

z/OS



JES2 Data Areas Volume 1

z/OS



JES2 Data Areas Volume 1

Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 337.

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This edition applies to Version 1 Release 13 of z/OS (5694-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this information

This information is a graphic presentation of many data areas used by the z/OS operating system and by application programs. The data areas are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This information supports z/OS (5694-A01).

Who should use this information

This information 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 information should have a working knowledge of the functions and logic of the operating system.

How to use this information

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

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

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 DSECT (dummy control section) 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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/Value	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
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 10 fields, the 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	Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit.

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

Name	Hex Offset	Hex Value
ANYBIT	F0	80

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

240	(F0)	FIXED	4	ANYWORD	CONTROL WORD
240	(F0)	BITSTRING	1	ANYBYTE	FLAG BYTE
		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.

Programming interface information

This document contains information NOT intended to be used as programming interfaces of z/OS.

This document also contains intended programming interfaces that allow the customer to write programs to obtain the services of z/OS.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

Programming Interface information
End of Programming Interface information

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** and **DSECT NAME(S)** in the header are part of the programming interface. **ALL** other header information is included for diagnostic purposes **ONLY**.

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

before including the *data area name* in a program, refer to the data area header for the applicable **MACRO ID**.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within the data area.

For data areas classified as programming interfaces, "RESERVED FOR USER" fields are part of the interface; all other "**RESERVED ...**" fields are **NOT** part of the interface.

For a field that is part of the programming interface, the only information that is part of the interface for writing programs is:

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

INCLUDE ONLY data area: **ONLY** the MACRO ID is the programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

TOKEN ONLY data area: **ONLY** the address of the data area is a programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

\$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	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	ALIASDS	Address space 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.
104	(68)	CHARACTER	8	ALINAT	Nodes Attached Table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
120	(78)	CHARACTER	8	ALINIT	Nodes Information Table
136	(88)	CHARACTER	8	ALIPCL	Persistent connection
152	(98)	CHARACTER	8	ALITBUF	TCP/IP comm buffers
168	(A8)	CHARACTER	8	ALIWTO	SJBLOGQH S35Ds
184	(B8)	CHARACTER	8	ALIQRB	JQE request blocks
184	(B8)	X'CO'	0	ALISTEND	"*-ALISTART" Size of the pre-defined ALETs
184	(B8)	X'C'	0	ALISTNUM	"ALISTEND/ALIELEN" Number of pre-defined ALETs
184	(B8)	X'C8'	0	ALISTD	"*-ALINDEX" Size of all pre-defined ALETs
200	(C8)	SIGNED	4	ALIWSTRT (0)	Start of dynamic ALETs
200	(C8)	BITSTRING	0	ALIWORK (0)	Dynamic ALET area
200	(C8)	X'F30'	0	ALIWLLEN	"*-ALIWSTRT" Size of the dynamic ALET area
200	(C8)	X'FF'	0	ALINUMEN	"(*-ALISTART)/ALIELEN" Total number of entries
200	(C8)	X'1000'	0	ALILEN	"4096" Size of the ALINDEX table

\$ALINDEX Cross Reference

Name	Hex Offset	Hex Value
ALIASDS	18	C1E2C4E2
ALICKVR	28	C3D2E5D9
ALIEALET	8	8
ALIEFCOM	8	80
ALIEFLAG	8	C
ALIELEN	8	10
ALIENAME	8	0
ALIID	0	C1D3C9E7
ALIQRB	B8	D1D8D9C2
ALILEN	C8	1000
ALINAT	68	D5C1E340
ALINDEX	0	
ALINIT	78	D5C9E340
ALINUMEN	C8	FF
ALIPCL	88	D7C3D340
ALIPSO	38	D7E2D640
ALISAPID	8	E2C1D7C9
ALISTAC	48	E2E3C1C3
ALISTART	8	
ALISTD	B8	C8
ALISTEND	B8	C0
ALISTNUM	B8	C
ALITBUF	98	E3C2E4C6
ALITJEV	58	E3D1C5E5
ALIVNUM	4	1
ALIVRSN	4	
ALIWLLEN	C8	F30
ALIWORK	C8	
ALIWSTRT	C8	
ALIWTO	A8	E6E3D640

\$ALIWORK Heading Information

Common Name: JES2 ALICE Processor
Macro ID: \$ALIWORK
DSECT Name: PCE (\$ALIWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

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

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

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

Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 ALICE Processor and by its support routines and exits. \$DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$ALIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEALIID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

\$ALIWORK Map

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

\$ALIWORK Map

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

\$APT Cross Reference

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

\$APT Cross Reference

\$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	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

\$ARMG Cross Reference

\$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	ARMTEFL1	JQEFLAG1
7	(7)	BITSTRING	1	ARMTEFL1	JQEFLAG1
8	(8)	BITSTRING	1	ARMTEDEV	JQEDEVID
9	(9)	BITSTRING	1	ARMTEAID	JQEARMID
Comment					
Miscellaneous fields					
End of Comment					
10	(A)	BITSTRING	1	ARMTEFL1	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

\$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	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	296		Warm PCE fields
608	(260)	ADDRESS	4	ARMMTRB	Active main task request block
612	(264)	ADDRESS	4	ARMSSPJ	SSOB extension from active request
616	(268)	SIGNED	4	ARMLINES	LINES counter
620	(26C)	SIGNED	4	ARMPUNCH	PUNCH counter
624	(270)	SIGNED	4	ARMXOUT	Records counter
628	(274)	SIGNED	4	ARMPAGES	PAGES counter
632	(278)	SIGNED	4	ARMBYTES	BYTES counter
636	(27C)	SIGNED	4	ARMSKEY	DS key of last PDDB counted
640	(280)	ADDRESS	4	ARMSQD	SQD for \$SUBIT
644	(284)	ADDRESS	4	ARMQYJQE	JQE whose registration is currently being verified
648	(288)	BITSTRING	4	ARMSAF	System affinity work area
652	(28C)	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
653	(28D)	BITSTRING	1	ARMFLAG2	Serialized flag byte UPDATE USING OIL/NIL
		1...		ARM2MAIL	"B'10000000" Messages have arrived
654	(28E)	BITSTRING	2	ARMRSV1	Reserved for future use
656	(290)	SIGNED	4	ARMMSGA	XCF message address
660	(294)	SIGNED	4	ARMMSGL	XCF message length

\$ARMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
664	(298)	BITSTRING	8	ARMMSGTK	XCF message token
672	(2A0)	BITSTRING	64	ARMCTRAC	Current trace 26 record
736	(2E0)	BITSTRING	1	ARMPTRAC	Previous trace 26 record
Comment					
List form macros					
End of Comment					
800	(320)	DBL WORD	8	(0)	
800	(320)	BITSTRING	160	ARMLSTFM	List form macros
960	(3C0)	CHARACTER	1	ARMLSEND (0)	End of list form area
Comment					
MACDATE -93/05/10-<1>					
End of Comment					
800	(320)	SIGNED	2	M00M0979 (0)	IXZXIXMB-1
800	(320)	DBL WORD	8	ARMIXMB (0)	++ IXZXIXMB PARM LIST
800	(320)	BITSTRING	1	ARMIXMB_XVERSION	++ INPUT XVERSION
801	(321)	CHARACTER	6	ARMIXMB_XEYECATCH	++ CONSTANT XEYECATCH
807	(327)	CHARACTER	1	ARMIXMB_XRSV0001	++ RESERVED XRSV0001
808	(328)	CHARACTER	16	ARMIXMB_XMBOXNAME	++ XMBOXNAME
824	(338)	ADDRESS	4	ARMIXMB_XPOSTXIT	++ XPOSTXIT
828	(33C)	ADDRESS	4	ARMIXMB_XPOSTDATA	++ XPOSTDATA
832	(340)	SIGNED	4	ARMIXMB_XPOSTALET	++ XPOSTALET
836	(344)	SIGNED	4	ARMIXMB_XGROUPTOKEN	++ XGROUPTOKEN
840	(348)	BITSTRING	1	ARMIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ARMIXMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1..		ARMIXMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
840	(348)	X'29'	0	ARMIXMBL	"*-ARMIXMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
842	(34A)	ADDRESS	2	(0)	Ensure area fits
Comment					
MACDATE -93/05/10-<1>					
End of Comment					
800	(320)	SIGNED	2	M00M0981 (0)	IXZXIXRM-1
800	(320)	DBL WORD	8	ARMIXRM (0)	++ IXZXIXRM PARM LIST
800	(320)	BITSTRING	1	ARMIXRM_XVERSION	++ INPUT XVERSION
801	(321)	CHARACTER	6	ARMIXRM_XEYECATCH	++ CONSTANT XEYECATCH
807	(327)	CHARACTER	1	ARMIXRM_XRSV0001	++ RESERVED XRSV0001

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
808	(328)	CHARACTER	16	ARMIXRM_XMBOXNAME	++ XMBOXNAME
824	(338)	ADDRESS	4	ARMIXRM_XDATA	++ XDATA
828	(33C)	SIGNED	4	ARMIXRM_XDATALEN	++ XDATALEN
832	(340)	BITSTRING	8	ARMIXRM_XMSGTOKEN	++ XMSGTOKEN
840	(348)	SIGNED	4	ARMIXRM_XGROUPTOKEN	++ XGROUPTOKEN
844	(34C)	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
845	(34D)	BITSTRING	1	ARMIXRM_XKEYS	++ FIELD_LABEL
		1...		ARMIXRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD
845	(34D)	X'2E'	0	ARMIXRML	** -ARMIXRM" ++ LENGTH OF PLIST

Comment

IXZXIXRM-1

End of Comment

846	(34E)	ADDRESS	2	(0)	Ensure area fits
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Comment

MACDATE -11/12/03-<1>

End of Comment

0	(0)	X'320'	0	M00M0982	"ARMIXAC" ++ IXZXIXAC NAME
800	(320)	DBL WORD	8	ARMIXAC (0)	++ IXZXIXAC PARM LIST
800	(320)	BITSTRING	1	ARMIXAC_XVERSION	++ INPUT XVERSION
801	(321)	CHARACTER	6	ARMIXAC_XEYECATCH	++ CONSTANT XEYECATCH
807	(327)	BITSTRING	1	ARMIXAC_XSTB	++ INPUT
		1...		ARMIXAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		ARMIXAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
808	(328)	BITSTRING	8	ARMIXAC_XMSGTOKEN	++ XMSGTOKEN
816	(330)	ADDRESS	4	ARMIXAC_XDATA	++ XDATA
820	(334)	SIGNED	4	ARMIXAC_XDATALEN	++ XDATALEN
824	(338)	SIGNED	4	ARMIXAC_XUSERRC	++ XUSERRC
828	(33C)	SIGNED	4	ARMIXAC_XGROUPTOKEN	++ XGROUPTOKEN
832	(340)	SIGNED	4	ARMIXAC_XSYSRC	++ XSYSRC
836	(344)	SIGNED	4	ARMIXAC_XSYSRSN	++ XSYSRSN
840	(348)	BITSTRING	1	ARMIXAC_XKEYS	

\$ARMWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		ARMIXAC_KEYUSED_DATA	++ FIELD_LABEL "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
841	(349)	BITSTRING	1	ARMIXAC_XMSGATTR	++ INPUT
		1...		ARMIXAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ARMIXAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
841	(349)	X'2A'	0	ARMIXACL	"*-ARMIXAC" ++ LENGTH OF PLIST
Comment					
IXZXIAC-1					
End of Comment					
842	(34A)	ADDRESS	2	(0)	Ensure area fits
960	(3C0)	X'288'	0	ARMPCEWS	"*-PCEWORK" ARM PCE work area length

\$ARMWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ARMBYTES	278			328	
ARMCTRAC	2A0		ARMIXAC_XSTB	327	
ARMDSKEY	27C		ARMIXAC_XSTB_NO		
ARMFLAG1	28C		ARMIXAC_XSTB_YES	327	80
ARMFLAG2	28D		ARMIXAC_XSYSRC	327	40
ARMIXAC	320		ARMIXAC_XSYSRSN	340	
ARMIXAC_KEYUSED_DATA	348	80	ARMIXAC_XUSERRC	344	
ARMIXAC_KEYUSED_DATALEN	348	40	ARMIXAC_XVERSION	338	
ARMIXAC_KEYUSED_SYSRC	348	10	ARMIXAC_XKEYS	320	
ARMIXAC_KEYUSED_SYSRSN	348	8	ARMIXACL	349	2A
ARMIXAC_KEYUSED_USERRC	348	20	ARMIXMB	320	
ARMIXAC_XDATA	330		ARMIXMB_XEYECATCH	321	
ARMIXAC_XDATALEN	334		ARMIXMB_XGROUPTOKEN	344	
ARMIXAC_XEYECATCH	321		ARMIXMB_XMBOXNAME	328	
ARMIXAC_XGROUPTOKEN	33C		ARMIXMB_XPOSTALET	340	
ARMIXAC_XKEYS	348		ARMIXMB_XPOSTDATA	33C	
ARMIXAC_XMSGATTR	349		ARMIXMB_XPOSTXIT	338	
ARMIXAC_XMSGATTR_EXPRESS	349	40	ARMIXMB_XRSV0001	327	
ARMIXAC_XMSGATTR_J3CONNECT	349	80	ARMIXMB_XSYSEVENT_NO	348	40
ARMIXAC_XMSGTOKEN			ARMIXMB_XSYSEVENT_YES		

Name	Hex Offset	Hex Value
	348	80
ARMIXMB_XSYSEVENTS	348	
ARMIXMB_XVERSION	320	
ARMIXMBL	348	29
ARMIXRM	320	
ARMIXRM_KEYUSED_MSGFETCH	34D	80
ARMIXRM_XDATA	338	
ARMIXRM_XDATALEN	33C	
ARMIXRM_XEYECATCH	321	
ARMIXRM_XGROUPTOKEN	348	
ARMIXRM_XKEYS	34D	
ARMIXRM_XMBOXNAME	328	
ARMIXRM_XMSGFETCH	34C	
ARMIXRM_XMSGFETCH_ACKS	34C	10
ARMIXRM_XMSGFETCH_ALL	34C	80
ARMIXRM_XMSGFETCH_MESSAGES	34C	40
ARMIXRM_XMSGFETCH_SYSEVENT	34C	20
ARMIXRM_XMSGTOKEN	340	
ARMIXRM_XRSV0001	327	
ARMIXRM_XVERSION	320	
ARMIXRML	34D	2E
ARMLINES	268	
ARMLSEND	3C0	
ARMLSTFM	320	
ARMMSGGA	290	
ARMMSGGL	294	
ARMMSGTK	298	
ARMMTRB	260	
ARMPAGES	274	
ARMPCEWS	3C0	288
ARMPTRAC	2E0	
ARMPUNCH	26C	
ARMQYJQE	284	
ARMRSV1	28E	
ARMSAF	288	
ARMSQD	280	
ARMSSPJ	264	
ARMXOUT	270	
ARM1ACTV	28C	80
ARM1INVQ	28C	10
ARM1JLOK	28C	40
ARM1WARM	28C	20
ARM2MAIL	28D	80
M00M0979	320	
M00M0981	320	
M00M0982	0	320
PCE	0	

\$ARMWORK Cross Reference

\$ASDS Heading Information

Common Name: Address Space Data Space dsect
Macro ID: \$ASDS
DSECT Name: ASDS
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JES2ASDS'
 Offset: ASDSEYEC
 Length: L'ASDSEYEC

Storage Attributes: Subpool: 0
 Key: 1
 Residency: Created via \$DSPSERV CREATE SCOPE=ALL. In the JES2ASDS data space.

Size: See the ASDSLLEN equate for the ASDS DSECT and the ASDSELEN equate for the ASDSENT DSECT.

Created by: The Address Space Data Space is created toward the end of initialization in module HASPIRMA routine IRFINAL. The ASDS DSECT is initialized at that time. An entry is created in the ASDS array every time an address space is started. The entry is described by the ASDSENT DSECT.

Pointed to by: The CCTASDS field of the \$HCCT data area in CSA is the base pointer to first entry in the data space. Each address space can get an ALET to the data space using the \$ALESERV ADD service for NAME=ASDS. CCTASDS-ASDSLLEN gives a pointer to the header data. CCTASDS+ASDSELEN updates the pointer to the next entry.

Serialization: JES2 main task serialization for creating and removing ASDS entries. Some fields are updated in the user environment, but those are not updated by the JES2 main task.
 Read the NOTES section for further information.

Function: The Address Space Data Space entry will contain shadowed information about jobs going into execution phase. This information will be used by SSIs to extract information about jobs instead of accessing the job's SJB, which can be a volatile control block.

\$ASDS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ASDS	HASP Address Space Data Space DSECT
0	(0)	CHARACTER	8	ASDSEYEC	IRMA.ASDS Eyecatcher-set to unique data space name
8	(8)	ADDRESS	4	ASDSSTRT	IRMA.Origin of ASDS data space
12	(C)	ADDRESS	4	ASDSDSB	IRMA.Address of CSA DSB
16	(10)	SIGNED	4	ASDSHIGH	JXQ/UJB.Highest ASID used in ASDS. Full word required for Compare & Swap updt
20	(14)	SIGNED	2	ASDSJ2IH	JXQ.JES2 Initiator Chain Head
22	(16)	SIGNED	2	ASDSJ2IT	JXQ.JES2 Initiator Chain Tail
24	(18)	SIGNED	2	ASDSWLMH	JXQ.WLM Initiator Chain Head
26	(1A)	SIGNED	2	ASDSWLMT	JXQ.WLM Initiator Chain Tail
28	(1C)	SIGNED	2	ASDSSTCH	JXQ.Started Task Chain Head
30	(1E)	SIGNED	2	ASDSSTCT	JXQ.Started Task Chain Tail

\$ASDS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	SIGNED	2	ASDSTSUH	JXQ.TSO Job Chain Head
34	(22)	SIGNED	2	ASDSTSUT	JXQ.TSO Job Chain Tail
36	(24)	SIGNED	2	ASDSRQJH	JXQ.Request Job ID Chain Head
38	(26)	SIGNED	2	ASDSRQJT	JXQ.Request Job ID Chain Tail
40	(28)	SIGNED	2	ASDSOTHH	JXQ.Uncategorized A/S Chain Hd
42	(2A)	SIGNED	2	ASDSOTHT	JXQ.Uncategorized A/S Chain TL
44	(2C)	BITSTRING	4		Reserved
48	(30)	SIGNED	4	(0)	Align on word boundary
48	(30)	X'30'	0	ASDSLEN	"*-ASDS" ASDS header length

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ASDSENT	HASP ASDS Entry DSECT
0	(0)	SIGNED	2	ASEASID	JXQ.ASID of address space
2	(2)	SIGNED	2	ASENEXT	JXQ.Next ASDS entry of this address space type
4	(4)	SIGNED	2	ASEPREV	JXQ.Previous ASDS entry of this address space type
6	(6)	BITSTRING	1	ASEFLAG1	Flag indicator
		1...		ASE1J2I	"B'10000000" JXQ.JES2 Initiator
		.1..		ASE1WLMI	"B'01000000" JXQ.WLM Initiator
		..1.		ASE1STC	"B'00100000" JXQ.STC (not JES2 initiator, Req Job ID)
		...1		ASE1TSO	"B'00010000" JXQ.Entry for TSO user
		.... 1...		ASE1RQJ	"B'00001000" JXQ.Request Job ID
		.... .1..		ASE1OTHR	"B'00000100" JXQ.Uncategorized addr sp
		.... ..1.		ASE1AJOB	"B'00000010" JXQ.Active job in addr sp
		.... ...1		ASE1GONE	"B'00000001" JXQ.Addr space terminated
		.... ....		ASE1NOTU	"B'00000000" JXQ.ASDS entry not used b4
7	(7)	BITSTRING	1		Reserved
8	(8)	BITSTRING	8	ASEASCBT	JXQ.Address space token
16	(10)	CHARACTER	8	ASEAJBID	JXQ.Address space job ID (for STC, TSU and INIT jobid)

Comment

Job fields

End of Comment

24	(18)	CHARACTER	8	ASEJCLAS	JXQ.Batch job's job class
32	(20)	CHARACTER	8	ASEJOBNM	JXQ.Batch job name
40	(28)	CHARACTER	8	ASEJOBID	JXQ.Batch job ID
48	(30)	CHARACTER	8	ASEUSRID	UJB.Batch job user ID
56	(38)	CHARACTER	8	ASESECLB	UJB.Batch job security lbl
64	(40)	CHARACTER	8	ASEWSCN	JXQ.Batch job service class
72	(48)	ADDRESS	4	ASECSCB	UJB.Address of CSCB (in common storage)

Comment

Initiator fields

End of Comment

76	(4C)	ADDRESS	4	ASIPIT	JXQ.Addr of JES2 Init PIT (in common storage)
80	(50)	CHARACTER	8	ASIWSCNO	JXQ.WLM Initiator service class
88	(58)	BITSTRING	1	ASIWLMIS	JXQ.WLM Initiator Status
		1...		ASIWLMIA	"B'10000000" WLM Initiator Active
		.1..		ASIWLMII	"B'01000000" WLM Initiator Inact (selecting job)

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

Comment					

<p>The following two settings are used to request state changes for WLM Initiators and are not a status setting found in field ASIWLMI (but the settings cannot conflict with other ASIWLMI status values).</p>					

End of Comment					
		.... ..1.		ASIWLMI	"B'00000010" Initialize/create WLM Initiator ASDS ent
		.... ..1		ASIWLMI	"B'00000001" Destroy/remove WLM Initiator ASDS ent
89	(59)	BITSTRING	7		Reserved
89	(59)	X'60'	0	ASDSELEN	**"-ASDSENT" ASDS entry length
96	(60)	ADDRESS	2	(0)	Ensure header length less than entry length

\$ASDS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASDS	0		ASIPIT	4C	
ASDSDSB	C		ASIWLMI	58	1
ASDSELEN	59	60	ASIWLMI	58	80
ASDSENT	0		ASIWLMI	58	40
ASDSEYEC	0	D1C5E2F2	ASIWLMI	58	2
ASDSHIGH	10		ASIWSCNO	50	
ASDSJ2IH	14				
ASDSJ2IT	16				
ASDSLEN	30	30			
ASDSOTHH	28				
ASDSOTHT	2A				
ASDSRQJH	24				
ASDSRQJT	26				
ASDSSTCH	1C				
ASDSSTCT	1E				
ASDSSTRT	8				
ASDSTSUH	20				
ASDSTSUT	22				
ASDSWLMH	18				
ASDSWLMT	1A				
ASEAJBID	10				
ASEASCBT	8				
ASEASID	0				
ASECSCB	48				
ASEFLAG1	6				
ASEJCLAS	18				
ASEJOBID	28				
ASEJOBNM	20				
ASENEXT	2				
ASEPREV	4				
ASESECLB	38				
ASEUSRID	30				
ASEWSCN	40				
ASE1AJOB	6	2			
ASE1GONE	6	1			
ASE1J2I	6	80			
ASE1NOTU	6	0			
ASE1OTHR	6	4			
ASE1RQJ	6	8			
ASE1STC	6	20			
ASE1TSO	6	10			
ASE1WLMI	6	40			

\$ASSTTAB Heading Information

Common Name: Migration assistant table
Macro ID: \$ASSTTAB
DSECT Name: ASSTTAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'ASST'
 Offset: ASSTAB-ASST
 Length: 4

Storage Attributes: Subpool: 0 for the JES2 main copy;
 Key: 1
 Residency: Virtual is in 31 bit storage in the JES2 address space. There are no restrictions on real storage. This line deleted by APAR OA36180 This line deleted by APAR OA36180 This line deleted by APAR OA36180 This line deleted by APAR OA36180

Size: See ASSTTSZ
Created by: Source DAS migration phase DAS7PHAS = DAS7SET1.
Pointed to by: ASSTABLE field of the \$DTEASST data area
Serialization: Each field is set either by SPOL PCE or migration assistant subtask. See fields for further definition.

Function: The ASSTTAB is owned by a migration assistant subtask. There are 253 entries in the table. Each entry may represent an active spool migration Source -> Target. An entry is actively in use if the source valid is set within the entry.

\$ASSTTAB Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	ASSTTAB	Migartion table entry
0	(0)	CHARACTER	4	ASSTID	Table ID -> ASST
Comment					

ASSMIGRA, ASSVOLID set at \$ASSTTAB initialization					

End of Comment					
4	(4)	BITSTRING	1	ASSMIGRA	Migration specifc info
		1...		ASSMOVE	"B'10000000" Migration is a move
		.1..		ASSMERGE	"B'01000000" Migration is a merge
		..1.		ASSATTH	"B'00100000" Assistant attached unique JES XCF group
		...1		ASSRECV	"B'00010000" \$ASSTTAB created under ASSISTANT or or FULL-RECOVERY
5	(5)	CHARACTER	6	ASSVOLID	Source volser. If set - then denotes entry inuse.
11	(B)	BITSTRING	1	ASSCOMPL	Migration percent complete

\$ASSTTAB Map

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

Source DAS information: (Used for dataset deallocation).					
State captured early on in phase - DAS7SET1 on call to \$ASSTTAB initialization.					
This information will be used at the end of migration to deallocate each member from the original source dataset. This allows the customer to roll the DASD out at migration end.					

