	Address of ASCB to POST
188	(BC)	ADDRESS	4	RIDEOME	EOM ECB
192	(C0)	CHARACTER	8	RIDJBID	ID OF CURRENT OWNER
200	(C8)	CHARACTER	8	RIDJNAM	NAME OF CURRENT OWNER
208	(D0)	CHARACTER	8	RIDSUSR	'USER' FROM OWNER'S ACEE
216	(D8)	CHARACTER	8	RIDSGRP	'GROUP' FROM OWNER'S ACEE
224	(E0)	SIGNED	4	RIDLOCK	Lock for SVC 111 internal reader services
228	(E4)	ADDRESS	4	RIDSJB	SJB address
232	(E8)	CHARACTER	8	RIDRSV2	RESERVED
240	(F0)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
240	(F0)	BITSTRING	1	RIDXECB	XECB TO POST INTRDR PCE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					POST COMPLETION CODES USED BY HASPAM AND HASPRDR TO DETERMINE THE NATURE OF A GIVEN POST. THESE VALUES ARE PLACED INTO THE LOW ORDER BYTE OF THE ACTUAL ECBS (RIDECB AND RIDXECB) WHEN THEY ARE POSTED (OR QUICK POSTED).
					End of Comment
240	(F0)	X'4'	0	RIDCAVAL	"4" HASPAM WANTS RDR TO GET PAST THE $GETUNIT AND START RDR'ING (USED IN RIDXECB)
240	(F0)	X'8'	0	RIDCDATA	"8" HASPAM WANTS RDR TO KNOW THAT THERE IS MORE DATA IN THE PBUF TO BE READ (USED IN RIDXECB) OR RDR WANTS MORE DATA (USED IN RIDECB)
240	(F0)	X'C'	0	RIDCDONE	"12" RDR IS NOTIFYING AM THAT THE LAST BUFFER HAS BEEN PROCESSED (IN RIDECB)
260	(104)	ADDRESS	4	RIDSAA	ADDRESS OF SAVE AREA
264	(108)	SIGNED	4	RIDALET	ALET OF PBUF DATASPACE
268	(10C)	BITSTRING	1	RIDFLAG2	SERIALIZED FLAG BYTE (UPDATE USING OIL/NIL ONLY)
		1...		RID2ERRD	"B'10000000'" HASPRDR HAS DETECTED AN INTERNAL ERROR.
		.1..		RID2ERAM	"B'01000000'" HASPAM HAS DETECTED AN INTERNAL ERROR.
269	(10D)	BITSTRING	1	RIDFLAGA	UNSERIALIZED flag byte (*SET IN ALLOCATION ONLY*)
		1...		RIDALOCL	"B'10000000'" Force SYSAFF to local
		.1..		RIDAHOLD	"B'01000000'" Force TYPRUN=HOLD
270	(10E)	BITSTRING	1	RIDFLAG3	FLAG BYTE
		1...		RID3BLIM	"B'10000000'" Honor BYTES= values for internal readers
271	(10F)	CHARACTER	1	RIDRSV3	RESERVED FOR FUTURE USE
272	(110)	SIGNED	4	RIDCTEND (0)	END OF INTERNAL READER DCT
272	(110)	X'2000'	0	RIDBUFSZ	"8192" SIZE OF INTERNAL READER BUFFERS
					Comment
					LOCAL/RMT PRINT/PUNCH DCT EXTENSION.
					End of Comment
160	(A0)	BITSTRING	456		SPACE FOR SYSOUT WORK SELECTION
616	(268)	CHARACTER	4	DCTNIFCB	3800 INSTALLATN DEFAULT FCB
620	(26C)	CHARACTER	4	DCTDDFCB	DEVICE DEFAULT FCB
624	(270)	BITSTRING	1	DCTINDEX	PRINTER INDEX VALUE
625	(271)	BITSTRING	1	DCTPPFL	PRINT/PUNCH FLAGS
626	(272)	BITSTRING	1	DCTPPSW	PRINT/PUNCH SWITCHES
627	(273)	BITSTRING	1	DCTPPSW2	PRINT/PUNCH SWITCHES
628	(274)	BITSTRING	1	DCTPPSW3	PRINT/PUNCH SWITCHES
629	(275)	BITSTRING	1	DCTPPSW4	PRINT/PUNCH SWITCHES
630	(276)	BITSTRING	1	DCTPPSW5	PRINT/PUNCH Switches
		1...		DCT5C1ON	"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		DCT5FSAT	"B'00000001'" FSA level rolling trace on
631	(277)	BITSTRING	1	DCTPPSW6	PRINT/PUNCH Switches
		1...		DCT6NOTR	"B'10000000'" TRC on OUTPUT card not honored
632	(278)	CHARACTER	4	DCTCHAR1	N/I-PRINTER XLATE TABLE 1
636	(27C)	CHARACTER	4	DCTCHAR2	N/I-PRINTER XLATE TABLE 2
640	(280)	CHARACTER	4	DCTCHAR3	N/I-PRINTER XLATE TABLE 3
644	(284)	CHARACTER	4	DCTCHAR4	N/I-PRINTER XLATE TABLE 4
648	(288)	CHARACTER	4	DCTMODF	N/I-PRINTER MODIFY IDENTIFIER
652	(28C)	ADDRESS	2	DCTLDPID	3800 LOST DATA PAGE ID G38E

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
654	(28E)	BITSTRING	1	DCTDCPTN	DEFAULT COMPACTION TABLE NUMBER
655	(28F)	BITSTRING	1	DCTACPTN	ACTIVE COMPACTION TABLE NUMBER
656	(290)	SIGNED	2	DCTCKPTP	NO. OF LOGICAL PAGES/CKPT
658	(292)	SIGNED	2	DCTCKPTL	NO. OF LINES/LOGICAL PAGE
660	(294)	SIGNED	2	DCTCKPTT	AMT OF TIME BEFORE FORCED CKPT
662	(296)	SIGNED	2	DCTNPRO	TIME BEFORE NON PROCESS RUN OUT
664	(298)	ADDRESS	4	DCTPRTRN	ADDRESS OF DEFAULT TRAN TABLE
668	(29C)	ADDRESS	4	DCTCCWTB	ADDRESS OF DEFAULT CCW TRN TBLE
672	(2A0)	SIGNED	4	DCTCSW	PRINT INTERVENTION REQ AREA
672	(2A0)	X'2A4'	0	DCTPREND	"*" PRINT/PUNCH DCT EXTENSION END

Comment

SPOOL OFFLOAD DEVICE DCT EXTENSION

End of Comment

112	(70)	ADDRESS	4	XDCTDTE	ADDRESS OF SUB-TASK DTE
116	(74)	SIGNED	4	XDCTSEQN	NUM BLOCKS READ FOR LOAD CKPT
120	(78)	SIGNED	2	XDCTXNUM	DEVICE NUMBER
122	(7A)	SIGNED	2	XDCTSUBR	SUB-TASK REQUEST
124	(7C)	SIGNED	2	XDCTSUBC	SUB-TASK REQ COMPLETION CODE
126	(7E)	BITSTRING	1	XDCTUNCT	UNIT COUNT
127	(7F)	BITSTRING	1	XDCTFLG1	FLAG BYTE
128	(80)	BITSTRING	1	XDCTFLG2	FLAG BYTE
129	(81)	BITSTRING	1	XDCTVOLS	OFFLOAD VOLUME COUNT
130	(82)	BITSTRING	1	XDCTLABL	LABEL TYPE (SL,NL,...)
131	(83)	BITSTRING	2	XDCTRTPD	RETENTION PERIOD IN DAYS
133	(85)	CHARACTER	8	XDCTUNIT	DEFAULT UNIT NAME
141	(8D)	BITSTRING	1	XDCTOFSL	Offload archive bits
142	(8E)	BITSTRING	2	XDCTFREE	RESERVED FOR FUTURE USAGE

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

144	(90)	SIGNED	4	XDCTTIME	TIME OFFLOAD DATA SET ALLOCATED
148	(94)	SIGNED	4	XDCTDATE	DATE OFFLOAD DATA SET ALLOCATED

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

152	(98)	SIGNED	4	XDCTTVER	TIME VERIFICATION STAMP
156	(9C)	SIGNED	4	XDCTDVER	DATE VERIFICATION STAMP
160	(A0)	ADDRESS	4	XDCTCMPQ	XFRDCT SUB-TASK COMPLETION Q
164	(A4)	ADDRESS	4	XDCTBUFQ	Q OF BUFFERS WAITING COMPLETION
168	(A8)	ADDRESS	4	XDCTACTV	QUEUE OF ACTIVE XFR DCTS
172	(AC)	BITSTRING	1	XDCTERCT	READ ERROR COUNT
173	(AD)	BITSTRING	1	XDCTOPCT	COUNT OF RECV/TRANS DCTS OPEN
174	(AE)	SIGNED	2	XDCTMAXB	Max buffers allowed to hold
176	(B0)	CHARACTER	44	XDCTDSN	OFFLOAD DATASET NAME
220	(DC)	SIGNED	4	DCTXFEND (0)	END OF OFFLOAD DCT EXTENSION

Comment

JOB TRANSMITTER DCT EXTENSION

End of Comment

160	(A0)	BITSTRING	340		SPACE FOR JOB WORK SELECTION
500	(1F4)	BITSTRING	1	DCTJTDSP	DISPOSITION FLAGS
		1...		DCTJTDPG	"B'10000000'" PURGE JOB AFTER DUMP
		.1..		DCTJTDHD	"B'01000000'" HOLD JOB AFTER DUMP

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		DCTJTDKP	"B'00100000'" KEEP JOB AFTER DUMP
500	(1F4)	X'1F5'	0	DCTOJEND	"*" OFFLOAD JOB XMITTER DCT EXT END
500	(1F4)	X'1F5'	0	DCTJTEND	"*" NETWORK JOB XMITTER

Comment

SYSOUT TRANSMITTER DCT EXTENSION.

End of Comment

160	(A0)	BITSTRING	456		SPACE FOR SYSOUT WORK SELECTION
616	(268)	BITSTRING	1	DCTSTDSP	DISPOSITION FLAG
		1...		DCTSTDPG	"B'10000000'" PURGE DATA SET AFTER DUMP
		.1..		DCTSTDHD	"B'01000000'" HOLD DATA SET AFTER DUMP
		..1.		DCTSTDKP	"B'00100000'" KEEP DATA SET AFTER DUMP
617	(269)	BITSTRING	3		Reserved for future use
617	(269)	X'26C'	0	DCTOSEND	"*" OFFLOAD SYSOUT XMITTER EXT END
617	(269)	X'26C'	0	DCTSTEND	"*" NETWORK SYSOUT XMITTER

Comment

OFFLOAD JOB RECEIVER DCT EXTENSION

End of Comment

160	(A0)	BITSTRING	340		SPACE FOR JOB WORK SELECTION
500	(1F4)	BITSTRING	4	DCTJRSAF	DEVICE MODIFY AFFINITY (EBCDIC)
504	(1F8)	BITSTRING	4	DCTJRMSF	DEVICE MODIFY AFFINITY (FLAGS)
508	(1FC)	BITSTRING	1	DCT1JRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1JHLD	"B'10000000'" HOLD JOB MODIFY FLAG
		.1..		DCT1JHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
509	(1FD)	CHARACTER	1	DCTJRMCL	DEVICE MODIFY JOB CLASS
510	(1FE)	BITSTRING	1		RESERVED FOR FUTURE USE
511	(1FF)	ADDRESS	4	DCTJRMNO	DEVICE MODIFY NODE NUMBER
511	(1FF)	X'201'	0	DCTOJRLN	"*" JOB RECEIVER DCT END

Comment

OFFLOAD SYSOUT RECEIVER DCT EXTENSION

End of Comment

160	(A0)	BITSTRING	456		SPACE FOR SYSOUT WORK SELECTION
616	(268)	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.		DCT1SDSH	"B'00100000'" SET HELD OUTPUT
		...1		DCT1SDNL	"B'00010000'" DSHOLD NOT TO BE MODIFIED
		.... 1...		DCT1SBUR	"B'00001000'" SET BURSTED OUTPUT
		.... .1..		DCT1SBNL	"B'00000100'" BURST NOT TO BE MODIFIED
617	(269)	BITSTRING	1	DCT2SRFL	DEVICE MODIFY FLAG2 BYTE
617	(269)	X'8'	0	DCT2MODW	"$ODWRITE" MODIFY OUTDISP=WRITE
617	(269)	X'4'	0	DCT2MODH	"$ODHOLD" MODIFY OUTDISP=HOLD
617	(269)	X'2'	0	DCT2MODK	"$ODKEEP" MODIFY OUTDISP=KEEP
617	(269)	X'1'	0	DCT2MODL	"$ODLEAVE" MODIFY OUTDISP=LEAVE
617	(269)	X'F'	0	DCT2MODA	"$ODANY" CHECK ALL BIT SETTINGS
618	(26A)	BITSTRING	1	DCT3SRFL	DEVICE SELECT FLAG3 BYTE
618	(26A)	X'8'	0	DCT3SODW	"$ODWRITE" SELECT OUTDISP=WRITE
618	(26A)	X'4'	0	DCT3SODH	"$ODHOLD" SELECT OUTDISP=HOLD
618	(26A)	X'2'	0	DCT3SODK	"$ODKEEP" SELECT OUTDISP=KEEP
618	(26A)	X'1'	0	DCT3SODL	"$ODLEAVE" SELECT OUTDISP=LEAVE
618	(26A)	X'F'	0	DCT3SODA	"$ODANY" CHECK ALL BIT SETTINGS
619	(26B)	CHARACTER	1	DCTSRMCL	DEVICE MODIFY JOB CLASS
620	(26C)	CHARACTER	12	DCTSRMNO	DEVICE MODIFY NODE NUMBER
632	(278)	CHARACTER	4	DCTSRMFC	DEVICE MODIFY FCB ID
636	(27C)	CHARACTER	4	DCTSRMFL	DEVICE MODIFY FLASH
640	(280)	CHARACTER	4	DCTSRMUC	DEVICE MODIFY UCS ID

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
644	(284)	CHARACTER	8	DCTSRMPR	DEVICE MODIFY PRMODE LIST
652	(28C)	CHARACTER	8	DCTSRMFO	DEVICE MODIFY FORMS ID
660	(294)	CHARACTER	1	DCTSRMWI	DEVICE MODIFY WRITER ID
660	(294)	X'29C'	0	DCTOREND	"*" SYSOUT RECEIVER DCT END

Comment

DCTSTAT2

End of Comment

		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

Comment

MDCTATTN

End of Comment

		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
660	(294)	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

Comment

MDCTSTAT

End of Comment

		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
		.... ..1.		DCTABORT	"B'00000010'" TRANSMISSION WAS ABORTED
		1		DCTPBUF	"B'00000001'" REMOTE OUTPUT BUFFER INDICATOR
		1		DCTPSUSP	"B'00000001'" REMOTE DEVICE HAS BEEN SUSPENDED

Comment

XDCTSTAT

End of Comment

		1...		XDCTOPEN	"B'10000000'" $EXTP OPEN ISSUED
		.1..		XDCTERR	"B'01000000'" I/O ERROR INDICATOR

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		EQU B'00100000' DCTFLUSH			
		EQU B'00010000' DCTEOF			
				End of Comment	
		.... 1...		XDCTMSG	"B'00001000'" FORCE DRAINED MESSAGE
		.... .1..		XDCTSKIP	"B'00000100'" RECEIVER SKIPPING BUFFER
				Comment	
		EQU B'00000010' DCTABORT			
		EQU B'00000001' DCTPBUF			
		MDCTLINE			
				End of Comment	
		1...		DCTPTRSP	"B'10000000'" TRANSPARENCY
		.1..		DCTPASCI	"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
				Comment	
		MDCTTYPE			
				End of Comment	
		1...		DCTPSNA	"B'10000000'" SNA LU TYPE TERMINAL
		.1..		DCTPCPU	"B'01000000'" BSC CPU TYPE TERMINAL
		..1.		DCTPHDW	"B'00100000'" BSC HARDWARE TERMINAL
		 1111		DCTPSUBC	"B'00001111'" LOW ORDER 4 BITS (X'0F') FOR DEVICE SUB-CLASSIFICATION
660	(294)	X'81'	0	DCTPLU1	"DCTPSNA+X'01'" SNA LU TYPE 1
660	(294)	X'41'	0	DCTP20S2	"DCTPCPU+X'01'" 360/20 SUBMODEL 2
660	(294)	X'42'	0	DCTP20S5	"DCTPCPU+X'02'" 360/20 SUBMODEL 5
660	(294)	X'43'	0	DCTP20S6	"DCTPCPU+X'03'" 360/20 SUBMODEL 6
660	(294)	X'44'	0	DCTP360	"DCTPCPU+X'04'" SYSTEM/360
660	(294)	X'45'	0	DCTP1130	"DCTPCPU+X'05'" 1130
660	(294)	X'46'	0	DCTPSYS3	"DCTPCPU+X'06'" SYSTEM/3
660	(294)	X'47'	0	DCTPCRS7	"DCTPCPU+X'07'" RESERVED FOR FUTURE USE
660	(294)	X'48'	0	DCTPSY36	"DCTPCPU+X'08'" SYSTEM 36 (BSC MODE)
660	(294)	X'49'	0	DCTP370	"DCTPCPU+X'09'" SYSTEM/370
660	(294)	X'4A'	0	DCTP20S4	"DCTPCPU+X'0A'" 360/20 SUBMODEL 4
660	(294)	X'4B'	0	DCTP2922	"DCTPCPU+X'0B'" 2922
660	(294)	X'21'	0	DCTP2770	"DCTPHDW+X'01'" 2770
660	(294)	X'22'	0	DCTP3781	"DCTPHDW+X'02'" 3781
660	(294)	X'23'	0	DCTP3740	"DCTPHDW+X'03'" 3740
660	(294)	X'24'	0	DCTP3780	"DCTPHDW+X'04'" 3780
660	(294)	X'25'	0	DCTP2780	"DCTPHDW+X'05'" 2780
				Comment	
		MDCTSEL			
				End of Comment	
		1...		DCTPOUTB	"B'10000000'" OUTBOUND DEVICE SELECTION