End of Comment					
12	(C)	BITSTRING	1	ASSSRCST	Source dataset info
16	(10)	SIGNED	4	(0)	Alignment
16	(10)	BITSTRING	32	ASSENQTK	ISGENQ token
48	(30)	ADDRESS	4	ASSUCBPT	UCB address
52	(34)	ADDRESS	4	ASSSRDAS	Source DAS address
56	(38)	CHARACTER	8	ASSGROUP	Note: migration XCF group name. Note: XX is source DASEXTNO.
64	(40)	CHARACTER	16	ASSMEMNM	Member name - used for attach of XCF group
80	(50)	SIGNED	4	ASJDIAG	JESXCF service diag area
84	(54)	ADDRESS	4	ASSTOKEN	JESXCF group token to use when sending to MG\$VOLSER
88	(58)	BITSTRING	8	ASSRESV	Reserved
96	(60)	BITSTRING	1	ASSSREXT	Extent number of source
Comment					
END source DAS information:					
Target volume dataset information					

End of Comment					
97	(61)	BITSTRING	32	ASSTNQTK	ISGENQ token - Only move
129	(81)	BITSTRING	64	ASSTRPS	RPS Table for this device Move and merge
Comment					

The following fields are valid for both move and merge. ASSTDEBE, ASSTKCYL, ASSTEXTN, ASSTFLG1, ASSTNRTK, ASSTSTRT					

End of Comment					
193	(C1)	BITSTRING	19	ASSTDEBE	DEB extent for this volume
212	(D4)	SIGNED	4	ASSTKCYL	Tracks per cylinder
216	(D8)	BITSTRING	1	ASSTEXTN	Extent number of target
217	(D9)	BITSTRING	1	ASSTFLG1	Target flag byte
		1... ..		ASST1RPS	"B'10000000" RPS supported
218	(DA)	SIGNED	2	ASSTNRTK	Number of records per track
220	(DC)	SIGNED	4	ASSTSTRT	Start track of data set
Comment					

Both ASSTRACS and ASSTBITB are set at ASSTTAB init called from DADMSET1.					

End of Comment					
224	(E0)	SIGNED	4	ASSTRACS	Number of tracks represented by track bitmap.
232	(E8)	ADDRESS	8	ASSTBITB	Address of bitmap in 64 bit common storage

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
END target DAS information: Miscellaneous information:					
End of Comment					
240	(F0)	ADDRESS	1	ASSMIGTR	Migrator ID to be used when ACKING a migrator request
Comment					
TLBM information					
End of Comment					
244	(F4)	SIGNED	4	ASSTLBM	Relative track at which the TLBM starts on target volume.
248	(F8)	SIGNED	4	ASRECORD	Number of records consumed by TLBM
252	(FC)	BITSTRING	1	ASTLBM	TLBM state
		1...		ASTLBMWR	"B'10000000" TLBM has been written to target dataset
Comment					
End TLBM information					
End of Comment					
253	(FD)	CHARACTER	10		QWORD alignment
272	(110)		16	(0)	Quadword alignment
272	(110)	X'110'	0	ASSENTLN	"*-ASSTAB" Length of table entry
272	(110)	X'10CD0'	0	ASSTABSZ	"ASSENTLN*253" Table length

\$ASSTAB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASJDIAG	50		ASSTAB	0	
ASRECORD	F8		ASST1RPS	D9	80
ASSATTH	4	20	ASSUCBPT	30	
ASSCOMPL	B		ASSVOLID	5	
ASSENQTK	10		ASTLBM	FC	
ASSENTLN	110	110	ASTLBMWR	FC	80
ASSGROUP	38	E2E8E2D4			
ASSMEMNM	40				
ASSMERGE	4	40			
ASSMIGRA	4				
ASSMIGTR	F0				
ASSMOVE	4	80			
ASSRECV	4	10			
ASSSRCST	C				
ASSSRDAS	34				
ASSRESV	58				
ASSREXT	60				
ASSTABSZ	110	10CD0			
ASSTBITB	E8				
ASSTDEBE	C1				
ASSTEXTN	D8				
ASSTFLG1	D9				
ASSTID	0				
ASSTKCYL	D4				
ASSTLBM	F4				
ASSTNQTK	61				
ASSTNRTK	DA				
ASSTOKEN	54				
ASSTRACS	E0				
ASSTRPS	81	0			
ASSTSTRT	DC				

\$ASSTAB Cross Reference

\$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
312	(138)	DBL WORD	8	(0)	Force double-word alignment
312	(138)	X'0'	0	ASYPCEWS	"*-PCEWORK" Length of work area

\$ASYWORK Map

\$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)	SIGNED	4	AXBSTECB	Main task subtask term ECB
48	(30)	ADDRESS	4	AXBPWORK	Address of working storage in the AUX address space.
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	AXBLEN	**-"AUXCB" Length of AUXCB

\$AUXCB Cross Reference

Name	Hex Offset	Hex Value
AUXCB	0	
AXBECB	28	
AXBID	0	C1E4E7C2
AXBLEN	38	38
AXBNAME	8	D1C5E2F2
AXBODA	10	
AXBPWORK	30	
AXBSTECB	2C	
AXBVER	4	
AXBVERN	4	1

\$AUXCB Cross Reference

\$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	BRTPRELEN	**-"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		BRTIEND	"X'FF" End of BERTIEs
1	(1)	BITSTRING	1	BRTILEN	Length of BERTIE data (does not include this prefix)
1	(1)	X'2'	0	BRTIPLN	**-"BERTIE" Prefix area length
2	(2)	BITSTRING	1	BRTIDATA (0)	Start of actual data

\$BERT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BERTIO	, Type 0 BERTIE
0	(0)	BITSTRING	1	BRTLOCK	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	BRTOLEN1	**"BERTIO" Minimum type 0 BERTIE
2	(2)	BITSTRING	1	BRT0FLAG	General flags for chaining
3	(3)	BITSTRING	3	BRTONXT1	1st CB chain field
6	(6)	BITSTRING	3	BRTONXT2	2nd CB chain field
9	(9)	BITSTRING	1	BRT0KEY (0)	Search key
9	(9)	X'9'	0	BRTOLEN2	**"BERTIO" Size with search key (plus key len)

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

Offsets					
Dec	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BRTCNT	, BERT count array
0	(0)	CHARACTER	8	BRTCNAME	Name of BERT entry
8	(8)	BITSTRING	1	BRTCID	Control block type
9	(9)	BITSTRING	3		Reserved
12	(C)	SIGNED	4	BRTCMAIN	Sequence one BERT count
16	(10)	SIGNED	4	BRTCNUM	Total BERT count
16	(10)	X'14'	0	BRTCLEN	"*-BRTCNT" Size of an entry
16	(10)	X'1400'	0	BRTCSIZE	"BRTCLEN*256" Size of a full array

\$BERT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
BERT	0		BRTSEQ	4	
BERTIE	0		BRTTYPE	0	
BERTIO	0		BRTWALLY	0	
BERTVERS	0	1	BRTWSCQ	0	3
BRTCAT	0	2	BRT0FLAG	2	
BRTCB	1		BRT0FLG0	1	
BRTCID	8		BRT0KEY	9	
BRTCLEN	10	14	BRT0LEN1	1	2
BRTCMAIN	C		BRT0LEN2	9	9
BRTCNAME	0		BRT0LOCK	0	
BRTCNT	0		BRT0NXT1	3	
BRTCNUM	10		BRT0NXT2	6	
BRTCSIZE	10	1400	BRT0USEQ	1	F0
BRTDATA	A				
BRTFREE	0	FF			
BRTIDATA	2				
BRTIICNT	0	FE			
BRTIID	0				
BRTIEND	0	FF			
BRTILEN	1				
BRTINT	0	0			
BRTIPLN	1	2			
BRTJQE	0	1			
BRTLEN	A	40			
BRTMAP	0				
BRTMID	9				
BRTMLN	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				
BRTPREN	8	A			
BRTPSIZE	3C	40			
BRTPWSCN	38				
BRTPWSCQ	34				

\$BERT Cross Reference

\$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 expansion in HASPTAB
Pointed to by: MCTBRTTU field of the \$MCT data area
 MCTBRTTH field of the \$MCT data area

Serialization: None required
Function: This DSECT maps entries in the BERT table pairs which describe variable extensions to JES2 CKPTed control blocks.

\$BERTTAB Map

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

\$BLDMSGL Programming Interface information

Programming Interface information

\$BLDMSGL

End of Programming Interface information

\$BLDMSG L Heading Information

Common Name: Build Message Parameter List
Macro ID: \$BLDMSG L
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.

\$BLDMSG L Map

Offsets					
Dec	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)	ADDRESS	4	BLDCR11	R11 of caller for \$BLDMSG
52	(34)	BITSTRING	2	BLDROUT	Route code for message
54	(36)	BITSTRING	2	BLDESC	Descriptor codes for msg
56	(38)	CHARACTER	4	BLDMSGID	MESSAGE ID

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	BITSTRING	1	BLDSEPAR	Separator character
61	(3D)	BITSTRING	1	BLDFLAG1	Flag byte
		1...		BLD1WTO	"B'10000000" BUILD WTO OR MLWTO MF=L
		.1..		BLD1WTOR	"B'01000000" BUILD WTOR MF=L
		..1.		BLD1CMB	"B'00100000" BUILD CMB
		...1		BLD1WAIT	"B'00010000" \$WAIT IS ALLOWED
		.... 1...		BLD1JQE	"B'00001000" Prefix job id from JQE
		.... ..1.		BLD1JID	"B'00000100" Prefix job id from given id
		.... ...1		BLD1REPV	"B'00000010" Reply vector proc. required
				BLD1GETW	"B'00000001" This area obtained via \$GETWORK
62	(3E)	BITSTRING	1	BLDISPER	'DISPER' character
63	(3F)	BITSTRING	1	BLDFLAG2	Flag byte 2
		1...		BLD2LOGO	"B'10000000" LOGONLY=YES is specified
		.1..		BLD2ROUT	"B'01000000" Route codes are set
		..1.		BLD2DESC	"B'00100000" Descriptor codes are set
		...1		BLD2LONG	"B'00010000" LONG=YES is specified
		.... 1...		BLD2GETC	"B'00001000" This area obtained via \$GETHP
		.... ..1.		BLD2HCCT	"B'00000100" Display routine R11=HCCT
		.... ...1		BLD2HCT	"B'00000010" Display routine R11=HCT
				BLD2NMUL	"B'00000001" MULTI=NO is specified
64	(40)	BITSTRING	1	BLDFLAG3	Flag byte 3
		1...		BLD3BRAN	"B'10000000" BRANCH=YES is specified
		.1..		BLD3DEST	"B'01000000" DEST= is specified
65	(41)	CHARACTER	8	BLDDESTN	Symbolic name of dest.
73	(49)	BITSTRING	15		Reserved for future use
88	(58)	ADDRESS	4	(0)	Ensure multiple of 4
88	(58)	X'58'	0	BLDSIZE	**-BLD"

\$BLDMSG Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
BLD	0		BLD1WAIT	3D	10
BLDADDR	18		BLD1WTO	3D	80
BLDCART	8		BLD1WTOR	3D	40
BLDCBA	10		BLD2DESC	3F	20
BLDCNNCT	18	24	BLD2GETC	3F	8
BLDCONID	4		BLD2HCCT	3F	4
BLDCR11	30		BLD2HCT	3F	2
BLDDDESC	36		BLD2LOGO	3F	80
BLDDESTN	41		BLD2LONG	3F	10
BLDDOMID	24		BLD2NMUL	3F	1
BLDECB	18		BLD2ROUT	3F	40
BLDFLAG1	3D		BLD3BRAN	40	80
BLDFLAG2	3F		BLD3DEST	40	40
BLDFLAG3	40				
BLDHUHDM	28				
BLDID	0				
BLDISPER	3E				
BLDISPR	14				
BLDJOBID	C				
BLDLEN	20				
BLDMSGID	38				
BLDREPLY	1C				
BLDREPV	2C				
BLDROUT	34				
BLDSEPAR	3C				
BLDSIZE	58	58			
BLDWORK	24				
BLD1CMB	3D	20			
BLD1GETW	3D	1			
BLD1JID	3D	4			
BLD1JQE	3D	8			
BLD1REPV	3D	2			

\$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, BFD
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'BUF '
Offset: BFPID-BFPDSECT
Length: 4

Storage Attributes: Subpool: BSC buffers are in subpool 6. VTAM buffers are in subpool 16. HASP buffers are in subpool 8. UBUF, PBUF, HBUF 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:
- $2X + (\text{BUFFER PREFIX AREA})$
- WHERE $X = \text{MAX} (\$NOPRCCW*8+PCIESIZE+JOESIZE,$
- $\$NOPUCCW*8+PCIESIZE+JOESIZE,$
- $(\$TCELSIZ*4-3)*4$

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
 \$MIGRIOQ field of the \$HCT data area
 \$BSCCHEQ field of the \$HCT data area
 \$MCONMSG field of the \$HCT data area
 \$RPLCOMQ field of the \$HCT data area
 \$XFRBEND field of the \$HCT data area
 HFCTBUFS field of the \$HFCT data area
 ICEINHDF field of the \$ICE data area
 ICEINTL field of the \$ICE data area
 ICEOUTBF field of the \$ICE data area
 ICEOUTHDF 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
 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).

Serialization:

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

\$BUFFER Map

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 IDENTIFIER
4	(4)	SIGNED	4	BFPBAT	ADDRESS OF AUXILIARY BUFFER
4	(4)	X'4'	0	BFPSWEL	"BFPBAT,,C'A" Address of SWEL (TP buffers in process of signon only)
8	(8)	ADDRESS	4	BUFCHAIN	BUFFER CHAIN FIELD
12	(C)	BITSTRING	1	BUFTYPE	BUFFER TYPE
		.... ....		BUFLOCAL	"B'00000000" LOCAL BUFFER
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..		BPMPAGE	"B'00000100" PAGE buffer type
		.... .1.1		BPMTTP	"B'00000101" Print/Punch buffer type
		.... ..1.		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+BPMPAGE"
12	(C)	X'C'	0	BUFSPXFR	"BUFLOCAL+BUFDECB+BPMPAGE"
12	(C)	X'25'	0	BUFPP	"BUFLOCAL+BUFIOB+BPMTTP"
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

Comment

 WARNING - The bit below has a different use
 depending on the Environment.

End of Comment

		..1.		BUF1WIN	"B'01000000" User ENV - Write in progress flag (only used by USER ENV I/O)
		..1.		BUF1EXVR	"B'01000000" Main Task ENV - On REDO issue EXCPVR instead of EXCP (only used by MAIN TASK I/O).
		..1.		BUF1SINT	"B'00100000" Simulated I/O error
		...1		BUF1PERM	"B'00010000" Permanent I/O error
		.... 1...		BUF1CHEN	"B'00001000" Channel end appendage processed buffer
		.... .1..		BUF1DASD	"B'00000100" I/O to DASD device
		.... ..1.		BUF1REDO	"B'00000010" Redo I/O (only used by MAIN TASK I/O).
		.... ...1		BUF1MIGO	"B'00000001" During spool migration, override mapped volume consideration (only used by MAIN TASK I/O).
15	(F)	BITSTRING	1	BUFMIGTC	Migration transition count (only used by MAIN TASK I/O).
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

\$BUFFER Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)	ADDRESS	4	IOBECBPT	ADDRESS OF HASP EVENT CONTROL BLOCK
32	(20)	ADDRESS	4	IOBCMD31 (0)	Ending CCW addr if IOBEFMT1
32	(20)	CHARACTER	1	IOBFLAG3	I/O FLAGS
33	(21)	CHARACTER	7	IOBCSW	CHANNEL STATUS WORD

Comment

DS AL3 Command address
 DS B CSW unit status flags
 EQU X'80' Attention
 EQU X'40' Status modifier
 EQU X'20' Control unit end
 EQU X'10' Busy
 EQU X'08' Channel end
 EQU X'04' Device end
 EQU X'02' Unit check
 EQU X'01' Unit exception
 DS B CSW channel status flags
 EQU X'80' Program control interrupt
 EQU X'40' Incorrect length
 EQU X'20' Program check
 EQU X'10' Protection check
 EQU X'08' Channel data check
 EQU X'04' Channel control check
 EQU X'02' Interface control check
 EQU X'01' Chaining check
 DS XL2 Last two bytes of IOBCSW

End of Comment

40	(28)	CHARACTER	1	IOBSIOCC (0)	SIO CONDITION CODE
40	(28)	ADDRESS	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

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)	ADDRESS	4	IOBDCBPT	ADDRESS OF DATA CONTROL BLOCK
48	(30)	CHARACTER	1	IOBREPM (0)	REPOSITION MODIFIER
48	(30)	ADDRESS	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)	ADDRESS	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

Offsets

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

End of fields that are a remapping of the IOB control block in the mapping macro IEZIOB. Note that last 4 bytes of IOBSEEK overlap TPBFDATA, which is not used in a buffer for DASD I/O.					

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)	BITSTRING	6	PPBCMQR	Current punch
90	(5A)	CHARACTER	2	PPBCRCB	restart fields
92	(5C)	CHARACTER	1	PPBCBOFF	(keep together)
93	(5D)	BITSTRING	6	PPBNMQTR	Next punch
99	(63)	CHARACTER	2	PPBNRCB	restart fields
101	(65)	CHARACTER	1	PPBNBOFF	(keep together)
102	(66)	CHARACTER	2	PPBDISPL	OFFSET OF 2ND IOB BUFFER
60	(3C)	SIGNED	4	PPBLVCCC	LAST VALID CCW IN CURRENT AREA

\$BUFFER Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Define memory-only fields for control block I/O. These utility fields will be accessed using definitions in the control blocks using the fields (for example the IOT). The access will be via the use of EQU. For example IOTIOT (a memory chain pointer for the IOT) could be defined as: IOTIOT EQU BUFMEMW1-BFPDSECT+IOT</p> <p>The advantage of defining the fields at this point in the buffer is that this part of the buffer is never written to 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.</p>					
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					
<p>Flag byte BUFMEMF1 is currently defined to use only for control block I/O (eg. IOT.) For general use (eg. HDB buffers), flag byte BUFMEMF4 should be used with necessary bit definitions defined in corresponding DSECT.</p>					
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	BUFSJOB	SJOB address (\$CBIO in USER environment)
100	(64)	ADDRESS	4	BUFWRBTK	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
Comment					
<p>An assembly error on the following statement implies that there has been too much "redefinition" of the buffer prefix area. Ensure the redefinition does not exceed 6 double words.</p>					
End of Comment					

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	"*-IOBDSCT" 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
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

\$BUFFER Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	BFDMIGT	Migration transition count captured from DAS when I/O is queued
14	(E)	SIGNED	2	BFDLEN	Length remaining in buffer
16	(10)	DBL WORD	8	(0)	Alignment for BFDCCWS
16	(10)	BITSTRING	56	BFDCCWS	CCWs for write processing
16	(10)	CHARACTER	8	BFDFSRBA	First seg spanned RBA addr
24	(18)	SIGNED	4	BFDSPNRG (4)	Suspended GET R2-R5
40	(28)	SIGNED	4	BFDSPNR9	R9 and
44	(2C)	SIGNED	4	BFDSPNRC	R12 save area
48	(30)	ADDRESS	4	BFDSCDR	SPOOL data record in UBF (indexed DS GET)
52	(34)	BITSTRING	7	BFDSCDWK	SCDR work area (part of BUFMEMD1)
59	(3B)	BITSTRING	1		Reserved (part of BUFMEMD1)
60	(3C)	SIGNED	4		Reserved (part of BUFMEMD1)
64	(40)	SIGNED	8	BFDCRECN	Current record number (also BUFMEMW1/BUFMEMW2)
72	(48)	ADDRESS	4	BFDSDB	In HAM, addr of owning SDB

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'48'	0	BFDPCE	"BFDSDB,4,C'A" In HAM, addr of owning PCE
76	(4C)	BITSTRING	1	BFDECBCC (0)	I/O completion code
76	(4C)	SIGNED	4	BFDECB	ECB on which to wait (also BUFMEMW4)
80	(50)	BITSTRING	1	BFDFLAG1	Flag byte 1 (also BUFMEMF1)
		1...		BFD1EOB	"B'10000000" END-OF-BUFFER indicator
		.1..		BFD1PUAC	"B'01000000" PUT update active
		..1.		BFD1MQTR	"B'00100000" BFDTRK contains an MQTR
		...1		BFD1ENDR	"B'00010000" ENDREQ created buffer
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 (also IOTFLAG5, BUFMEMF2)
		1...		BFD2CSDB	"B'10000000" Buffer queue for HAM PUT
		.1..		BFD2CSFR	"B'01000000" HAM PUT should free bfr
		..1.		BFD2RPBF	"B'00100000" Try again to fill PBF
		...1		BFD2IOE	"B'00010000" I/O error encountered
		.... 1...		BFD2PCE	"B'00001000" PCE owns I/O
		.... .1..		BFD2SRBF	"B'00000100" SRB failed to obtain bfr
		.... ..1.		BFD2MGSK	"B'00000010" Skip migration processing
		.... ...1		BFD2SOVR	"B'00000001" Source override - use source DAS for I/O
Comment					
----- BFDTRK/BFDTRKQ use BUFMEMF3/BUFMEMF4/BUFMEMW5 -----					
End of Comment					
82	(52)	BITSTRING	4	BFDTRK (0)	Track address of buffer
82	(52)	BITSTRING	6	BFDTRKQ	MQTR address of buffer
Comment					
----- BFD RBA uses BUFMEMW6/BUFMEMW7 -----					
End of Comment					
88	(58)	DBL WORD	8	(0)	Alignment for BFD RBA
88	(58)	CHARACTER	8	BFD RBA	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
104	(68)	X'798'	0	\$MINBFSZ	"(2048+7-(BUFSTART-BFPDSECT))/8*8" Min HASP buffer size
104	(68)	X'F98'	0	\$MAXBFSZ	"(4096+7-(BUFSTART-BFPDSECT))/8*8" Max HASP buffer size

\$BUFFER Cross Reference

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

\$BUFFER Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$MAXBFSZ	68	F98	BFPTHMGR	E	80
\$MAXTPBS	88	F78	BPMTBSC	C	1
\$MINBFSZ	68	798	BPMTCB	C	2
\$SNABFMX	88	7F00	BPMTHAM	C	7
BFD	0		BPMTHASP	C	3
BFDBAT	4		BPMTPAGE	C	4
BFDCCWS	10		BPMTTPP	C	5
BFDCHAIN	8		BPMTUSCB	C	FF
BFDCRECN	40		BPMTVTAM	C	6
BFDECB	4C		BUFBPMT	C	7
BFDECBCC	4C		BUFBSC	C	21
BFDFLAG1	50		BUFCB	C	22
BFDFLAG2	51		BUFCFCB	D	1
BFDFSRBA	10		BUFCHAIN	8	
BFDID	0		BUFCHECB	44	
BFDLEN	E		BUFCHEQ	44	
BFDLOC	64		BUFCHNCT	42	
BFDMIGT	D		BUFCHOFF	41	
BFDPCE	48	48	BUFDECB	C	8
BFDRBA	58		BUFECBCC	D	
BFDSCDR	30		BUFFIX	C	80
BFDSCDWK	34		BUFFLAG1	E	
BFDSDDB	48		BUFHASP	C	23
BFDSDSIZE	68	1000	BUFIQB	C	20
BFDSPNRC	2C		BUFIQBSZ	80	70
BFDSPNRG	18		BUFLOCAL	C	0
BFDSPNR9	28		BUFMEM	64	38
BFDSTART	68		BUFMEMD1	38	
BFDTCB	60		BUFMEMF1	50	
BFDTRK	52		BUFMEMF2	51	
BFDTRKQ	52		BUFMEMF3	52	
BFDTYPE	C		BUFMEMF4	53	
BFD1ENDR	50	10	BUFMEMW1	40	
BFD1EOB	50	80	BUFMEMW2	44	
BFD1ICLS	50	1	BUFMEMW3	48	
BFD1IDEL	50	4	BUFMEMW4	4C	
BFD1IEOF	50	8	BUFMEMW5	54	
BFD1IERQ	50	2	BUFMEMW6	58	
BFD1MQTR	50	20	BUFMEMW7	5C	
BFD1PUAC	50	40	BUFMFLG1	50	50
BFD2CSDB	51	80	BUFMIGTC	F	
BFD2CSFR	51	40	BUFMULT	C	40
BFD2IOE	51	10	BUFM1CKP	50	80
BFD2MGSK	51	2	BUFM1CK2	50	40
BFD2PCE	51	8	BUFPAGE	C	24
BFD2RPBF	51	20	BUFPP	C	25
BFD2SOVR	51	1	BUFRPL	C	10
BFD2SRBF	51	4	BUFSJIOB	60	
BFPBAT	4		BUFSXPFR	C	C
BFPDCT	10		BUFSTART	68	
BFPDSECT	0		BUFTYPE	C	
BFPEWF	14		BUFVTAM	C	16
BFPID	0		BUFWRTBK	64	
BFPLEN	14	18	BUF1CHEN	E	8
BFPWEL	4	4	BUF1DASD	E	4

\$BUFFER Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
BUF1EXVR	E	40	PPBNMQTR	5D	
BUF1MIGO	E	1	PPBNRCB	63	
BUF1PERM	E	10	PPBPCIE	48	
BUF1REDO	E	2	SCDLEN	0	
BUF1SINT	E	20	SCDREC	0	
BUF1WIN	E	40	SCDSTCKE	1	
HDBDSKEY	7C		SCDTSLEN	1	7
HDBID	68		SPBCHAN2	18	
HDBJBKEY	78		SPBDLEN	3	
HDBJBNUM	74		SPBEOADAD	5	40
HDBJNAME	6C		SPBEOFAB	5	2
HDBKEY	78		SPBEOFID	5	3
HDBNXTRK	80		SPBEOFOK	5	1
HDBSPLNG	7C	18	SPBFDATA	1C	
HDBSTART	84	88	SPBFLAG1	22	
IOBCCW1	48		SPBHDR	5	0
IOBCCW2	50		SPBRCB	0	
IOBCCW3	58		SPBRDATA	5	
IOBCCW4	60		SPBRECD	0	
IOBCCW5	68		SPBRECNT	20	
IOBCCW6	70		SPBSKIP	5	20
IOBCCW7	78		SPBSRCB	1	
IOBCCW8	80		SPBSTART	36	
IOBCC3WE	2C	40	SPBSYNAD	5	80
IOBCEF	2C	10	SPBTYPD	5	1
IOBCMDCH	18	40	SPBTYP	2	
IOBCMD31	20		SPBTYPB	5	3
IOBCSW	21		SPBTYPF	5	2
IOBDCBPT	2C		TPBFDATA	3C	
IOBDSECT	18		TPBLCCAD	38	
IOBECBCC	1C		TPBLCCC	38	
IOBECBPT	1C		TPBMXREC	34	
IOBECBSV	34	35	TPBRECNT	3C	
IOBERRCT	36		TPBUFST	88	
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	5C				
PPBCCWNX	4C				
PPBCMQR	54				
PPBCRCB	5A				
PPBDISPL	66				
PPBFLAG1	40	40			
PPBLVCCC	3C				
PPBLVCCN	50				
PPBNBOFF	65				