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				MDCTPMFL	
				End of Comment	
		1...		DCTNPLIM	"B'10000000'" PATH MANAGER BUFFER LIMIT REACHED
				Comment	
				MDCTFMT	
				End of Comment	
		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
				Comment	
				CTPPRES EQU B'00000100' COMPRESSED DATASTREAM ACTIVE	
				End of Comment	
		.... ..1.		DCTPALTC	"B'00000010'" ALTERNATE CODE SELECTED
		1		DCTPCPCT	"B'00000001'" COMPACTED DATASTREAM ACTIVE
		...1		DCTHOLDS	"B'00010000'" NJE TRANSMISSION HOLD STREAM
				Comment	
				MDCTFEAT CTPTRSP EQU B'10000000' TERMINAL TRANSPARENCY	
				End of Comment	
		.... ..1.		DCTPMRF	"B'00000010'" MULTIPLE-RECORD FEATURE
		.1..		DCTPBEXP	"B'01000000'" BUFFER EXPANSION FEATURE
		..1.		DCTPABEX	"B'00100000'" ADDITIONAL BUFFER EXPANSION
		..1.		DCTPNDST	"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
				Comment	
				CTPALTC EQU B'00000010' ALTERNATE CODE SELECTED CTPCPCT EQU B'00000001' COMPACTION FEATURE DCTRAUTH	
				End of Comment	
		.... 1...		DCTREJRM	"B'00001000'" REMOTE RESTRICTION
		.... .1..		DCTREJJB	"B'00000100'" RESTRICTED FROM JOB COMMANDS
		.... ..1.		DCTREJDV	"B'00000010'" RESTRICTED FROM DEVICE COMMANDS
		1		DCTREJSY	"B'00000001'" RESTRICTED FROM SYSTEM COMMANDS
				Comment	
				MDCTNFL	
				End of Comment	
		1...		MDCTNFLL	"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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .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

Comment

MDCTNFL2

End of Comment

		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

Comment

MDCTNFL3

End of Comment

		1...		MDCTNF3M	"B'10000000'" Multi-trunk bit set from MAS validation
		.1..		MDCTNF3J	"B'01000000'" Multi-trunk bit set from 'J' record
		1		MDCTNF3E	"B'00000001'" $EXTP PUT failed for other than buffer shortage while transmitting NMR

Comment

DCTPPFL

End of Comment

		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
		..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

Comment

CTPAUSE EQU B'00000001' OPERATOR SET PAUSE=YES

DCTPPSW

End of Comment

		1...		DCTPPSWC	"B'10000000'" FCB CARRIAGE ALTERED
		..1.		DCTPPSWB	"B'00100000'" FCB NOT STANDARD
		...1		DCTPPSWS	"B'00010000'" SUPRESS 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

Comment

DCTPPSW2

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		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

Comment

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

End of Comment

		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
660	(294)	X'F'	0	DCTS3CPY	"DCTS3CNO+DCTS3CDS+DCTS3CJB+DCTS3CON" COPYMARKS reset

Comment

DCTPPSW4

End of Comment

		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		DCTS4OPI	"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

Comment

XDCTFLG1

End of Comment

		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

Comment

XDCTFLG2

End of Comment

		1...		XDCT2ST	"B'10000000'" OFFLOAD XMIT/RECEIVE CAN BEGIN
		.1..		XDCT2PRO	"B'01000000'" SAF PROTECTION IF DISP=NEW

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..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

Comment

MDCTFLG1 SNA REMOTE DCT FLAG BYTE

End of Comment

		1...		MDCT1OUT	"B'10000000'" OUTPUT EXISTS FOR THIS DEV
		.1..		MDCT1EOT	"B'01000000'" ACKN END-OF-TRANS (ATC) FLG

$DCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCT	0		DCTDOPN	294	80
DCT$TFLS	294	8	DCTDRAIN	8	40
DCT$TNSP	294	2	DCTDVTPX	1A	40
DCTABORT	294	2	DCTEJECT	294	80
DCTACB	10		DCTEOF	294	10
DCTACPTN	28F		DCTERMNR	A	40
DCTADS	294	80	DCTETX	294	20
DCTAGE	234		DCTEWF	14	
DCTALIGN	294	20	DCTEXORG	70	
DCTARMID	39	5	DCTFCB	21C	
DCTASAPI	254		DCTFCKMD	B	40
DCTATTN	8	2	DCTFDFLT	B	20
DCTBFCKP	294	1	DCTFEORG	50	
DCTBKSP	9	8	DCTFLAGS	9	
DCTBUFAD	C		DCTFLAG2	A	
DCTBUFCN	18		DCTFLAG3	1B	
DCTBUFLM	18	14	DCTFLASH	224	
DCTCCWTB	29C		DCTFLGFW	8	
DCTCHAIN	24		DCTFLSHD	228	
DCTCHAR1	278		DCTFLUSH	294	20
DCTCHAR2	27C		DCTFORMS	1D4	
DCTCHAR3	280		DCTFSAID	4A	
DCTCHAR4	284		DCTFSET	B	8
DCTCIP	294	80	DCTFSID	48	
DCTCKJAM	294	10	DCTFSSCH	44	
DCTCKPTL	292		DCTFSSFL	B	
DCTCKPTP	290		DCTFSSID	48	
DCTCKPTT	294		DCTFSSMD	B	1
DCTCLASS	180		DCTFSSNM	44	
DCTCMODF	B	4	DCTFSSNW	44	
DCTCMODJ	B	2	DCTFSYNC	B	10
DCTCOMID	39	3	DCTGTBSM	294	20
DCTCRUID	164		DCTGTDCB	294	40
DCTCSW	2A0		DCTGTW	250	
DCTCURJB	15C		DCTHOLD	8	20
DCTCWS	A0		DCTHOLDJ	9	4
DCTCWSLN	1D4	134	DCTHOLDS	294	10
DCTDALEN	1B	18	DCTID	0	
DCTDCB	10		DCTID2	A0	E6E2D740
DCTDCPTN	28E		DCTINDEX	270	
DCTDDFCB	26C		DCTINDIR	16D	80
DCTDELET	9	40	DCTINR	1A	14
DCTDEVID	39		DCTINRID	39	0
DCTDEVI2	1C6		DCTINT	1A	4
DCTDEVN	28		DCTINUSE	8	80
DCTDEVNC	1B4	1B4	DCTIRORG	98	99
DCTDEVN2	1B4		DCTJCLAS	95	
DCTDEVTP	1A		DCTJNUMH	174	
DCTDEVT2	1C5		DCTJNUML	170	

Name	Hex Offset	Hex Value
DCTJOBNM	154	
DCTJREND	9C	9C
DCTJRMCL	1FD	
DCTJRMNO	1FF	
DCTJRMSF	1F8	
DCTJRSAF	1F4	
DCTJTDHD	1F4	40
DCTJTDKP	1F4	20
DCTJTDPG	1F4	80
DCTJTDSP	1F4	
DCTJTEND	1F4	1F5
DCTJWS	A0	
DCTJWSLN	1E4	154
DCTLDPID	28C	
DCTLEASE	294	80
DCTLENG	268	1C8
DCTLGNID	39	C0
DCTLIMHI	1D0	
DCTLIMLO	1CC	
DCTLNE	1A	2
DCTLNEID	39	D0
DCTLOG	1A	6
DCTLOGAL	9	1
DCTLPOS	C3	
DCTLRECL	38	
DCTMAXWS	A8	16
DCTMCLAS	96	
DCTMLNE	1A	E
DCTMODF	288	
DCTNACTV	258	
DCTNET	1A	8
DCTNEWFS	294	10
DCTNIBRS	24C	40
DCTNIFCB	268	
DCTNIMRK	294	20
DCTNINIT	294	8
DCTNIPRT	294	80
DCTNJR	1A	18
DCTNJRID	39	50
DCTNJT	1A	38
DCTNJTID	39	40
DCTNMVOL	A4	
DCTNODE	120	0
DCTNPLIM	294	80
DCTNPRO	296	
DCTNRC	16C	
DCTNRLEN	120	4
DCTNRR	1A	58
DCTNRT	1A	78
DCTNSR	1A	8
DCTNSRID	39	70
DCTNST	1A	28
DCTNSTID	39	60
DCTNUM	39	3A
DCTODPNV	C1	8
DCTOFF	1A	84
DCTOJEND	1F4	1F5
DCTOJRLN	1FF	201
DCTONODE	C6	
DCTOPEN	A	1
DCTOREND	294	29C
DCTOSEND	269	26C
DCTOUTID	39	E
DCTPABEX	294	20
DCTPACTV	25C	
DCTPALTC	294	2
DCTPASCI	294	40
DCTPATTN	8	4
DCTPAUSE	8	1
DCTPBEXP	294	40
DCTPBLK	294	80
DCTPBUF	294	1
DCTPCCTL	294	10
DCTPCE	4	
DCTPCOMP	294	8
DCTPCPCT	294	1
DCTPCPU	294	40
DCTPCRS7	294	47
DCTPCTC	294	20
DCTPFCB	294	8
DCTPFULL	294	1
DCTPHASP	294	10
DCTPHDW	294	20
DCTPJOE	264	
DCTPLIMH	230	
DCTPLIML	22C	
DCTPLU1	294	81
DCTPMRF	294	2
DCTPNADS	294	4
DCTPNDST	294	20
DCTPOSNL	C6	FF
DCTPOST	294	4
DCTPOUTB	294	80
DCTPPFL	271	
DCTPPOS	C5	
DCTPPRES	294	4
DCTPPSW	272	
DCTPPSWB	294	20
DCTPPSWC	294	80
DCTPPSWI	294	2
DCTPPSWO	294	1
DCTPPSWS	294	10
DCTPPSWT	294	8
DCTPPSWU	294	4
DCTPPSW2	273	
DCTPPSW3	274	
DCTPPSW4	275	
DCTPPSW5	276	
DCTPPSW6	277	
DCTPREND	2A0	2A4
DCTPRGID	39	4
DCTPRINC	97	
DCTPRINT	78	
DCTPRLIM	98	
DCTPRMD	240	
DCTPRNOD	78	
DCTPROG	294	20
DCTPRPU	1A	20
DCTPRRTE	7A	
DCTPRSER	7C	
DCTPRT	1A	20
DCTPRTBL	248	
DCTPRTID	39	20
DCTPRTRN	298	
DCTPSHDR	294	8
DCTPSNA	294	80
DCTPSUBC	294	F
DCTPSUSP	294	1
DCTPSYS3	294	46
DCTPSY36	294	48

Name	Hex Offset	Hex Value
DCTPTAB	294	10
DCTPTRSP	294	80
DCTPUN	1A	30
DCTPUNCH	84	
DCTPUNID	39	30
DCTPUNOD	84	
DCTPURTE	86	
DCTPUSER	88	
DCTPVAR	294	40
DCTPWIDE	294	2
DCTP1130	294	45
DCTP20S2	294	41
DCTP20S4	294	4A
DCTP20S5	294	42
DCTP20S6	294	43
DCTP2770	294	21
DCTP2780	294	25
DCTP2922	294	4B
DCTP360	294	44
DCTP370	294	49
DCTP3740	294	23
DCTP3780	294	24
DCTP3781	294	22
DCTQPOS	C2	
DCTQVAL	C0	80
DCTQWS	C0	20
DCTRACE	A	80
DCTRANS	294	10
DCTRAUTH	94	
DCTRBFF	A	20
DCTRC	124	
DCTRCLEN	120	C
DCTRCMAX	120	4
DCTRCON	1A	42
DCTRDEND	9C	
DCTRDFL1	72	
DCTRDNOD	74	
DCTRDONE	39	2
DCTRDR	1A	10
DCTRDRID	39	10
DCTRDRT	74	
DCTRDRTE	76	
DCTREJDV	294	2
DCTREJJB	294	4
DCTREJRM	294	8
DCTREJSY	294	1
DCTRJE	1A	2
DCTRJI	1A	50
DCTRJR	1A	12
DCTRMFCB	294	4
DCTRMTID	39	80
DCTROUTE	120	2
DCTRPOS	C4	
DCTRPP	1A	30
DCTRPR	1A	22
DCTRPSSE	294	40
DCTRPT	9	10
DCTRPU	1A	32
DCTRRDY	A	10
DCTRSTRT	9	20
DCTRTAM	8	8
DCTRTE	A	1
DCTRTEID	39	8
DCTRTEQ	16D	
DCTRUSBC	294	40

Name	Hex Offset	Hex Value
DCTRVAL	C0	40
DCTRWS	C0	1
DCTR1IND	72	80
DCTR190	294	4
DCTSAF	1D4	
DCTSAFPT	1D8	
DCTSAPID	39	D
DCTSCHE	1E4	
DCTSDSSW	294	2
DCTSEEK	10	
DCTSEPNL	294	4
DCTSFSID	39	1
DCTSHARE	294	40
DCTSHMSG	294	4
DCTSIAFF	90	
DCTSINON	294	8
DCTSLASH	C0	10
DCTSLLIM	C1	20
DCTSNHLT	294	40
DCTSNHOR	294	20
DCTSOFF	294	10
DCTSOFF2	9	10
DCTSPACE	9	3
DCTSPNID	39	2
DCTSPOF	1A	80
DCTSP1	9	1
DCTSP2	9	2
DCTSREND	68	70
DCTSRMCL	26B	
DCTSRMFC	278	
DCTSRMFL	27C	
DCTSRMFO	28C	
DCTSRMNO	26C	
DCTSRMPR	284	
DCTSRMUC	280	
DCTSRMWI	294	
DCTSRVCL	1DC	
DCTSTART	B	80
DCTSTAT	8	
DCTSTAT2	1C	
DCTSTDHD	268	40
DCTSTDKP	268	20
DCTSTDPG	268	80
DCTSTDSP	268	
DCTSTEND	269	26C
DCTSTFSS	294	40
DCTSTOP	9	80
DCTSTRT	8	4
DCTSUSPD	294	2
DCTSWS	A0	
DCTSWSLN	268	1C8
DCTS3CDS	294	4
DCTS3CJB	294	2
DCTS3CNO	294	8
DCTS3CON	294	1
DCTS3CPY	294	F
DCTS3TFC	294	40
DCTS4AIS	294	4
DCTS4NPS	294	80
DCTS4OPI	294	10
DCTS4TUN	294	8
DCTTCEL	294	8
DCTTODNE	39	1
DCTTOKA	34	
DCTUCB	30	

Name	Hex Offset	Hex Value
DCTUCS	220	
DCTUCSBL	294	20
DCTUNAL	8	10
DCTUNIT	64	
DCTUSEID	120	4
DCTUSER0	3C	
DCTUSER1	40	
DCTVOL	A8	
DCTVOLEN	A0	6
DCTVOLFL	C0	8
DCTVOLMX	A0	4
DCTWFORC	1DC	1DC
DCTWFORM	1DC	
DCTWKBUF	44	
DCTWORK	70	
DCTWRASI	1AC	
DCTWRNUM	1A8	
DCTWS	C8	C0
DCTWSANY	1A6	1E
DCTWSBEG	C0	
DCTWSBNS	24C	10
DCTWSBTH	24C	4
DCTWSCTK	C1	10
DCTWSDAN	24C	20
DCTWSDSH	24C	80
DCTWSENT	A8	4
DCTWSFAP	1A6	2
DCTWSFG1	1A6	
DCTWSFG2	24C	
DCTWSFG3	260	
DCTWSFJR	1A6	10
DCTWSFST	1A6	8
DCTWSFTS	1A6	4
DCTWSHLD	1A6	80
DCTWSHNS	1A6	40
DCTWSIP	24C	8
DCTWSLIM	C1	40
DCTWSLOC	16D	80
DCTWSNET	16D	20
DCTWSNOT	1A6	20
DCTWSODP	C1	80
DCTWSP	A0	
DCTWSPRI	C0	
DCTWSPRL	A8	8
DCTWSPR2	C1	
DCTWSREQ	C8	
DCTWSRGS	C0	2
DCTWSRMT	16D	40
DCTWSRNG	C0	4
DCTWSTB	120	
DCTWSUSE	16D	10
DCTWS3QD	260	80
DCTWTRID	238	
DCTXEQND	70	
DCTXFEND	DC	
DCTXFRID	39	F
DCTXJR	1A	90
DCTXJT	1A	B0
DCTXSR	1A	80
DCTXST	1A	A0
DCTXWTID	39	F
DCT1JHLD	1FC	80
DCT1JHNL	1FC	40
DCT1JRFL	1FC	
DCT1SBNL	268	4
DCT1SBUR	268	8
DCT1SDNL	268	10
DCT1SDSH	268	20
DCT1SHLD	268	80
DCT1SHNL	268	40
DCT1SODA	24D	F
DCT1SODH	24D	4
DCT1SODK	24D	2
DCT1SODL	24D	1
DCT1SODW	24D	8
DCT1SRFL	268	
DCT1STFL	24D	
DCT2MODA	269	F
DCT2MODH	269	4
DCT2MODK	269	2
DCT2MODL	269	1
DCT2MODW	269	8
DCT2POST	A	8
DCT2PTRC	A	4
DCT2RSP	A	2
DCT2SRFL	269	
DCT3JWS	1B	80
DCT3SODA	26A	F
DCT3SODH	26A	4
DCT3SODK	26A	2
DCT3SODL	26A	1
DCT3SODW	26A	8
DCT3SRFL	26A	
DCT3SWS	1B	40
DCT3UCSV	294	10
DCT4TRNN	294	1
DCT4TRNY	294	2
DCT5$PPN	276	2
DCT5$SPN	276	4
DCT5CALL	276	40
DCT5C1ON	276	80
DCT5DNRC	276	8
DCT5FSAT	276	1
DCT5TFSS	276	10
DCT5TUCS	276	20
DCT6NOTR	277	80
MDCTABRT	94	
MDCTACT	B4	
MDCTADCT	50	
MDCTAFTK	70	
MDCTAPNL	7B	
MDCTAPPL	7C	
MDCTATE	84	
MDCTATMP	E0	
MDCTATTN	5E	
MDCTATT8	294	1
MDCTATYP	5D	
MDCTBFSZ	60	
MDCTBIDR	94	
MDCTCHLM	63	
MDCTCMCT	CB	
MDCTCNTS	9C	
MDCTCODE	84	
MDCTDCK	90	
MDCTDCNT	B2	
MDCTDCT	58	
MDCTDSC	294	8
MDCTERCT	57	
MDCTEXCD	B0	
MDCTEXIT	B4	