\$BUFFER Cross Reference

\$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

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MODULE HASCARMS ROUTINES LISTED ALPHABETICALLY					
End of Comment					
8	(8)	ADDRESS	4	C@CPJAFF	Set local affinity
12	(C)	ADDRESS	4	C@CPJCLINI	Initialize PJCL queue
16	(10)	ADDRESS	4	C@CPJCLTRM	Terminate PJCL queue
Comment					
MODULE HASCARSO ROUTINES LISTED ALPHABETICALLY					
End of Comment					
20	(14)	ADDRESS	4	C@ARMEOJ	Notify ARM of end of job
Comment					
MODULE HASCBLDM ROUTINES LISTED ALPHABETICALLY					
End of Comment					
24	(18)	ADDRESS	4	C@\$MSGDISR	\$BLDMSG default display rtn
28	(1C)	ADDRESS	4	C@\$MSGSCAN	\$BLDMSG service routine
32	(20)	ADDRESS	4	C@\$REPLY	\$REPLY service routine
36	(24)	ADDRESS	4	C@PREJOBNM	Display current jobname
40	(28)	ADDRESS	4	C@PREREPGC	Display record/page count in HASP150 routine
Comment					
Module HASCDAU Routines Listed Alphabetically					
End of Comment					
44	(2C)	ADDRESS	4	C@\$ALLDAU	Allocate daughter IOT
48	(30)	ADDRESS	4	C@\$UALDAU	Unallocate daughter IOT
Comment					
MODULE HASCDSAL ROUTINES LISTED ALPHABETICALLY					
End of Comment					
52	(34)	ADDRESS	4	C@\$DSCTBLD	Fill in DSCT
56	(38)	ADDRESS	4	C@\$PDBBLD	GET A PDDB SLOT ROUTINE
60	(3C)	ADDRESS	4	C@\$PDBDEFS	Default some PDDB fields
64	(40)	ADDRESS	4	C@HALFDSNR	Find data set name
68	(44)	ADDRESS	4	C@HALOPDBI	FINISH SYSOUT PDDB INIT
72	(48)	ADDRESS	4	C@HALRDCAT	Read data set catalog
76	(4C)	ADDRESS	4	C@HALUNAL	UNALLOCATE A DATASET ROUTINE
80	(50)	ADDRESS	4	C@HIOTSPIN	SPIN THE ARGUMENT IOT
84	(54)	ADDRESS	4	C@HNDUPDTE	Update SWB NOTIFY keyword
88	(58)	ADDRESS	4	C@HNOTIFY	Determine nodes/userids for notify msg
92	(5C)	ADDRESS	4	C@HBSRBLDL	Rebuild syslog chain
96	(60)	ADDRESS	4	C@JESLOGC	JESLOG conversion routine
Comment					
MODULE HASCDSOC ROUTINES LISTED ALPHABETICALLY					
End of Comment					
100	(64)	ADDRESS	4	C@DSOPEN	DATA SET OPEN ROUTINE
104	(68)	ADDRESS	4	C@HFEXFSPC	SPC Finalization
108	(6C)	ADDRESS	4	C@HFEXJESL	Extend JESLOG data set
112	(70)	ADDRESS	4	C@HFEXSDET	JESLOG/Spin-any Spin determination
116	(74)	ADDRESS	4	C@HFEXSPIN	Spin JESLOG/Spin-any D S

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
120	(78)	ADDRESS	4	C@HFOPSUB	ACB FAKE OPEN ROUTINE
124	(7C)	ADDRESS	4	C@HOCSETUP	RESTART/OPEN/CLOSE SETUP ROUTINE
128	(80)	ADDRESS	4	C@SSVCLSC	CONVERTER FAKE CLOSE
132	(84)	ADDRESS	4	C@SSVOPNC	CONVERTER FAKE OPEN

Comment

MODULE HASCDSS ENTRY POINT.

End of Comment

136	(88)	ADDRESS	4	C@\$SALESERV	ALET management service
140	(8C)	ADDRESS	4	C@DSPSERV	Data space service entry

Comment

Module HASCENF routines and tokens listed alphabetically.

End of Comment

144	(90)	ADDRESS	4	C@ENFISSUE	ENF issue service
148	(94)	ADDRESS	4	K@ENF58CDC	Copy ENF 58 info to CDCT
152	(98)	ADDRESS	4	K@ENF70CDC	Copy ENF 70 info to CDCT

Comment

 The list of ENF routines must be contiguous and the routines must appear in the same order as the ENFREQ LISTENS appear in the \$CSVLIST macro.

End of Comment

156	(9C)	ADDRESS	4	CADDRENFBE (0)	Start of ENF entries
156	(9C)	ADDRESS	4	CADDR@ENF35	Code 35 - CF structure
160	(A0)	ADDRESS	4	CADDR#ENF35	status change
164	(A4)	ADDRESS	4	CADDR@ENF41GL	Code 41 - VARY WLM,POLICY=
168	(A8)	ADDRESS	4	CADDR#ENF41GL	in goal mode done
172	(AC)	ADDRESS	4	CADDR@ENF41CP	Code 41 - VARY WLM,POLICY=
176	(B0)	ADDRESS	4	CADDR#ENF41CP	in compatibility mode done
180	(B4)	ADDRESS	4	CADDR@ENF42	Code 42 - MODIFY WLM,
184	(B8)	ADDRESS	4	CADDR#ENF42	MODE=GOAL done
188	(BC)	ADDRESS	4	CADDR@ENF46	Code 46 - OMVS active
192	(C0)	ADDRESS	4	CADDR#ENF46	or inactive
196	(C4)	ADDRESS	4	CADDR@ENF56	Code 56 - RESET job
200	(C8)	ADDRESS	4	CADDR#ENF56	command issued
204	(CC)	ADDRESS	4	CADDR@ENF57CM	Code 57 - MODIFY WLM,
208	(D0)	ADDRESS	4	CADDR#ENF57CM	RESOURCE command issued
212	(D4)	ADDRESS	4	CADDR@ENF57RV	Code 57 - Scheduling chg
216	(D8)	ADDRESS	4	CADDR#ENF57RV	due to WLM recovery
220	(DC)	ADDRESS	4	CADDR@ENF58NR	Code 58 - ENF for data set
224	(E0)	ADDRESS	4	CADDR#ENF58NR	event
228	(E4)	ADDRESS	4	CADDR@ENF62RL	Code 62 - RACF RACLIST

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
232	(E8)	ADDRESS	4	CADDR#ENF62RL	class change
236	(EC)	ADDRESS	4	CADDR@ENF62RF	Code 62 - RACF RACLIST
240	(F0)	ADDRESS	4	CADDR#ENF62RF	REFRESH class change
244	(F4)	ADDRESS	4	CADDR@ENF62NR	Code 62 - RACF NORACLIST
248	(F8)	ADDRESS	4	CADDR#ENF62NR	class change
252	(FC)	ADDRESS	4	CADDR@ENF70NR	Code 70 - JES job change
256	(100)	ADDRESS	4	CADDR#ENF70NR	event
256	(100)	X'D'	0	CADDRENFNUM	"(*-CADDRENFBEQ)/8" Number of ENF entries

Comment

MODULE HASC GGKY ROUTINES LISTED ALPHABETICALLY

End of Comment

260	(104)	ADDRESS	4	C@\$GKGET	Get grouping keys
264	(108)	ADDRESS	4	C@\$GKINIT	Initialize grouping keys
268	(10C)	ADDRESS	4	C@\$GKTERM	Terminate grouping keys

Comment

MODULE HASC GGST ROUTINES LISTED ALPHABETICALLY

End of Comment

272	(110)	ADDRESS	4	C@\$GASSIGN	Assign grouping token
276	(114)	ADDRESS	4	C@\$GSINIT	Initialize grouping strings
280	(118)	ADDRESS	4	C@\$GSTERM	Terminate grouping strings

Comment

Module HASCHAM routines listed alphabetically

End of Comment

284	(11C)	ADDRESS	4	CADDR@HAMAVT	HAM appendage vector table, not for \$CALL, data only
288	(120)	ADDRESS	4	C@HAMNULL	'Null' acsmeth interface
292	(124)	ADDRESS	4	C@HAMPSTER	HAM Post Exit routine
296	(128)	ADDRESS	4	C@HASPAMI	Access method interface
300	(12C)	ADDRESS	4	C@HGETCHN	Get next buffer/record
304	(130)	ADDRESS	4	K@HPOSTECB	Post a HAM ECB

Comment

Module HASCINJR routines listed alphabetically

End of Comment

308	(134)	ADDRESS	4	C@CCLSSYSI	Common CLOSE sysin data set
312	(138)	ADDRESS	4	C@CEXITACT	Accounting card exit (53)
316	(13C)	ADDRESS	4	C@CEXITCRD	RDR card exits (52 and 54)
320	(140)	ADDRESS	4	C@CINITJRW	Initialize new JRW
324	(144)	ADDRESS	4	C@CIOTCLN	Common clean up IOT service
328	(148)	ADDRESS	4	C@CIRDRPUT	Internal reader PUT service
332	(14C)	ADDRESS	4	C@CJOBBLD	Common job build service
336	(150)	ADDRESS	4	C@CJOBVFY	Common job verification
340	(154)	ADDRESS	4	C@CLEANJRW	Clean storage assoc w JRW
344	(158)	ADDRESS	4	C@CPROCCRD	Common JCL/JECL card proc
348	(15C)	ADDRESS	4	C@CPUT	Common JCL PUT service
352	(160)	ADDRESS	4	C@CSETVECT	Set routine address vector
356	(164)	ADDRESS	4	C@CSPLOPN	Common OPEN spool data set

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
360	(168)	ADDRESS	4	C@CXMTRTNE	Common XMIT processing rtn
364	(16C)	ADDRESS	4	C@IRCLNUP	Internal Reader Cleanup

Comment

MODULE HASCBST ROUTINES LISTED ALPHABETICALLY

End of Comment

368	(170)	ADDRESS	4	C@\$ASDCCLR	ASDS entry clear
372	(174)	ADDRESS	4	C@\$ASDCUPD	ASDS entry update
376	(178)	ADDRESS	4	C@GRPINIT	Initialize grouping strings
380	(17C)	ADDRESS	4	C@HFJOBLOG	PLACE TITLE IN JES2 JOB LOG
384	(180)	ADDRESS	4	C@HFJLOGTM	Add date line to JOB LOG
388	(184)	ADDRESS	4	C@HFJDLINE	Create date line
392	(188)	ADDRESS	4	C@HJE000	COMMON JOB TERMINATION ROUTINE
396	(18C)	ADDRESS	4	C@HJSMASXL	MAKE A SLOT FOR A SYSTEM PDDB
400	(190)	ADDRESS	4	C@JBFOUND	JOB SELECT SET UP ROUTINE
404	(194)	ADDRESS	4	C@JBSELECT	JOB SELECT SELECTION ROUTINE
408	(198)	ADDRESS	4	C@JOBSTATS	UPDATE JCT STATS ROUTINE
412	(19C)	ADDRESS	4	C@JSOPSSDS	OPEN SUBSYSTEM DATASETS ROUTINE
416	(1A0)	ADDRESS	4	C@JSREOPEN	JOB SELECT DS REOPEN RTN

Comment

MODULE HASCBTR ROUTINES LISTED ALPHABETICALLY

End of Comment

420	(1A4)	ADDRESS	4	C@\$UCBINDX	Reset Attn Index in UCB
424	(1A8)	ADDRESS	4	C@CLEANBAT	Cleanup BATs
428	(1AC)	ADDRESS	4	C@EOBLOB	Clean up BLOB
432	(1B0)	ADDRESS	4	C@EOTFDCON	ISSUE FSI DISCONNECT REQUEST

Comment

MODULE HASLINK ROUTINES LISTED ALPHABETICALLY

End of Comment

436	(1B4)	ADDRESS	4	C@\$CGETABL	\$GETABLE service routine
440	(1B8)	ADDRESS	4	C@\$CRETANY	\$RETURN SERVICE ROUTINE
444	(1BC)	ADDRESS	4	C@\$CRETRN	\$RETURN SERVICE ROUTINE
448	(1C0)	ADDRESS	4	C@\$CSAVANY	\$SAVE SERVICE ROUTINE
452	(1C4)	ADDRESS	4	C@\$CSAVE	\$SAVE SERVICE ROUTINE
456	(1C8)	ADDRESS	4	C@\$DYNLPA	Dynamic LPA exit routine
460	(1CC)	ADDRESS	4	C@\$ECBEXIT	ECB post processing exit
464	(1D0)	ADDRESS	4	C@\$ECBPOST	Post ECB from POST exit
468	(1D4)	ADDRESS	4	C@\$FBUFRTN	Routine to free buffers with LOCAL lock held
472	(1D8)	ADDRESS	4	C@\$FRECEL	FREE A CSA CELL
476	(1DC)	ADDRESS	4	C@\$GETCEL	OBTAIN A CSA CELL
480	(1E0)	ADDRESS	4	K@\$GETHP	HIGH PRIVATE STORAGE CELLS
484	(1E4)	ADDRESS	4	C@\$HGFMMAIN	HGFMMAIN GET/FREE MAIN SERVICES (REGS=SAVE/REGS=USE)
488	(1E8)	ADDRESS	4	K@\$HGFMANK	HGFMMAIN GET/FREE MAIN SERVICES (REGS=SYSTEM)
492	(1EC)	ADDRESS	4	C@\$MLTFBUF	MULTIPLE BUFFER FREE ROUTINE
496	(1F0)	ADDRESS	4	K@\$MODLOC	Locate a module (MVS style)
500	(1F4)	ADDRESS	4	C@\$MSDDUMP	Multi System Dump Routine
504	(1F8)	ADDRESS	4	C@\$SSIAUTH	SSI authorization service
508	(1FC)	ADDRESS	4	C#\$SSIAUTH	SSI auth PC number
512	(200)	ADDRESS	4	C@\$SSIBEGN	SSI INTERFACE BEGIN ROUTINE
516	(204)	ADDRESS	4	C@\$SSIEND	SSI INTERFACE END ROUTINE
520	(208)	ADDRESS	4	C@\$SYMREC	ENTRY TO \$SYMREC ROUTINE
524	(20C)	ADDRESS	4	C@ABNDADJ	Adjust ABEND loc for ILC
528	(210)	ADDRESS	4	C@ABNSKIP	Determine if SDUMP needed
532	(214)	ADDRESS	4	C@FINDMOD	Find LMT/MIT for a module containing a given address
536	(218)	ADDRESS	4	C@FRETRE	FREE TCB RECOVERY ELEMENT

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
540	(21C)	ADDRESS	4	C@GETTRE	GET TCB RECOVERY ELEMENT
544	(220)	ADDRESS	4	C@FINDLMOD	Locate load module by addr
548	(224)	ADDRESS	4	C@MBSCATTN	BSC CTC Attention routine
552	(228)	ADDRESS	4	C@RECOVERY	SSI RECOVERY ROUTINE
556	(22C)	ADDRESS	4	C@SSIFINE	SSI INTERFACE FINISH ROUTINE
560	(230)	ADDRESS	4	C@SSISESTA	SSI \$ESTAE ROUTINE
564	(234)	ADDRESS	4	C@SSISSETUP	SSI INTERFACE SETUP ROUTINE
568	(238)	ADDRESS	4	CADDR@CNTBITAB	TRT table for \$CNTBIT macro
572	(23C)	ADDRESS	4	CADDR@TRJNAME	Table for BAD_JOBNAME_CHAR

Comment

Module HASCNJAS entries listed alphabetically

End of Comment

576	(240)	ADDRESS	4	C@\$FRETBUF	\$FRETBUF service
580	(244)	ADDRESS	4	C@\$GETTBUF	\$GETTBUF service
584	(248)	ADDRESS	4	C@\$NSSTLOK	Obtain/Release NSST lock
588	(24C)	ADDRESS	4	C@DELJ2SRV	Delete JES2 server addrspc
592	(250)	ADDRESS	4	C@GETJ2SRV	Start JES2 server addrspc

Comment

MODULE HASCNJE ROUTINES listed alphabetically

End of Comment

596	(254)	ADDRESS	4	C@NJEFOPEN	NJE Fake Open
600	(258)	ADDRESS	4	C@NJEFREBF	Free NJE CB buffers
604	(25C)	ADDRESS	4	C@NJEHBLD	NJE Header build routine
608	(260)	ADDRESS	4	C@NJEHDADD	Add NJE header section
612	(264)	ADDRESS	4	C@NJEHDEXP	Expand NJE header section
616	(268)	ADDRESS	4	C@NJEHDMAK	Create NJE header
620	(26C)	ADDRESS	4	C@NJEHDRDU	NJE header read routine
624	(270)	ADDRESS	4	C@NJEHDREM	Delete NJE header section
628	(274)	ADDRESS	4	C@NJEHDVAL	HDR/TRL Validate routine
632	(278)	ADDRESS	4	C@NJEHDWRU	NJE header write routine
636	(27C)	ADDRESS	4	C@NJEPORCV	NJE post-receive header rtn
640	(280)	ADDRESS	4	C@NJEPRXMT	NJE pre-xmit header rtn
644	(284)	ADDRESS	4	C@NJETBLD	Build job trailer
648	(288)	ADDRESS	4	C@NJETRACE	NJE rolling trace
652	(28C)	ADDRESS	4	C@HASPNACT	Entry to HASPNACT routine
656	(290)	ADDRESS	4	C@PREMG529	MSG529 \$BLDMSG TEXT prescan
660	(294)	ADDRESS	4	C@RNODEBAD	Entry to RNODEBAD routine

Comment

Module HASCNJEX entries listed alphabetically

End of Comment

664	(298)	ADDRESS	4	C@NJEXARR	NJE/TCP recovery ARR
668	(29C)	ADDRESS	4	C@NJEXASEA	Server early addrspc init
672	(2A0)	ADDRESS	4	C@NJEXASIN	Server addrspc init
676	(2A4)	ADDRESS	4	C@NJEXASRQ	Server addrspc request
680	(2A8)	ADDRESS	4	C@NJEXASTM	Server addrspc term
684	(2AC)	ADDRESS	4	C@NJEXCREQ	Connection Request
688	(2B0)	ADDRESS	4	C@NJEXIREC	Server inbound NCC/NMR
692	(2B4)	ADDRESS	4	C@NJEXISIN	Server inbound SYSIN
696	(2B8)	SIGNED	4	C#NJEXISIN	NJE/TCP inbound SYSIN PC
700	(2BC)	ADDRESS	4	C@NJEXISOT	Server inbound SYSOUT
704	(2C0)	SIGNED	4	C#NJEXISOT	NJE/TCP inbound SYSOUT PC
708	(2C4)	ADDRESS	4	C@NJEXOSIN	Server outbound SYSIN
712	(2C8)	SIGNED	4	C#NJEXOSIN	NJE/TCP outbound SYSIN PC

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
716	(2CC)	ADDRESS	4	C@NJEXOSOT	Server outbound SYSOUT
720	(2D0)	SIGNED	4	C#NJEXOSOT	NJE/TCP outbound SYSOUT PC
724	(2D4)	ADDRESS	4	C@NJEXSTIN	Server subtask init
728	(2D8)	ADDRESS	4	C@NJEXSTNM	Server subtask message
732	(2DC)	SIGNED	4	C#NJEXSTNM	NJE/TCP subtask message PC
736	(2E0)	ADDRESS	4	C@NJEXSTRQ	Server subtask request
740	(2E4)	SIGNED	4	C#NJEXSTRQ	NJE/TCP subtask request PC
744	(2E8)	ADDRESS	4	C@NJEXSTTM	Server subtask term
748	(2EC)	ADDRESS	4	C@NJEXTRAC	Tracing routine
752	(2F0)	SIGNED	4	C#NJEXTRAC	NJE/TCP general trace PC

Comment

Module HASCNJGP entries listed alphabetically

End of Comment

756	(2F4)	ADDRESS	4	C@HA\$CNJGP	Entry point for GP subtask
760	(2F8)	ADDRESS	4	C@NJGPRCOV	Recovery routine
764	(2FC)	ADDRESS	4	C@\$CSUBIT	\$SUBIT Routine

Comment

Module HASCNJJR entries listed alphabetically

End of Comment

768	(300)	ADDRESS	4	C@NJJRJOBH	Process NJE job header
772	(304)	ADDRESS	4	C@NJJRMAIN	NETSRV addrspc main line
776	(308)	ADDRESS	4	C@NJJRTERM	Job rcvr resource cleanup
780	(30C)	ADDRESS	4	C@NJOBWTO	Job rcvr notify message
784	(310)	ADDRESS	4	C@RNJEHDTR	Verify/expand job headers

Comment

Module HASCNJJT entries listed alphabetically

End of Comment

788	(314)	ADDRESS	4	C@NJJTJOBH	Build job header
792	(318)	ADDRESS	4	C@NJJTJOBT	Build job trailer
796	(31C)	ADDRESS	4	C@NJJTMAIN	NETSRV addrspc main line
800	(320)	ADDRESS	4	C@NJJTNTFY	Job Xmitter Notify Message
804	(324)	ADDRESS	4	C@NJJTTERM	Job Xmitter Cleanup rtn
808	(328)	ADDRESS	4	C@NJTAUTH	JESSPOOL class authorizatin

Comment

Module HASCNJRC entries listed alphabetically

End of Comment

812	(32C)	ADDRESS	4	C@NJEABSNP	Entry point for subtask
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Comment

Module HASCNJRQ entries listed alphabetically

End of Comment

816	(330)	ADDRESS	4	C@HA\$CNJRQ	Entry point for subtask
820	(334)	ADDRESS	4	C@NJRQRCOV	Recovery routine
824	(338)	ADDRESS	4	C@NJRQENQ	Queue request to server

Comment

Module HASCNJSR entries listed alphabetically

End of Comment

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
828	(33C)	ADDRESS	4	C@NJSRJOBH	Process NJE job header
832	(340)	ADDRESS	4	C@NJSRJOBT	Process NJE job trailer
836	(344)	ADDRESS	4	C@NJSRMAIN	NETSRV addrspc main line
840	(348)	ADDRESS	4	C@NJSRNTFY	Process NJE notify message
844	(34C)	ADDRESS	4	C@NJSRPDDB	Process dataset header
848	(350)	ADDRESS	4	C@NJSRSIGN	Build sign-on message
852	(354)	ADDRESS	4	C@NJSRTERM	SYSOUT Receiver Cleanup rtn
856	(358)	ADDRESS	4	C@NJSRNCOD	Encode nodename
860	(35C)	ADDRESS	4	C@NSRAUTH	NJE authority checking
864	(360)	ADDRESS	4	C@NJSROPTB	Extract OPTB values to PDDB

Comment

MODULE HASCNJST ROUTINES listed alphabetically

End of Comment

868	(364)	ADDRESS	4	C@NJSTMAIN	NETSRV addrspc main line
872	(368)	ADDRESS	4	C@NJSTOPTB	OPTB section subroutine
876	(36C)	ADDRESS	4	C@NJSTTERM	SYSOUT Xmitter Cleanup rtn
880	(370)	ADDRESS	4	C@NSTAUTH	Data set authorization rtn.
884	(374)	ADDRESS	4	C@NSTCDSH	Update dataset header
888	(378)	ADDRESS	4	C@NSTCJBH	Update Job Header
892	(37C)	ADDRESS	4	C@NSTCJBT	Update Job Trailer

Comment

Module HASCOFST entries listed alphabetically

End of Comment

896	(380)	ADDRESS	4	CADDR@OCOOFST	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.
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Comment

Module HASCPHAM routines listed alphabetically

End of Comment

900	(384)	ADDRESS	4	C@ABEND722	Issue 722 ABEND
904	(388)	ADDRESS	4	C@CNIN2OUT	Convert SDB from input to output mode
908	(38C)	ADDRESS	4	C@FREPBLK	Free protected block
912	(390)	ADDRESS	4	C@FRESDBLK	Unserialize the SDB
916	(394)	ADDRESS	4	C@GETPBLOK	Obtain GET protected block
920	(398)	ADDRESS	4	C@GETSDBLK	Serialize the SDB
924	(39C)	ADDRESS	4	C@HINTRDR	Prot INTRDR service entry
928	(3A0)	ADDRESS	4	C#HINTRDR	Prot INTRDR PC number
932	(3A4)	ADDRESS	4	C@HINTRREC	Prot INTRDR recovery rtn
936	(3A8)	ADDRESS	4	C@HIOCHECK	Start HAM I/O if needed
940	(3AC)	ADDRESS	4	C#HIOCHECK	Start HAM I/O PC number
944	(3B0)	ADDRESS	4	C@HIOCKRY	Start HAM I/O recovery rtn
948	(3B4)	ADDRESS	4	C@HMIGTRK	Track processing during volume migration
952	(3B8)	ADDRESS	4	C@HPUTFULL	Write complete HDB/IOT
956	(3BC)	ADDRESS	4	C@HWAITBUF	Wait for all I/O to end
960	(3C0)	ADDRESS	4	C@OBTGBAT	Obtain BAT for GET request
964	(3C4)	ADDRESS	4	C@PROTENDR	Protected Endreq entry pt
968	(3C8)	ADDRESS	4	C#PROTENDR	Protected Endreq PC number
972	(3CC)	ADDRESS	4	C@PRENRREC	Protected Endreq recov rtn
976	(3D0)	ADDRESS	4	C@PROTGET	Protected Get entry point
980	(3D4)	ADDRESS	4	C#PROTGET	Protected Get PC number
984	(3D8)	ADDRESS	4	C@PRGETREC	Protected Get recovery rtn
988	(3DC)	ADDRESS	4	C@PROTPUT	Protected Put entry point
992	(3E0)	ADDRESS	4	C#PROTPUT	Protected Put PC number
996	(3E4)	ADDRESS	4	C@PRPUTREC	Protected Put recovery rtn
1000	(3E8)	ADDRESS	4	C@PROTPNT	Protected Point entry point

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1004	(3EC)	ADDRESS	4	C#PROTPNT	Protected Point PC number
1008	(3F0)	ADDRESS	4	C@PRPNTREC	Protected Point recovery rt
1012	(3F4)	ADDRESS	4	C@PROTSRB	Protected Get SRB entry pnt
1016	(3F8)	ADDRESS	4	C#PROTSRB	Protected Get SRB PC number
1020	(3FC)	ADDRESS	4	C@PRSRBREC	Protected SRB recovery rtn
1024	(400)	ADDRESS	4	C@RELGBAT	Release BAT for GET request
1028	(404)	ADDRESS	4	C@SVCADDCT	Add packed decimal
1032	(408)	ADDRESS	4	C@UPDDSCA	Update current DSCA pointer

Comment

MODULE HASCPPOOL ROUTINES LISTED ALPHABETICALLY

End of Comment

1036	(40C)	ADDRESS	4	C@CPBUILD	CPool build entry point
1040	(410)	ADDRESS	4	C#CPBUILD	CPool build PC number
1044	(414)	ADDRESS	4	C@CPBREC	CPool build recovery rtn
1048	(418)	ADDRESS	4	C@CPCONTRA	CPool contract service
1052	(41C)	ADDRESS	4	C#CPCONTRA	CPool contract PC number
1056	(420)	ADDRESS	4	C@CPCREC	CPool contract recovery rtn
1060	(424)	ADDRESS	4	C@CPDELETE	CPool delete entry point
1064	(428)	ADDRESS	4	C#CPDELETE	CPool delete PC number
1068	(42C)	ADDRESS	4	C@CPDREC	CPool delete recovery rtn
1072	(430)	ADDRESS	4	C@CPEXPAND	CPool expand entry point
1076	(434)	ADDRESS	4	C#CPEXPAND	CPool expand PC number
1080	(438)	ADDRESS	4	C@CPXREC	CPool expand recovery rtn
1084	(43C)	ADDRESS	4	C@CPFREE	CPool free entry point
1088	(440)	ADDRESS	4	C#CPFREE	CPool free PC number
1092	(444)	ADDRESS	4	C@CPFREC	CPool free recovery rtn
1096	(448)	ADDRESS	4	C@CPGET	CPool get entry point
1100	(44C)	ADDRESS	4	C#CPGET	CPool get PC number
1104	(450)	ADDRESS	4	C@CPGREC	CPool get recovery rtn
1108	(454)	ADDRESS	4	C@CPINIT	CPool initialization
1112	(458)	ADDRESS	4	C@CPMODIFY	CPool modify entry point
1116	(45C)	ADDRESS	4	C#CPMODIFY	CPool modify PC number
1120	(460)	ADDRESS	4	C@CPMREC	CPool modify recovery rtn
1124	(464)	ADDRESS	4	C@CPQCELL	CPool query cell entry pt
1128	(468)	ADDRESS	4	C#CPQCELL	CPool query call PC number
1132	(46C)	ADDRESS	4	C@CPQCREC	CPool query cell recovery
1136	(470)	ADDRESS	4	C@CPQEXT	CPool query extent entry pt
1140	(474)	ADDRESS	4	C#CPQEXT	CPool query extent PC numb
1144	(478)	ADDRESS	4	C@CPQXREC	CPool query extent recovery
1148	(47C)	ADDRESS	4	C@CPQPOOL	CPool query pool entry pt
1152	(480)	ADDRESS	4	C#CPQPOOL	CPool query pool PC number
1156	(484)	ADDRESS	4	C@CPQPREC	CPool query pool recovery
1160	(488)	ADDRESS	4	C@CPTERM	CPool termination
1164	(48C)	ADDRESS	4	CADDR@CPLTABS	

CPool table of JES2 pools, not for \$CALL, data only

Comment

MODULE HASCRQUE ROUTINES LISTED ALPHABETICALLY

End of Comment

1168	(490)	ADDRESS	4	C@\$RQUEACT	Activate service
1172	(494)	ADDRESS	4	C@\$RQUECMP	Wait for completion
1176	(498)	ADDRESS	4	C@\$RQUEDEA	Deactivate service
1180	(49C)	ADDRESS	4	C@\$RQUEDEQ	Dequeue MTRB service
1184	(4A0)	ADDRESS	4	C@\$RQUEEXE	Execute request
1188	(4A4)	ADDRESS	4	C@\$RQUEGET	Get request
1192	(4A8)	ADDRESS	4	C@\$RQUERET	Return request

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Module HASCSAPI Routines listed alphabetically					
End of Comment					
1196	(4AC)	ADDRESS	4	C@CSPEOX	Scan SAPIDs for terminating TCB or memory
Comment					
Module HASCSCAN Routines listed alphabetically					
End of Comment					
1200	(4B0)	ADDRESS	4	C@\$SCAN	\$SCAN main routine
1204	(4B4)	ADDRESS	4	C@\$SCANB	\$SCANB service routine
1208	(4B8)	ADDRESS	4	C@\$SCANCOM	\$SCANCOM service routine
1212	(4BC)	ADDRESS	4	C@\$SCAND	\$SCAN Main routine
1216	(4C0)	ADDRESS	4	C@BACKRETN	BACKRETN Service Routine
1220	(4C4)	ADDRESS	4	C@PREDNAME	PRESCAN to display keyword
1224	(4C8)	ADDRESS	4	C@PREFILT	Prescan to apply filters
1228	(4CC)	ADDRESS	4	C@RESTORE	RESTORE Service Routine
1232	(4D0)	ADDRESS	4	C@SCANDIAG	\$SCANDIA Service routine
1236	(4D4)	ADDRESS	4	C@SCNDBRNG	RESTORE Service Routine
1240	(4D8)	ADDRESS	4	CADDR@SCNDIAGT	Diagnostic message table
1244	(4DC)	ADDRESS	4	C@SCNDGRTN	RESTORE Service Routine
1248	(4E0)	ADDRESS	4	C@SCNDVVAL	RESTORE Service Routine
Comment					
MODULE HASCSJIJ ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1252	(4E4)	ADDRESS	4	C@DATASERV	JOB INFORMATION SERVICE
1256	(4E8)	ADDRESS	4	C@REFRDSRV	Refresh non-CKPT data
Comment					
Module HASCSIJP routines listed alphabetically					
End of Comment					
1260	(4EC)	ADDRESS	4	K@JPXIBLD	Build JESplex info array subroutine
1264	(4F0)	ADDRESS	4	C@PRIPRINI	Initiator processing entry
1268	(4F4)	ADDRESS	4	C@PRITORD	Initiator data SSI
1272	(4F8)	ADDRESS	4	C@PRJPCLS	Job class data SSI
1276	(4FC)	ADDRESS	4	C@PRJPLEX	JESplex data SSI
1280	(500)	ADDRESS	4	C@PRJPNJN	NJE node SSI
1284	(504)	ADDRESS	4	C@PRJPSPL	Spool data SSI
1288	(508)	ADDRESS	4	K@PRSMIGD	Spool data SSI - Migration data subroutine
Comment					
MODULE HASCSIRQ ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1292	(50C)	ADDRESS	4	C@\$DESTCHK	AUTHORIZE TRANSMIT TO DEST
1296	(510)	ADDRESS	4	C@\$NOTIFY	Send notify message
1300	(514)	ADDRESS	4	K@MCSFLUSH	MCS flush routine
1304	(518)	ADDRESS	4	C@TSCNVJB	CONVERT EXT JOB ID TO JOB NUM
1308	(51C)	ADDRESS	4	K@USERDEST	VERIFY DESTINATION
1312	(520)	ADDRESS	4	C@USERSUB	USER/SUBTASK EXIT EFFECTOR
1316	(524)	ADDRESS	4	C@USRNEWND	Assign new node to dest
1320	(528)	ADDRESS	4	C@WTALOGQ	Flush S35D Joblog queue
1324	(52C)	ADDRESS	4	C@WTASRBQI	Schedule JOBLOG SRB immed

Offsets

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

Module HASCSISC routines listed alphabetically

End of Comment

1328	(530)	ADDRESS	4	K@CNVDEVID	Convert DEVID to EBCDIC
1332	(534)	ADDRESS	4	C@CRJOES	Create JOEs from PDDDB
1336	(538)	ADDRESS	4	C@CVDEVID	Process device ID to name conversion
1340	(53C)	ADDRESS	4	C@ESWFREE	Free ESWORK area
1344	(540)	ADDRESS	4	C@PRJBCLD	Process job class info
1348	(544)	ADDRESS	4	C@PRSPLIO	Process spool I/O info

Comment

Module HASCSJFA Routines Listed Alphabetically

End of Comment

1352	(548)	ADDRESS	4	C@HSJFACC	MVS SJFACC Routine
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Comment

Module HASCSJFS Routines Listed Alphabetically

End of Comment

1356	(54C)	ADDRESS	4	C@HASJFREQ	SJFREQ Service Routine
1360	(550)	ADDRESS	4	C@HASJIDST	IPADDR/DEST Process - CSJFS
1364	(554)	ADDRESS	4	C@SFLOPDDDB	Locate PDDDB using CTOKEN
1368	(558)	ADDRESS	4	C@SJFSWBRD	SWB Read Service Routine
1372	(55C)	ADDRESS	4	C@SWBTUMRG	SWB Merge Service Routine
1376	(560)	ADDRESS	4	C@TUXTRACT	TU extraction - HASCSJFS

Comment

Module HASCSRAX routines listed alphabetically

End of Comment

1380	(564)	ADDRESS	4	C@GETJ2AUX	Access aux address space
1384	(568)	ADDRESS	4	C@DELJ2AUX	Delete aux address space

Comment

MODULE HASCSRDS ROUTINES LISTED ALPHABETICALLY

End of Comment

1388	(56C)	ADDRESS	4	C@\$CBIO	CONTROL BLOCK I/O ROUTINE ADDR
1392	(570)	ADDRESS	4	C@\$FNDRIOT	FIND REUSEABLE SPIN IOT
1396	(574)	ADDRESS	4	C@\$IOTBLD	BUILD AN IOT ROUTINE
1400	(578)	ADDRESS	4	C@\$PDBFIND	FIND A PDDDB ROUTINE
1404	(57C)	ADDRESS	4	C@\$PDBNEXT	Find next PDDDB same key
1408	(580)	ADDRESS	4	C@\$SDBCHEK	Verify a SDB/DCT routine
1412	(584)	ADDRESS	4	C@\$SDBFREE	FREE AN SDB
1416	(588)	ADDRESS	4	C@\$SDBINIT	INITIALIZE AN SDB
1420	(58C)	ADDRESS	4	C@\$VERIFY	\$VERIFY SERVICE ROUTINE ADDRESS
1424	(590)	ADDRESS	4	C@ASOKADD	Add ASOK for SDB
1428	(594)	ADDRESS	4	C@ASOKDEL	Delete ASOK for SDB
1432	(598)	ADDRESS	4	C@ASOKGC	Garbage collect ASOKs
1436	(59C)	ADDRESS	4	C@DSNCMP	SYSIN/SYSOUT DATASET COMPRESS
1440	(5A0)	ADDRESS	4	C@DSNVFY	SYSIN/SYSOUT DATASET VERIFY
1444	(5A4)	ADDRESS	4	C@ENF58BLD	Build ENF58 parm lists
1448	(5A8)	ADDRESS	4	C@HALCLASS	CHECK SYSOUT CLASS FOR HOLD RTN
1452	(5AC)	ADDRESS	4	C@HALUPCAT	Update data set catalog
1456	(5B0)	ADDRESS	4	CADDR@HASPVTAB	\$VERIFY control block table

\$CADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1460	(5B4)	ADDRESS	4	C@HCBCK	CHECKPOINT HASP CONTROL BLOCKS
1464	(5B8)	ADDRESS	4	C@HCBFM	FREEMAIN CONTROL BLOCK STORAGE
1468	(5BC)	ADDRESS	4	C@HCBGM	GETMAIN CONTROL BLOCK STORAGE
1472	(5C0)	ADDRESS	4	C@HFCLSUB	FAKE CLOSE DATASETS
1476	(5C4)	ADDRESS	4	C@HFCLTRNC	TRUNCATE A BUFFER ROUTINE
1480	(5C8)	ADDRESS	4	C@HJSRETAB	REBUILD SDB TAB
1484	(5CC)	ADDRESS	4	C@HONEWOUT	OPEN NEW OUTPUT DATASET RTN
1488	(5D0)	ADDRESS	4	C@HOOLDINP	OPEN OLD INPUT DATASET RTN
1492	(5D4)	ADDRESS	4	C@HOOLDOUT	OPEN OLD OUTPUT DATASET RTN
1496	(5D8)	ADDRESS	4	C@MQTRVAL	Validate MQTR routine
1500	(5DC)	ADDRESS	4	C@MQTR0VAL	Validate MQTR (R = 0 OK)
1504	(5E0)	ADDRESS	4	C@MTTRVAL	VALIDATE MTTR ROUTINE
1508	(5E4)	ADDRESS	4	C@MTTR0VAL	Validate MTTR (R = 0 OK)
1512	(5E8)	ADDRESS	4	C@OLDJOE	Old JOE
1516	(5EC)	ADDRESS	4	C@PDDBUPD	Update Pddb
1520	(5F0)	ADDRESS	4	C@SIGIOU	Signature Rcd I/O Routine
1524	(5F4)	ADDRESS	4	C@SYMTT	Generate SIGIO SYMREC rtn
1528	(5F8)	ADDRESS	4	C@SYSOVFY	SYSOUT validation routine
1532	(5FC)	ADDRESS	4	C@USENF58	User environment ENF58 rtn

Comment

MODULE HASCSRIC ROUTINES LISTED ALPHABETICALLY

End of Comment

1536	(600)	ADDRESS	4	C@\$POST	POST HASP TASK
1540	(604)	ADDRESS	4	K@\$BITMAP	\$BITMAP service
1544	(608)	ADDRESS	4	C@\$MGIOMSG	SEND MIGRATION MESSAGE FOR BUFFER MAIN TASK I/O.
1548	(60C)	ADDRESS	4	C@\$MGIOSJM	SEND MIGRATION MESSAGE FOR SJOB MAIN TASK I/O.
1552	(610)	ADDRESS	4	C@\$RACROUT	ISSUE SAF CALL
1556	(614)	ADDRESS	4	C@\$STRAK	ALLOCATE TRACK ADDRESS
1560	(618)	ADDRESS	4	C@\$SVJLOK	GET JOB COM QUEUES LOCK RTN
1564	(61C)	ADDRESS	4	C@\$SVJLOK2	Secondary locking routine
1568	(620)	ADDRESS	4	C@\$SVJTEST	TEST FOR JCQ LOCK OWNERSHIP
1572	(624)	ADDRESS	4	C@\$SVJUNLK	RELEASE JOB COM QUEUES LOCK RTN
1576	(628)	ADDRESS	4	C@\$TRACER	EVENT TRACE FACILITY
1580	(62C)	ADDRESS	4	C@\$STRAREL	\$TRACE RELEASE ENTRY POINT
1584	(630)	ADDRESS	4	C@\$TRCFILT	\$TRACE filter routine
1588	(634)	ADDRESS	4	C@\$VFLI	SIMULATE VFL INSTRUCTION
1592	(638)	ADDRESS	4	C@\$XMPOST	CROSS MEMORY POST ROUTINE
1596	(63C)	ADDRESS	4	C@\$XMPOSTX	Extended cross memory post
1600	(640)	ADDRESS	4	C@BERTREAD	CSA \$DOGBERT Fetch support
1604	(644)	ADDRESS	4	C@BRTCOUNT	BERT count service
1608	(648)	ADDRESS	4	C@CATBFREE	Free unused \$CATBERT
1612	(64C)	ADDRESS	4	C@CATREAD	CSA \$DOGCAT Fetch support
1616	(650)	ADDRESS	4	C@CKPTVERS	Obtain/release ckpt version
1620	(654)	ADDRESS	4	C@DJBREAD	CSA \$DOGDJB Fetch support
1624	(658)	ADDRESS	4	C@DOMCHECK	Seclabel Dominance check
1628	(65C)	ADDRESS	4	C@FIFOBLK	FIFO Block/Release
1632	(660)	ADDRESS	4	C@FIFODEQ	Remove elmnt from FIFO que
1636	(664)	ADDRESS	4	C@FIFOENQ	Place element on FIFO queue
1640	(668)	ADDRESS	4	C@FIFOGTQ	Dechain entire FIFO queue
1644	(66C)	ADDRESS	4	C@GOFDSERV	GET/FREE DSERV addr
1648	(670)	ADDRESS	4	C@GRPASGN	ASSIGN GROUPING TOKEN
1652	(674)	ADDRESS	4	C@HCNVTIME	USED BY C/T FOR A TOD CONVERSION ROUTINE IN HASCSRIC
1656	(678)	ADDRESS	4	C@HKYMERGE	MERGE OUTPUT JCL KEYWORDS RTN
1660	(67C)	ADDRESS	4	C@HOSWB	GET SWB ERROR ROUTINE
1664	(680)	ADDRESS	4	C@HSJFLSP	FREE SJF STORAGE ROUTINE
1668	(684)	ADDRESS	4	C@JOERead	CSA \$DOGJOE Fetch support
1672	(688)	ADDRESS	4	C@JQERead	CSA \$DOGJQE Fetch support
1676	(68C)	ADDRESS	4	C@PPSOSJB	PURGE PSO FROM SJB ROUTINE
1680	(690)	ADDRESS	4	C@PREWTO	WTO PREPROCESSING ROUTINE
1684	(694)	ADDRESS	4	C@PRTAUTH	JESNEWS & SYSOUT DATA SET AUTHORIZATION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1688	(698)	ADDRESS	4	C@PSQUEUE	PSO QUEUE ROUTINE
1692	(69C)	ADDRESS	4	C@RECA BORT	PSO,STATUS,CANCEL recovery
1696	(6A0)	ADDRESS	4	C@RRW TORTN	Issue chain of WTO msgs
1700	(6A4)	ADDRESS	4	C@SECL EXTR	SECLABEL extract affinity
1704	(6A8)	ADDRESS	4	C@SSV XDEF	EXIT DEFINITION ROUTINE
1708	(6AC)	ADDRESS	4	C@TBAD TGBQ	Queue bad TGB to HASPSPOL
1712	(6B0)	ADDRESS	4	C@TOKEN SR	TOKEN retrieve service
1716	(6B4)	ADDRESS	4	C@TRK CELL	Track Cell allocation
1720	(6B8)	ADDRESS	4	C#TRK CELL	Track Cell allocation PC #
1724	(6BC)	ADDRESS	4	C@TRK CELLA	Track Cell allocation ARR
1728	(6C0)	ADDRESS	4	C@TSET LOCK	GET LOCAL AND CMS LOCKS ROUTINE
1732	(6C4)	ADDRESS	4	C@TSFRE LOK	FREE LOCAL AND CMS LOCKS RTN
1736	(6C8)	ADDRESS	4	C@WSCREAD	CSA \$WSCJQE Fetch support
1740	(6CC)	ADDRESS	4	C@XBF PITCH	JESXCF directed PROTSRB
1744	(6D0)	ADDRESS	4	C@XCF XMBN	Build JESXCF member name for XSYS data rtn group
1748	(6D4)	ADDRESS	4	C@XMXSRB	Extended post SRB routine
1752	(6D8)	ADDRESS	4	C@XMXRMTR	Extended post RMTR routine
1756	(6DC)	ADDRESS	4	C@XSYSINIT	Init cross system interface for data retrieval
1760	(6E0)	ADDRESS	4	C@XSYSTEM	Term cross system interface for data retrieval

Comment

Module HASCSRIP Routines Listed Alphabetically

End of Comment

1764	(6E4)	ADDRESS	4	C@\$LOGMSG	JOBLOG/SYSMSGs access rtn
1768	(6E8)	ADDRESS	4	C@CJOBKILL	Abort job
1772	(6EC)	ADDRESS	4	C@CJOBEND	Job end processing
1776	(6F0)	ADDRESS	4	C@HASPRCCS	Control Card (JECL) scan
1780	(6F4)	ADDRESS	4	C@HASPRDDS	Dataset services
1784	(6F8)	ADDRESS	4	C@HASPRSCN	Accounting field scan rtn
1788	(6FC)	ADDRESS	4	C@JOBVALM	Job validation
1792	(700)	ADDRESS	4	C@RACCTSET	Parse ACCT field for SAF
1796	(704)	ADDRESS	4	C@RANLZCRD	Analyze New Card Image
1800	(708)	ADDRESS	4	C@RCARDSCN	Scan keywords on JCL/JECL
1804	(70C)	ADDRESS	4	C@RDEL RJCB	Delete all queued RJCBs
1808	(710)	ADDRESS	4	C@RDELWTO	Job deleted WTO
1812	(714)	ADDRESS	4	C@RESTINFO	Scan keywords on JCL/JECL
1816	(718)	ADDRESS	4	C@REXTENMG	Extend msgs with FROM info
1820	(71C)	ADDRESS	4	C@RFRERJCB	Free one/all RJCBs
1824	(720)	ADDRESS	4	C@RGET RJCB	Get an RJCB
1828	(724)	ADDRESS	4	C@RGETSPOF	Get SPOF section
1832	(728)	ADDRESS	4	C@RJOBDEF	Set JQE/JCT defaults
1836	(72C)	ADDRESS	4	C@RJOBONMG	Issue ON READER message
1840	(730)	ADDRESS	4	C@RMSGQUE	Queue message to be issued
1844	(734)	ADDRESS	4	C@RNJCOMSG	NJE skipping message
1848	(738)	ADDRESS	4	C@RNJEONMG	NJE S&F ON READER message
1852	(73C)	ADDRESS	4	C@RPDBBLD	Create system PDDBs
1856	(740)	ADDRESS	4	C@RPDBINIT	Complete system PDDBs
1860	(744)	ADDRESS	4	C@RPDBSEC	System Pddb init routine
1864	(748)	ADDRESS	4	C@RPROCJCL	Process JCL statement
1868	(74C)	ADDRESS	4	C@RPRCRCCS	Process RCCS header
1872	(750)	ADDRESS	4	C@RPSTCXIT	Post exits 2,4,52,54 proc
1876	(754)	ADDRESS	4	C@RPUTSCAN	Stip PASSWORDs at PUT

Comment

MODULE HASCSRJB ROUTINES LISTED ALPHABETICALLY

End of Comment

1880	(758)	ADDRESS	4	C@\$JBIDBLD	JOB ID BUILD ROUTINE
1884	(75C)	ADDRESS	4	C@\$JCTINIT	Initialize a JCT
1888	(760)	ADDRESS	4	C@\$JQESERV	JQE Request service
1892	(764)	ADDRESS	4	C@\$QLOCC	Locate JQE for a job #

\$CADDR Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1896	(768)	ADDRESS	4	C@\$SJBFIN	FIND AN SJB
1900	(76C)	ADDRESS	4	C@\$SJBLOCK	LOCK AN SJB
1904	(770)	ADDRESS	4	C@\$SJBREQ	REQUEUE AN SJB
1908	(774)	ADDRESS	4	C@\$SJBUNLK	UNLOCK AN SJB
1912	(778)	ADDRESS	4	C@AUDSAF	Audit job removal
1916	(77C)	ADDRESS	4	C@ENF70BLD	Build ENF 70 parm lists
1920	(780)	ADDRESS	4	C@FREEJCT	Free JCT and related stor
1924	(784)	ADDRESS	4	C@HETSOUT	SAVES STATUS ON INTERRUPT
1928	(788)	ADDRESS	4	C@SJBFREE	FREE AN SJB
1932	(78C)	ADDRESS	4	C@SJBINIT	CREATE AN SJB
1936	(790)	ADDRESS	4	C@SJIOBINT	SJIOB initialization
1940	(794)	ADDRESS	4	C@USENF70	Issue ENF 70

Comment

Module HASCSRJM routines listed alphabetically

End of Comment

1944	(798)	ADDRESS	4	C@GETJ2MON	Access monitor addr space
1948	(79C)	ADDRESS	4	C@DELJ2MON	Delete monitor addr space
1952	(7A0)	ADDRESS	4	C@MONSSIRQ	Monitor SSI request service

Comment

Module HASCUBSR routines listed alphabetically

End of Comment

1956	(7A4)	ADDRESS	4	C@UBSRB	Unwritten buffer SRB rtn
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Comment

Module HASCXJCT routines listed alphabetically

End of Comment

1960	(7A8)	ADDRESS	4	C@\$JCTXADD	Add \$JCT extension
1964	(7AC)	ADDRESS	4	C@\$JCTXEXP	Expand \$JCT extension
1968	(7B0)	ADDRESS	4	C@\$JCTXGET	Locate \$JCT extension
1972	(7B4)	ADDRESS	4	C@\$JCTXREM	Delete \$JCT extension