Name	Hex Offset	Hex Value
MDCTEXWK	B0	
MDCTFCS	62	
MDCTFEAT	53	
MDCTFLG1	5E	
MDCTFMT	52	
MDCTICE	54	
MDCTIFEA	EC	
MDCTIMER	294	80
MDCTIMOK	7C	
MDCTINTE	294	4
MDCTINVL	90	
MDCTJOB	294	30
MDCTJOB1	294	20
MDCTJOB2	294	10
MDCTJRNM	F1	
MDCTJTNM	F0	
MDCTLEND	100	
MDCTLGND	B8	
MDCTLINE	5C	
MDCTLNCC	C7	
MDCTLOGN	84	
MDCTLUST	90	
MDCTMDID	98	
MDCTMDNQ	90	
MDCTMDOM	E8	
MDCTMEMB	78	
MDCTMODE	56	
MDCTMPER	98	
MDCTMRRT	F8	
MDCTMRT	F4	
MDCTMTIM	94	
MDCTNA	B8	
MDCTNAK	8C	
MDCTNATP	84	
MDCTNCES	C0	
MDCTNEGR	CC	0
MDCTNETA	CB	B4
MDCTNFL	CA	
MDCTNFLC	294	40
MDCTNFLE	294	20
MDCTNFLI	294	4
MDCTNFLL	294	80
MDCTNFLP	294	2
MDCTNFLQ	294	10
MDCTNFLS	294	8
MDCTNFL2	C4	
MDCTNFL3	C5	
MDCTNF2A	294	10
MDCTNF2D	294	8
MDCTNF2I	294	4
MDCTNF2J	294	2
MDCTNF2N	294	20
MDCTNF2R	294	80
MDCTNF2S	294	40
MDCTNF3E	294	1
MDCTNF3J	294	40
MDCTNF3M	294	80
MDCTNICE	88	
MDCTNJEH	294	1
MDCTNLDV	F0	
MDCTNLNE	8C	
MDCTNM	B4	
MDCTNMAP	D8	
MDCTNNR	BE	
MDCTNO	D4	

Name	Hex Offset	Hex Value
MDCTNODE	D4	
MDCTNOTS	FC	
MDCTNPAS	E0	
MDCTNPCH	88	
MDCTNQSE	8C	
MDCTNR	BC	
MDCTOBUF	78	
MDCTOPCT	C8	
MDCTOTAL	88	
MDCTPAWS	294	40
MDCTPMBC	B0	
MDCTPMFL	B1	
MDCTPSWD	70	
MDCTPWDL	63	
MDCTQUAL	D6	
MDCTRABF	A4	
MDCTRACT	A2	
MDCTRALM	A0	
MDCTRAT	80	
MDCTRAWK	A0	
MDCTRCB	51	
MDCTRECL	50	
MDCTREM	98	
MDCTRFXE	68	70
MDCTRNTA	DC	
MDCTRQBF	AC	
MDCTRQCT	AA	
MDCTRQLM	A8	
MDCTRQWK	A8	
MDCTRSEQ	54	
MDCTSCNT	9C	
MDCTSDCK	A4	
MDCTSDCT	C	
MDCTSEL	51	
MDCTSNAK	A0	
MDCTSNCT	78	
MDCTSREM	AC	
MDCTSRNM	F3	
MDCTSTAT	5F	
MDCTSTNM	F2	
MDCTSTO	A8	
MDCTSTRT	294	2
MDCTSUSP	62	
MDCTSXCP	9C	
MDCTTO	94	
MDCTTSEQ	55	
MDCTTYPE	5D	
MDCTVREQ	88	
MDCTWICE	60	
MDCTXCOD	B3	
MDCTXCP	88	
MDCTXERR	5C	
MDCTXRSP	8C	
MDCT1EOT	294	40
MDCT1OUT	294	80
RIDAHOLD	10D	40
RIDALET	108	
RIDALLOC	99	20
RIDALOCL	10D	80
RIDASCBP	58	
RIDASCBT	5C	
RIDBUFSZ	110	2000
RIDCAVAL	F0	4
RIDCDATA	F0	8
RIDCDONE	F0	C

Name	Hex Offset	Hex Value
RIDCLNUP	99	40
RIDCTEND	110	
RIDECB	64	
RIDECBP	54	
RIDEND	99	10
RIDEOM	99	4
RIDEOMA	B8	
RIDEOME	BC	
RIDEOMER	B0	
RIDEOMP	B4	
RIDERRET	50	
RIDEXMPL	B0	
RIDFLAGA	10D	
RIDFLAGS	99	
RIDFLAG1	6F	
RIDFLAG2	10C	
RIDFLAG3	10E	
RIDHCCT	68	
RIDJBID	C0	
RIDJNAM	C8	
RIDJOBID	A8	
RIDLOCK	E0	
RIDLRECL	6C	
RIDPBF	A0	
RIDPBFO	A4	
RIDPOSTI	99	1
RIDRECFM	6E	
RIDRSV2	E8	
RIDRSV3	10F	
RIDSAA	104	
RIDSGRP	D8	
RIDSJB	E4	
RIDSKIP	99	8
RIDSUSR	D0	
RIDUBF	9C	
RIDXECB	F0	
RIDXMPL	50	
RID1LRDF	6F	80
RID1ROUT	99	2
RID1UDCB	6F	40
RID2ERAM	10C	40
RID2ERRD	10C	80
RID3BLIM	10E	80
XDCTACTV	A8	
XDCTBUFQ	A4	
XDCTCMPQ	A0	
XDCTDATE	94	
XDCTDCT	54	
XDCTDSN	B0	
XDCTDTE	70	
XDCTDVER	9C	
XDCTERCT	AC	
XDCTERR	294	40
XDCTFLG1	7F	
XDCTFLG2	80	
XDCTFREE	8E	
XDCTLABL	82	
XDCTMAXB	AE	
XDCTMSG	294	8
XDCTOFSL	8D	
XDCTOPCT	AD	
XDCTOPEN	294	80
XDCTRCB	51	
XDCTRTPD	83	
XDCTSEQN	74	
XDCTSKIP	294	4
XDCTSTAT	50	
XDCTSUBC	7C	
XDCTSUBR	7A	
XDCTTIME	90	
XDCTTVER	98	
XDCTUNCT	7E	
XDCTUNIT	85	
XDCTVOLS	81	
XDCTXNUM	78	
XDCT1ALC	294	10
XDCT1CLS	294	8
XDCT1DMP	294	80
XDCT1LOD	294	40
XDCT1RD	294	2
XDCT1STR	294	1
XDCT1SUB	294	20
XDCT1VER	294	4
XDCT2NDF	294	20
XDCT2NVR	294	10
XDCT2PRO	294	40
XDCT2ST	294	80

$DCTTAB Programming Interface information

Programming Interface information

$DCTTAB

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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 AS A GROUP BY ONE PCE
		.... 1...		DTAB1PPU	"B'00001000'" PCEPTR FIELD IN THE UCT
		.... .1..		DTAB1PPH	"B'00000100'" PCEPTR FIELD IN THE HCT
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE
		1...		DTAB2CHU	"B'10000000'" CHAIN FIELD IN THE UCT
		.1..		DTAB2CHH	"B'01000000'" CHAIN FIELD IN THE HCT
		..1.		DTAB2CTU	"B'00100000'" COUNT FIELD IN THE UCT
		...1		DTAB2CTH	"B'00010000'" COUNT FIELD IN THE HCT
		.... 1...		DTAB2SUB	"B'00001000'" DCT HAS SUBTYPE CHAIN (PARENT)
		.... .1..		DTAB2POL	"B'00000100'" DCT IS IN $DCTPOOL CHAIN

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		DTAB2DCB	"B'00000010'" EXCP DCB AND DEB FOR DCT
		1		DTAB2BSM	"B'00000001'" BSAM DCB 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	3		Reserved for future use
46	(2E)	BITSTRING	1	DTABID	DCTDEVTP FIELD
47	(2F)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
48	(30)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
49	(31)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
50	(32)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
51	(33)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
52	(34)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET
54	(36)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
56	(38)	ADDRESS	2	DTABPCEP (0)	OFFSET OF MANAGING PCE ADDRESS IF DTAB1MP IS ON
56	(38)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on
60	(3C)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
64	(40)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
68	(44)	ADDRESS	2	DTABCHN	OFFSET OF DCT CHAINING FIELD
70	(46)	ADDRESS	2	DTABCNT	OFFSET OF DCT COUNT FIELD
72	(48)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
74	(4A)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
76	(4C)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
76	(4C)	X'2'	0	DTABVERS	"2" DTAB VERSION LEVEL
76	(4C)	X'50'	0	DTABELEN	"*-DTAB" LENGTH OF DCT TABLE ENTRY DSECT

$DCTTAB Cross Reference

Name	Hex Offset	Hex Value
DTAB	0	
DTABALS	20	
DTABCHN	44	
DTABCNT	46	
DTABDESC	8	
DTABDESL	33	
DTABDEV	30	
DTABELEN	4C	50
DTABFLG1	28	
DTABFLG2	29	
DTABFLG3	2A	
DTABHV	4A	
DTABID	2E	
DTABLEN	36	
DTABLV	48	
DTABNAME	0	
DTABNAML	31	
DTABPCEP	38	
DTABPTAB	38	
DTABPTYP	2F	
DTABRTN	4C	
DTABSCHN	34	
DTABSUBL	32	
DTABVERS	4C	2
DTABWSDF	40	
DTABWSTB	3C	
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB1PPH	28	4
DTAB1PPU	28	8
DTAB2BSM	29	1
DTAB2CHH	29	40
DTAB2CHU	29	80
DTAB2CTH	29	10
DTAB2CTU	29	20
DTAB2DCB	29	2
DTAB2POL	29	4
DTAB2SUB	29	8
DTAB3JWS	2A	80
DTAB3SWS	2A	40

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	DILDWA	Address of active DWA
4096	(1000)	X'F14'	0	DILPCEWS	"*-PCEWORK" Length of $DILBERT PCE

$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 DSBLEN (plus an 8 byte prefix)
Created by: HASCDSS during data space create
Pointed to by: CCTDSB field of the $HCCT data area
CCTDSINR 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 dataspaces.

$DSB Map

Offsets					
Dec	**Hex**	**Type/Value**	**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
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

$DSB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		DSB2OWNA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSB2SCLO	"B'00000100'" SCOPE=LOCAL data space
		.... ..1.		DSB2SCAL	"B'00000010'" SCOPE=ALL data space
		1		DSB2SCCO	"B'00000001'" SCOPE=COMMON data space
98	(62)	BITSTRING	2		RESERVED FOR FUTURE USE
100	(64)	ADDRESS	4	DSBLIST	Pointer to DSPSERV work area (used for CREATE and DELETE only)
104	(68)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
112	(70)	DBL WORD	8	(0)	Ensure doubleword alignment
112	(70)	X'70'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

$DSB Cross Reference

Name	Hex Offset	Hex Value
DSB	0	
DSBALET	C	
DSBBLKSC	40	
DSBBLKSI	44	
DSBBLKSM	3C	
DSBFLAG1	1	
DSBFLAG2	61	
DSBKEY	60	
DSBLEN	70	70
DSBLIST	64	
DSBNAME	50	
DSBNAME1	50	
DSBNAME2	54	
DSBNEXT	4	
DSBOASCB	18	
DSBORG	38	
DSBOSTKN	1C	
DSBOTCB	24	
DSBOTTKN	28	
DSBOUTN	58	
DSBPNAME	48	
DSBRC	8	
DSBSTKN	10	
DSBVERS	0	
DSBVERSN	0	2
DSB2FPRO	61	80
DSB2OWNA	61	8
DSB2OWNC	61	10
DSB2OWNM	61	20
DSB2SCAL	61	2
DSB2SCCO	61	1
DSB2SCLO	61	4

$DSCT Programming Interface information

Programming Interface information

$DSCT

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	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
24	(18)	DBL WORD	8	DSESTK	Entry start clock time
32	(20)	DBL WORD	8	DSXSTK	Execution start clock time
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

$DSCT Cross Reference

Name	Hex Offset	Hex Value
DSACT	40	
DSCT	0	
DSCTLEN	5C	70
DSESTK	18	
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 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 Map

Offsets					
Dec	Hex	Type/Value	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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					INTERNAL WORK AREA - THESE FIELDS ARE SET TO ZERO ON ENTRY TO THE $DSOPEN ROUTINE
					End of Comment
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)	BITSTRING	4	DSSMTTRF	TRACK ADDR OF FIRST BUF IN NEW DS CHAIN CREATED BY $DSPUT
32	(20)	BITSTRING	4	DSSMTTRO	TRACK ADDRESS OF LAST BUFFER IN ORIGINAL DATA SET CHAIN
36	(24)	ADDRESS	4	DSSPIOT	IOT ADDR OF 'OPENED' PDDB
40	(28)	ADDRESS	4	DSSPDDB	ADDRESS OF 'OPENED' PDDB
44	(2C)	SIGNED	4	DSSRECCT	DATA SET RECORD COUNT
48	(30)	SIGNED	4	DSSPGCT	DATA SET PAGE COUNT
52	(34)	SIGNED	4	DSSBYTE	DATA SET BYTE COUNT
56	(38)	ADDRESS	4	DSSRECAD	ADDR OF USER SUPPLIED REC
60	(3C)	ADDRESS	4	DSSEWF	Callers's PCEIOEWF
64	(40)	BITSTRING	1	DSSFLAG1	DATA SET SERVICE FLAG BYTE
					Comment
					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.
					End of Comment
65	(41)	BITSTRING	1	DSSCCTL	CARRIAGE CONTROL BYTE - IF NOT SET TRIPLE SPACING ASSUME
66	(42)	SIGNED	2	DSSLEN	LENGTH OF INPUT DATA RECORD
68	(44)	ADDRESS	4	DSSRECPT	PNTER TO DATA RECORD
68	(44)	X'38'	0	DSSVLEN	"*-DSSABUF" LENGTH OF VARIABLE SECTION
72	(48)	SIGNED	4	DSSREC (0)	START OF RECORD TEXT
					Comment
					DSSFLAG1 FLAG SETTINGS FOR DSSFLAG1
					End of Comment
		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

$DSSCB Cross Reference

Name	Hex Offset	Hex Value
DSSABUF	10	
DSSAIOT	4	
DSSBYTE	34	
DSSCB	0	
DSSCCTL	41	
DSSDSKEY	C	
DSSEWF	3C	
DSSFLAG1	40	
DSSGLEN	C	10
DSSID	0	
DSSJKEY	8	
DSSKEY	8	
DSSLEN	42	
DSSMTTRF	1C	
DSSMTTRO	20	
DSSNBUF	18	
DSSONXT	14	
DSSPDDB	28	
DSSPGCT	30	
DSSPIOT	24	
DSSREC	48	
DSSRECAD	38	
DSSRECCT	2C	
DSSRECPT	44	
DSSVLEN	44	38
DSS1DSTR	48	8
DSS1FRST	48	10
DSS1NCLS	48	40
DSS1OPEN	48	80
DSS1PUTS	48	20

$DSWA Programming Interface information

Programming Interface information

$DSWA

End of Programming Interface information

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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

Comment

INPUT FLAG INDICATORS.

End of Comment

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	4	DSWARSD1	RESERVED FOR DEVELOPMENT

Comment

Input/Output data fields (see $DSPSERV for an explanation of the fields).

End of Comment

11	(B)	BITSTRING	1	DSWAKEY	KEY= KEYWORD
12	(C)	ADDRESS	4	DSWADSB	DSB= keyword

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

DSPSERV ERROR/WARNING EQUATE VALUES.

End of Comment

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
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

Comment

END OF $DSWA DATA AREA.

End of Comment

44	(2C)	BITSTRING	1	DSWAEND (0)	
44	(2C)	X'2C'	0	DSWASIZE	"DSWAEND-DSWA" SIZE OF $DSWA DATA AREA

$DSWA Cross Reference

Name	Hex Offset	Hex Value
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	
DSWAINVF	28	30
DSWAIVER	28	4C
DSWAI1CR	5	80
DSWAI1DE	5	10
DSWAI1EX	5	40
DSWAI1RL	5	20
DSWAI2FN	6	40
DSWAI2FY	6	80
DSWAI2OA	6	8
DSWAI2OC	6	10
DSWAI2OM	6	20
DSWAI2SA	6	2
DSWAI2SC	6	1
DSWAI2SL	6	4
DSWAKEY	B	
DSWALEVL	4	3
DSWANAME	10	
DSWANCSA	28	28
DSWANGEN	28	C8
DSWANOES	28	8
DSWANOST	28	2C
DSWARSD1	7	
DSWASIZE	2C	2C
DSWASRBF	28	38
DSWASTRT	28	
DSWATTKF	28	3C
DSWAVERS	4	

$DTE Programming Interface information

Programming Interface information

$DTE

End of Programming Interface information

$DTE Heading Information

Common Name: HASP Daughter Task Element
Macro ID: $DTE
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual storage below the 16M line, and real storage above or below the 16M line, in the private storage of the JES2 address space.
Size: The length of a DTE is the length of the base DTE (defined by the expression, DTEWORK-DTE) plus the length of a variable length work area beginning at symbol DTEWORK.
The length of the work area depends on the type of DTE. These work areas and their lengths are defined in separate mapping macros and are extensions of the DTE DSECT. See the definitions for DTESTID in this macro ($DTE) for the names of the work area mapping macros.
The total length of the DTE is stored in the field DTESIZE.
Created by: The $DTEDYN service. Most DTEs are created during JES2 initialization processing, others are created when needed.
Pointed to by: The TCBBDT field of the MVS TCB control block for the associated JES2 address space subtask.
The DTENEXT and DTEPREV pointers in the DTEs' double-threaded chain anchored by the $DTEORG and $DTELAST fields in the $HCT control block.
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.
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: 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.