Comment

MVS entry points listed alphabetically

End of Comment

1976	(7B8)	ADDRESS	4	C@CSRC4ACT	MVS CPOOL Activate extent
1980	(7BC)	ADDRESS	4	C@CSRC4BLD	MVS CPOOL Build routine
1984	(7C0)	ADDRESS	4	C@CSRC4CON	MVS CPOOL Connect storage
1988	(7C4)	ADDRESS	4	C@CSRC4DAC	MVS CPOOL Deactivate extent
1992	(7C8)	ADDRESS	4	C@CSRC4DIS	MVS CPOOL Disconn storage
1996	(7CC)	ADDRESS	4	C@CSRC4EXP	MVS CPOOL Expand routine
2000	(7D0)	ADDRESS	4	C@CSRC4QCL	MVS CPOOL Query cell rtn
2004	(7D4)	ADDRESS	4	C@CSRC4QEX	MVS CPOOL Query extent rtn
2008	(7D8)	ADDRESS	4	C@CSRC4QPL	MVS CPOOL Query pool rtn
2012	(7DC)	ADDRESS	4	C@CSRC4RFR	MVS CPOOL Free routine
2016	(7E0)	ADDRESS	4	C@CSRC4RGT	MVS CPOOL Get routine
2020	(7E4)	ADDRESS	4	C@IEANTCR	MVS NAME/TOKEN Create rtn
2024	(7E8)	ADDRESS	4	C@IEANTDL	MVS NAME/TOKEN Delete rtn
2028	(7EC)	ADDRESS	4	C@IEANTRT	MVS NAME/TOKEN Retrieve rtn
2032	(7F0)	ADDRESS	4	C@IEAVM703	MVS message extract routine
2036	(7F4)	ADDRESS	4	C@IEAVH709	MVS MCS flush routine

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
RESERVED FOR FUTURE USE FIELDS--(LAST ENTRIES IN CADDR)					
End of Comment					
2040	(7F8)	ADDRESS	4	CADDRREQE (0)	End of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
2040	(7F8)	ADDRESS	4	(4)	Reserved for future use
Comment					
<p>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.</p>					
End of Comment					
2040	(7F8)	X'808'	0	CADDRLEN	**-CADDR" LENGTH OF THE CADDR TABLE

\$CADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
C#\$SSIAUTH	1FC		C@\$DESTCHK	50C	
C#CPBUILD	410		C@\$DSCTBLD	34	
C#CPCONTRA	41C		C@\$DYNLPA	1C8	
C#CPDELETE	428		C@\$ECBEXIT	1CC	
C#CPEXPAND	434		C@\$ECBPOST	1D0	
C#CPFREE	440		C@\$FBUFRTN	1D4	
C#CPGET	44C		C@\$FNDRLOT	570	
C#CPMODIFY	45C		C@\$FRECEL	1D8	
C#CPQCELL	468		C@\$FRETBUF	240	
C#CPQEXT	474		C@\$GASSIGN	110	
C#CPQPOOL	480		C@\$GETCEL	1DC	
C#HINTRDR	3A0		C@\$GETTBUF	244	
C#HIOCHECK	3AC		C@\$GKGET	104	
C#NJEXISIN	2B8		C@\$GKINIT	108	
C#NJEXISOT	2C0		C@\$GKTERM	10C	
C#NJEXOSIN	2C8		C@\$GSINIT	114	
C#NJEXOSOT	2D0		C@\$GSTERM	118	
C#NJEXSTNM	2DC		C@\$HGFMMAIN	1E4	
C#NJEXSTRQ	2E4		C@\$IOTBLD	574	
C#NJEXTRAC	2F0		C@\$JBIDBLD	758	
C#PROTENDR	3C8		C@\$JCTINIT	75C	
C#PROTGET	3D4		C@\$JCTXADD	7A8	
C#PROTPNT	3EC		C@\$JCTXEXP	7AC	
C#PROTPUT	3E0		C@\$JCTXGET	7B0	
C#PROTSRB	3F8		C@\$JCTXREM	7B4	
C#TRKCELL	6B8		C@\$JQESERV	760	
C@\$POST	600		C@\$LOGMSG	6E4	
C@\$ALESERV	88		C@\$MGIOMSG	608	
C@\$ALLDAU	2C		C@\$MGIOSJM	60C	
C@\$ASDCCLR	170		C@\$MLTFBUF	1EC	
C@\$ASDCUPD	174		C@\$MSDDUMP	1F4	
C@\$CBIO	56C		C@\$MSGDISR	18	
C@\$CGETABL	1B4		C@\$MSGSCAN	1C	
C@\$CRETANY	1B8		C@\$NOTIFY	510	
C@\$CRETRN	1BC		C@\$NSSTLOK	248	
C@\$CSAVANY	1C0		C@\$PDBBLD	38	
C@\$CSAVE	1C4		C@\$PDBDEFS	3C	
C@\$CSUBIT	2FC		C@\$PDBFIND	578	

\$CADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
C@\$PDBNEXT	57C		C@CLEANJRW	154	
C@\$QLOCC	764		C@CNIN2OUT	388	
C@\$RACROUT	610		C@CPBREC	414	
C@\$REPLY	20		C@CPBUILD	40C	
C@\$RQUEACT	490		C@CPCONTRA	418	
C@\$RQUECMP	494		C@CPCREC	420	
C@\$RQUEDEA	498		C@CPDELETE	424	
C@\$RQUEDEQ	49C		C@CPDREC	42C	
C@\$RQUEEXE	4A0		C@CPEXPAND	430	
C@\$RQUEGET	4A4		C@CPFREC	444	
C@\$RQUERET	4A8		C@CPFREE	43C	
C@\$SCAN	4B0		C@CPGET	448	
C@\$SCANB	4B4		C@CPGREC	450	
C@\$SCANCOM	4B8		C@CPINIT	454	
C@\$SCAND	4BC		C@CPJAFF	8	
C@\$SDBCHEK	580		C@CPJCLINI	C	
C@\$SDBFREE	584		C@CPJCLTRM	10	
C@\$SDBINIT	588		C@CPMODIFY	458	
C@\$SJBFIN	768		C@CPMREC	460	
C@\$SJBLOCK	76C		C@CPQCELL	464	
C@\$SJBREQ	770		C@CPQCREC	46C	
C@\$SJBUNLK	774		C@CPQEXT	470	
C@\$SSIAUTH	1F8		C@CPQPOOL	47C	
C@\$SSIBEGN	200		C@CPQPREC	484	
C@\$SSIEND	204		C@CPQXREC	478	
C@\$STRAK	614		C@CPROCARD	158	
C@\$SVJLOK	618		C@CPTERM	488	
C@\$SVJLOK2	61C		C@CPUT	15C	
C@\$SVJTEST	620		C@CPXREC	438	
C@\$SVJUNLK	624		C@CRJOES	534	
C@\$SYMREC	208		C@CSETVECT	160	
C@\$TRACER	628		C@CSPEOX	4AC	
C@\$TRAREL	62C		C@CSPLOPN	164	
C@\$TRCFILT	630		C@CSRC4ACT	7B8	
C@\$UALDAU	30		C@CSRC4BLD	7BC	
C@\$UCBINDX	1A4		C@CSRC4CON	7C0	
C@\$VERIFY	58C		C@CSRC4DAC	7C4	
C@\$VFLI	634		C@CSRC4DIS	7C8	
C@\$XMPOST	638		C@CSRC4EXP	7CC	
C@\$XMPOSTX	63C		C@CSRC4QCL	7D0	
C@ABEND722	384		C@CSRC4QEX	7D4	
C@ABNDADJ	20C		C@CSRC4QPL	7D8	
C@ABNDSKIP	210		C@CSRC4RFR	7DC	
C@ARMEQJ	14		C@CSRC4RGT	7E0	
C@ASOKADD	590		C@CVDEVID	538	
C@ASOKDEL	594		C@CXMTRTNE	168	
C@ASOKGC	598		C@DATASERV	4E4	
C@AUDSAF	778		C@DELJ2AUX	568	
C@BACKRETN	4C0		C@DELJ2MON	79C	
C@BERTREAD	640		C@DELJ2SRV	24C	
C@BRTCOUNT	644		C@DJBREAD	654	
C@CATBFREE	648		C@DOMCHECK	658	
C@CATREAD	64C		C@DSNCMP	59C	
C@CCLSSYSI	134		C@DSNVFY	5A0	
C@CEXITACT	138		C@DSOPEN	64	
C@CEXITCRD	13C		C@DSPSERV	8C	
C@CINITJRW	140		C@ENFISSUE	90	
C@CIOTCLN	144		C@ENF58BLD	5A4	
C@CIRDPUT	148		C@ENF70BLD	77C	
C@CJOBBLD	14C		C@EOBLOB	1AC	
C@CJOBEND	6EC		C@EOTFDCON	1B0	
C@CJOBKILL	6E8		C@ESWFREE	53C	
C@CJOBVfy	150		C@FIFOBK	65C	
C@CKPTVERS	650		C@FIFODEQ	660	
C@CLEANBAT	1A8		C@FIFOENQ	664	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
C@FIFOGTQ	668		C@HOOLDOUT	5D4	
C@FINDLMOD	220		C@HOSWB	67C	
C@FINDMOD	214		C@HPUTFULL	3B8	
C@FREEJCT	780		C@HSJFACC	548	
C@FREPBLK	38C		C@HSJFLSP	680	
C@FRESDBLK	390		C@HWAITBUF	3BC	
C@FRETRE	218		C@IEANTCR	7E4	
C@GETJ2AUX	564		C@IEANTDL	7E8	
C@GETJ2MON	798		C@IEANTRT	7EC	
C@GETJ2SRV	250		C@IEAVH709	7F4	
C@GETPBLOK	394		C@IEAVM703	7F0	
C@GETSDBLK	398		C@IRCLNUP	16C	
C@GETTRE	21C		C@JBFOUND	190	
C@GOFDSERV	66C		C@JBSELECT	194	
C@GRPASGN	670		C@JESLOGC	60	
C@GRPINIT	178		C@JOBSTATS	198	
C@HASCNJGP	2F4		C@JOBVALM	6FC	
C@HASCNJRQ	330		C@JOEREA	684	
C@HALCLASS	5A8		C@JQEREA	688	
C@HALFDSNR	40		C@JSOPSSDS	19C	
C@HALOPDBI	44		C@JSREOPEN	1A0	
C@HALRDCAT	48		C@MBSCATTN	224	
C@HALUNAL	4C		C@MONSSIRQ	7A0	
C@HALUPCAT	5AC		C@MQTRVAL	5D8	
C@HAMNULL	120		C@MQTROVAL	5DC	
C@HAMPSTER	124		C@MTTRVAL	5E0	
C@HASJFREQ	54C		C@MTTROVAL	5E4	
C@HASJIDST	550		C@NJEABSNP	32C	
C@HASPAMI	128		C@NJEFOPEN	254	
C@HASPNACT	28C		C@NJEFREBF	258	
C@HASPRCCS	6F0		C@NJEHBLD	25C	
C@HASPRDDS	6F4		C@NJEHDADD	260	
C@HASPRSCN	6F8		C@NJEHDEXP	264	
C@HBSRBLDL	5C		C@NJEHDMAK	268	
C@HCBCK	5B4		C@NJEHDRDU	26C	
C@HCBFM	5B8		C@NJEHDREM	270	
C@HCBGM	5BC		C@NJEHDVAL	274	
C@HCNVTIME	674		C@NJEHDWRU	278	
C@HETSOUT	784		C@NJEPORCV	27C	
C@HFCLSUB	5C0		C@NJEPRXMT	280	
C@HFCLTRNC	5C4		C@NJETBLD	284	
C@HFEXFSPC	68		C@NJETRACE	288	
C@HFEXJESL	6C		C@NJEXARR	298	
C@HFEXSDET	70		C@NJEXASEA	29C	
C@HFEXSPIN	74		C@NJEXASIN	2A0	
C@HFJDLIN	184		C@NJEXASRQ	2A4	
C@HFJLOGTM	180		C@NJEXASTM	2A8	
C@HFJOBLOG	17C		C@NJEXCREQ	2AC	
C@HFOPSUB	78		C@NJEXIREC	2B0	
C@HGETCHN	12C		C@NJEXISIN	2B4	
C@HINTRDR	39C		C@NJEXISOT	2BC	
C@HINTRREC	3A4		C@NJEXOSIN	2C4	
C@HIOCHECK	3A8		C@NJEXOSOT	2CC	
C@HIOCKRY	3B0		C@NJEXSTIN	2D4	
C@HIOTSPIN	50		C@NJEXSTNM	2D8	
C@HJE000	188		C@NJEXSTRQ	2E0	
C@HJSMAKSL	18C		C@NJEXSTTM	2E8	
C@HJSRETAB	5C8		C@NJEXTRAC	2EC	
C@HKYMERGE	678		C@NJGPRCOV	2F8	
C@HMIGTRK	3B4		C@NJJRJOBH	300	
C@HNDUPDTE	54		C@NJJRMAIN	304	
C@HNOTIFY	58		C@NJJRTERM	308	
C@HOCSETUP	7C		C@NJJTJOBH	314	
C@HONEWOUT	5CC		C@NJJTJOBT	318	
C@HOOLDINP	5D0		C@NJJTMAIN	31C	

\$CADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
C@NJJTNTFY	320		C@RFRRERJCB	71C	
C@NJJTTERM	324		C@RGETRJCB	720	
C@NJOBWTO	30C		C@RGETSPOF	724	
C@NJRQENQ	338		C@RJOBDEF	728	
C@NJRQRCOV	334		C@RJOBONMG	72C	
C@NJSRJOBH	33C		C@RMSGQUE	730	
C@NJSRJOBT	340		C@RNJCOMSG	734	
C@NJSRMAIN	344		C@RNJEHDTR	310	
C@NJSRNCOD	358		C@RNJEONMG	738	
C@NJSRNTFY	348		C@RNODEBAD	294	
C@NJSROPTB	360		C@RPDBBLD	73C	
C@NJSRPDDB	34C		C@RPDBINIT	740	
C@NJSRSIGN	350		C@RPDBSEC	744	
C@NJSRTERM	354		C@RPRCRCSS	74C	
C@NJSTMAIN	364		C@RPROCJCL	748	
C@NJSTOPTB	368		C@RPSTCXIT	750	
C@NJSTTERM	36C		C@RPUTSCAN	754	
C@NJTAUTH	328		C@RRWTORTN	6A0	
C@NSRAUTH	35C		C@SCANDIAG	4D0	
C@NSTAUTH	370		C@SCNDBRNG	4D4	
C@NSTCDSH	374		C@SCNDGRTN	4DC	
C@NSTCJBH	378		C@SCNDVVAL	4E0	
C@NSTCJBT	37C		C@SECLEXTR	6A4	
C@OBTGBAT	3C0		C@SFLOPDDB	554	
C@OLDJOE	5E8		C@SIGIOU	5F0	
C@PDDDBUPD	5EC		C@SJBFFREE	788	
C@PPSOSJB	68C		C@SJBINIT	78C	
C@PREDNAME	4C4		C@SJFSWBRD	558	
C@PREFILT	4C8		C@SJJOBINT	790	
C@PREJOBNM	24		C@SSIFINE	22C	
C@PREMG529	290		C@SSISESTA	230	
C@PRENRREC	3CC		C@SSISETUP	234	
C@PREREPGC	28		C@SSVCLSC	80	
C@PREWTO	690		C@SSVOPNC	84	
C@PRGETREC	3D8		C@SSVXDEF	6A8	
C@PRIPRINI	4F0		C@SVCADDCT	404	
C@PRITORD	4F4		C@SWBTUMRG	55C	
C@PRJBCLD	540		C@SYMTT	5F4	
C@PRJPCLS	4F8		C@SYSOVFY	5F8	
C@PRJPLEX	4FC		C@TBADTGBQ	6AC	
C@PRJPNJN	500		C@TOKENSR	6B0	
C@PRJPSPL	504		C@TRKCELL	6B4	
C@PROTENDR	3C4		C@TRKCELLA	6BC	
C@PROTGET	3D0		C@TSCNVJB	518	
C@PROTPNT	3E8		C@TSETLOCK	6C0	
C@PROTPUT	3DC		C@TSFRELOK	6C4	
C@PROTSRB	3F4		C@TUXTRACT	560	
C@PRPNTREC	3F0		C@UBSRB	7A4	
C@PRPUTREC	3E4		C@UPDDSCA	408	
C@PRSPLIO	544		C@USENF58	5FC	
C@PRSRBREC	3FC		C@USENF70	794	
C@PRTAUTH	694		C@USERSUB	520	
C@PSQUEUE	698		C@USRNEWND	524	
C@RACTSET	700		C@WSCREAD	6C8	
C@RANLZCRD	704		C@WTALOGQ	528	
C@RCARDSCN	708		C@WTASRBQI	52C	
C@RDEL RJCB	70C		C@XBFITCH	6CC	
C@RDELWTO	710		C@XCFXMBN	6D0	
C@RECA BORT	69C		C@XM XR MTR	6D8	
C@RECOVERY	228		C@XM XSRB	6D4	
C@REFRDSRV	4E8		C@XSYSINIT	6DC	
C@RELGBAT	400		C@XSYSTEM	6E0	
C@RESTINFO	714		CADDR	0	
C@RESTORE	4CC		CADDR#ENF35	A0	
C@REXTENMG	718		CADDR#ENF41CP		

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	B0		K@\$HGFMANK	1E8	
CADDR#ENF41GL			K@\$MODLOC	1F0	
	A8		K@CNVDEVID	530	
CADDR#ENF42	B8		K@ENF58CDC	94	
CADDR#ENF46	C0		K@ENF70CDC	98	
CADDR#ENF56	C8		K@HPOSTECB	130	
CADDR#ENF57CM			K@JPXIBLD	4EC	
	D0		K@MCSFLUSH	514	
CADDR#ENF57RV			K@PRSMIGD	508	
	D8		K@USERDEST	51C	
CADDR#ENF58NR					
	E0				
CADDR#ENF62NR					
	F8				
CADDR#ENF62RF					
	F0				
CADDR#ENF62RL					
	E8				
CADDR#ENF70NR					
	100				
CADDR@CNTBITAB					
	238				
CADDR@CPLTABS					
	48C				
CADDR@ENF35	9C				
CADDR@ENF41CP					
	AC				
CADDR@ENF41GL					
	A4				
CADDR@ENF42	B4				
CADDR@ENF46	BC				
CADDR@ENF56	C4				
CADDR@ENF57CM					
	CC				
CADDR@ENF57RV					
	D4				
CADDR@ENF58NR					
	DC				
CADDR@ENF62NR					
	F4				
CADDR@ENF62RF					
	EC				
CADDR@ENF62RL					
	E4				
CADDR@ENF70NR					
	FC				
CADDR@HAMAVT	11C				
CADDR@HASPVTAB					
	5B0				
CADDR@OCOOFFST					
	380				
CADDR@SCNDIAGT					
	4D8				
CADDR@TRJNAME					
	23C				
CADDRENFBEQ	9C				
CADDRENFNUM	100	D			
CADDREQE	7F8				
CADDREQS	8				
CADDRID	0	C3C1C4C4			
CADDRLEN	7F8	808			
CADDRVNM	4	7			
CADDRVSN	4				
K@\$BITMAP	604				
K@\$GETHP	1E0				

\$CADDR Cross Reference

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

\$CAT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CAT	HASP CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	X'6'	0	CATVERSN	"6" CAT version
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		CATCSWAL	"B'00000100" SWA ABOVE 16M LINE
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
		.... ..1.		CAT3DUOK	"B'00000010" Duplicate job names OK this job class
		.... ...1		CAT3LSRC	"B'00000001" JOBRC=LASTRC specified for this job class
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

\$CAT Map

Offsets					
Dec	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 (index)
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 JLLEN

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 JESJOB LG) 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 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 \$Z13LSPN=SPIN HJE7780 100818 J_K2: Spin any SPIN data set					
01 A000000-999999 CREATED for JES2 z/OS 1.2					
01 NOTES: The bit definitions in JLGFLAG1 must be the same as the definitions for SPCFLAG1 (\$SPC).					

End of Comment					
101	(65)	BITSTRING	6	CATJLOG	JES log control
108	(6C)	ADDRESS	4	(0)	Word align
108	(6C)	X'6C'	0	CATLEN1	**CAT" Length excluding arrays
108	(6C)	BITSTRING	4	CATQAFF	Members to which the class has affinity
112	(70)	BITSTRING	1	CATMBRMX	Members on which CATJACT is less than CATJMACT
112	(70)	X'8'	0	CATLEN4	**CATQAFF" Length of affinity/max seg
116	(74)	BITSTRING	1	CATFLAG4	Flags
		1...		CAT4JDUP	"B'10000000" At least one duplicate job in this class
117	(75)	BITSTRING	3		Reserved for future use
120	(78)	SIGNED	4	CATJACT (0)	Batch jobs active
120	(78)	X'84'	0	CATLEN2	**CATFLAG4" Length of job active segmt.
248	(F8)	SIGNED	4	CATJMACT (0)	Batch job activity maximum
248	(F8)	X'80'	0	CATLEN3	**CATJMACT" Length of max active segmt.
376	(178)	DBL WORD	8	(0)	Ensure double word bdy
376	(178)	X'178'	0	CATLEN	**CAT" Length of CAT
376	(178)	X'178'	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
376	(178)	X'5B'	0	CATSTCID	"C\$" SYSTEM TASK DISPLAY ID
376	(178)	X'7C'	0	CATTSUID	"C@" FOREGROUND TIME SHARING DISPLAY ID
		.1...		CATNENT	"X'FF-X'C0'+1" NUMBER OF ENTRIES IN CAT

\$CAT Cross Reference

\$CAT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CAT	0		CATTSUID	178	7C
CATCACCT	8		CATVERSN	0	6
CATCALL	8	3	CATXBM	2C	
CATCBLP	19		CAT1CDP	29	80
CATCBLPY	19	1	CAT1NODH	29	4
CATCDSPL	18	F1	CAT1NODK	29	2
CATCEXEC	18	F0	CAT1NODL	29	1
CATCGALL	1A	7	CAT1NODP	29	10
CATCGCON	1A	1	CAT1NODW	29	8
CATCGIO	1A	2	CAT2AODH	2A	4
CATCGSYS	1A	4	CAT2AODK	2A	2
CATCIGN	18	F3	CAT2AODL	2A	1
CATCLASS	34		CAT2AODP	2A	10
CATCLJCL	1E		CAT2AODW	2A	8
CATCMND	18		CAT3DUOK	2B	2
CATCMNTE	B		CAT3LSRC	2B	1
CATCNAME	8	1	CAT3PSEU	2B	20
CATCNONE	8	0	CAT3RBLD	2B	10
CATCNUMB	8	2	CAT3RECO	2B	8
CATCOCG	1A		CAT3SINV	2B	4
CATCONVP	1F	8	CAT3SPEC	2B	40
CATCPBGN	8		CAT3WLM	2B	80
CATCREGN	13		CAT4JDUP	74	80
CATCRGA	17				
CATCRGN	13				
CATCSECS	11				
CATCSWAL	8	4			
CATCTIME	B				
CATCTMSG	1F				
CATCURJ	40				
CATCVER	18	F2			
CATFLAG1	29				
CATFLAG2	2A				
CATFLAG3	2B				
CATFLAG4	74				
CATIMER	4C				
CATJACT	78				
CATJBOPT	1				
CATJLOG	65				
CATJMACT	F8				
CATJOBFL	0				
CATJQER	48				
CATLEN	178	178			
CATLEN1	6C	6C			
CATLEN2	78	84			
CATLEN3	F8	80			
CATLEN4	70	8			
CATLLEN	178	178			
CATMAXJ	3C				
CATMAXT	44				
CATMBRMX	70				
CATMCLAS	64				
CATNENT	178	40			
CATOPSWT	28				
CATPERFM	5				
CATPROCN	2				
CATQAFF	6C				
CATQHDI	50				
CATSCHED	54				
CATSMFLG	4				
CATSTCCL	178	D0			
CATSTCID	178	5B			
CATTSUCL	178	E0			

\$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 initialization 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	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

\$CATBERT Map

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	
CBRMLN	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		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	\$CCWS	, CCW equates DSECT

Comment

Basic CCW fields (format 0)

End of Comment

0	(0)	X'0'	0	CCWOP	"0,1" OPERATION
0	(0)	X'0'	0	CCWCMD	"0,1" (ALIAS COMMAND CODE)
0	(0)	X'1'	0	CCWADDR	"1,3" DATA (TARGET) ADDRESS
0	(0)	X'4'	0	CCWFLAG	"4,1" FLAG BYTES
0	(0)	X'5'	0	CCWRESVD	"5,1" RESERVED
0	(0)	X'6'	0	CCWCOUNT	"6,2" LENGTH
0	(0)	X'6'	0	CCWLEN	"6,2" LENGTH

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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" SUPPRESS INCORRECT LENGTH
		...1		SKIP	"X'10" SUPPRESS DATA TRANSFER
		.... 1...		PCI	"X'08" PGM CONTROLLED INTERRUPT
		.... .1..		IDA	"X'04" CHANNEL INDIRECT ADDRESSING
		.... ..1		SUS	"X'02" Suspend
		.... ...1		MIDA	"X'01" Modified indirect data addr
Comment					
DIRECT ACCESS DEVICE -- CONTROL COMMANDS					
End of Comment					
		..1. 1.11		ORIENT	"X'28'+CNTRL" ORIENT - (2305 ONLY)
		...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		LOCRC	"X'44'+CNTRL" LOCATE RECORD - (EXT. C-K-D)
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

\$CCW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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...		UPDT	"X'80" Update
		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
		111. 1.11		GATEUCS	"X'E8'+CNTRL" GATE/LOAD UCS BUFFER
		.111 .11		BLKDATAC	"X'70'+CNTRL" BLOCK DATA CHECK
		.111 1.11		ALWDATAAC	"X'78'+CNTRL" ALLOW DATA CHECK
		.11. .11		LOADFCB	"X'60'+CNTRL" LOAD FCB
		.11. 1.11		RAISCOVR	"X'68'+CNTRL" RAISE COVER

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

\$CCW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MIDA - Modified indirect data addressing mapping					
End of Comment					
0	(0)	X'0'	0	MIDAW	"0,16" Midaw definition
Comment					
EQU 0,5 Reserved					
End of Comment					
0	(0)	X'5'	0	MIDAWFLG	"5,1" Flag byte
		1... ..		MIDAWFLS	"B'10000000" Last MIDAW
		.1.. ..		MIDAWFSK	"B'01000000" Skip (read only)
		.1.		MIDAWFIN	"B'00100000" Data-transfer-interruption
0	(0)	X'6'	0	MIDAWCNT	"6,2" Count of data to transfer
0	(0)	X'8'	0	MIDAWADR	"8,8" Address of data

\$CCW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$CCWS	0		LDCOPYNO	0	23
ALWDATAC	0	7B	LOADFCB	0	63
BLKDATAC	0	73	LOADUCS	0	FB
CC	0	40	LOADUSCF	0	F3
CCWADDR	0	1	LOADWCGM	0	53
CCWCMD	0	0	LOCRCD	0	47
CCWCOUNT	0	6	LROFMT	0	3
CCWFLAG	0	4	LROREAD	0	6
CCWLEN	0	6	LRORTRAK	0	C
CCWOP	0	0	LROWRITE	0	1
CCWRESVD	0	5	LROWTRAK	0	B
CCW1ADDR	0	4	MARKFORM	0	17
CCW1CMD	0	0	MIDA	0	1
CCW1CNT	0	2	MIDAW	0	0
CCW1FLAG	0	1	MIDAWADR	0	8
CCW1LEN	0	2	MIDAWCNT	0	6
CCW1OP	0	0	MIDAWFIN	0	20
CCW1RESV	0	1	MIDAWFLG	0	5
CKD	0	1C	MIDAWFLS	0	80
CLEARPRT	0	87	MIDAWFSK	0	40
CNT	0	10	MT	0	80
CNTNU	0	4	NOP	0	3
CNTRL	0	3	OFFSTACK	0	7
DATA	0	4	ORIENT	0	2B
DC	0	80	PCI	0	8
EQ	0	20	PRINT	0	1
FOLDUCS	0	43	PRTEOT	0	7
GATEUCS	0	EB	PUNCH	0	1
HA	0	18	RAISCOVER	0	6B
HI	0	40	READ	0	2
HIEQ	0	60	READFCB	0	12
ID	0	10	READIO	0	6
IDA	0	4	READPLB	0	2
IMED	0	3	READTRD	0	A6
INITPRT	0	37	READUCS	0	A
IPL	0	0	RECALIB	0	13
KD	0	C	REC0	0	14
KEY	0	8	RESTORE	0	17
LDCHARMD	0	25	RLSDISK	0	B0
LDCOPYMD	0	35	RSVDISK	0	90

Name	Hex Offset	Hex Value
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
SUS	0	2
TIC	0	8
UNFLDUCS	0	23
UPDT	0	80
VARYSNS	0	27
WRITE	0	1
WRITEIO	0	5
WRITETRD	0	A5

\$CCW Cross Reference

\$CDCWORK Heading Information

Common Name: JES2 Cross-member device status PCE work area
Macro ID: \$CDCWORK
DSECT Name: PCE (\$CDCWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

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

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

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

Serialization: Normal PCE dispatch serialization

Function: The fields in this work area are used by a JES2 CDC Processor and by its support routines and exits. \$CDCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$CDCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECDCID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

\$CDCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	CHARACTER	16	CDCMBNAM	Mailbox name for dev data
328	(148)	SIGNED	4	CDCXCECB (0)	XECB for XCF posts
352	(160)	ADDRESS	4	CDCXBUFA	Address of current XREQ
356	(164)	ADDRESS	4	CDCXBUFP	Current data area pointer
360	(168)	SIGNED	4	CDCXBUFL	Current data area length
364	(16C)	BITSTRING	8	CDCXTOKN	Current XCF message token
372	(174)	ADDRESS	4	CDCACKPT	Acknowledgement XREQ ptr
376	(178)	ADDRESS	4	CDCSNDBF	Address of send buffer
380	(17C)	SIGNED	4	CDCERRCT	ABEND count
384	(180)	BITSTRING	4	CDCMEMUP	Previous member up mask
388	(184)	BITSTRING	4	CDCCDCUP	Previous CDC up mask
392	(188)	BITSTRING	4	CDCWRKAF	Working affinity mask
396	(18C)	BITSTRING	4	CDCNITAF	Aff mask for NIT updates
400	(190)	ADDRESS	4	CDCSHEAD	Head/Tail of
404	(194)	ADDRESS	4	CDCSTAIL	synch elements

Comment

List form macros for JESXCF services

End of Comment

408 (198) DBL WORD 8 (0)

\$CDCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
408	(198)	BITSTRING	160	CDCIXLST	JESXCF list form macros
568	(238)	DBL WORD	8	CDCIXEND (0)	End of list form area
Comment					
----- IXZXIXAC MF=(L,CDCIXAC) Acknowledge message MACDATE -11/12/03-<1>					
End of Comment					
0	(0)	X'198'	0	M00M0997	"CDCXIXAC" ++ IXZXIXAC NAME
408	(198)	DBL WORD	8	CDCXIXAC (0)	++ IXZXIXAC PARM LIST
408	(198)	BITSTRING	1	CDCXIXAC_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	CDCXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	BITSTRING	1	CDCXIXAC_XSTB	++ INPUT
		1...		CDCXIXAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		CDCXIXAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
416	(1A0)	BITSTRING	8	CDCXIXAC_XMSGTOKEN	++ XMSGTOKEN
424	(1A8)	ADDRESS	4	CDCXIXAC_XDATA	++ XDATA
428	(1AC)	SIGNED	4	CDCXIXAC_XDATALEN	++ XDATALEN
432	(1B0)	SIGNED	4	CDCXIXAC_XUSERRC	++ XUSERRC
436	(1B4)	SIGNED	4	CDCXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
440	(1B8)	SIGNED	4	CDCXIXAC_XSYSRC	++ XSYSRC
444	(1BC)	SIGNED	4	CDCXIXAC_XSYSRSN	++ XSYSRSN
448	(1C0)	BITSTRING	1	CDCXIXAC_XKEYS	++ FIELD_LABEL
		1...		CDCXIXAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
		.1..		CDCXIXAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
		..1.		CDCXIXAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
		...1		CDCXIXAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CDCXIXAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
449	(1C1)	BITSTRING	1	CDCXIXAC_XMSGATTR	++ INPUT
		1...		CDCXIXAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CDCXIXAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
449	(1C1)	X'2A'	0	CDCXIXACL	"*-CDCXIXAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
450	(1C2)	ADDRESS	2	(0)	Ensure area fits

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- IXZXIXMB MF=(L,CDCXIXMB) Create mailbox MACDATE -93/05/10-<1>					
End of Comment					
408	(198)	SIGNED	2	M00M0999 (0)	IXZXIXMB-1
408	(198)	DBL WORD	8	CDCXIXMB (0)	++ IXZXIXMB PARM LIST
408	(198)	BITSTRING	1	CDCXIXMB_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	CDCXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	CHARACTER	1	CDCXIXMB_XRSV0001	++ RESERVED XRSV0001
416	(1A0)	CHARACTER	16	CDCXIXMB_XMBOXNAME	++ XMBOXNAME
432	(1B0)	ADDRESS	4	CDCXIXMB_XPOSTXIT	++ XPOSTXIT
436	(1B4)	ADDRESS	4	CDCXIXMB_XPOSTDATA	++ XPOSTDATA
440	(1B8)	SIGNED	4	CDCXIXMB_XPOSTALET	++ XPOSTALET
444	(1BC)	SIGNED	4	CDCXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
448	(1C0)	BITSTRING	1	CDCXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CDCXIXMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1..		CDCXIXMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
448	(1C0)	X'29'	0	CDCXIXMBL	**CDCXIXMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
450	(1C2)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXMD MF=(L,CDCXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
End of Comment					
408	(198)	SIGNED	2	M00M1000 (0)	IXZXIXMD-1
408	(198)	DBL WORD	8	CDCXIXMD (0)	++ IXZXIXMD PARM LIST
408	(198)	BITSTRING	1	CDCXIXMD_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	CDCXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	BITSTRING	1	CDCXIXMD_XSTB	++ INPUT
		1...		CDCXIXMD_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		CDCXIXMD_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
416	(1A0)	CHARACTER	16	CDCXIXMD_XMBOXNAME	++ XMBOXNAME
432	(1B0)	SIGNED	4	CDCXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
432	(1B0)	X'1C'	0	CDCXIXMDL	**CDCXIXMD" ++ LENGTH OF PLIST

\$CDCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXMD-1					
End of Comment					
436	(1B4)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXRM MF=(L,CDCXIXRM) Receive message MACDATE -93/05/10-<1>					
End of Comment					
408	(198)	SIGNED	2	M00M1001 (0)	IXZXIXRM-1
408	(198)	DBL WORD	8	CDCXIXRM (0)	++ IXZXIXRM PARM LIST
408	(198)	BITSTRING	1	CDCXIXRM_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	CDCXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	CHARACTER	1	CDCXIXRM_XRSV0001	++ RESERVED XRSV0001
416	(1A0)	CHARACTER	16	CDCXIXRM_XMBOXNAME	++ XMBOXNAME
432	(1B0)	ADDRESS	4	CDCXIXRM_XDATA	++ XDATA
436	(1B4)	SIGNED	4	CDCXIXRM_XDATALEN	++ XDATALEN
440	(1B8)	BITSTRING	8	CDCXIXRM_XMSGTOKEN	++ XMSGTOKEN
448	(1C0)	SIGNED	4	CDCXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
452	(1C4)	BITSTRING	1	CDCXIXRM_XMSGFETCH	++ INPUT
		1...		CDCXIXRM_XMSGFETCH_ALL	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
		.1..		CDCXIXRM_XMSGFETCH_MESSAGES	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CDCXIXRM_XMSGFETCH_SYSEVENT	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CDCXIXRM_XMSGFETCH_ACKS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
453	(1C5)	BITSTRING	1	CDCXIXRM_XKEYS	++ FIELD_LABEL
		1...		CDCXIXRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD
453	(1C5)	X'2E'	0	CDCXIXRML	**CDCXIXRM" ++ LENGTH OF PLIST
Comment					
IXZXIXRM-1					
End of Comment					
454	(1C6)	ADDRESS	2	(0)	Ensure area fits
568	(238)	DBL WORD	8	(0)	Force double-word alignment
568	(238)	X'100'	0	CDCPCEWS	**PCEWORK" Length of work area

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CDCSYN	
0	(0)	ADDRESS	4	CDCSYNNX	Next pointer (\$FIFOENQ)
4	(4)	ADDRESS	4	CDCSYNPR	Prev pointer (\$FIFOENQ)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	BITSTRING	1	CDCSYNTY	Type (See CDCTTYPE)
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CDCSYNAD	Control block address
12	(C)	X'10'	0	CDCSYNLN	**"CDCSYN" Length of element

\$CDCWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CDCACKPT	174			19F	80
CDCCDCUP	184		CDCXIXAC_XSTB_YES	19F	40
CDCERRCT	17C		CDCXIXAC_XSYSRC	1B8	
CDCIXEND	238		CDCXIXAC_XSYSRSN	1BC	
CDCIXLST	198		CDCXIXAC_XUSERRC	1B0	
CDCMBNAM	138	E2E8E2D1	CDCXIXAC_XVERSION	198	
CDCMEMUP	180		CDCXIXACL	1C1	2A
CDCNITAF	18C		CDCXIXMB	198	
CDCPCEWS	238	100	CDCXIXMB_XEYECATCH	199	
CDCSHEAD	190		CDCXIXMB_XGROUPTOKEN	1BC	
CDCSNDBF	178		CDCXIXMB_XMBOXNAME	1A0	
CDCSTAIL	194		CDCXIXMB_XPOSTALET	1B8	
CDCSYN	0		CDCXIXMB_XPOSTDATA	1B4	
CDCSYNAD	C		CDCXIXMB_XPOSTXIT	1B0	
CDCSYNLN	C	10	CDCXIXMB_XRSV0001	19F	
CDCSYNNX	0		CDCXIXMB_XSYSEVENT_NO	1C0	40
CDCSYNPR	4		CDCXIXMB_XSYSEVENT_YES	1C0	80
CDCSYNTY	8		CDCXIXMB_XSYSEVENTS	1C0	
CDCWRKAF	188		CDCXIXMB_XVERSION	198	
CDCXBUFA	160		CDCXIXMBL	1C0	29
CDCXBUFL	168		CDCXIXMD	198	
CDCXBUFP	164		CDCXIXMD_XEYECATCH	199	
CDCXCECB	148		CDCXIXMD_XGROUPTOKEN	1B0	
CDCXIXAC	198		CDCXIXMD_XMBOXNAME	1A0	
CDCXIXAC_KEYUSED_DATA	1C0	80	CDCXIXMD_XSTB	19F	
CDCXIXAC_KEYUSED_DATALEN	1C0	40	CDCXIXMD_XSTB_NO	19F	80
CDCXIXAC_KEYUSED_SYSRC	1C0	10	CDCXIXMD_XSTB_YES	19F	40
CDCXIXAC_KEYUSED_SYRSN	1C0	8	CDCXIXMD_XVERSION	198	
CDCXIXAC_KEYUSED_USERRC	1C0	20	CDCXIXMDL	1B0	1C
CDCXIXAC_XDATA	1A8		CDCXIXRM	198	
CDCXIXAC_XDATALEN	1AC		CDCXIXRM_KEYUSED_MSGFETCH	1C5	80
CDCXIXAC_XEYECATCH	199				
CDCXIXAC_XGROUPTOKEN	1B4				
CDCXIXAC_XKEYS	1C0				
CDCXIXAC_XMSGATTR	1C1				
CDCXIXAC_XMSGATTR_EXPRESS	1C1	40			
CDCXIXAC_XMSGATTR_J3CONNECT	1C1	80			
CDCXIXAC_XMSGTOKEN	1A0				
CDCXIXAC_XSTB	19F				
CDCXIXAC_XSTB_NO	19F				

\$CDCWORK Cross Reference

Name	Hex Offset	Hex Value
CDCXIXRM_XDATA	1B0	
CDCXIXRM_XDATALEN	1B4	
CDCXIXRM_XEYECATCH	199	
CDCXIXRM_XGROUPTOKEN	1C0	
CDCXIXRM_XKEYS	1C5	
CDCXIXRM_XMBOXNAME	1A0	
CDCXIXRM_XMSGFETCH	1C4	
CDCXIXRM_XMSGFETCH_ACKS	1C4	10
CDCXIXRM_XMSGFETCH_ALL	1C4	80
CDCXIXRM_XMSGFETCH_MESSAGES	1C4	40
CDCXIXRM_XMSGFETCH_SYSEVENT	1C4	20
CDCXIXRM_XMSGTOKEN	1B8	
CDCXIXRM_XRSV0001	19F	
CDCXIXRM_XVERSION	198	
CDCXIXRML	1C5	2E
CDCXTOKN	16C	
M00M0997	0	198
M00M0999	198	
M00M1000	198	
M00M1001	198	
PCE	0	

\$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 \$PPWORK 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					
<pre> %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: PSP1 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) </pre>					

\$CHK Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
\$VC1PXXX=PTM HBB5530 950915 VLC: BCP PTM xxx Ext Classifi					
\$R04LWLM=WLM HBB6604 970317 J_K2: Misc fixes					
\$R04P498=WLM HBB6604 970331 J_S1:					
\$Z05LENF=ENVIRON HBB7708 021003 .: ENF 58 for checkpoints					
A000000-999999 CREATED FOR MVS 1.3.3					
01 NOTES:					
None					
%GOTO CHKDCL;					
End of Comment					
128	(80)	DBL WORD	8	(0)	
128	(80)	X'80'	0	IAZCHK	"*,0,C'J"
128	(80)	X'80'	0	CHK	"IAZCHK,0,C'J" Alternate DSECT name
128	(80)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
132	(84)	SIGNED	2	CHKLNGLTH	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"

Comment

 The following fields overlay the 64 byte CHKJESWK
 area generated by IAZCHK.

End of Comment

136	(88)	SIGNED	2	CHKJRCB	OFFSET TO RCB IN BUFFER
138	(8A)	SIGNED	2	CHKPDDB	DISPLACEMENT OF PDDB INTO IOT
140	(8C)	SIGNED	4	CHKPPCT	PDDB PAGE COUNT
144	(90)	SIGNED	4	CHKTLNC	TOTAL JOE LINE COUNT
148	(94)	SIGNED	4	CHKTPCT	TOTAL JOE PAGE COUNT (PHYSICAL)
152	(98)	BITSTRING	4	CHKMTTR_Z11	Data buffer track address (MQTR). Only valid at version CHKVER0.
156	(9C)	BITSTRING	4	CHKIOTTC_Z11	IOT track address (MQTR). (MQTR) Only valid at version CHKVER0.
160	(A0)	BITSTRING	1	CHKCOPYC	CURRENT COPY NUMBER
161	(A1)	BITSTRING	1	CHKBOFF	CURRENT OFFSET INTO TRACKCELL
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
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)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
184	(B8)	BITSTRING	1		Reserved for future use
185	(B9)	SIGNED	1	CHKVERS	CHK version:
185	(B9)	X'0'	0	CHKVER0	"0" Pre-z/OS 1.12 (MTTRs)
185	(B9)	X'C'	0	CHKVER12	"12" z/OS 1.12+ (MQTRs)
186	(BA)	SIGNED	2	CHKPPHPC	PDDDB PHYSICAL PAGE COUNT
188	(BC)	BITSTRING	6	CHKMQTR	Data buffer track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	BITSTRING	6	CHKIOTTK	IOT track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	X'88'	0	CHKDATA	"CHKJESWK,*-CHKJESWK" CHK DATA AREA

Comment

 The following fields overlay the 8 byte CHKRBA area generated by IAZCHK.

End of Comment

200	(C8)	BITSTRING	1		Reserved
201	(C9)	BITSTRING	4	CHKRBATA	Data buffer Track Address (MTTR)
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

Comment

 FLAG EQUATES FOR \$#CHK MACRO INLINE PARM 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 PARM 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

\$CHK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CHK	80	80	CHK2RS8	100	1
CHKAZLNG	100	100	CHK2WRI	100	80
CHKBOFF	A1		CHK2WRJ	100	40
CHKCOPY	D8		CHK2YJL	100	8
CHKCOPYC	A0		IAZCHK	80	80
CHKCPAGN	A8				
CHKCPYG	A2				
CHKCRECN	A4				
CHKDATA	C2	88			
CHKDEV	D0				
CHKDSECT	0				
CHKID	80				
CHKIOTTC_Z11	9C				
CHKIOTTK	C2				
CHKJBKEY	78				
CHKJBNUM	74				
CHKJESWK	88				
CHKJID	68				
CHKJNAME	6C				
CHKJOENM	AC				
CHKJOID	AC				
CHKJOID1	B4				
CHKJOID2	B6				
CHKJRCB	88				
CHKLEN	FC	80			
CHKLNGLTH	84				
CHKMOD	D4				
CHKMODF	F8				
CHKMQTR	BC				
CHKMTTR_Z11	98				
CHKPAGE	E4				
CHKPDDB	8A				
CHKPPCT	8C				
CHKPPHPC	BA				
CHKPROD	E8				
CHKRBA	C8				
CHKRBARN	CD				
CHKRDATA	C9				
CHKREC	E0				
CHKRELS	F4				
CHKSERV	FC				
CHKSPLNG	7C	18			
CHKSTART	0	68			
CHKTLC	90				
CHKTND	A3				
CHKTPT	94				
CHKTRNC	DC				
CHKVER	F0				
CHKVERS	B9				
CHKVER0	B9	0			
CHKVER12	B9	C			
CHK1NW	100	10			
CHK1RD	100	80			
CHK1RS5	100	8			
CHK1RS6	100	4			
CHK1RS7	100	2			
CHK1RS8	100	1			
CHK1WR	100	40			
CHK1YW	100	20			
CHK2IOT	100	20			
CHK2JCT	100	10			
CHK2QUE	100	4			
CHK2RS7	100	2			

\$CID Heading Information

Common Name: Connect ID cell
Macro ID: \$CID
DSECT Name: CID
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'CID'
 Offset: CIDEYE-CID
 Length: 4

Storage Attributes: Subpool: see CIDPOOL
 Key: 1
 Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of the JES2 address space. In a JES2 NJE Server address sSpace

Size: See CIDSIZE

Created by: HASPCON under WTO subtask

Pointed to by: CSACIDCH field of the \$DTEWTO data area
 CSACID field of the \$DTEWTO data area

Serialization: Used by \$HASPWTO subtask only.

Function: Contains the connect id for a multiline WTO.

\$CID Map

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

\$CID Cross Reference

Name	Hex Offset	Hex Value
CID	0	
CIDCONCT	C	
CIDEYE	0	C3C9C440
CIDFLAG1	10	
CIDNEXT	4	
CIDPCE	8	
CIDSIZE	11	14
CID1LONG	10	80
CID1TRNC	10	40

\$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					
312	(138)	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
313	(139)	.... ...1	1	CIRF1SER	"B'00000001" SCAN PROCESSING DIAG ERROR MSG
		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
314	(13A)	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
		314		(13A)	X'F'	0	CIRF3ERR	"CIRF3IO1+CIRF3IO2+CIRF3VE1+CIRF3VE2" Mask to test for any CKPT errors
314	(13A)	X'C'	0	CIRF3I12	"CIRF3IO1+CIRF3IO2" I/O error on both datasets
314	(13A)	X'3'	0	CIRF3V12	"CIRF3VE1+CIRF3VE2" Validation error on both
314	(13A)	X'9'	0	CIRF3I1V	"CIRF3IO1+CIRF3VE2" I/O error on CKPT1, val. error on CKPT2
314	(13A)	X'6'	0	CIRF3V11	"CIRF3VE1+CIRF3IO2" Val. error on CKPT1, I/O error on CKPT2
315	(13B)	BITSTRING	1	CIRFLAG4	GENERAL USAGE FLAG 4
		1...		CIRF4ILL	"B'10000000" INIT LMOD LOADED, NOT HASJES20
		.1..		CIRF4XER	"B'01000000" ERRORS IN EXIT ROUTINE ADDR
		..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
		316		(13C)	ADDRESS	4	CIRCKPVR	CKPT VER-REP requests
320	(140)	DBL WORD	8	CIRREPLY	WTOR REPLY AREA
328	(148)	DBL WORD	8	CIRDWORK	DOUBLE WORD WORK AREA
336	(150)	ADDRESS	4	CIRHCT	ADDR OF THE HCT
340	(154)	SIGNED	4	CIRECB	ECB FOR GENERAL INIT USAGE

Comment

IROPTS FIELDS REQUIRED THROUGHOUT INITIALIZATION

End of Comment

344	(158)	ADDRESS	4	CIRWXIT0	"V(HASPXIT0)" HASPXIT0 ADDR IN HASPINIT LMOD
348	(15C)	ADDRESS	4	CIREXIT0	HASPXIT0 LOAD MODULE ADDR OR 0
352	(160)	ADDRESS	4	CIROPTPF	ADDR OF THE OS PARM FIELD
356	(164)	BITSTRING	100	CIROPTS	HASP OPTIONS STRING

Comment

INIT fields for Priority aging and jesplex resource thresholds

End of Comment

456	(1C8)	ADDRESS	2	CIRJQRAT	Priority aging rate
458	(1CA)	ADDRESS	1	CIRJQHI	Job priority aging upper
459	(1CB)	ADDRESS	1	CIRJQLOW	and lower limits
460	(1CC)	ADDRESS	2	CIRJORAT	Output priority aging rate
462	(1CE)	ADDRESS	2	CIRJOHI	Output priority aging upper
464	(1D0)	ADDRESS	2	CIRJOLOW	and lower limits

\$CIRWORK Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
466	(1D2)	ADDRESS	2	CIRJQPRC	JQE threshold percentage
468	(1D4)	ADDRESS	2	CIRJOPRC	JOE threshold percentage
470	(1D6)	ADDRESS	2	CIRJNPRC	Job num threshold percent
472	(1D8)	ADDRESS	2	CIRTGPRC	Track grp threshold percent
474	(1DA)	ADDRESS	2	CIRBTPRC	BERT threshold percentage

Comment

IRPL GENERAL PROCESSING FIELDS

End of Comment

476	(1DC)	ADDRESS	4	CIRSTMTW	ADDRESS OF IRPL STMT BUFFER
480	(1E0)	ADDRESS	4	CIRSTMTT	Address of IRPL translated statement buffer
484	(1E4)	SIGNED	4	CIRSYMBP (0)	Symbol service parm list
496	(1F0)	ADDRESS	4		Addr of translated length
508	(1FC)	ADDRESS	4		Addr of return code
512	(200)	SIGNED	4	CIRTRANL	Length of translated str.
516	(204)	SIGNED	4	CIRTRANR	RC from translation service
520	(208)	SIGNED	2	CIRSTMTC	CURRENT IRPL STATEMENT COUNT
522	(20A)	SIGNED	2	CIRNLLCT	NPLLOG LINE COUNTER (50-1)
524	(20C)	SIGNED	2	CIRNLPCT	NPLLOG CURRENT PAGE NUMBER
526	(20E)	BITSTRING	1	CIRIRPL1	Flag used in IRPL
		1... ..		CIRP1AST	"B'10000000" Asterisk is last char on a line within a comment
527	(20F)	BITSTRING	1		Reserved for future use
528	(210)	SIGNED	4	CIRSDLCT	\$SCAN DISPLAY LINE COUNT
532	(214)	ADDRESS	4	CIRX0XRT	ADDR OF XRT FOR EXIT 0
536	(218)	SIGNED	1	CIRX0#RT	# of exit 0 routines
537	(219)	ADDRESS	3		RESERVED FOR FUTURE USE