$DTE Map

Offsets					
Dec	**Hex**	**Type/Value**	**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)
104	(68)	ADDRESS	4	DTELPSV	ADDR OF LAST/CURRENT SAVE AREA
108	(6C)	ADDRESS	1	DTELEVEL	DTE CONTROL BLOCK VERSION LEVEL
109	(6D)	BITSTRING	1	DTESTID	SUBTASK IDENTIFIER
110	(6E)	SIGNED	2	DTESIZE	SIZE OF DTE + WORK AREA EXT.
112	(70)	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 $WAITING FOR SUBTASK POST
		1		DTE1PJ2	"B'00000001'" JES2 IS COMMING DOWN CLEAN ($HCCT WILL BE FREEMAINED)
113	(71)	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$CD	"B'00010000'" Subtask cancelled with dump
114	(72)	BITSTRING	1	DTEFLAG3	DTE initialization opt flag
		1...		DTE3REQD	"B'10000000'" This subtask is essential, abnormal term will also terminate maintask ($Z03)
115	(73)	BITSTRING	1		RESERVED FOR FUTURE USE
116	(74)	ADDRESS	4	DTENEXT	FORWARD CHAIN FIELD ($DTEORG)
120	(78)	ADDRESS	4	DTEPREV	BACKWARD CHAIN FIELD ($DTELAST)
124	(7C)	ADDRESS	4	DTETCB	SUBTASK TCB ADDRESS
128	(80)	ADDRESS	4	DTEPCE	RELATED PCE ADDRESS OR ZERO, SET TO CURRENT PCE BY DTEDYN UNLESS INIT., MAY BE RESET
132	(84)	ADDRESS	4	DTEHCT	ADDRESS OF HCT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECBS CAN BE USED DURING NORMAL JES2 PROCESSING ALSO.
					End of Comment
136	(88)	SIGNED	4	DTEIECB	SUBTASK INITIALIZATION ECB
136	(88)	BITSTRING	20	DTEIXECB	SUBTASK INITIALIZATION XECB
					Comment
					SUBTASK WORK ECB'S MUST BE KEPT TOGETHER
					End of Comment
156	(9C)	SIGNED	4	DTEWECB	SUBTASK WORK ECB
156	(9C)	BITSTRING	20	DTEWXECB	SUBTASK WORK XECB
					Comment
					SUBTASK TERMINATION ECB'S MUST BE KEPT TOGETHER
					End of Comment
176	(B0)	SIGNED	4	DTETECB	SUBTASK TERMINATION ECB
176	(B0)	BITSTRING	20	DTETXECB	SUBTASK TERMINATION XECB
					Comment
					SUBTASK TERMINATION ECB LIST, MUST BE KEPT TOGETHER
					End of Comment
196	(C4)	ADDRESS	4	DTEECBL1	JES2 TERMINATION ECBLIST
200	(C8)	ADDRESS	4	DTEECBL2	AND STIMER EXIT ROUTINE ECB
204	(CC)	SIGNED	4	DTEJECB	(ALL USED ONLY IN HASPTERM)
					Comment
					END OF ECB AREAS THAT MUST BE KEPT TOGETHER
					End of Comment
208	(D0)	CHARACTER	8	DTENAME	SUBTASK EBCDIC NAME
216	(D8)	ADDRESS	4	DTEVRXAD	SUBTASK RECOVERY VRA EXIT ADDR
220	(DC)	ADDRESS	4	DTEESXAD	SUBTASK RCVY CLEAN UP EXIT ADDR
224	(E0)	ADDRESS	4	DTERTXAD	SUBTASK RCVY RETRY EXIT ADDR
					Comment
					SUBTASK ESTAE RECOVERY WORK AREA.
					End of Comment
228	(E4)	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
229	(E5)	BITSTRING	3		RESERVED FOR FUTURE USE
232	(E8)	BITSTRING	348	DTEERA	SUBTASK ERA
580	(244)	BITSTRING	576	DTETRCA	SUBTASK TRCA
1156	(484)	SIGNED	4	DTESDECB	SUBTASK ESTAE SDUMP ECB

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Subtask Work area					
				End of Comment	
1160	(488)	DBL WORD	8	(0)	
1160	(488)	CHARACTER	108	DTEAWRKA	SUBTASK ESTAE WORK AREA
1160	(488)	X'410'	0	DTEASAVL	"*-DTEABFLG" LENGTH OF RECOVERY WORK AREA
				Comment	
GENERAL PARAMETER LIST AREA AND RESERVED USER FIELDS					
				End of Comment	
1268	(4F4)	SIGNED	4	DTEPARML (2)	8 BYTE PARAMETER LIST
1268	(4F4)	X'4F4'	0	DTEPARM	"DTEPARML,4,C'A'" parm list @ from attach or
1268	(4F4)	X'4F8'	0	DTEPARM2	"DTEPARML+4,4,C'A'" 2 work parm for subtsk use
1276	(4FC)	SIGNED	4	DTEUSER1	RESERVED FOR USER
1280	(500)	SIGNED	4	DTEUSER2	RESERVED FOR USER
1284	(504)	SIGNED	4	DTEUSER3	RESERVED FOR USER
1288	(508)	SIGNED	4	DTEUSER4	RESERVED FOR USER
1296	(510)	DBL WORD	8	DTEWORK (0)	VARIABLE LEN SUBTASK WORK AREA
1296	(510)	X'3'	0	DTEVERSN	"3" DTE Version level
1296	(510)	X'510'	0	DTELEN	"*-DTE" LENGTH OF DTE DSECT FOUNDATION
				Comment	
DTESTID -- SUBTASK IDENTIFIER EQUATES (USER SUBTASK IDS SHOULD BEGIN AT 255 AND WORK DOWN TOWARDS THE JES2 SUBTASK IDS)					
				End of Comment	
1296	(510)	X'0'	0	DTEIDIMG	"0" HASPIMAG SUBTASK ID; work area mapped by $DTEIMAG
1296	(510)	X'1'	0	DTEIDALC	"1" HOSALLOC SUBTASK ID; work area mapped by $DTEALOC
1296	(510)	X'2'	0	DTEIDSPL	"2" HOSPOOL SUBTASK ID; work area mapped by $DTESPL
1296	(510)	X'3'	0	DTEIDSMF	"3" HASPACCT SUBTASK ID; work area mapped by $DTEACCT
1296	(510)	X'4'	0	DTEIDVTM	"4" HASPVTAM SUBTASK ID; work area mapped by $DTEVTAM
1296	(510)	X'5'	0	DTEIDWTO	"5" HASPWTO SUBTASK ID; work area mapped by $DTEWTO
1296	(510)	X'6'	0	DTEIDCNV	"6" HOSCNVT SUBTASK ID; work area mapped by $DTECNV
1296	(510)	X'7'	0	DTEIDOFF	"7" HASPOFF SUBTASK ID; work area mapped by $DTEOFF
1296	(510)	X'8'	0	DTEIDCVR	"8" HASPCKVR SUBTASK ID; work area mapped by $DTECKVR
1296	(510)	X'9'	0	DTEIDSUB	"9" HASPSUBS SUBTASK ID; work area mapped by $DTESUBS
1296	(510)	X'A'	0	DTEIDCCF	"10" HASPCKCF SUBTASK ID; work area mapped by $DTECKCF
1296	(510)	X'B'	0	DTEIDEOM	"11" HASPEOM SUBTASK ID; work area mapped by $DTEEOM

$DTE Cross Reference

Name	Hex Offset	Hex Value
DTE	0	
DTEABEND	E4	80
DTEABESX	E4	20
DTEABFLG	E4	
DTEABREC	E4	8
DTEABSTR	E4	10
DTEABVRA	E4	40
DTEASAVL	488	410
DTEAWRKA	488	
DTEECBL1	C4	
DTEECBL2	C8	
DTEERA	E8	
DTEESXAD	DC	
DTEFLAG1	70	
DTEFLAG2	71	
DTEFLAG3	72	
DTEHCT	84	
DTEID	0	
DTEIDALC	510	1
DTEIDCCF	510	A
DTEIDCNV	510	6
DTEIDCVR	510	8
DTEIDEOM	510	B
DTEIDIMG	510	0
DTEIDOFF	510	7
DTEIDSMF	510	3
DTEIDSPL	510	2
DTEIDSUB	510	9
DTEIDVTM	510	4
DTEIDWTO	510	5
DTEIECB	88	
DTEIXECB	88	
DTEJECB	CC	
DTELEN	510	510
DTELEVEL	6C	
DTELPSV	68	
DTENAME	D0	
DTENEXT	74	
DTEPARM	4F4	4F4
DTEPARML	4F4	
DTEPARM2	4F4	4F8
DTEPCE	80	
DTEPREV	78	
DTERTXAD	E0	
DTESDECB	484	
DTESIZE	6E	
DTESTID	6D	
DTETCB	7C	
DTETECB	B0	
DTETRCA	244	
DTETXECB	B0	
DTEUSER1	4FC	
DTEUSER2	500	
DTEUSER3	504	
DTEUSER4	508	
DTEVERSN	510	3
DTEVRXAD	D8	
DTEWECB	9C	
DTEWORK	510	
DTEWXECB	9C	
DTE1ACTV	70	80
DTE1AUTO	70	20
DTE1ECB	70	4
DTE1PJ2	70	1
DTE1STAE	70	10
DTE1SUB0	70	8
DTE1TERM	70	40
DTE1XECB	70	2
DTE2$CD	71	10
DTE2CRTM	71	20
DTE2IERR	71	80
DTE2TRAC	71	40
DTE3REQD	72	80

$DTEACCT Programming Interface information

Programming Interface information

$DTEACCT

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPACCT DTE WORK AREA EXTENSION
1296	(510)	BITSTRING	920	DSMFJMR	JMR BUFFER WORK AREA
2216	(8A8)	SIGNED	4	DSMFWRK (5)	5 WORD WORKAREA FOR SMFEWTM
2236	(8BC)	BITSTRING	4		Reserved for future use
2236	(8BC)	X'3B0'	0	DSMFLEN	"*-DTEWORK" LENGTH OF WORK AREA

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HOSALLOC DTE WORK AREA EXT.
1296	(510)	X'0'	0	DDALLEN	"*-DTEWORK" LENGTH OF WORK AREA

$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 interfactes 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 reqester of a service or terminating the connector of a CF.

$DTECKCF Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on CF subtask work area ext.
1296	(510)	DBL WORD	8	(0)	Ensure alignment
1296	(510)	X'0'	0	DCCFLEN	"*-DTEWORK" Length of work area

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint Version subtask work area ext.
1296	(510)	DBL WORD	8	DCKVTSMP	Time of last 'full' sampling
1296	(510)	X'8'	0	DCKVLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTECNV Programming Interface information

Programming Interface information

$DTECNV

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

- DCNVDEBS

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP CONVERSION SUBTASK WORK AREA
1296	(510)	BITSTRING	1	DCNVSTAT	PROCESSOR STATUS BYTE
		1...		DCNVAOPN	"B'10000000'" ACBS SUCCESSFULLY 'FAKE' OPENED
		..1.		DCNVDST	"B'00100000'" DATA SET TYPE - BIT ON -> SYSIN BIT OFF -> SYSOUT
1297	(511)	BITSTRING	3		RESERVED FOR FUTURE USE
1300	(514)	SIGNED	4	DCNVSAVE (15)	ESTAE REGISTER SAVE AREA
1360	(550)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1364	(554)	ADDRESS	4	DCNVIOT	ADDRESS OF ALLOCATION IOT

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1368	(558)	ADDRESS	4	DCNVADDR	ADDRESS OF JCL CONVERTER
1372	(55C)	ADDRESS	4	DCNVCAT	Address of CAT for job
1376	(560)	ADDRESS	4	DCNVPAD	Addr of current(open) PAD
1380	(564)	BITSTRING	8	DCNVPCRT	Open PAD create time
1388	(56C)	ADDRESS	4	DCNVPD00	Addr of PROC00 PAD
1392	(570)	ADDRESS	4	DCNVJPAD	Address of PAD for job
1396	(574)	CHARACTER	4		Reserved for future use
1400	(578)	SIGNED	4	DCNVDCB (0)	ALIGN LIST TO FULLWORD
1400	(578)	ADDRESS	1		OPTION BYTE
1401	(579)	ADDRESS	3		DCB ADDRESS

Comment

PARAMETER LIST FOR EXIT 6. VARIABLES DCNVPARM THRU DCNVCNMB
MAKEUP THIS LIST AND SHOULD ALWAYS BE KEPT TOGETHER.

End of Comment

1404	(57C)	SIGNED	4	DCNVPARM (0)	EXIT 6 PARAMETER LIST
1404	(57C)	ADDRESS	4	DCNVUWAA	ADDR OF EXIT 6 USER WORK AREA
1408	(580)	ADDRESS	4	DCNVP2A	IF R0=0 THEN INTERNAL TEXT IMAGE ADDRESS ELSE IF R0=4 THEN CONVERTER RETURN CODE ADDRESS
1412	(584)	ADDRESS	4	DCNVDTEA	ADDRESS OF DTE
1416	(588)	ADDRESS	4	DCNVJCTA	ADDRESS OF JCT BUFFER
1420	(58C)	ADDRESS	4	DCNVCNMB	ADDRESS OF CONVERTER MESSAGE BUFFER
1424	(590)	ADDRESS	4	DCNVCPTR	POINTER TO CONVERTER'S MESSAGE BUFFER
1428	(594)	ADDRESS	4	DCNVWAVE	ADDR OF THE WAVE CONTROL BLOCK FOR $SEAS CALLS
1432	(598)	ADDRESS	1	DCNVJBTY	JOB TYPE SAVE AREA
1433	(599)	ADDRESS	3		RESERVED FOR FUTURE USE
1436	(59C)	SIGNED	4	DCNVJNUM	Job number save area

Comment

Start of general work areas, cleared en mass at startup.

End of Comment

1436	(59C)	X'5A0'	0	DCNVCLR	"*" START OF WORK AREA CLEARED IN CONVERTER SUB-TASK INITIALIZATION
1440	(5A0)	CHARACTER	8	DCNVDDNM	DDNAME OF PROCLIB NOW OPEN
1448	(5A8)	CHARACTER	120	DCNVCNPR	CONVERTER ENTRY LIST
1568	(620)	CHARACTER	36	DCNVQMPA	QUEUE MNGR PARM AREA
1604	(644)	SIGNED	4	DCNVSYMA (0)	SYSTEM SYMBOLICS DATA AREA
1604	(644)	CHARACTER	7	DCNVSYM1	&SYSUID KEYWORD
1611	(64B)	CHARACTER	8	DCNVSYMU	&SYSUID PARAMETER VALUE
1620	(654)	SIGNED	2	DCNVCOM	CONSOLE ID FOR CONVERSION
1624	(658)	ADDRESS	4	DCNVIOTA	INPUT IOT FOR TEXT EXIT
1628	(65C)	SIGNED	4	DCNVPDBO	OFFSET OF LAST INPUT PDDB
1632	(660)	CHARACTER	1	DCNVRD	JOB CARD RD= PARAMETER
1633	(661)	BITSTRING	1	DCNVFLG1	SERIALIZED FLAG BYTE (UPDATE USING OIL/NIL ONLY)
		1...		DCNV1REO	"B'10000000'" REOPEN PROCLIB DATA SET
		.1..		DCNV1CLR	"B'01000000'" CLOSE has been issued once for job in XCNVRTY
1634	(662)	SIGNED	2	DCNVITDL	LENGTH OF INTERNAL TEXT
1636	(664)	ADDRESS	4	DCNVAR0	XRT @ for trace ID 13
1640	(668)	CHARACTER	8	DCNVPERF	Performance Group for job from //JOB JCL statement (left justified, blank fill)
1648	(670)	CHARACTER	16	DCNVSCHE	Scheduling environment for job (left justified, blank fill)
1664	(680)	SIGNED	4	DCNVERC1	USER EXIT RETURN CODE 1
1668	(684)	SIGNED	4	DCNVERC2	USER EXIT RETURN CODE 2
1672	(688)	SIGNED	4	DCNVESV1 (18)	USER EXIT SAVE AREA 1
1744	(6D0)	SIGNED	4	DCNVESV2 (18)	USER EXIT SAVE AREA 2
1816	(718)	DBL WORD	8	(0)	
1816	(718)	CHARACTER	200	DCNVWORK	MESSAGE WORK AREA
1816	(718)	X'718'	0	DCNVETXT	"DCNVWORK" END OF TEXT ADDRESS
1816	(718)	X'720'	0	DCNVUDSN	"DCNVWORK+8" USER DSN ADDRESS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1816	(718)	X'724'	0	DCNVITXT	"DCNVWORK+12" INTERNAL TEXT ADDRESS
1816	(718)	X'728'	0	DCNVIDSN	"DCNVWORK+16" INTERNAL TEXT DSN ADDRESS
1816	(718)	X'72C'	0	DCNVPDDB	"DCNVWORK+20" SYSIN PDDB ADDRESS
2016	(7E0)	BITSTRING	16	DCNVUWA	EXIT USER WORK AREA
2032	(7F0)	CHARACTER	8	DCNVJDVT	JDVT NAME

Comment

```
    START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES log control
02 ACRONYM: $JESLOG
01 MACRO NAME: $JESLOG
01 DSECT NAME: JLG
01 LABEL PREFIX: JLG
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: "None"
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: n/a
02 KEY: n/a
02 RESIDENCY:
    This block is included in JCTs, SJXBs, CATs and
    CNVWORK. See the description of those "hosting"
    blocks for storage attributes.
01 SIZE:
   See JLGLEN
01 CREATED BY:
   See "hosting" control blocks
01 POINTED TO BY:
   No pointers
01 SERIALIZATION:
   None required
01 FUNCTION:
   The JESLOG describes how the spinning of JESLOG
   (JESYSMG and JESJOBLG) is to be supported.
01 METHOD OF ACCESS:
02 ASM:
    Specify $JESLOG as a positional operand on a
    $MODULE macro instruction to cause this mapping
    to be generated. A USING of the following form
    is used: USING JLG,xxxx where xxxx is the
    label within the "hosting" block where the JESLOG
```