Comment

SUBROUTINE ADDRESSES

End of Comment

540	(21C)	ADDRESS	4	CIRNPLLG	"V(NPLLOG)" ADDRESS OF IRPL LOGGING ROUTINE
544	(220)	ADDRESS	4		RESERVED FOR FUTURE USE
548	(224)	ADDRESS	4		RESERVED For Future Use
552	(228)	ADDRESS	4	CIRNQMSG	"V(NQUERY)" ADDRESS FOR QUERY MESSAGE
556	(22C)	ADDRESS	4	CIRNDLAY	"V(NDELAY)" Address for NDELAY routine

Comment

DCT PROCESSING FIELDS

End of Comment

560	(230)	ADDRESS	4	CIRPDCT	PREVIOUS DCT POINTER FOR USE WHEN GENERATING \$DCTPOOL DCTS
564	(234)	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

568	(238)	BITSTRING	24	CIRSTIMS	REMOTE STIMERM SET PARM LIST
568	(238)	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					
592	(250)	BITSTRING	16	CIRSTIMC	REMOTE STIMERM TEST/CANCEL PARM LIST
592	(250)	X'10'	0	CIRSTMCL	"*-CIRSTIMC" Length of parm list
608	(260)	SIGNED	4	CIRNDCHN	Chain of NDELAY elements
608	(260)	X'0'	0	CIRNDEYE	"0,4,C'C'" Eyecatcher
608	(260)	X'4'	0	CIRNDNXT	"4,4,C'A'" Addr of next element
608	(260)	X'8'	0	CIRNDSTI	"8,4,C'F'" STIMERM ID=id-area
608	(260)	X'C'	0	CIRNDMSG	"12,4,C'A'" Addr of message text
608	(260)	X'10'	0	CIRNDDOM	"16,4,C'F'" NDELAY DOM id
608	(260)	X'14'	0	CIRNDLEN	"20" NDELAY element length
616	(268)	DBL WORD	8		Reserved for future use

Comment					
MISCELLANEOUS FIELDS					
End of Comment					

624	(270)	DBL WORD	8	CIRCMTSV	HOLD THE ADDR AND LEN OF STMT CURRENTLY RUNNING IN COMMENT-SCAN
632	(278)	SIGNED	2		Reserved for future use
634	(27A)	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
635	(27B)	BITSTRING	1	CIRFLAG6	General usage flag 6
		1...		CIR6DERR	"B'10000000" Device build error
636	(27C)	ADDRESS	4	CIRJBMIN	MINIMUM LOCAL JOB NUMBER
640	(280)	ADDRESS	4	CIRJBMAX	MAXIMUM LOCAL JOB NUMBER
640	(280)	X'3C'	0	CIRXEMN	"WPLHXT-WPL+47,2" EXIT NUMBER IN INIT MSG864
640	(280)	X'48'	0	CIRXEMNM	"WPLHXT-WPL+59,8" EXIT ROUTINE NAME IN MSG864
640	(280)	X'39'	0	CIRGEMR	"WPLHXT-WPL+44,10" GETMAIN ERROR MSG REASON
640	(280)	X'3D'	0	CIRINFMR	"WPLHXT-WPL+9+48,45" Reason text in MSG HASP448
644	(284)	ADDRESS	4	CIRACCTJ	ADDR OF JES2-TO-NET NETACCT ELEMENTS
648	(288)	ADDRESS	4	CIRACCTN	ADDR OF NET-TO-JES2 NETACCT ELEMENTS
652	(28C)	BITSTRING	6	CIRTGEDM	NUM TRACK GROUP EDIT MASK

Comment					
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 The TSUCLASS, STCCCLASS 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					
658	(292)	CHARACTER	24	CIRROPSL	TSUCLASS DEFAULTS
682	(2AA)	CHARACTER	24	CIRROPST	STCCCLASS DEFAULTS
706	(2C2)	CHARACTER	24	CIRROPSU	JOBCLASS DEFAULTS
730	(2DA)	SIGNED	2		RESERVED FOR FUTURE USE
732	(2DC)	ADDRESS	4	CIRVOLT B	ADDR OF VOLUME ALLOCATION TABLE
736	(2E0)	ADDRESS	4	CIRCMDTB	ADDR OF 1ST TEMP COMMAND AREA
740	(2E4)	ADDRESS	4	CIRTSTOR	ADDR OF TEMPORARY STORAGE

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
744	(2E8)	ADDRESS	4	CIRTDCTS	ADDR OF PERMANENT DCT STORAGE
748	(2EC)	SIGNED	4	CIRBSCLC	COUNT OF UNIT=nnn LINES
752	(2F0)	SIGNED	4	CIRSNALC	COUNT OF UNIT=SNA LINES
756	(2F4)	SIGNED	4	CIRTCPLC	COUNT OF UNIT=TCP LINES
760	(2F8)	ADDRESS	4	CIRZIP	ZAPJOB ZIP chain
764	(2FC)	ADDRESS	4	CIRBTGFA	ADDR OF FIRST BTG TABLE ENTRY
768	(300)	ADDRESS	4	CIRBTGLA	ADDR OF LAST BTG TABLE ENTRY
772	(304)	BITSTRING	0	CIRSPT (0)	SMF IDs for CPU 1-32
900	(384)	SIGNED	4	CIRX0PS (0)	PARAMETER LIST FOR EXIT 0
900	(384)	ADDRESS	4	CIROPTA	ADDR OF OPTIONS (OS OR WTOR)
904	(388)	ADDRESS	4	CIROPTL	LENGTH OF OPTIONS (OS OR WTOR)
908	(38C)	ADDRESS	4	CIRDOMID	\$\$WTO DOM ID
912	(390)	ADDRESS	4	CIRCNECT	WTO CONNECT message number
916	(394)	CHARACTER	8	CIRIQNAM	ENQ queue/resource name,
924	(39C)	CHARACTER	8	CIRIRNAM	used for most of init time
932	(3A4)	ADDRESS	2		Reserved for future use
934	(3A6)	SIGNED	2	CIRLNENM	Number of lines with dedicated sub-devices
936	(3A8)	SIGNED	4	CIRNUMJT	Total number of NJTs
940	(3AC)	SIGNED	4	CIRNUMJR	Total number of NJRs
944	(3B0)	SIGNED	4	CIRNUMST	Total number of NSTs
948	(3B4)	SIGNED	4	CIRNUMSR	Total number of NSRs
952	(3B8)	SIGNED	4	CIRN3800	Number of 3800 printers
956	(3BC)	SIGNED	4	CIRNFSSP	Number of printers in FSS mode
960	(3C0)	SIGNED	4	CIRNTCLF	Number of FSS printer with TRKCELL=YES
964	(3C4)	SIGNED	4	CIRNTCLP	Number of printer with TRKCELL=YES
968	(3C8)	SIGNED	4	CIRBLDM (0)	Control block ID
972	(3CC)	BITSTRING	4		Console ID
976	(3D0)	ADDRESS	4		Address of the CART
980	(3D4)	ADDRESS	4		Pointer for JOBID
984	(3D8)	ADDRESS	4		Control block address
988	(3DC)	ADDRESS	4		Display routine address
992	(3E0)	ADDRESS	4	(6)	6 word work area
1016	(3F8)	ADDRESS	4		Caller's R11 value
1020	(3FC)	BITSTRING	2		ROUT code for Message
1022	(3FE)	BITSTRING	2		Not used
1024	(400)	CHARACTER	4		Message ID
1028	(404)	CHARACTER	1		Separator character
1029	(405)	ADDRESS	1		Flag byte 1
1030	(406)	ADDRESS	1		'DISPER'
1031	(407)	ADDRESS	1		Flag byte 2
1032	(408)	ADDRESS	1		Flag byte 3
1033	(409)	CHARACTER	8		Symbolic name of dest.
1041	(411)	BITSTRING	15		Not used
1056	(420)	ADDRESS	4	(0)	Ensure multiple of 4
1056	(420)	ADDRESS	2	(0)	
1056	(420)	CHARACTER	300	CIRWORK	Message building work area
1360	(550)	DBL WORD	8	(0)	Ensure double alignment

Comment

 General work area for short-term usage by IRs

End of Comment

1360	(550)	BITSTRING	1	CIRGWORK	General work area
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Comment

 First mapping of CIRGWORK used by IROPTS

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1360	(550)	BITSTRING	2	CIRSCMLN	Scan message length
1362	(552)	CHARACTER	80	CIRSCMSG	Scan message text
1442	(5A2)	BITSTRING	2		Reserved
1444	(5A4)	SIGNED	4	CIRRUB (0)	HASP.\$EXIT0 parameters
1444	(5A4)	BITSTRING	2		Regs to set (0,1,11,13)
1446	(5A6)	BITSTRING	2		Unused, must be 0
1448	(5A8)	SIGNED	4	CIRRUBR0	R0 on entry to HASP.\$EXIT0
1452	(5AC)	SIGNED	4	CIRRUBR1	R1 on entry to HASP.\$EXIT0
1456	(5B0)	SIGNED	4	CIRRUBRB	R11 on entry to HASP.\$EXIT0
1460	(5B4)	SIGNED	4	CIRRUBRD	R13 on entry to HASP.\$EXIT0
1464	(5B8)	DBL WORD	8	CIRNXTOK	NEXTTOKEN value
1472	(5C0)	CHARACTER	8	CIRX0RNM	Name of last routine
1480	(5C8)	BITSTRING	32	CIRCSRET	Return parameters, enough for one routine.
1512	(5E8)	ADDRESS	4	CIRANSA	Address of CSVDYNEX LIST answer area
1516	(5EC)	SIGNED	4	CIRANSAL	Length of answer area MACDATE -11/17/09-<0>
0	(0)	X'5F0'	0	M00M1017	"CIREXDYN" ++ CSVDYNEX NAME
1520	(5F0)	DBL WORD	8	CIREXDYN (0)	++ CSVDYNEX PARM LIST
1520	(5F0)	BITSTRING	1	CIREXDYN_XVERSION	++ INPUT XVERSION
1521	(5F1)	BITSTRING	1	CIREXDYN_XREQUEST	++ XREQUEST
1521	(5F1)	X'0'	0	CIREXDYN_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1521	(5F1)	X'1'	0	CIREXDYN_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1521	(5F1)	X'2'	0	CIREXDYN_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1521	(5F1)	X'3'	0	CIREXDYN_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1521	(5F1)	X'4'	0	CIREXDYN_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1521	(5F1)	X'5'	0	CIREXDYN_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1521	(5F1)	X'6'	0	CIREXDYN_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1521	(5F1)	X'7'	0	CIREXDYN_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1521	(5F1)	X'8'	0	CIREXDYN_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1521	(5F1)	X'9'	0	CIREXDYN_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1521	(5F1)	X'A'	0	CIREXDYN_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1521	(5F1)	X'B'	0	CIREXDYN_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1521	(5F1)	X'C'	0	CIREXDYN_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1522	(5F2)	BITSTRING	1	CIREXDYN_XFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_CALLSTOPRC	"B'10000000" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIREXDYN_KEYUSED_RCFROM	"B'01000000" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIREXDYN_KEYUSED_KEEPRC	"B'00100000" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIREXDYN_XFASTPATH_YES	"B'00010000" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIREXDYN_XREentrant_REQ	"B'00001000" ++ XREentrant.REQ KEYWORD
		.... .1..		CIREXDYN_XMESSAGE_ERROR	"B'00000100" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIREXDYN_XSTATE_ACTIVE	"B'00000010" ++ XSTATE.ACTIVE KEYWORD
		.... ...1		CIREXDYN_XSTATE_INACTIVE	

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1523	(5F3)	BITSTRING	1	CIREXDYN_XAMODE	"B'00000001" ++ XSTATE.INACTIVE KEYWORD
					++ XAMODE
1523	(5F3)	X'0'	0	CIREXDYN_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1523	(5F3)	X'1'	0	CIREXDYN_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1523	(5F3)	X'2'	0	CIREXDYN_XAMODE_DEFINED	"2" ++ XAMODE.Defined KEYWORD
1524	(5F4)	SIGNED	4	CIREXDYN_XKEY	++
1528	(5F8)	BITSTRING	1	CIREXDYN_XFLAGS2	++ FIELD_LABEL
		1...		CIREXDYN_XONEMODULE_YES	"B'10000000" ++ XONEMODULE.YES KEYWORD
		.1..		CIREXDYN_XFORCE_YES	"B'01000000" ++ XFORCE.YES KEYWORD
		..1.		CIREXDYN_XPERSIST_ADDRESSSPACE	"B'00100000" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIREXDYN_XPERSIST_IPL	"B'00010000" ++ XPERSIST.IPL KEYWORD
		.... 1...		CIREXDYN_XANYKEY_YES	"B'00001000" ++ XANYKEY.YES KEYWORD
		.... .1..		CIREXDYN_XABENDCONSEC_YES	"B'00000100" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIREXDYN_XLINKSTACKOK_NO	"B'00000010" ++ XLINKSTACKOK.NO KEYWORD
		.... ...1		CIREXDYN_KEYUSED_STOKEN	"B'00000001" ++ KEYUSED.STOKEN KEYWORD
1529	(5F9)	BITSTRING	1	CIREXDYN_XFLAGS3	++ FIELD_LABEL
		1...		CIREXDYN_XRETINFO_HIGHEST	"B'10000000" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIREXDYN_XRETINFO_LOWEST	"B'01000000" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIREXDYN_XRETINFO_ALL	"B'00100000" ++ XRETINFO.ALL KEYWORD
		...1		CIREXDYN_XRETINFO_LAST	"B'00010000" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIREXDYN_XQTYPE_ADD	"B'00001000" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIREXDYN_XLOCAL_YES	"B'00000100" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIREXDYN_XPERSIST_JOBSTEPTASK	"B'00000010" ++ XPERSIST.JOBSTEPTASK KEYWORD
		.... ...1		CIREXDYN_XWILDCARDSTAR_NO	"B'00000001" ++ XWILDCARDSTAR.NO KEYWORD
1530	(5FA)	BITSTRING	1	CIREXDYN_XPOS	++ XPOS
1530	(5FA)	X'0'	0	CIREXDYN_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1530	(5FA)	X'1'	0	CIREXDYN_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1530	(5FA)	X'2'	0	CIREXDYN_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1531	(5FB)	BITSTRING	1	CIREXDYN_XEXAAVER	++ XEXAAVER
1531	(5FB)	X'0'	0	CIREXDYN_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1531	(5FB)	X'1'	0	CIREXDYN_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1531	(5FB)	X'2'	0	CIREXDYN_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1532	(5FC)	CHARACTER	4	CIREXDYN_XRSV0002	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ RESERVED
1536	(600)	CHARACTER	16	CIREXDYN_XEXITNAME	
					++
1552	(610)	CHARACTER	8	CIREXDYN_XMODNAME	
					++
1560	(618)	ADDRESS	4	CIREXDYN_XCMDINFO_ADDR	
					++ ADDR
1564	(61C)	SIGNED	4	CIREXDYN_XABENDNUM	
					++
1568	(620)	SIGNED	4	CIREXDYN_XRCTO	
					++
1572	(624)	SIGNED	4	CIREXDYN_XRCFROM	
					++
1576	(628)	SIGNED	4	CIREXDYN_XKEEPRC	
					++
1580	(62C)	BITSTRING	1	CIREXDYN_XKEEPRCCOMP	
					++ XKEEPRCCOMP
1580	(62C)	X'0'	0	CIREXDYN_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1580	(62C)	X'1'	0	CIREXDYN_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1580	(62C)	X'2'	0	CIREXDYN_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1580	(62C)	X'3'	0	CIREXDYN_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1580	(62C)	X'4'	0	CIREXDYN_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1580	(62C)	X'5'	0	CIREXDYN_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1581	(62D)	BITSTRING	1	CIREXDYN_XRCCOMPARE	
					++ XRCCOMPARE
1581	(62D)	X'0'	0	CIREXDYN_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1581	(62D)	X'1'	0	CIREXDYN_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1581	(62D)	X'2'	0	CIREXDYN_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1581	(62D)	X'3'	0	CIREXDYN_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1581	(62D)	X'4'	0	CIREXDYN_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1581	(62D)	X'5'	0	CIREXDYN_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1582	(62E)	BITSTRING	1	CIREXDYN_XFLAGS4	
					++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_PRECALLADDR	"B'10000000" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIREXDYN_XEXITTYPE_INSTALLATION	"B'01000000" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIREXDYN_XEXITTYPE_PROGRAM	"B'00100000" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIREXDYN_XEXITTYPE_NOTPROGRAM	"B'00010000" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIREXDYN_XMESSAGE_FOUNDBUTERROR	"B'00001000" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... ...1		CIREXDYN_XLOADAPF_YES	"B'00000001" ++ XLOADAPF.YES KEYWORD
1583	(62F)	BITSTRING	1	CIREXDYN_XEXRETVER	
					++ XEXRETVER
1583	(62F)	X'0'	0	CIREXDYN_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1583	(62F)	X'1'	0	CIREXDYN_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1584	(630)	SIGNED	4	CIREXDYN_XCALLSTOPRC	

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1588	(634)	CHARACTER	44	CIREXDYN_XRSVNNNN	++ ++ RESERVED
1588	(634)	X'660'	0	CIREXDYN_PL_END	*** ++ END OF BASE PLIST
1564	(61C)	SIGNED	4	CIREXDYN_XADDABENDNUM	++
1580	(62C)	BITSTRING	1	CIREXDYN_XKEEPRCCVAL	++
1581	(62D)	BITSTRING	1	CIREXDYN_XRCCVAL	++
1588	(634)	ADDRESS	4	CIREXDYN_XWORKAREA_ADDR	++ ADDR
1592	(638)	ADDRESS	4	CIREXDYN_XRETAREA_ADDR	++ ADDR
1596	(63C)	SIGNED	4	CIREXDYN_XRETAREA_ALET	++ ALET
1600	(640)	SIGNED	4	CIREXDYN_XRETLEN	++
1604	(644)	ADDRESS	4	CIREXDYN_XRUB_ADDR	++ ADDR
1608	(648)	SIGNED	4	CIREXDYN_XRUB_ALET	++ ALET
1612	(64C)	CHARACTER	8	CIREXDYN_XNEXTTOKEN	++
1620	(654)	ADDRESS	4	CIREXDYN_XSDWA_ADDR	++ ADDR
1624	(658)	ADDRESS	4	CIREXDYN_XPRECALLWA_ADDR	++ ADDR
1588	(634)	ADDRESS	4	CIREXDYN_XANSAREA_ADDR	++ ADDR
1592	(638)	SIGNED	4	CIREXDYN_XANSAREA_ALET	++ ALET
1596	(63C)	SIGNED	4	CIREXDYN_XANSLEN	++
1588	(634)	ADDRESS	4	CIREXDYN_XPRECALLADDR	++
1588	(634)	ADDRESS	4	CIREXDYN_XDSNAME_ADDR	++ ADDR
1592	(638)	SIGNED	4	CIREXDYN_XDSNAME_ALET	++ ALET
1596	(63C)	CHARACTER	8	CIREXDYN_XJOBNAME	++
1604	(644)	ADDRESS	4	CIREXDYN_XMODADDR	++
1608	(648)	CHARACTER	8	CIREXDYN_XPARAM	++
1596	(63C)	CHARACTER	8	CIREXDYN_XSTOKEN	++
1632	(660)	X'70'	0	CIREXDYNL	***-CIREXDYN" ++ LENGTH OF PLIST
Comment					
CSVVDYNEX-0					
End of Comment					
1632	(660)	DBL WORD	8	CIRXAREA (0)	CSVVDYNEX WORKAREA= area
2144	(860)	SIGNED	4	CIRX0SAV (18)	CSVVDYNEX FASTPATH save area
2144	(860)	X'358'	0	CIRGW1LN	***-CIRGWORK" Length of first mapping

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

Second mapping of CIRGWORK used by IRPL					

End of Comment					
1360	(550)	BITSTRING	20	CIRS99RB	SVC 99 REQUEST BLOCK
1380	(564)	SIGNED	4	CIRS99PT (0)	SVC 99 REQUEST BLOCK POINTER
1384	(568)	CHARACTER	121	CIRNLLNE (0)	NPLLOG OUTPUT LINE
1384	(568)	CHARACTER	1	CIRNLLCC	CARRIAGE CONTROL
1385	(569)	CHARACTER	10	CIRNLLSR	STATEMENT/DIAGNOSTIC SOURCE
1398	(576)	CHARACTER	5	CIRNLLSH	STATEMENT NUMBER TEXT
1403	(57B)	CHARACTER	6	CIRNLLSN	STATEMENT NUMBER
1403	(57B)	X'1E'	0	CIRNLLL1	**CIRNLLSR" LENGTH OF FIRST PART OF LINE
1415	(587)	CHARACTER	10		BLANKS
1425	(591)	CHARACTER	80	CIRNLLST	STATEMENT (ALL OR PART)
1508	(5E4)	SIGNED	4	CIRX19PS (0)	PARAMETER LIST FOR EXIT 19
1508	(5E4)	ADDRESS	4	CIRSTMTA	IRPL PARM STATEMENT ADDR
1512	(5E8)	ADDRESS	4	CIRSTMTL	IRPL PARM STATEMENT LEN
1516	(5EC)	ADDRESS	4	CIRINSSA	EXIT 19 INSERT STATEMENT ADDR
1520	(5F0)	ADDRESS	4	CIRINSSL	EXIT 19 INSERT STATEMENT LEN
1524	(5F4)	ADDRESS	1	CIRSWARN	\$SCAN WARNING MASK
1525	(5F5)	ADDRESS	3		RESERVED FOR FUTURE USE
1528	(5F8)	ADDRESS	4	CIRPLWRK	IRPL 24 bit work area
1532	(5FC)	ADDRESS	4	CIRPRDCB	Original PARMLIB DCB
1536	(600)	ADDRESS	4	CIRPRMWR	Alt PARMLIB work areas
1540	(604)	ADDRESS	4	CIRLPARM	Logical parmlib Readbuf adr
1544	(608)	SIGNED	4	CIRLRCNT	Logical dataset rec counter
Comment					

Fields used to save the current PARMLIB data set name.					