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		mapping begins. For example when referencing the JESLOG within the JCT, code USING JLG,JCTJLOG			
02 PL/X:					
		This mapping is not available for compilations.			
01 USED BY:					
		Spin processing for the the two JESLOG data sets use the information for their decisions.			
01 DELETED BY:					
		See "hosting" blocks.			
01 FREQUENCY:					
		See "hosting" blocks			
01 RESTRICTIONS:					
		None			
		END OF SPECIFICATIONS			
01 CHANGE ACTIVITY:					
$Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs					
$Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support					
01 A000000-999999 CREATED for JES2 OS/390 Release 12					
				End of Comment	
2040	(7F8)	BITSTRING	6	DCNVJLOG	JES log control
				Comment	
		CONVERSION EXIT LIST			
				End of Comment	
2048	(800)	SIGNED	4	DCNVXLST (0)	CONVERSION EXIT LIST
2048	(800)	BITSTRING	8	DCNVXLHD	EXIT LIST HEADER
2056	(808)	BITSTRING	1	DCNVXLTE	INTERNAL TEXT EXIT ENTRY
2056	(808)	X'8'	0	DCNVXLEN	"*-DCNVXLTE" LENGTH OF EXIT LIST ENTRY
2064	(810)	SIGNED	4	DCNVDEBS (0)	ADDRESS OF DEB'S FOR ACB'S
2064	(810)	CHARACTER	32	DCNVDEBJ	DEB FOR JCL DATA SET
2096	(830)	CHARACTER	32	DCNVDEBI	DEB FOR JCL IMAGE DATA SET
2128	(850)	CHARACTER	32	DCNVDEBM	DEB FOR SYSTEM MSG DATA SET
2160	(870)	CHARACTER	32	DCNVDEBT	DEB FOR INTERNAL TEXT DATA SET
2192	(890)	ADDRESS	1	DCNUIDL	USERID LENGTH + VALUE
2192	(890)	X'891'	0	DCNUID	"DCNUIDL+1,8,C'C'" USERID FOR THIS JOB
2201	(899)	ADDRESS	1	DCNGRPL	GROUP LENGTH + VALUE
2201	(899)	X'89A'	0	DCNGRP	"DCNGRPL+1,8,C'C'" GROUP FOR THIS JOB
2210	(8A2)	ADDRESS	1	DCNPASL	PASSWORD LENGTH + VALUE
2210	(8A2)	X'8A3'	0	DCNPAS	"DCNPASL+1,8,C'C'" PASSWORD FOR THIS JOB
2219	(8AB)	ADDRESS	1	DCNNPASL	NEW PASSWORD LEN + VALUE
2219	(8AB)	X'8AC'	0	DCNNPAS	"DCNNPASL+1,8,C'C'" NEW PASSWORD FOR THIS JOB
2219	(8AB)	X'314'	0	DCNVCLRL	"*-DCNVCLR" END OF WORK AREA CLEARED IN CONVERTER SUBTASK INITIALIZATION
				Comment	
		DCB for PROCLIB, and ACBs for the JES datasets.			
		DCNVPROC DCB FOR PROCLIB DATA SET			
CNVPROC DCB DSORG=PO,MACRF=R,RECFM=FB,LRECL=80,					
		DDNAME= ,EXLST= -			
				End of Comment	
2228	(8B4)	SIGNED	4	(0)	DCNVPROC ORIGIN DATA CONTROL BLOCK
2228	(8B4)	SIGNED	4	DCNVPROC (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
2228	(8B4)	BITSTRING	16		FDAD, DVTBL
2244	(8C4)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
2248	(8C8)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
2249	(8C9)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
2252	(8CC)	ADDRESS	2		BUFL, BUFFER LENGTH

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
2254	(8CE)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
2256	(8D0)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
2260	(8D4)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
2261	(8D5)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
2264	(8D8)	BITSTRING	1		RECFM (RECORD FORMAT)
2265	(8D9)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
2268	(8DC)	CHARACTER	8		DDNAME
2276	(8E4)	BITSTRING	1		OFLGS (OPEN FLAGS)
2277	(8E5)	BITSTRING	1		IFLGS (IOS FLAGS)
2278	(8E6)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
2280	(8E8)	BITSTRING	1		OPTCD, OPTION CODES
2281	(8E9)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
2284	(8EC)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
2288	(8F0)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
2290	(8F2)	ADDRESS	2		BLKSIZE, BLOCK SIZE
2292	(8F4)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
2296	(8F8)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
2300	(8FC)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
2301	(8FD)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
2304	(900)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
2308	(904)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
2310	(906)	ADDRESS	2		LRECL
2312	(908)	ADDRESS	4		CNTRL, NOTE, POINT

Comment

DCNVJCL ACB FOR JCL DATA SET

End of Comment

2316	(90C)	SIGNED	4	(0)	DCNVJCL ORIGIN
2316	(90C)	SIGNED	4	DCNVJCL (0)	
2316	(90C)	BITSTRING	1		. ACB IDENTIFICATION
2317	(90D)	ADDRESS	1		ACB SUBTYPE X04SVHS
2318	(90E)	ADDRESS	2		. ACB LENGTH X03004HS
2320	(910)	ADDRESS	4		. AMB LIST POINTER
2324	(914)	ADDRESS	4		. INTERFACE ROUTINE POINTER
2328	(918)	BITSTRING	1		MACRF(1) X04SVHS
2329	(919)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
2330	(91A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
2331	(91B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
2332	(91C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
2334	(91E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
2336	(920)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
2337	(921)	ADDRESS	1		SHARED RESOURCE POOL ID
2338	(922)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
2340	(924)	BITSTRING	1		. RECFM=A
2341	(925)	BITSTRING	1		READ INTEGRITY OPTIONS
2342	(926)	BITSTRING	2		. DSORG=ACB
2344	(928)	ADDRESS	4		X04SVHS
2348	(92C)	ADDRESS	4		. PASSWORD POINTER
2352	(930)	ADDRESS	4		. EXIT LIST POINTER
2356	(934)	CHARACTER	8		
2364	(93C)	BITSTRING	1		OFLAGS
2365	(93D)	ADDRESS	1		. ERFLAGS
2366	(93E)	BITSTRING	1		INFLGS(1) X04SVHS
2367	(93F)	BITSTRING	1		INFLGS(2) X04SVHS
2368	(940)	ADDRESS	4		. OPENJ JFCB POINTER
2372	(944)	ADDRESS	4		BUFFER SPACE
2376	(948)	ADDRESS	2		. BLOCK SIZE
2378	(94A)	ADDRESS	2		. RECORD SIZE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2380	(94C)	ADDRESS	4		. USER WORKAREA POINTER
2384	(950)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
2388	(954)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DCNVJCLI ACB FOR JCL IMAGES DATA SET

End of Comment

2392	(958)	SIGNED	4	(0)	DCNVJCLI ORIGIN
2392	(958)	SIGNED	4	DCNVJCLI (0)	
2392	(958)	BITSTRING	1		. ACB IDENTIFICATION
2393	(959)	ADDRESS	1		ACB SUBTYPE X04SVHS
2394	(95A)	ADDRESS	2		. ACB LENGTH X03004HS
2396	(95C)	ADDRESS	4		. AMB LIST POINTER
2400	(960)	ADDRESS	4		. INTERFACE ROUTINE POINTER
2404	(964)	BITSTRING	1		MACRF(1) X04SVHS
2405	(965)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
2406	(966)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
2407	(967)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
2408	(968)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
2410	(96A)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
2412	(96C)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
2413	(96D)	ADDRESS	1		SHARED RESOURCE POOL ID
2414	(96E)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
2416	(970)	BITSTRING	1		. RECFM=A
2417	(971)	BITSTRING	1		READ INTEGRITY OPTIONS
2418	(972)	BITSTRING	2		. DSORG=ACB
2420	(974)	ADDRESS	4		X04SVHS
2424	(978)	ADDRESS	4		. PASSWORD POINTER
2428	(97C)	ADDRESS	4		. EXIT LIST POINTER
2432	(980)	CHARACTER	8		
2440	(988)	BITSTRING	1		OFLAGS
2441	(989)	ADDRESS	1		. ERFLAGS
2442	(98A)	BITSTRING	1		INFLGS(1) X04SVHS
2443	(98B)	BITSTRING	1		INFLGS(2) X04SVHS
2444	(98C)	ADDRESS	4		. OPENJ JFCB POINTER
2448	(990)	ADDRESS	4		BUFFER SPACE
2452	(994)	ADDRESS	2		. BLOCK SIZE
2454	(996)	ADDRESS	2		. RECORD SIZE
2456	(998)	ADDRESS	4		. USER WORKAREA POINTER
2460	(99C)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
2464	(9A0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DCNVMSG ACB FOR SYSTEM MSGS DATA SET

End of Comment

2468	(9A4)	SIGNED	4	(0)	DCNVMSG ORIGIN
2468	(9A4)	SIGNED	4	DCNVMSG (0)	
2468	(9A4)	BITSTRING	1		. ACB IDENTIFICATION
2469	(9A5)	ADDRESS	1		ACB SUBTYPE X04SVHS
2470	(9A6)	ADDRESS	2		. ACB LENGTH X03004HS
2472	(9A8)	ADDRESS	4		. AMB LIST POINTER
2476	(9AC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
2480	(9B0)	BITSTRING	1		MACRF(1) X04SVHS
2481	(9B1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
2482	(9B2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2483	(9B3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
2484	(9B4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
2486	(9B6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
2488	(9B8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
2489	(9B9)	ADDRESS	1		SHARED RESOURCE POOL ID
2490	(9BA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
2492	(9BC)	BITSTRING	1		. RECFM=A
2493	(9BD)	BITSTRING	1		READ INTEGRITY OPTIONS
2494	(9BE)	BITSTRING	2		. DSORG=ACB
2496	(9C0)	ADDRESS	4		X04SVHS
2500	(9C4)	ADDRESS	4		. PASSWORD POINTER
2504	(9C8)	ADDRESS	4		. EXIT LIST POINTER
2508	(9CC)	CHARACTER	8		
2516	(9D4)	BITSTRING	1		OFLAGS
2517	(9D5)	ADDRESS	1		. ERFLAGS
2518	(9D6)	BITSTRING	1		INFLGS(1) X04SVHS
2519	(9D7)	BITSTRING	1		INFLGS(2) X04SVHS
2520	(9D8)	ADDRESS	4		. OPENJ JFCB POINTER
2524	(9DC)	ADDRESS	4		BUFFER SPACE
2528	(9E0)	ADDRESS	2		. BLOCK SIZE
2530	(9E2)	ADDRESS	2		. RECORD SIZE
2532	(9E4)	ADDRESS	4		. USER WORKAREA POINTER
2536	(9E8)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
2540	(9EC)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DCNVTXT ACB FOR INTERNAL TEXT DATA SET

End of Comment

2544	(9F0)	SIGNED	4	(0)	DCNVTXT ORIGIN
2544	(9F0)	SIGNED	4	DCNVTXT (0)	
2544	(9F0)	BITSTRING	1		. ACB IDENTIFICATION
2545	(9F1)	ADDRESS	1		ACB SUBTYPE X04SVHS
2546	(9F2)	ADDRESS	2		. ACB LENGTH X03004HS
2548	(9F4)	ADDRESS	4		. AMB LIST POINTER
2552	(9F8)	ADDRESS	4		. INTERFACE ROUTINE POINTER
2556	(9FC)	BITSTRING	1		MACRF(1) X04SVHS
2557	(9FD)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
2558	(9FE)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
2559	(9FF)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
2560	(A00)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
2562	(A02)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
2564	(A04)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
2565	(A05)	ADDRESS	1		SHARED RESOURCE POOL ID
2566	(A06)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
2568	(A08)	BITSTRING	1		. RECFM=A
2569	(A09)	BITSTRING	1		READ INTEGRITY OPTIONS
2570	(A0A)	BITSTRING	2		. DSORG=ACB
2572	(A0C)	ADDRESS	4		X04SVHS
2576	(A10)	ADDRESS	4		. PASSWORD POINTER
2580	(A14)	ADDRESS	4		. EXIT LIST POINTER
2584	(A18)	CHARACTER	8		
2592	(A20)	BITSTRING	1		OFLAGS
2593	(A21)	ADDRESS	1		. ERFLAGS
2594	(A22)	BITSTRING	1		INFLGS(1) X04SVHS
2595	(A23)	BITSTRING	1		INFLGS(2) X04SVHS
2596	(A24)	ADDRESS	4		. OPENJ JFCB POINTER
2600	(A28)	ADDRESS	4		BUFFER SPACE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2604	(A2C)	ADDRESS	2		. BLOCK SIZE
2606	(A2E)	ADDRESS	2		. RECORD SIZE
2608	(A30)	ADDRESS	4		. USER WORKAREA POINTER
2612	(A34)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
2616	(A38)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
2616	(A38)	X'52C'	0	DCNVLEN	"*-DTEWORK" LENGTH OF THE CNVT DTE DSECT

$DTECNV Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCNGRP	899	89A	DCNVPD00	56C	
DCNGRPL	899		DCNVPERF	668	
DCNNPAS	8AB	8AC	DCNVPROC	8B4	
DCNNPASL	8AB		DCNVP2A	580	
DCNPAS	8A2	8A3	DCNVQMPA	620	
DCNPASL	8A2		DCNVRD	660	
DCNUID	890	891	DCNVSAVE	514	
DCNUIDL	890		DCNVSCHE	670	
DCNVADDR	558		DCNVSJBP	550	
DCNVAOPN	510	80	DCNVSTAT	510	
DCNVAR0	664		DCNVSYMA	644	
DCNVCAT	55C		DCNVSYMU	64B	
DCNVCLR	59C	5A0	DCNVSYM1	644	
DCNVCLRL	8AB	314	DCNVTXT	9F0	
DCNVCNMB	58C		DCNVUDSN	718	720
DCNVCNPR	5A8		DCNVUWA	7E0	
DCNVCOM	654	0	DCNVUWAA	57C	
DCNVCPTR	590		DCNVWAVE	594	
DCNVDCB	578		DCNVWORK	718	
DCNVDDNM	5A0		DCNVXLEN	808	8
DCNVDEBI	830		DCNVXLHD	800	
DCNVDEBJ	810		DCNVXLST	800	
DCNVDEBM	850		DCNVXLTE	808	
DCNVDEBS	810		DCNV1CLR	661	40
DCNVDEBT	870		DCNV1REO	661	80
DCNVDST	510	20	DTE	0	
DCNVDTEA	584				
DCNVERC1	680				
DCNVERC2	684				
DCNVESV1	688				
DCNVESV2	6D0				
DCNVETXT	718	718			
DCNVFLG1	661				
DCNVIDSN	718	728			
DCNVIOT	554				
DCNVIOTA	658				
DCNVITDL	662				
DCNVITXT	718	724			
DCNVJBTY	598				
DCNVJCL	90C				
DCNVJCLI	958				
DCNVJCTA	588				
DCNVJDVT	7F0				
DCNVJLOG	7F8				
DCNVJNUM	59C				
DCNVJPAD	570				
DCNVLEN	A38	52C			
DCNVMSG	9A4				
DCNVPAD	560				
DCNVPARM	57C				
DCNVPCRT	564				
DCNVPDBO	65C				
DCNVPDDB	718	72C			

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	,
1296	(510)	ADDRESS	4	EMSSJB	Address of SJB
1300	(514)	ADDRESS	4	EMSPCE	Address of our PCE
1304	(518)	CHARACTER	12	EMSWTAEB	EBCDIC portion of minor
1316	(524)	BITSTRING	8	EMSWTAST	ASCB Token of minor
1316	(524)	X'518'	0	EMSWTAMI	"EMSWTAEB,*-EMSWTAEB" Define RNAME for ENQ/DEQ

Comment

MACRO-DATE = 01/30/01

End of Comment

1324	(52C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1324	(52C)	X'52C'	0	EMSWTANQ	"*" X02113
1324	(52C)	ADDRESS	1		PELLAST flag byte. X02113
1325	(52D)	ADDRESS	1		PELMILEN - RNAME length.
1326	(52E)	BITSTRING	1		

$DTEEOM Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PELFLAG - flag byte 2.			
					End of Comment
1327	(52F)	ADDRESS	1		PELRET - return code byte.
1328	(530)	ADDRESS	4		QNAME ADDRESS
1332	(534)	ADDRESS	4		RNAME ADDRESS
1332	(534)	X'C'	0	EMSWTANL	"*-EMSWTANQ" Length JESLOG ENQ list form
					Comment
		MACRO-DATE = 01/17/01			
					End of Comment
1324	(52C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1324	(52C)	X'52C'	0	EMSWTADQ	"*" X02113
1324	(52C)	ADDRESS	1		PELLAST flag byte. X02113
1325	(52D)	ADDRESS	1		PELMILEN - RNAME length.
1326	(52E)	BITSTRING	1		
					Comment
		PELFLAG - flag byte 2.			
					End of Comment
1327	(52F)	ADDRESS	1		PELRET - return code byte.
1328	(530)	ADDRESS	4		QNAME ADDRESS
1332	(534)	ADDRESS	4		RNAME ADDRESS
1332	(534)	X'C'	0	EMSWTADL	"*-EMSWTADQ" Length JESLOG DEQ list form
1336	(538)	DBL WORD	8	(0)	Ensure alignment
1336	(538)	X'28'	0	EMSLEN	"*-DTEWORK" Length of work area

$DTEEOM Cross Reference

Name	Hex Offset	Hex Value
DTE	0	
EMSLEN	538	28
EMSPCE	514	
EMSSJB	510	
EMSWTADL	534	C
EMSWTADQ	52C	52C
EMSWTAEB	518	
EMSWTAMI	524	518
EMSWTANL	534	C
EMSWTANQ	52C	52C
EMSWTAST	524	

$DTEIMG Programming Interface Information

Programming Interface Information

$DTEIMG

End of Programming Interface Information

$DTEIMG Heading Information

Common Name: HASPIMAG SUBTASK DTE WORK AREA EXTENSTION
Macro ID: $DTEIMG
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Storage Attributes: Subpool: $GETMAIN SERVICES (JES2 PRIVATE)
Key: 1
Size: SEE IMGLEN
Created by: $DTEDYN ATTACH
Pointed to by: DIMG ORIGIN BEGINS AT THE DTE WORK AREA EXTENSION FIELD DTEWORK. THE HASPIMAG DTE CHAIN HEAD ($DTEIMAG) IS LOCATED IN THE HCT.
Serialization: THIS WORK AREA IS USED SERIALLY BY THE HASPIMAG SUBTASK. NO SPECIAL SERIALIZATION IS NECESSARY.
Function: THIS DESCT MAPS THE ENTIRE WORK AREA EXTENSION FOR HASPIMAG SUBTASKS.

$DTEIMG Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPIMAG DTE WORK AREA EXTENSION
1296	(510)	CHARACTER	8	DIMGNAME	NAME OF LOADED MODULE
1296	(510)	X'513'	0	DIMGBYT3	"DIMGNAME+3" IMAGE NAME PREFIX BYTE
1304	(518)	SIGNED	4	DIMGDCB	ADDRESS OF IMAGELIB DCB
1308	(51C)	SIGNED	4	DIMGBFAD	BUFFER ADDRESS FOR ESTAE
1312	(520)	SIGNED	4	DIMGABCC	ABEND COMP CODE FOR RETRY
1316	(524)	SIGNED	4	DIMGSDCB	ADDRESS OF PRT DCB FOR SETPRT
1320	(528)	CHARACTER	80	DIMGMSG	MESSAGE AREA
1400	(578)	BITSTRING	1	DIMGFLG1	IMAGE LOADER FLAG BYTE
		1...		DIMG1ABD	"B'10000000'" IMAGE LOADER ABEND FLAG
		.1..		DIMG1DEL	"B'01000000'" DELETE RTN FLAG IN ESTAE
1400	(578)	X'69'	0	DIMGLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEIMG Cross Reference

Name	Hex Offset	Hex Value
DIMGABCC	520	
DIMGBFAD	51C	
DIMGBYT3	510	513
DIMGDCB	518	
DIMGFLG1	578	
DIMGLEN	578	69
DIMGMSG	528	
DIMGNAME	510	
DIMGSDCB	524	
DIMG1ABD	578	80
DIMG1DEL	578	40
DTE	0	

$DTEOFF Programming Interface information

Programming Interface information

$DTEOFF

End of Programming Interface information

$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: $DTEDYN 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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPOFF DTE WORK AREA EXTENSION
1296	(510)	DBL WORD	8	DOFWSTRT (0)	
1296	(510)	X'4'	0	DOFOPENR	"04" SUB-TASK REQUEST CODE FOR OPEN
1296	(510)	X'8'	0	DOFCLOSR	"08" SUB-TASK REQUEST CODE FOR CLOSE
1296	(510)	X'C'	0	DOFCHEKR	"12" SUB-TASK REQUEST CODE FOR CHECK DATA CONTROL BLOCK
1296	(510)	SIGNED	4	DOFDCBST (0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1296	(510)	BITSTRING	16		FDAD, DVTBL
1312	(520)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1316	(524)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1317	(525)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
1320	(528)	ADDRESS	2		BUFL, BUFFER LENGTH
1322	(52A)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1324	(52C)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1328	(530)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1329	(531)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1332	(534)	BITSTRING	1		RECFM (RECORD FORMAT)
1333	(535)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1336	(538)	CHARACTER	8		DDNAME
1344	(540)	BITSTRING	1		OFLGS (OPEN FLAGS)
1345	(541)	BITSTRING	1		IFLGS (IOS FLAGS)
1346	(542)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1348	(544)	BITSTRING	1		OPTCD, OPTION CODES
1349	(545)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1352	(548)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1356	(54C)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1358	(54E)	ADDRESS	2		BLKSIZE, BLOCK SIZE
1360	(550)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1364	(554)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1368	(558)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1369	(559)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1372	(55C)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1376	(560)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1378	(562)	ADDRESS	2		LRECL
1380	(564)	ADDRESS	4		CNTRL, NOTE, POINT
1380	(564)	X'510'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB
1384	(568)	SIGNED	4	DOFDECB	EVENT CONTROL BLOCK
1388	(56C)	BITSTRING	1		TYPE FIELD
1389	(56D)	BITSTRING	1		TYPE FIELD
1390	(56E)	ADDRESS	2		LENGTH
1392	(570)	ADDRESS	4		DCB ADDRESS
1396	(574)	ADDRESS	4		AREA ADDRESS
1400	(578)	ADDRESS	4		RECORD POINTER WORD

Comment

OFFLOAD DATA SET HEADER RECORD

End of Comment

1404	(57C)	BITSTRING	80	DOFHDBUF	OFFLOAD DATASET HEADER RECORD
1404	(57C)	ADDRESS	1	DOFHVRSN	VERSION NUMBER
1404	(57C)	X'2'	0	DOFHVRS1	"2" Current version number
1405	(57D)	BITSTRING	3		RESERVED
1408	(580)	SIGNED	4	DOFHTIME	TIME VERIFICATION STAMP
1412	(584)	SIGNED	4	DOFHDATE	DATE VERIFICATION STAMP
1416	(588)	CHARACTER	8	DOFHNODE	Node name offload done on
1416	(588)	X'14'	0	DOFHDLEN	"*-DOFHVRSN" Length of header record
1424	(590)	ADDRESS	2	(0)	Generate assembly error if remapping is larger than base area
1424	(590)	SIGNED	4	(0)	
1424	(590)	ADDRESS	1	DOFABND	FLAGS FOR ESTAEX
1425	(591)	ADDRESS	1		SECOND FLAG BYTE
1426	(592)	ADDRESS	1		THIRD FLAG BYTE
1427	(593)	ADDRESS	1		VERSION NUMBER
1428	(594)	ADDRESS	4		TOKEN VALUE AREA
1432	(598)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
1436	(59C)	ADDRESS	4		ALET FOR PARM LIST
1440	(5A0)	ADDRESS	4		FOUR BYTE EXIT ADDR

Comment

DYNAMIC ALLOCATE PARAMETER LIST

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
1444	(5A4)	ADDRESS	4	DOFDAST	
1448	(5A8)	ADDRESS	1	DOFDARB	LENGTH OF RB
1449	(5A9)	ADDRESS	1		ALLOCATE VERB CODE
1450	(5AA)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1452	(5AC)	SIGNED	2	DOFDAERR (2)	ERROR AND INFO CODE
1456	(5B0)	ADDRESS	4	DOFDATPP	POINTER TO TU POINTERS
1460	(5B4)	ADDRESS	4		RESERVED
1464	(5B8)	ADDRESS	1	(4)	FLAGS 2 FIELD
1468	(5BC)	ADDRESS	4	DOFDATP1	
1472	(5C0)	ADDRESS	4	DOFDATP2	
1476	(5C4)	ADDRESS	4	DOFDATP3	
1480	(5C8)	ADDRESS	4	DOFDATP4	
1484	(5CC)	ADDRESS	4	DOFDATP5	
1488	(5D0)	ADDRESS	4	DOFDATP6	
1492	(5D4)	ADDRESS	4	DOFDATP7	
1496	(5D8)	ADDRESS	4	DOFDATP8	
1500	(5DC)	ADDRESS	4	DOFDATP9	
1504	(5E0)	ADDRESS	4	DOFDATPA	
1508	(5E4)	ADDRESS	2	DOFDATU1	DSN=
1514	(5EA)	CHARACTER	44	DOFDADSN	.....
1558	(616)	ADDRESS	2	DOFDATU2	
1564	(61C)	BITSTRING	1	DOFDADSP	DISP=OLD
1565	(61D)	ADDRESS	2	DOFDATU3	RETURN DD NAME
1571	(623)	CHARACTER	8	DOFDADDN	
1579	(62B)	ADDRESS	2	DOFDATU4	UNITCT=
1585	(631)	ADDRESS	1	DOFDAUCT	NN
1586	(632)	ADDRESS	2	DOFDATU5	DISP=CATLG
1593	(639)	ADDRESS	2	DOFDATU6 (3)	UNIT=
1599	(63F)	CHARACTER	8	DOFDAUNI	NAME (FROM XDCTUNIT)
1607	(647)	ADDRESS	2	DOFDATU7 (3)	VOLUME COUNT
1613	(64D)	ADDRESS	1	DOFDAVOL	MAXIMUM VOLUMES = 255
1614	(64E)	ADDRESS	2	DOFDATU8 (3)	LABEL=
1620	(654)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1621	(655)	ADDRESS	2	DOFDATU9 (3)	RETENTION PERIOD
1627	(65B)	ADDRESS	2	DOFDARPD	IN DAYS
1629	(65D)	ADDRESS	2	DOFDATUA (2)	SAF PROTECTION OPTION

Comment

DYNAMIC UN-ALLOCATE PARAMETER LIST

End of Comment

1636	(664)	ADDRESS	4	DOFDUST	
1640	(668)	ADDRESS	1	DOFDURB	LENGTH OF RB
1641	(669)	ADDRESS	1		UNALLOCATE VERB CODE
1642	(66A)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1644	(66C)	SIGNED	2	(2)	ERROR AND INFO CODE
1648	(670)	ADDRESS	4	DOFDUTPP	POINTER TO TU POINTERS
1652	(674)	ADDRESS	4		RESERVED
1656	(678)	ADDRESS	1	(4)	FLAGS 2 FIELD
1660	(67C)	ADDRESS	4	DOFDUTP1	
1664	(680)	ADDRESS	2	DOFDUTU1	DD NAME
1670	(686)	CHARACTER	8	DOFDUDDN	
1680	(690)	ADDRESS	4	DOFOPRM	OPEN/CLOSE PARAMETER LIST
1684	(694)	SIGNED	4	DOFABDCC	ABEND COMPLETION CODE
1688	(698)	ADDRESS	4	DOFDCTPT	POINTER TO DCT FOR RECOVERY
1692	(69C)	SIGNED	4	DOFWTECB	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		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.			
				End of Comment	
1696	(6A0)	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
1696	(6A0)	X'67E'	0	DOFSYBUF	"DOFFLAG-(SPBFLAG1-BFPDSECT)" Beginning of pseudo-buffer
1697	(6A1)	BITSTRING	3		Reserved for future use
				Comment	
		Work area for messages issued from the offload subtask			
				End of Comment	
1700	(6A4)	SIGNED	4	(0)	
1700	(6A4)	SIGNED	4	DOFMSGA (0)	
1700	(6A4)	ADDRESS	2		TEXT LENGTH
1702	(6A6)	BITSTRING	2		MCSFLAGS
1704	(6A8)	ADDRESS	4		MESSAGE TEXT ADDRESS
1708	(6AC)	ADDRESS	1		VERSION LEVEL
1709	(6AD)	BITSTRING	1		MISCELLANEOUS FLAGS
1710	(6AE)	ADDRESS	1		REPLY LENGTH
1711	(6AF)	ADDRESS	1		LENGTH OF WPX
1712	(6B0)	BITSTRING	2		EXTENDED MCS FLAGS
1714	(6B2)	ADDRESS	2		RESERVED
1716	(6B4)	ADDRESS	4		REPLY BUFFER ADDRESS
1720	(6B8)	ADDRESS	4		REPLY ECB ADDRESS
1724	(6BC)	ADDRESS	4		CONNECT ID
1728	(6C0)	BITSTRING	2		DESCRIPTOR CODES
1730	(6C2)	ADDRESS	2		RESERVED
1732	(6C4)	BITSTRING	16		
1748	(6D4)	BITSTRING	2		MESSAGE TYPE
1750	(6D6)	ADDRESS	2		MESSAGE'S PRIORITY
1752	(6D8)	CHARACTER	8		JOB ID
1760	(6E0)	CHARACTER	8		JOB NAME
1768	(6E8)	CHARACTER	8		RETRIEVAL KEY
1776	(6F0)	ADDRESS	4		TOKEN FOR DOM
1780	(6F4)	ADDRESS	4		CONSOLE ID
1784	(6F8)	CHARACTER	8		SYSTEM NAME
1792	(700)	CHARACTER	8		CONSOLE NAME
1800	(708)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1804	(70C)	ADDRESS	4		CART ADDRESS
1808	(710)	ADDRESS	4		WSPARM ADDRESS
1808	(710)	X'70'	0	DOFMSGAL	"*-DOFMSGA"
1812	(714)	ADDRESS	2	DOFMSGL	
1814	(716)	CHARACTER	100	DOFMSG	
1814	(716)	X'26A'	0	DOFWLEN	"*-DOFWSTRT"

$DTEOFF Cross Reference

Name	Hex Offset	Hex Value
DOFABDCC	694	
DOFABND	590	
DOFCHEKR	510	C
DOFCLOSR	510	8
DOFDADDN	623	
DOFDADSN	5EA	
DOFDADSP	61C	1
DOFDAERR	5AC	0
DOFDALBL	654	
DOFDARB	5A8	
DOFDARPD	65B	
DOFDAST	5A4	
DOFDATPA	5E0	
DOFDATPP	5B0	
DOFDATP1	5BC	
DOFDATP2	5C0	
DOFDATP3	5C4	
DOFDATP4	5C8	
DOFDATP5	5CC	
DOFDATP6	5D0	
DOFDATP7	5D4	
DOFDATP8	5D8	
DOFDATP9	5DC	
DOFDATUA	65D	
DOFDATU1	5E4	
DOFDATU2	616	
DOFDATU3	61D	
DOFDATU4	62B	
DOFDATU5	632	
DOFDATU6	639	
DOFDATU7	647	
DOFDATU8	64E	
DOFDATU9	655	
DOFDAUCT	631	
DOFDAUNI	63F	
DOFDAVOL	64D	
DOFDCB	564	510
DOFDCBST	510	
DOFDCTPT	698	
DOFDECB	568	0
DOFDUDDN	686	
DOFDURB	668	
DOFDUST	664	
DOFDUTPP	670	
DOFDUTP1	67C	
DOFDUTU1	680	
DOFEODAD	6A0	40
DOFFLAG	6A0	0
DOFHDATE	584	0
DOFHDBUF	57C	0
DOFHDLEN	588	14
DOFHNODE	588	40404040
DOFHTIME	580	0
DOFHVRSN	57C	
DOFHVRS1	57C	2
DOFMSG	716	40404040
DOFMSGA	6A4	
DOFMSGAL	710	70
DOFMSGL	714	
DOFOPENR	510	4
DOFOPRM	690	
DOFSYBUF	6A0	67E
DOFSYNAD	6A0	80
DOFWLEN	716	26A
DOFWSTRT	510	
DOFWTECB	69C	0
DTE	0	

$DTESPL Programming Interface information

Programming Interface information

$DTESPL

End of Programming Interface information

$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 $DTE
Size: See the DTELEN equate for the length of the base DTE, and ((SPLTGM-SPLSTART)+$MAXTGV) 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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASP SPOOL ALLOCATION WORK AREA
1296	(510)	X'510'	0	SPLSTART	"*" START OF SPL MAPPING
1296	(510)	SIGNED	4	SPLSAVE (18)	STANDARD 18-WORD SAVE AREA
1368	(558)	BITSTRING	1	SPLFLG1	REQUEST FLAG BYTE
		1...		SPL1FMT	"B'10000000'" Volume to be formatted
		.1..		SPL1NFMT	"B'01000000'" Volume not to be formatted
		..1.		SPL1MFMT	"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.		SPL1WFMT	"B'00000010'" Volume was formatted
		1		SPL1PACE	"B'00000001'" I/O pacing requested
1369	(559)	BITSTRING	1	SPLFLG2	ERROR FLAG BYTE
		1...		SPL2OBT	"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 error
		1		SPL2SIZE	"B'00000001'" Data set size error
1370	(55A)	BITSTRING	1	SPLFLG3	Subtask status flags

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		SPL3TGBG	"B'10000000'" Formatting 1st trk in TG
		.1..		SPL3ECKD	"B'01000000'" This is ECKD device
		..1.		SPL3RELT	"B'00100000'" Volume using relative addressing
		...1		SPL3NREL	"B'00010000'" Not all members support relative addressing
		.... 1...		SPL3RDTD	"B'00001000'" Extent supports read track data CCW
		.... .1..		SPL3WTRD	"B'00000100'" Extent supports write track data CCW
1371	(55B)	BITSTRING	1		Reserved for future use
1372	(55C)	SIGNED	2	SPLLENG	WORK AREA LENGTH
1374	(55E)	SIGNED	2		Reserved for future use
1376	(560)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1380	(564)	ADDRESS	4	SPLECBA	ADDR OF ECB FOR HOSPOOL SUBTASK
1384	(568)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1388	(56C)	SIGNED	4	SPLDYNRB (0)	DYNAMIC ALLOCATE RB
1408	(580)	ADDRESS	4	SPLTEXT (0)	LIST OF TEXT UNIT POINTERS
1408	(580)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT
1412	(584)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAME TEXT UNIT
1416	(588)	ADDRESS	4	SPLUDSPA (0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCTION REQUESTS
1416	(588)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
1420	(58C)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
1424	(590)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
1428	(594)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
1434	(59A)	CHARACTER	8	SPLDDNAM	DDNAME
1442	(5A2)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
1448	(5A8)	CHARACTER	44	SPLDSNAM	DSNAME
1492	(5D4)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
1498	(5DA)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
1504	(5E0)	BITSTRING	6	SPLUNTXT	UNIT TEXT
1510	(5E6)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
1518	(5EE)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
1528	(5F8)	SIGNED	4	SPLCMLST (4)	CAMLST FOR OBTAIN
1544	(608)	DBL WORD	8	SPLDSCB (0)	OBTAIN WORK AREA
1692	(69C)	SIGNED	4	SPLDVA (0)	DEVTYPE WORK AREA
1716	(6B4)	CHARACTER	8	SPLSTRCC (0)	VOLUME'S FIRST EXTENT
1716	(6B4)	SIGNED	2	SPLOWLIM (2)	LOWER CCHH OF FIRST EXTENT
1720	(6B8)	SIGNED	2	SPLUPLIM (2)	UPPER CCHH OF FIRST EXTENT
1724	(6BC)	SIGNED	4		Reserved

Comment

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).

End of Comment

1728	(6C0)	DBL WORD	8	SPLABS (0)	DS start/end absolute track
1728	(6C0)	SIGNED	4	SPLOWABS	Start absolute track no.
1732	(6C4)	SIGNED	4	SPLUPABS	End absolute track number
1736	(6C8)	SIGNED	4	SPLTRK (0)	SPOOL start and end track
1736	(6C8)	BITSTRING	2	SPLOWTRK	Start track value
1738	(6CA)	BITSTRING	2	SPLUPTRK	End track value
1740	(6CC)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
1744	(6D0)	SIGNED	4	SPLECB	DIRECT ACCESS I/O WAIT ECB
1748	(6D4)	SIGNED	4	SPLIOB (11)	DIRECT ACCESS IOB
1748	(6D4)	X'6D8'	0	SPLDCB	"*-40" DIRECT ACCESS DCB ORIGIN

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1792	(700)	SIGNED	4	(3)	DIRECT ACCESS DCB
1804	(70C)	SIGNED	4	SPLDEB (12)	DIRECT ACCESS DEB
1852	(73C)	ADDRESS	4	SPLUCBPT	UCB ADDRESS
1856	(740)	ADDRESS	4	SPLCAPA	Last captured UCB
1860	(744)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
1864	(748)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
1868	(74C)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
1870	(74E)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
1872	(750)	BITSTRING	2	SPLNMTRK	NUMBER OF TRACKS IN EXTENT
1874	(752)	SIGNED	2	SPLNOBYM	NUMBER OF BYTES IN TGM ENTRY
1876	(754)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
1880	(758)	ADDRESS	4	SPLGMAIN	CCW WORK AREA SIZE
1884	(75C)	ADDRESS	4	SPLWCKDL	Addr of last Write CKD CCW
1888	(760)	ADDRESS	4	SPLOCPRM	Addr locate rcd parm area
1892	(764)	ADDRESS	4		Reserved for future use
1896	(768)	DBL WORD	8	SPLCCWS (0)	CCWS FOR READ COUNT-KEY-DATA
1896	(768)	DBL WORD	8	SPLCCW1	1ST CCW
1904	(770)	DBL WORD	8	SPLCCW2	2ND CCW
1912	(778)	DBL WORD	8	SPLCCW3	3RD CCW
1920	(780)	DBL WORD	8	SPLRDCT	READ-IN AREA
1928	(788)	DBL WORD	8	SPLTIMES	Start of trackgroup format
1936	(790)	DBL WORD	8	SPLTIMEE	End of trackgroup format
1944	(798)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD
1948	(79C)	SIGNED	4	SPLOPCL (0)	ALIGN LIST TO FULLWORD
1948	(79C)	ADDRESS	1		OPTION BYTE
1949	(79D)	ADDRESS	3		DCB ADDRESS
1949	(79D)	X'4'	0	SPLOCLEN	"*-SPLOPCL" Length of OPEN, CLOSE workarea
1952	(7A0)	ADDRESS	4	SPLRECTK	DVCT OR UCB ADDR, OR DEVTYPE
1956	(7A4)	BITSTRING	1		FLAG BYTE
1957	(7A5)	BITSTRING	1		RESERVED
1958	(7A6)	ADDRESS	2		TRACK BALANCE
1960	(7A8)	ADDRESS	1		RECORD NUMBER
1961	(7A9)	ADDRESS	1		KEY LENGTH
1962	(7AA)	ADDRESS	2		DATA LENGTH
1962	(7AA)	X'C'	0	SPLTKLEN	"*-SPLRECTK" LENGTH OF WORK AREA (FOR DTESPL IPCS MODEL)

Comment

MACDATE = 08/19/88

End of Comment

1964	(7AC)	BITSTRING	24	SPLSTIM	REMOTE STIMERM SET PARM LIST
1964	(7AC)	X'18'	0	SPLSTIML	"*-SPLSTIM" Length of MF=L form

Comment

MACDATE -01/22/01-<1>

End of Comment

0	(0)	X'7C8'	0	M00M0900	"SPLCAPU" ++ IOSCAPU NAME
1992	(7C8)	DBL WORD	8	SPLCAPU (0)	++ IOSCAPU PARM LIST
1992	(7C8)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
1993	(7C9)	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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		SPLCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		SPLCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1994	(7CA)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1996	(7CC)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
2000	(7D0)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR
2004	(7D4)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
2005	(7D5)	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
2006	(7D6)	BITSTRING	2	SPLCAPU_XASID	++ XASID
2008	(7D8)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
2008	(7D8)	X'20'	0	SPLCAPUL	"*-SPLCAPU" ++ LENGTH OF PLIST

Comment

IOSCAPU-1

End of Comment

0	(0)	X'608'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'658'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK ARES
0	(0)	X'662'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
0	(0)	X'7E8'	0	SPLTGM	"*" START OF VOLUME TRACK GROUP MAP

$DTESPL Cross Reference

Name	Hex Offset	Hex Value
DTE	0	
M00M0900	0	7C8
SPLABS	6C0	
SPLCAPA	740	
SPLCAPU	7C8	
SPLCAPU_KEYUSED_ASID	7C9	10
SPLCAPU_KEYUSED_CAPTOACT	7C9	20
SPLCAPU_KEYUSED_CAPTPTR	7C9	4
SPLCAPU_KEYUSED_CAPTUCB	7C9	80
SPLCAPU_KEYUSED_UCAPTUCB	7C9	40
SPLCAPU_KEYUSED_UCBPTR	7C9	8
SPLCAPU_XASID	7D6	
SPLCAPU_XCAPTCOM_NEVER	7D5	10
SPLCAPU_XCAPTCOM_YES	7D5	20
SPLCAPU_XCAPTPTR	7D0	
SPLCAPU_XFLAGS1	7C9	
SPLCAPU_XLASTING_YES	7D5	40
SPLCAPU_XMASK	7D5	
SPLCAPU_XMSIFREE_YES	7D5	80
SPLCAPU_XRESERVED1	7CA	
SPLCAPU_XRESERVED2	7D4	
SPLCAPU_XRESERVED3	7D8	
SPLCAPU_XUCBPTR		

Name	Hex Offset	Hex Value
	7CC	
SPLCAPU_XVERSION		
	7C8	
SPLCAPUL	7D8	20
SPLCC	0	662
SPLCCWS	768	
SPLCCW1	768	
SPLCCW2	770	
SPLCCW3	778	
SPLCFLDS	798	
SPLCHAIN	560	
SPLCMLST	5F8	
SPLDCB	6D4	6D8
SPLDDNAM	59A	
SPLDDTA	580	
SPLDDTXT	594	
SPLDEB	70C	
SPLDPTXT	5EE	
SPLDSCB	608	
SPLDSNAM	5A8	
SPLDSNTA	584	
SPLDSPTA	590	
SPLDSTXT	5A2	
SPLDVA	69C	
SPLDYNAL	568	
SPLDYNRB	56C	
SPLECB	6D0	
SPLECBA	564	
SPLFLG1	558	
SPLFLG2	559	
SPLFLG3	55A	
SPLGMAIN	758	
SPLIOB	6D4	
SPLLENG	55C	
SPLMSG	0	608
SPLNMTRK	750	
SPLNOBYM	752	
SPLNORTK	74C	
SPLNOTGP	74E	
SPLNUMTG	754	
SPLOCLEN	79D	4
SPLOCPRM	760	
SPLOPCL	79C	
SPLOWABS	6C0	
SPLOWLIM	6B4	
SPLOWTRK	6C8	
SPLRDCT	780	
SPLRECTK	7A0	
SPLSAVE	510	
SPLSTART	510	510
SPLSTIM	7AC	0
SPLSTIML	7AC	18
SPLSTRCC	6B4	
SPLSTRK	6CC	
SPLTCBPT	744	
SPLTEXT	580	
SPLTGM	0	7E8
SPLTIMEE	790	
SPLTIMES	788	
SPLTKCYL	748	
SPLTKLEN	7AA	C
SPLTRK	6C8	
SPLUCBPT	73C	
SPLUDSPA	588	
SPLUNIT	5E6	
SPLUNITA	58C	
SPLUNTXT	5E0	
SPLUPABS	6C4	
SPLUPLIM	6B8	
SPLUPTRK	6CA	
SPLVLTXT	5D4	
SPLVOLID	5DA	
SPLVOLTA	588	
SPLWCKDL	75C	
SPLWORK	0	658
SPL1ALLO	558	8
SPL1BAD	558	4
SPL1FMT	558	80
SPL1MFMT	558	20
SPL1NFMT	558	40
SPL1PACE	558	1
SPL1UNAL	558	10
SPL1WFMT	558	2
SPL2ABND	559	8
SPL2DVTP	559	4
SPL2EXT	559	2
SPL2FMT	559	40
SPL2OBT	559	80
SPL2RDER	559	20
SPL2SIZE	559	1
SPL2UNAL	559	10
SPL3ECKD	55A	40
SPL3NREL	55A	10
SPL3RDTD	55A	8
SPL3RELT	55A	20
SPL3TGBG	55A	80
SPL3WTRD	55A	4

$DTESUBS Programming Interface Information

Programming Interface Information

$DTESUBS

End of Programming Interface Information

$DTESUBS Heading Information

Common Name: HASPSUBS DTE Work Area Extenstion
Macro ID: $DTESUBS
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: $GETMAIN services (JES2 Private)
Key: 1
Residency: VIRTUAL - anywhere REAL - anywhere
Size: See DSUBLEN
Created by: $DTEDYN ATTACH SUBPOOL: $GETMAIN services (JES2 PRIVATE) KEY = 1
Pointed to by: DSUB origin begins at the DTE work area extension field DTEWORK. The general purpose subtask chain head ($DTEGSUB) is located in the HCT. $DTE's representing non-busy subtasks are chained off the $STQORG in the HCT.
FREQUENCY: The GSUBNUM parameter on the SUBTDEF initialization statement will be maintained in the $STDGSUB field in the HCT. This will contain the number of DSUB work areas required. The default is 10.
Serialization: No special serialization is necessary.
Function: The $DTESUBS DSECT maps the work area extension for the HASPSUBS subtask(s).

$DTESUBS Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPSUBS DTE work area ext
1296	(510)	BITSTRING	1	DSUBFLG1	Flags
		1...		DSUB1NSQ	"B'10000000'" SQD invalid or unavailable
		.1..		DSUB1DEC	"B'01000000'" Subtask count decremented
1297	(511)	BITSTRING	3		Reserved
1300	(514)	ADDRESS	4	DSUBSQD	Address of work SQD
1304	(518)	ADDRESS	4	DSUBNXT	Address of next subtask in chain
1308	(51C)	ADDRESS	4	DSUBSAVE	Address of save area used by called routine

Comment

Subtask VRA and recovery fields.

End of Comment

1312	(520)	ADDRESS	4	DSUBLOC	HA$PSUBS base address
1316	(524)	SIGNED	2	DSUBABND	Subtask abend count
1318	(526)	BITSTRING	2		Reserved
1320	(528)	CHARACTER	8	DSUBRNAM	Routine name
1328	(530)	ADDRESS	4	DSUBCLRA	$SUBIT caller address
1332	(534)	CHARACTER	8	DSUBMOD	$SUBIT caller module name
1340	(53C)	SIGNED	4	DSUBOFF	$SUBIT caller offset
1344	(540)	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1345	(541)	BITSTRING	3		Reserved
1345	(541)	X'34'	0	DSUBLEN	"*-DTEWORK" HASPSUBS work area length

$DTESUBS Cross Reference

Name	Hex Offset	Hex Value
DSUBABND	524	
DSUBCLRA	530	
DSUBFLG1	510	
DSUBFOOT	540	
DSUBFTCL	540	20
DSUBFTPS	540	8
DSUBFTRC	540	10
DSUBFTSQ	540	4
DSUBFTST	540	40
DSUBFTWK	540	80
DSUBFTWT	540	2
DSUBLEN	541	34
DSUBLOC	520	
DSUBMOD	534	
DSUBNXT	518	
DSUBOFF	53C	
DSUBRNAM	528	
DSUBSAVE	51C	
DSUBSQD	514	
DSUB1DEC	510	40
DSUB1NSQ	510	80
DTE	0	

$DTEVTAM Programming Interface Information

Programming Interface Information

$DTEVTAM

End of Programming Interface Information

$DTEVTAM Heading Information

Common Name: HASPVTAM SUBTASK DTE WORK AREA EXTENSION
Macro ID: $DTEVTAM
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: Offset:
Length:
Storage Attributes: Subpool: $GETMAIN SERVICES (JES2 PRIVATE)
Key: 1
Size: SEE DSMFLEN
Created by: $DTEDYN ATTACH
Pointed to by: DVTM ORIGIN BEGINS AT THE DTE WORK AREA EXTENSION FIELD DTEWORK. THE HASPVTAM DTE CHAIN HEAD ($DTEVTM) IS LOCATED IN THE HCT.
Serialization: THIS WORK AREA IS USED SERIALLY BY THE HASPVTAM SUBTASK. NO SPECIAL SERIALIZATION IS NECESSARY.
Function: THIS DSECT MAPS THE ENTIRE WORK AREA EXTENSION FOR HASPVTAM SUBTASK. THE WORK AREAS ARE USED TO PASS PARAMETERS, THAT MUST REMAIN BELOW THE 16M LINE, TO VTAM.

$DTEVTAM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPVTAM DTE WORK AREA EXTENSION
1296	(510)	ADDRESS	1	DVTMPWDL	LENGTH OF NODE PASSWORD
1297	(511)	CHARACTER	8	DVTMPSWD	NODE PASSWORD
1305	(519)	ADDRESS	1	DVTMAPNL	LENGTH OF APPL NAME
1306	(51A)	CHARACTER	8	DVTMAPLN	APPL NAME
1306	(51A)	X'12'	0	DVTMLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEWTO Programming Interface information

Programming Interface information

$DTEWTO

End of Programming Interface information

$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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DTE	HASPCON DTE WORK AREA EXT
1296	(510)	DBL WORD	8	CSA (0)	

Comment

```
-----------------------------------------------------------------
      NOTE: LIST FORM WTO MUST BE FIRST DUE TO
          REDEFINITION OF WORK AREA FOR MGCR.
-----------------------------------------------------------------
-----------------------------------------------------------------
      NORMAL WTO FORMAT
-----------------------------------------------------------------
```

End of Comment

1296	(510)	SIGNED	4	CSAWTOL (0)	
1296	(510)	ADDRESS	2		TEXT LENGTH
1298	(512)	BITSTRING	2		MCSFLAGS
1300	(514)	CHARACTER	53		
1425	(591)	ADDRESS	1		VERSION LEVEL

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
1426	(592)	BITSTRING	1		MISCELLANEOUS FLAGS
1427	(593)	ADDRESS	1		REPLY LENGTH
1428	(594)	ADDRESS	1		LENGTH OF WPX
1429	(595)	BITSTRING	2		EXTENDED MCS FLAGS
1431	(597)	ADDRESS	2		RESERVED
1433	(599)	ADDRESS	4		REPLY BUFFER ADDRESS
1437	(59D)	ADDRESS	4		REPLY ECB ADDRESS
1441	(5A1)	ADDRESS	4		CONNECT ID
1445	(5A5)	BITSTRING	2		DESCRIPTOR CODES
1447	(5A7)	ADDRESS	2		RESERVED
1449	(5A9)	BITSTRING	16		
1465	(5B9)	BITSTRING	2		MESSAGE TYPE
1467	(5BB)	ADDRESS	2		MESSAGE'S PRIORITY
1469	(5BD)	CHARACTER	8		JOB ID
1477	(5C5)	CHARACTER	8		JOB NAME
1485	(5CD)	CHARACTER	8		RETRIEVAL KEY
1493	(5D5)	ADDRESS	4		TOKEN FOR DOM
1497	(5D9)	ADDRESS	4		CONSOLE ID
1501	(5DD)	CHARACTER	8		SYSTEM NAME
1509	(5E5)	CHARACTER	8		CONSOLE NAME
1517	(5ED)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1521	(5F1)	ADDRESS	4		CART ADDRESS
1525	(5F5)	ADDRESS	4		WSPARM ADDRESS
1525	(5F5)	X'5F9'	0	CSAWPXEN	"*" END OF WPX

Comment

Extensions for MLWTO. These must IMMEDIATELY follow
the WPX (generated by the WTO list form)

End of Comment

1529	(5F9)	ADDRESS	2	CSALINET	LINE TYPE FIELD
1531	(5FB)	BITSTRING	1	CSALAREA	AREA ID
1532	(5FC)	BITSTRING	1	CSALNUM	NUMBER OF LINES
1532	(5FC)	X'5FD'	0	CSAMLEND	"*" End of MLWTO extensions

Comment

Map the fields prior to and including the message text

End of Comment

1296	(510)	BITSTRING	4	CSAMCS34 (0)	MCS flags and length
1296	(510)	SIGNED	2	CSAMSGL	MESSAGE LENGTH + 4
1298	(512)	SIGNED	2	CSAMCS	MCS FLAGS
1300	(514)	CHARACTER	125	CSAMSG	TEXT
1300	(514)	X'81'	0	CSASLEN	"*-CSAMSGL" STANDARD WTO LENGTH
1300	(514)	X'591'	0	CSATRAIL	"*" START OF TRAILER FIELDS
1300	(514)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRAIL" Length of WPX plus MLWTO extensions

Comment

ENSURE WORK AREA IS LARGE ENOUGH FOR SVC 34
PARAMETERS.

End of Comment

1425	(591)	CHARACTER	1		ROOM FOR COMMAND UTOKEN
1425	(591)	X'5E1'	0	DWTO34ND	"*" End of SVC 34 work area

$DTEWTO Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					---------- END OF WPL AND MGCR PARAMETER LIST AREA ----------
					End of Comment
1506	(5E2)	ADDRESS	2	(0)	See comment box in macro source for what to do if this stmt has err
1536	(600)	SIGNED	4	(0)	Full word align
1536	(600)	CHARACTER	8	CSAJOBID	Job ID
1544	(608)	BITSTRING	3	CSANFM (0)	SYSTEM ID OF SENDER
1544	(608)	BITSTRING	2		NODE NUMBER
1546	(60A)	BITSTRING	1		NODE QUALIFIER
1547	(60B)	BITSTRING	1		RESERVED
					Comment
					---------- Workarea for HASPCON PCE level service routines ----------
					End of Comment
1548	(60C)	BITSTRING	2	CSARDWRK	LOGICAL ROUTING WORK AREA
1550	(60E)	ADDRESS	1	CSAW (4)	
1566	(61E)	BITSTRING	8		
1566	(61E)	X'2A'	0	CSAWLEN	"*-CSAW"
1592	(638)	BITSTRING	1	DWTOFLG1	Flags
		1...		DWTO1WAT	"B'10000000'" $WAIT tolerated by caller
1600	(640)	DBL WORD	8	(0)	
1600	(640)	X'130'	0	DWTOLEN	"*-DTEWORK" LENGTH OF WORK AREA

$DTEWTO Cross Reference

Name	Hex Offset	Hex Value
CSA	510	
CSAJOBID	600	40404040
CSALAREA	5FB	0
CSALINET	5F9	
CSALNUM	5FC	1
CSALSIZ	514	6C
CSAMCS	512	
CSAMCS34	510	
CSAMLEND	5FC	5FD
CSAMSG	514	
CSAMSGL	510	
CSANFM	608	
CSARDWRK	60C	0
CSASLEN	514	81
CSATRAIL	514	591
CSAW	60E	
CSAWLEN	61E	2A
CSAWPXEN	5F5	5F9
CSAWTOL	510	
DTE	0	
DWTOFLG1	638	
DWTOLEN	640	130
DWTO1WAT	638	80
DWTO34ND	591	5E1

$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 Map

Offsets Dec	Offsets Hex	Type/Value	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
7	(7)	BITSTRING	1	DWAFLAG9	Internal flags
		1...		DWA9QUED	"B'10000000'" DWA was queued

Comment

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.

End of Comment

		.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
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	BITSTRING	4	DWAPARM0	Parameter for register 0
20	(14)	BITSTRING	4	DWAPRMA1	Parameter for AR1
24	(18)	ADDRESS	4	DWARTN	Address of routine
28	(1C)	BITSTRING	4	DWAIMMED	Immediate instruction to executed
32	(20)	ADDRESS	4	DWAPCE	Address of PCE to $POST

$DWA Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	ADDRESS	4	DWACALR	Address of $DILBERT caller (for diagnostic purposes)
40	(28)	SIGNED	4	DWASTCK	Time of $DILBERT call (for diagnostic purposes)
44	(2C)	ADDRESS	4	DWANXTEL	Next DWA for element (side queue pointer)
48	(30)	ADDRESS	4	DWAPRVEL	Previous DWA for element (side queue pointer)
52	(34)	SIGNED	4	DWAORG (0)	Common origin

Comment

Parameters specific to TYPE=JQE

End of Comment

52	(34)	SIGNED	4	DWAJQOFF	JQE Offset
56	(38)	BITSTRING	4	DWAJBKEY	Job Key
60	(3C)	ADDRESS	4	DWAJQA	Address of JQA
64	(40)	SIGNED	4	DWABERTS	BERTs required to process
68	(44)	SIGNED	4	DWABSTCK	TOD last time we tried
72	(48)	ADDRESS	1	DWADOGJ	ACTION
73	(49)	ADDRESS	1	(3)	
76	(4C)	ADDRESS	2		

Comment

End of DWA

End of Comment

80	(50)	DBL WORD	8	(0)	Ensure doubleword size
80	(50)	X'50'	0	DWASIZE	"*-DWA" Length of DWA

$DWA Cross Reference

Name	Hex Offset	Hex Value
DWA	0	
DWABERTS	40	
DWABSTCK	44	
DWACALR	24	
DWADOGJ	48	
DWAEYE	0	
DWAFLAG9	7	
DWAIMMED	1C	
DWAJBKEY	38	
DWAJQA	3C	
DWAJQOFF	34	
DWANEXT	8	
DWANXTEL	2C	
DWAORG	34	
DWAPARM0	10	
DWAPCE	20	
DWAPFLG1	5	
DWAPFLG2	6	
DWAPREV	C	
DWAPRMA1	14	
DWAPRVEL	30	
DWARTN	18	
DWASIZE	50	50
DWASTCK	28	
DWATYPE	4	
DWA9BEND	7	40
DWA9HEAD	7	4
DWA9NBRT	7	20
DWA9PROS	7	10
DWA9QUED	7	80
DWA9SPEC	7	8

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENFPARM	DSECT for ENF parms
0	(0)	SIGNED	4	ENFPENF (0)	START OF ENF PARAMETER LIST
0	(0)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
2	(2)	ADDRESS	2		REQUESTED ENF ACTION
4	(4)	ADDRESS	4		EVENT CODE
8	(8)	ADDRESS	1		FLAG FIELD
9	(9)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
10	(A)	ADDRESS	1		KEY FOR FREEPRM
11	(B)	ADDRESS	1		SUBPOOL FOR FREEPRM
12	(C)	ADDRESS	4		QUALIFIER
16	(10)	ADDRESS	4		EXIT ROUTINE ADDRESS
20	(14)	ADDRESS	4		Address of caller's parameters
24	(18)	ADDRESS	4		TOKEN
28	(1C)	ADDRESS	4		Length of caller's parameters
32	(20)	ADDRESS	2		VERSION OF PARM LIST
34	(22)	ADDRESS	2		RESERVED FIELD
36	(24)	ADDRESS	4		RETURN ADDRESS
40	(28)	CHARACTER	8		ESTABLISHER NAME
48	(30)	CHARACTER	8		LISTEN EXIT NAME
56	(38)	ADDRESS	4		LISTENER NUMBER (RETURNED)
60	(3C)	CHARACTER	4		SPECIAL EXIT RETURN CODE
64	(40)	ADDRESS	4	ENFPPTR	Area for ENFPTR - required by ENFREQ macro
64	(40)	X'44'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

$ENFPARM Cross Reference

Name	Hex Offset	Hex Value
ENFPARM	0	
ENFPENF	0	
ENFPPTR	40	
ENFPSIZE	40	44

$ENFWORK Programming Interface information

Programming Interface information

$ENFWORK

End of Programming Interface information

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	BITSTRING	16	ENNTQE	TQE for deregistration wait
256	(100)	DBL WORD	8	(0)	Force double-word alignment
256	(100)	X'10'	0	ENNPCEWS	"*-PCEWORK" Length of $ENF PCE

$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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
240	(F0)	ADDRESS	4	EOMDTE	Address of our EOMDTE
244	(F4)	BITSTRING	4		Reserved for future use
248	(F8)	DBL WORD	8	(0)	Alignment
248	(F8)	X'8'	0	EOMPCEWL	"*-PCEWORK" Length of misc PCE work area

$ERA Programming Interface information

Programming Interface information

$ERA

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

- ERAPRE

End of Programming Interface information

$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 implicity, 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 Map

Offsets Dec	Offsets Hex	Type/Value	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
Comment					
ERROR LOCATION AND ENVIRONMENT INFORMATION SECTION					
End of Comment					
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
56	(38)	SIGNED	4	ERAESECT (0)	MODMAP-STYLE ENTRY, ERROR CSECT
72	(48)	SIGNED	4	ERAESRGS (3)	REGS 0,1,2 ON ENTRY TO $ABEND

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'48'	0	ERAESRG0	"ERAESRGS,4" REG 0 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERAESRG1	"ERAESRGS+4,4" REG 1 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERASDWA	"ERAESRG1,4,C'A'" ADDRESS OF SDWA
72	(48)	X'50'	0	ERAESRG2	"ERAESRGS+8,4" REG 2 ON ENTRY TO ESTAE ROUTINE
84	(54)	CHARACTER	8	ERAMODN	Mod name for event record
92	(5C)	CHARACTER	8	ERAMODO	Mod offset for event record
100	(64)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
104	(68)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED-OTHERWISE 0
108	(6C)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
112	(70)	ADDRESS	4	ERACPCE	VALUE OF $CURPCE AT TIME OF ERR
116	(74)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA

Comment

$SETRP SECTION - FOLLOWING FIELDS SET BY $SETRP -
DEFAULT VALUES ESTABLISHED IN $RETRY FRONTEND

End of Comment

118	(76)	BITSTRING	1	ERASETRP	OPTION - I.E. RESUME, TERMINATE, OR PERCOLATE
119	(77)	BITSTRING	1		RESERVED
120	(78)	ADDRESS	4	ERARZOOM	ADDRESS OF POINT OF RESUMPTION (FROM RESUME=)

Comment

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 EXECPTION OF R11 (ALWAYS R11), R13 (ALWAYS PCE ADDRESS) AND R15 (ADDRESS OF POINT OF RESUMPTION)

End of Comment

124	(7C)	BITSTRING	64	ERACREGS	COPY OF REGISTER VALUES PLACED IN ERAREGS IN $ABEND, REGARDLESS OF CHANGES TO ERAREGS BY RTNS
188	(BC)	BITSTRING	64	ERAREGS	Register save area
188	(BC)	SIGNED	4	ERAREG0	REGISTER 0
192	(C0)	SIGNED	4	ERAREG1	REGISTER 1
196	(C4)	SIGNED	4	ERAREG2	REGISTER 2
200	(C8)	SIGNED	4	ERAREG3	REGISTER 3
204	(CC)	SIGNED	4	ERAREG4	REGISTER 4
208	(D0)	SIGNED	4	ERAREG5	REGISTER 5
212	(D4)	SIGNED	4	ERAREG6	REGISTER 6
216	(D8)	SIGNED	4	ERAREG7	REGISTER 7
220	(DC)	SIGNED	4	ERAREG8	REGISTER 8
224	(E0)	SIGNED	4	ERAREG9	REGISTER 9
228	(E4)	SIGNED	4	ERAREG10	REGISTER 10
232	(E8)	SIGNED	4	ERAREG11	REGISTER 11
236	(EC)	SIGNED	4	ERAREG12	REGISTER 12
240	(F0)	SIGNED	4	ERAREG13	REGISTER 13
244	(F4)	SIGNED	4	ERAREG14	REGISTER 14
248	(F8)	SIGNED	4	ERAREG15	REGISTER 15
252	(FC)	BITSTRING	64	ERAAREGS	Copy of access registers at time of error. These are NOT restored if we resume.
316	(13C)	BITSTRING	8	ERAPSW	Last JES2 related PSW

$ERA Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
324	(144)	BITSTRING	1	ERAINCD	Interupt code (second byte)
325	(145)	BITSTRING	1	ERAILC	Instruction length count
326	(146)	BITSTRING	2		Reserved
328	(148)	ADDRESS	4	ERATEA	Translation exception addr
332	(14C)	ADDRESS	4	ERAREGRB	RB that contains JES2 regs (points to RB prefix)
336	(150)	BITSTRING	12		Reserved for future use
348	(15C)	SIGNED	4	(0)	ROUND TO FULLWORD
348	(15C)	X'15C'	0	ERALENG	"*-ERA" LENGTH (ROUNDED TO FULLWORD)

Comment

ERAFLAGS BIT DEFINITIONS

End of Comment

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

Comment

ERASETRP BIT DEFINITIONS

End of Comment

1...	ERATRPTM	"X'80'" TERMINATE
.1..	ERATRPPC	"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

$ERA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ERA	0		ERAILC	145	
ERAAREGS	FC		ERAINCD	144	
ERAARMOD	15C	8	ERAJLMOD	18	
ERACODE	10		ERALENG	15C	15C
ERACPCE	70		ERAMODN	54	
ERACREGS	7C		ERAMODO	5C	
ERACSAM	15C	10	ERAPRE	64	
ERADOMID	8		ERAPRECT	74	
ERAELMOD	28		ERAPREV	68	
ERAEMERG	15C	80	ERAPSVAD	6C	
ERAERAID	0	C5D9C140	ERAPSW	13C	
ERAERAVN	4		ERAREGRB	14C	
ERAERPL	C		ERAREGS	BC	
ERAESECT	38		ERAREG0	BC	
ERAESRGS	48		ERAREG1	C0	
ERAESRG0	48	48	ERAREG10	E4	
ERAESRG1	48	4C	ERAREG11	E8	
ERAESRG2	48	50	ERAREG12	EC	
ERAFADDR	14		ERAREG13	F0	
ERAFLAGS	5		ERAREG14	F4	
ERAFRBLC	15C	20	ERAREG15	F8	
ERAHVRGS	15C	10	ERAREG2	C4	

Name	Hex Offset	Hex Value
ERAREG3	C8	
ERAREG4	CC	
ERAREG5	D0	
ERAREG6	D4	
ERAREG7	D8	
ERAREG8	DC	
ERAREG9	E0	
ERARSVF6	15C	2
ERARSVF7	15C	1
ERARZOOM	78	
ERASDWA	48	4C
ERASETRP	76	
ERAS1J2M	15C	4
ERATEA	148	
ERATRPPC	15C	40
ERATRPRE	15C	20
ERATRPR0	15C	8
ERATRPR1	15C	4
ERATRPR2	15C	2
ERATRPR3	15C	1
ERATRPTM	15C	80
ERAVN	0	0
ERAXMS	15C	40

$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 assocated 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 ABNED. 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 Map

Offsets					
Dec	Hex	Type/Value	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

$ERPL Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	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.		ERPLDMAS	"X'02'" Dump all MAS members

Comment

The next two fields must be in this order

End of Comment

21	(15)	SIGNED	1	ERPLTXTL	LENGTH OF TEXT IF ANY, ELSE UNUSED
22	(16)	ADDRESS	4	ERPLTEXT	ADDR. OF ERPL CONTAINING TEXT, OR TEXT, DEPENDING ON ERPLTXTF (NO ALIGNMENT IS INTENTIONAL)

Comment

The next field is only here if ERPLRVO is on. If ERPLTEXT contains text, this field, if specified, immediately follows that text.

End of Comment

26	(1A)	CHARACTER	8	ERPLRCVO	RECVOPTS to use in recovery
26	(1A)	X'22'	0	ERPLLENG	"*-ERPL" LENGTH OF ERPL

Offsets Dec	Offsets Hex	Type/Value	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

$ERPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DISDMPL	0		ERPLTXTL	15	
DISSYM	1B				
DISTEXT	1				
DISTITLE	0				
DISTLEN	1B	22			
ERPL	0				
ERPLCODE	0				
ERPLDIS	14	8			
ERPLDMAS	14	2			
ERPLFLAG	14				
ERPLLENG	1A	22			
ERPLMOD	4				
ERPLRCVO	1A				
ERPLRIPL	14	20			
ERPLRVO	14	4			
ERPLSEQ	C				
ERPLTERM	14	40			
ERPLTEXT	16				
ERPLTREG	14	10			
ERPLTXTF	14	80			

$EVT Programming Interface information

Programming Interface information

$EVT

End of Programming Interface information

$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: 231
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in ECSA.
Size: See EVTLEN
Created by: HASCENF
Pointed to by: CCTENFLF field of the $HCCT data area for the LIFO stack of EVTs queued by HASCENF
CCTENFFF field of the $HCCT data area for the FIFO queue of EVTs reordered by the Event processor in HASPMISC
EVTNEXT field of the $EVT data area for EVTs on the LIFO or FIFO queue
Serialization: -The EVTs on the LIFO stack (CCTEVTLF) are serialized using compare-and-swap.
-The EVTs on the FIFO queue (CCTEVTFF) are not serialized since they are referred to only by the JES2 main task.
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 Map

Offsets					
Dec	**Hex**	**Type/Value**	**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)	CHARACTER	1		Reserved
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	EVT42	"8" Event type 42 - SRMENF15
6	(6)	X'C'	0	EVT56	"12" Event type 56 - reset job
6	(6)	X'10'	0	EVT57CM	"16" Event type 57 - command
6	(6)	X'14'	0	EVT57RV	"20" Event type 57 - recovery
8	(8)	ADDRESS	4	EVTNEXT	Next EVT on queue

Comment

Event parameters as passed to LISTEN exit

End of Comment

16	(10)	DBL WORD	8	EVTPARMS (0)	Event Parameters
16	(10)	CHARACTER	4		Event 41 parameters
16	(10)	CHARACTER	4		Event 42 parameters
16	(10)	CHARACTER	84		Event 56 parameters
16	(10)	CHARACTER	48		Event 57 parameters

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
100	(64)	X'54'	0	EVTPARML	"*-EVTPARMS" Length of largest parms
104	(68)	DBL WORD	8	(0)	Round length to double word
104	(68)	X'68'	0	EVTLENG	"*-EVT" EVT Length

$EVT Cross Reference

Name	Hex Offset	Hex Value
EVT	0	
EVTCURVN	4	1
EVTID	0	
EVTLENG	68	68
EVTNEXT	8	
EVTPARML	64	54
EVTPARMS	10	
EVTTYPE	6	
EVTVRSN	4	
EVT41CP	6	4
EVT41GL	6	0
EVT42	6	8
EVT56	6	C
EVT57CM	6	10
EVT57RV	6	14

Appendix A. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size.

Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer* and *z/OS ISPF User's Guide Volume I* for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

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Data Area Name

End of Product-Sensitive Programming Interface

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Since a *data area name* that is designated as part of the programming interface is one of the following:

- MACRO ID
- DSECT NAME
- commonly-used name

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- data type
- field length
- description (purpose or allowed values)

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