End of Comment					
1548	(60C)	BITSTRING	1	CIRIPRW	Init PRW data area
1548	(60C)	X'188'	0	CIRGW2LN	**CIRGWORK" Length of second mapping
Comment					

Third mapping of CIRGWORK used by IRPOSTPL					

End of Comment					
1360	(550)	X'0'	0	CIRGW3LN	**CIRGWORK" Length of third mapping
Comment					

Fourth mapping of CIRGWORK used by IRDA					

End of Comment					
1360	(550)	CHARACTER	8	CIRCURRC	\$CKVTAB current value for \$HASP496 message
1368	(558)	CHARACTER	8	CIRPREVC	\$CKVTAB previous value for \$HASP496 message
1376	(560)	SIGNED	4	CIRJQENC	\$CKVTAB cur number of JQEs
1380	(564)	SIGNED	4	CIRJQENP	\$CKVTAB prev number of JQEs
1384	(568)	ADDRESS	4	CIRSPLF	FIRST SPL IN WORK CHAIN
1388	(56C)	ADDRESS	4	CIRSPLL	LAST SPL IN WORK CHAIN

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1392	(570)	ADDRESS	4	CIRMSTRS	ADDR OF MSTR REC SAVE AREA
1396	(574)	ADDRESS	4	CIRTOTA	ADDR OF TEMP TRACK-1 TABLE
1400	(578)	ADDRESS	4	CIRTECT	Addr of DAS temp vector
1404	(57C)	ADDRESS	4	CIRCURDS	CKG ADDRESS OF CURRENT DS
1408	(580)	ADDRESS	4	CIRALTDS	CKG address of other DS
1412	(584)	ADDRESS	4	CIRLFJQE	Address of last JQE put on free queue (\$QREBLD only)
1416	(588)	ADDRESS	4	CIRCTENT	CTENT table used by IRDA
1420	(58C)	ADDRESS	4	CIRCTEND	End of CTENT table
1424	(590)	SIGNED	4	CIRCOUNT	LOCK RETRY COUNT
1428	(594)	SIGNED	2	CIRCLREC	SIZE OF CHLOG FROM INIT
1430	(596)	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
1431	(597)	BITSTRING	1		Reserved

Comment

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

End of Comment

0	(0)	X'598'	0	M00M1019	"CIRCTLST" ++ CTRACE NAME
1432	(598)	DBL WORD	8	CIRCTLST (0)	++ CTRACE PARM LIST
1432	(598)	BITSTRING	1	CIRCTLST_XVERSION	++ INPUT XVERSION
1433	(599)	CHARACTER	3	CIRCTLST_XRSV0000	++ RESERVED XRSV0000
1436	(59C)	SIGNED	4	CIRCTLST_XSERVICE	++ XSERVICE
1436	(59C)	X'1'	0	CIRCTLST_DEFINE	"1" ++ XSERVICE.DEFINE KEYWORD
1436	(59C)	X'2'	0	CIRCTLST_DELETE	"2" ++ XSERVICE.DELETE KEYWORD
1440	(5A0)	CHARACTER	8	CIRCTLST_XNAME	++ XNAME
1448	(5A8)	CHARACTER	8	CIRCTLST_XSTARTNAM	++ XSTARTNAM
1456	(5B0)	CHARACTER	8	CIRCTLST_XFMTTAB	++ XFMTTAB
1464	(5B8)	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
1465	(5B9)	BITSTRING	1	CIRCTLST_XFLG2	++ FIELD_LABEL

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		CIRCTLST_XLIKEHEAD_YES	"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
1466	(5BA)	BITSTRING	1	CIRCTLST_XFLG3	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_SUB	"B'10000000" ++ KEYUSED.SUB KEYWORD
		.1..		CIRCTLST_KEYUSED_PARM	"B'01000000" ++ KEYUSED.PARM KEYWORD
		..1.		CIRCTLST_KEYUSED_BUFMIN	"B'00100000" ++ KEYUSED.BUFMIN KEYWORD
		...1		CIRCTLST_KEYUSED_BUFMAX	"B'00010000" ++ KEYUSED.BUFMAX KEYWORD
		.... 1...		CIRCTLST_KEYUSED_BUFDFLT	"B'00001000" ++ KEYUSED.BUFDFLT KEYWORD
		.... .1..		CIRCTLST_KEYUSED_SSRC	"B'00000100" ++ KEYUSED.SSRC KEYWORD
		.... ..1.		CIRCTLST_KEYUSED_SSR SNC	"B'00000010" ++ KEYUSED.SSR SNC KEYWORD
		.... ...1		CIRCTLST_KEYUSED_IFNOSUBS	"B'00000001" ++ KEYUSED.IFNOSUBS KEYWORD
1467	(5BB)	BITSTRING	1	CIRCTLST_XFLG4	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_USERDATA	"B'10000000" ++ KEYUSED.USERDATA KEYWORD
1468	(5BC)	ADDRESS	4	CIRCTLST_XLNKPARM	++ FIELD_LABEL XLNKPARM
1472	(5C0)	ADDRESS	4	CIRCTLST_XMINOPS_ADDR	++ ADDR XMINOPS
1476	(5C4)	BITSTRING	2	CIRCTLST_XMINOPS_LEN	++ FIELD_LABEL XMINOPS_LEN
1478	(5C6)	CHARACTER	16	CIRCTLST_XUSERDATA	++ XUSERDATA
1494	(5D6)	CHARACTER	2	CIRCTLST_XRVS0002	++ FIELD_LABEL XRVS0002
1496	(5D8)	SIGNED	4	CIRCTLST_XBUFMIN	++ XBUFMIN
1500	(5DC)	SIGNED	4	CIRCTLST_XBUFMAX	++ XBUFMAX
1504	(5E0)	SIGNED	4	CIRCTLST_XBUFDFLT	++ XBUFDFLT
1508	(5E4)	ADDRESS	4	CIRCTLST_XSUB_ADDR	++ ADDR XSUB
1512	(5E8)	BITSTRING	2	CIRCTLST_XSUB_LEN	++ FIELD_LABEL XSUB_LEN
1514	(5EA)	CHARACTER	2	CIRCTLST_XRVS0003	++ FIELD_LABEL XRVS0003
1516	(5EC)	CHARACTER	8	CIRCTLST_XPARAM	++ XPARAM
1524	(5F4)	SIGNED	4	CIRCTLST_XSSRC	++ XSSRC
1528	(5F8)	SIGNED	4	CIRCTLST_XSSR SNC	++ XSSR SNC

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1528	(5F8)	X'5FC'	0	CIRCTLST_PL_END	
1528	(5F8)	X'64'	0	CIRCTLSTL	*** ++ END OF BASE PLIST
Comment					
CTRACE-2					
End of Comment					
1532	(5FC)	ADDRESS	4	(0)	Force work alignment
1532	(5FC)	BITSTRING	16	CIRCTUSR (0)	CTRACE userdata
1532	(5FC)	ADDRESS	4	CIRCTBUF	Addr of data area
1536	(600)	ADDRESS	4	CIRCTBLN	Length of data area
1540	(604)	SIGNED	2	CIRCTASI	Address space id of data
1542	(606)	BITSTRING	6		Reserved
1548	(60C)	CHARACTER	8	CIRCTNAM	CTRACE component name
1556	(614)	BITSTRING	1	CIRJOTES	JOT ERROR SWITCH
1557	(615)	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
1557	(615)	X'3'	0	CIRJOTV	"CIRJOTEC+CIRJOTRB" JOT Verification Completed
1558	(616)	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
1559	(617)	BITSTRING	1	CIRPARMF	PARAMETER FLAG BYTE
1560	(618)	SIGNED	4	CIRPARML (0)	GENERIC PARM LIST
1560	(618)	SIGNED	4	CIRPARM1	PARM 1
1564	(61C)	SIGNED	4	CIRPARM2	PARM 2
1568	(620)	SIGNED	4	CIRPARM3	PARM 3
1572	(624)	SIGNED	4	CIRPARM4	PARM 4
1576	(628)	SIGNED	4	CIRPARM5	PARM 5
1580	(62C)	SIGNED	4	CIRPARM6	PARM 6
1580	(62C)	X'617'	0	CIRPARMS	"CIRPARMF,*-CIRPARMF" FULL PARAMETER LIST
1584	(630)	SIGNED	4	CIRFWCNT	COUNT FORWARDED DATA SET
1588	(634)	CHARACTER	72	CIRCKPT1	CKPT1 SPEC SAVE AREA
1660	(67C)	CHARACTER	72	CIRCKPT2	CKPT2 SPEC SAVE AREA
1732	(6C4)	CHARACTER	144	CIRCHFES	CURRENT STATE OF CKPT ALOC
1876	(754)	BITSTRING	4	CIRIDMEM	'In-Doubt' members mask
1880	(758)	ADDRESS	4	CIRM791W	CBADDR for HASP791 message
1884	(75C)	SIGNED	4	CIRECBLS (0)	List of ECBs to wait on
1884	(75C)	ADDRESS	4	CIRECBA1	Pointer to ECB 1

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1888	(760)	ADDRESS	4	CIRECBA2	Pointer to ECB 2
1892	(764)	SIGNED	4	CIRECB1	1st ECB
1896	(768)	SIGNED	4	CIRECB2	2nd ECB
1900	(76C)	CHARACTER	70	CIRDIAGR	Init dialog reason text
Comment					
UCBLOOK MF=(L,CIRUCBL) MACDATE -03/18/08-<3>					
End of Comment					
0	(0)	X'7B8'	0	M00M1020	"CIRUCBL" ++ UCBLOOK NAME
1976	(7B8)	DBL WORD	8	CIRUCBL (0)	++ UCBLOOK PARM LIST
1976	(7B8)	BITSTRING	1	CIRUCBL_XVERSION	++ INPUT XVERSION
1977	(7B9)	BITSTRING	1	CIRUCBL_XSCHSET	++
1978	(7BA)	BITSTRING	2	CIRUCBL_XDEVN	++
1980	(7BC)	CHARACTER	4	CIRUCBL_XDEVNCHAR	++
1984	(7C0)	CHARACTER	6	CIRUCBL_XVOLSER	++
1990	(7C6)	BITSTRING	1	CIRUCBL_XDEVCLASS	++ XDEVCLASS
1990	(7C6)	X'0'	0	CIRUCBL_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1990	(7C6)	X'1'	0	CIRUCBL_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1990	(7C6)	X'2'	0	CIRUCBL_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1991	(7C7)	BITSTRING	1	CIRUCBL_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCBL_XNOTFIND_YES	"B'10000000" ++ XNOTFIND.YES KEYWORD
1992	(7C8)	ADDRESS	4	CIRUCBL_XUCBPTR	++
1996	(7CC)	CHARACTER	5	CIRUCBL_XCOMPID	++
2001	(7D1)	BITSTRING	1	CIRUCBL_XMASK	++ FIELD_LABEL
		1...		CIRUCBL_XNONBASE_YES	"B'10000000" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCBL_XDYNAMIC_NO	"B'01000000" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCBL_XRANGE_3DIGIT	"B'00100000" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCBL_XLOC_ANY	"B'00010000" ++ XLOC.ANY KEYWORD
		.... 1..		CIRUCBL_XSPECIAL_YES	"B'00001000" ++ XSPECIAL.YES KEYWORD
		.... ...1		CIRUCBL_XUNBOUND_ALIAS_YES	"B'00000001" ++ XUNBOUND_ALIAS.YES KEYWORD
2002	(7D2)	BITSTRING	1	CIRUCBL_XFLAGS	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_DEVN	"B'10000000" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCBL_KEYUSED_DEVNCHAR	"B'01000000" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCBL_KEYUSED_VOLSER	"B'00100000" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCBL_KEYUSED_LASTING	"B'00010000" ++ KEYUSED.LASTING KEYWORD
		.... 1..		CIRUCBL_KEYUSED_COMPID	

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		CIRUCBL_KEYUSED_HELP	"B'00001000" ++ KEYUSED.COMPID KEYWORD
		.... ..1.		CIRUCBL_KEYUSED_PIN	"B'00000100" ++ KEYUSED.HELP KEYWORD
		.... ...1		CIRUCBL_KEYUSED_PINPATHS	"B'00000010" ++ KEYUSED.PIN KEYWORD
2003	(7D3)	BITSTRING	1	CIRUCBL_XFLAGS2	"B'00000001" ++ KEYUSED.PINPATHS KEYWORD
		1...		CIRUCBL_KEYUSED_UCBCXPTR	++ FIELD_LABEL
		.1..		CIRUCBL_KEYUSED_UCBPXPTR	"B'10000000" ++ KEYUSED.UCBCXPTR KEYWORD
		..1.		CIRUCBL_KEYUSED_LDEVNCHAR	"B'01000000" ++ KEYUSED.UCBXPTR KEYWORD
		...1		CIRUCBL_KEYUSED_SCHSET	"B'00100000" ++ KEYUSED.LDEVNCHAR KEYWORD
2004	(7D4)	ADDRESS	4	CIRUCBL_XTEXT_ADDR	"B'00010000" ++ KEYUSED.SCHSET KEYWORD
					++ ADDR
2008	(7D8)	SIGNED	4	CIRUCBL_XTEXT_ALET	
					++ ALET
2012	(7DC)	CHARACTER	8	CIRUCBL_XPTOKEN	
					++
2020	(7E4)	CHARACTER	8	CIRUCBL_XHELP	
					++
2028	(7EC)	ADDRESS	4	CIRUCBL_XIOCTOKEN_ADDR	
					++ ADDR
2032	(7F0)	SIGNED	4	CIRUCBL_XIOCTOKEN_ALET	
					++ ALET
2036	(7F4)	ADDRESS	4	CIRUCBL_XUCBPAREA_ADDR	
					++ ADDR
2040	(7F8)	SIGNED	4	CIRUCBL_XUCBPAREA_ALET	
					++ ALET
2044	(7FC)	ADDRESS	4	CIRUCBL_XUCBCXPTR	
					++
2048	(800)	ADDRESS	4	CIRUCBL_XUCBPXPTR	
					++
2052	(804)	CHARACTER	5	CIRUCBL_XLDEVNCHAR	
					++
2057	(809)	CHARACTER	3	CIRUCBL_XRESERVED1	
					++ FIELD_LABEL
2057	(809)	X'54'	0	CIRUCBL	**CIRUCBL" ++ LENGTH OF PLIST

Comment

UCBLOOK-3

End of Comment

0 (0) X'2BC' 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'550'	0	M00M1021	"CIRCAPU" ++ IOSCAPU NAME
1360	(550)	DBL WORD	8	CIRCAPU (0)	++ IOSCAPU PARM LIST
1360	(550)	BITSTRING	1	CIRCAPU_XVERSION	++ INPUT XVERSION
1361	(551)	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
1362	(552)	CHARACTER	2	CIRCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1364	(554)	ADDRESS	4	CIRCAPU_XUCBPTR	++ XUCBPTR
1368	(558)	ADDRESS	4	CIRCAPU_XCAPTPTR	++ XCAPTPTR
1372	(55C)	CHARACTER	1	CIRCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1373	(55D)	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
1374	(55E)	BITSTRING	2	CIRCAPU_XASID	++ XASID
1376	(560)	CHARACTER	16	CIRCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1376	(560)	X'20'	0	CIRCAPUL	**"CIRCAPU" ++ LENGTH OF PLIST
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					
1360	(550)	ADDRESS	4	CIRSJLSP	SJF LOCAL STORAGE POINTER
1364	(554)	ADDRESS	4	CIRSJPTR	SWB SJF POINTER
1368	(558)	BITSTRING	256	CIRSJEXP	SJF EXTRACT PARAMETER LIST
1624	(658)	CHARACTER	32	CIRFPTX	FOOTPRINT AREA FOR \$GKINIT
1656	(678)	SIGNED	1	CIRFPLN	FOOTPRINT LENGTH
1657	(679)	CHARACTER	3	CIRRSV1	RESERVED FOR FUTURE USE
1657	(679)	X'12C'	0	CIRGW6LN	**"CIRGWORK" Length of sixth mapping

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
1360	(550)	CHARACTER	120	CIRM500A	
1360	(550)	X'78'	0	CIRGW7LN	**-"CIRGWORK" Length of seventh mapping
Comment					

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

End of Comment					
1360	(550)	SIGNED	4	CIRCMSTR (0)	Full word alignment
1360	(550)	CHARACTER	4		CPLTAB ID
1364	(554)	ADDRESS	1		CPLTAB Version
1365	(555)	ADDRESS	1		Sub Pool ID (non-JES2 AS)
1366	(556)	ADDRESS	1		Sub Pool number (JES2 AS)
1367	(557)	ADDRESS	1		Storage Key
1368	(558)	ADDRESS	4		CPINDEX offset
1372	(55C)	CHARACTER	8		Cell Type
1380	(564)	CHARACTER	8		Data space name
1388	(56C)	ADDRESS	4		Cell size
1392	(570)	ADDRESS	1		General flags
1393	(571)	ADDRESS	1		Location flags
1394	(572)	ADDRESS	1		Data space flags
1395	(573)	BITSTRING	1		Reserved for future use
1396	(574)	ADDRESS	4		Limit of num of cells
1400	(578)	ADDRESS	4		Primary cell count
1404	(57C)	ADDRESS	4		Secondary cell count
Comment					

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

End of Comment					
0	(0)	X'580'	0	M00M1025	"CIRVSERV" ++ IARVSERV NAME
1408	(580)	DBL WORD	8	CIRVSERV (0)	++ IARVSERV PARM LIST
1408	(580)	BITSTRING	1	CIRVSERV_XVERSION	++ INPUT XVERSION
1409	(581)	BITSTRING	1	CIRVSERV_XSERVICE	++ XSERVICE
1409	(581)	X'1'	0	CIRVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1409	(581)	X'2'	0	CIRVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1409	(581)	X'3'	0	CIRVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1409	(581)	X'4'	0	CIRVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1410	(582)	BITSTRING	1	CIRVSERV_XFLAGS1	++ FIELD_LABEL
		1... ..		CIRVSERV_TARGET_VIEW_RO	"B'10000000" ++ XTARGET_VIEW.READONLY KEYWORD
		.1... ..		CIRVSERV_TARGET_VIEW_SW	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"B'01000000" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CIRVSERV_TARGET_VIEW_UW	
		...1		CIRVSERV_TARGET_VIEW_TW	"B'00100000" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		.... 1...		CIRVSERV_TARGET_VIEW_LS	"B'00010000" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... .1..		CIRVSERV_TARGET_VIEW_NA	"B'00001000" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... ..1.		CIRVSERV_COPYNOW	"B'00000100" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ...1		CIRVSERV_RETAIN_YES	"B'00000010" ++ KEYUSED.COPYNOW KEYWORD
1411	(583)	BITSTRING	1	CIRVSERV_XFLAGS2	"B'00000001" ++ XRETAIN.YES KEYWORD
					++ FIELD_LABEL
		1...		CIRVSERV_XPARTIALPAGE_YES	
					"B'10000000" ++ XPARTIALPAGE.YES KEYWORD
1412	(584)	SIGNED	4	CIRVSERV_XNUMRANGE	
					++ XNUMRANGE
1416	(588)	ADDRESS	4	CIRVSERV_XRANGLIST	
					++ XRANGLIST
1416	(588)	X'C'	0	CIRVSERVL	"*-CIRVSERV" ++ LENGTH OF PLIST

Comment

IARVSERV-0

End of Comment

1420	(58C)	ADDRESS	4	CIRVRLP	Pointer to range list
1424	(590)	SIGNED	4	CIRVRL (7)	IARVSERV range list
1452	(5AC)	ADDRESS	4	CIRVRETC	Return code for \$HASP564
1456	(5B0)	ADDRESS	4	CIRVRSNC	Reason code for \$HASP564
1460	(5B4)	BITSTRING	1	CIRFLAGV	NIT Data space error flag
		1...		CIRFV\$DS	"B'10000000" \$DSPSERV service failed
		.1..		CIRFVIAR	"B'01000000" IARVSERV service failed
		..1.		CIRFVNBL	"B'00100000" 'NOT EXTEND' message
		...1		CIRFVNFD	"B'00010000" 'NOT FOUND' message
		.... 1...		CIRFVNSH	"B'00001000" 'NOT SHARED' message
		.... .1..		CIRFVRC	"B'00000100" Include return code
		.... ..1.		CIRFVRS	"B'00000010" Include reason code
1461	(5B5)	BITSTRING	1	CIRASKEY	ASDS data space storage key
1462	(5B6)	BITSTRING	2		Reserved for future use
1464	(5B8)	SIGNED	4	CIRASALT	ALET for ASDS data space
1468	(5BC)	ADDRESS	4	CIRASDSB	Addr of ASDS CSA DSB
1472	(5C0)	CHARACTER	8	CIRASNAM	Gen name of ASDS data space
1472	(5C0)	X'78'	0	CIRGW8LN	"*-CIRGWORK" Length of eighth mapping

Comment

Ninth mapping of CIRGWORK used by IRSSI

End of Comment

1360	(550)	ADDRESS	4	CIRETDEF	Local ETDEF work area
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\$CIRWORK Map

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

This is mapping of CIRGWORK used by CSVVDYNEX for Multi System Dump					

MACDATE -11/17/09-<0>					

End of Comment					
0	(0)	X'558'	0	M00M1026	"CIRDYNEX" ++ CSVVDYNEX NAME
1368	(558)	DBL WORD	8	CIRDYNEX (0)	++ CSVVDYNEX PARM LIST
1368	(558)	BITSTRING	1	CIRDYNEX_XVERSION	++ INPUT XVERSION
1369	(559)	BITSTRING	1	CIRDYNEX_XREQUEST	++ XREQUEST
1369	(559)	X'0'	0	CIRDYNEX_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1369	(559)	X'1'	0	CIRDYNEX_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1369	(559)	X'2'	0	CIRDYNEX_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1369	(559)	X'3'	0	CIRDYNEX_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1369	(559)	X'4'	0	CIRDYNEX_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1369	(559)	X'5'	0	CIRDYNEX_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1369	(559)	X'6'	0	CIRDYNEX_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1369	(559)	X'7'	0	CIRDYNEX_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1369	(559)	X'8'	0	CIRDYNEX_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1369	(559)	X'9'	0	CIRDYNEX_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1369	(559)	X'A'	0	CIRDYNEX_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1369	(559)	X'B'	0	CIRDYNEX_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1369	(559)	X'C'	0	CIRDYNEX_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1370	(55A)	BITSTRING	1	CIRDYNEX_XFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_CALLSTOPRC	"B'10000000" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIRDYNEX_KEYUSED_RCFROM	"B'01000000" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIRDYNEX_KEYUSED_KEEPRC	"B'00100000" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIRDYNEX_XFASTPATH_YES	"B'00010000" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIRDYNEX_XREENTRANT_REQ	"B'00001000" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIRDYNEX_XMESSAGE_ERROR	"B'00000100" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIRDYNEX_XSTATE_ACTIVE	"B'00000010" ++ XSTATE.ACTIVE KEYWORD
		.... ...1		CIRDYNEX_XSTATE_INACTIVE	"B'00000001" ++ XSTATE.INACTIVE KEYWORD
1371	(55B)	BITSTRING	1	CIRDYNEX_XAMODE	++ XAMODE
1371	(55B)	X'0'	0	CIRDYNEX_XAMODE_31	"0" ++ XAMODE.31 KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1371	(55B)	X'1'	0	CIRDYNEX_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1371	(55B)	X'2'	0	CIRDYNEX_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1372	(55C)	SIGNED	4	CIRDYNEX_XKEY	++
1376	(560)	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
1377	(561)	BITSTRING	1	CIRDYNEX_XFLAGS3	++ FIELD_LABEL
		1...		CIRDYNEX_XRETINFO_HIGHEST	"B'10000000" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIRDYNEX_XRETINFO_LOWEST	"B'01000000" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIRDYNEX_XRETINFO_ALL	"B'00100000" ++ XRETINFO.ALL KEYWORD
		...1		CIRDYNEX_XRETINFO_LAST	"B'00010000" ++ XRETINFO.LAST KEYWORD
		.... 1..		CIRDYNEX_XQTYPE_ADD	"B'00001000" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIRDYNEX_XLOCAL_YES	"B'00000100" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIRDYNEX_XPERSIST_JOBSTEPTASK	"B'00000010" ++ XPERSIST.JOBSTEPTASK KEYWORD
		.... ...1		CIRDYNEX_XWILDCARDSTAR_NO	"B'00000001" ++ XWILDCARDSTAR.NO KEYWORD
1378	(562)	BITSTRING	1	CIRDYNEX_XPOS	++ XPOS
1378	(562)	X'0'	0	CIRDYNEX_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1378	(562)	X'1'	0	CIRDYNEX_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1378	(562)	X'2'	0	CIRDYNEX_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1379	(563)	BITSTRING	1	CIRDYNEX_XEXAAVER	++ XEXAAVER
1379	(563)	X'0'	0	CIRDYNEX_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1379	(563)	X'1'	0	CIRDYNEX_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1379	(563)	X'2'	0	CIRDYNEX_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1380	(564)	CHARACTER	4	CIRDYNEX_XRSV0002	++ RESERVED
1384	(568)	CHARACTER	16	CIRDYNEX_XEXITNAME	++
1400	(578)	CHARACTER	8	CIRDYNEX_XMODNAME	++

\$CIRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1408	(580)	ADDRESS	4	CIRDYNEX_XCMDINFO_ADDR	++ ADDR
1412	(584)	SIGNED	4	CIRDYNEX_XABENDNUM	++
1416	(588)	SIGNED	4	CIRDYNEX_XRCTO	++
1420	(58C)	SIGNED	4	CIRDYNEX_XRCFROM	++
1424	(590)	SIGNED	4	CIRDYNEX_XKEEPRC	++
1428	(594)	BITSTRING	1	CIRDYNEX_XKEEPRCCOMP	++ XKEEPRCCOMP
1428	(594)	X'0'	0	CIRDYNEX_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1428	(594)	X'1'	0	CIRDYNEX_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1428	(594)	X'2'	0	CIRDYNEX_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1428	(594)	X'3'	0	CIRDYNEX_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1428	(594)	X'4'	0	CIRDYNEX_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1428	(594)	X'5'	0	CIRDYNEX_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1429	(595)	BITSTRING	1	CIRDYNEX_XRCCOMPARE	++ XRCCOMPARE
1429	(595)	X'0'	0	CIRDYNEX_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1429	(595)	X'1'	0	CIRDYNEX_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1429	(595)	X'2'	0	CIRDYNEX_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1429	(595)	X'3'	0	CIRDYNEX_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1429	(595)	X'4'	0	CIRDYNEX_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1429	(595)	X'5'	0	CIRDYNEX_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1430	(596)	BITSTRING	1	CIRDYNEX_XFLAGS4	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_PRECALLADDR	"B'10000000" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIRDYNEX_XEXITTYPE_INSTALLATION	"B'01000000" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIRDYNEX_XEXITTYPE_PROGRAM	"B'00100000" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIRDYNEX_XEXITTYPE_NOTPROGRAM	"B'00010000" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIRDYNEX_XMESSAGE_FOUNDBUTERROR	"B'00001000" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... ...1		CIRDYNEX_XLOADAPF_YES	"B'00000001" ++ XLOADAPF.YES KEYWORD
1431	(597)	BITSTRING	1	CIRDYNEX_XEXRETVER	++ XEXRETVER
1431	(597)	X'0'	0	CIRDYNEX_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1431	(597)	X'1'	0	CIRDYNEX_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1432	(598)	SIGNED	4	CIRDYNEX_XCALLSTOPRC	++
1436	(59C)	CHARACTER	44	CIRDYNEX_XRSVNNNN	++ RESERVED
1436	(59C)	X'5C8'	0	CIRDYNEX_PL_END	*** ++ END OF BASE PLIST

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1412	(584)	SIGNED	4	CIRDYNEX_XADDABENDNUM	++
1428	(594)	BITSTRING	1	CIRDYNEX_XKEEPRCCVAL	++
1429	(595)	BITSTRING	1	CIRDYNEX_XRCCVAL	++
1436	(59C)	ADDRESS	4	CIRDYNEX_XWORKAREA_ADDR	++ ADDR
1440	(5A0)	ADDRESS	4	CIRDYNEX_XRETAREA_ADDR	++ ADDR
1444	(5A4)	SIGNED	4	CIRDYNEX_XRETAREA_ALET	++ ALET
1448	(5A8)	SIGNED	4	CIRDYNEX_XRETLEN	++
1452	(5AC)	ADDRESS	4	CIRDYNEX_XRUB_ADDR	++ ADDR
1456	(5B0)	SIGNED	4	CIRDYNEX_XRUB_ALET	++ ALET
1460	(5B4)	CHARACTER	8	CIRDYNEX_XNEXTTOKEN	++
1468	(5BC)	ADDRESS	4	CIRDYNEX_XSDWA_ADDR	++ ADDR
1472	(5C0)	ADDRESS	4	CIRDYNEX_XPRECALLWA_ADDR	++ ADDR
1436	(59C)	ADDRESS	4	CIRDYNEX_XANSAREA_ADDR	++ ADDR
1440	(5A0)	SIGNED	4	CIRDYNEX_XANSAREA_ALET	++ ALET
1444	(5A4)	SIGNED	4	CIRDYNEX_XANSLEN	++
1436	(59C)	ADDRESS	4	CIRDYNEX_XPRECALLADDR	++
1436	(59C)	ADDRESS	4	CIRDYNEX_XDSNAME_ADDR	++ ADDR
1440	(5A0)	SIGNED	4	CIRDYNEX_XDSNAME_ALET	++ ALET
1444	(5A4)	CHARACTER	8	CIRDYNEX_XJOBNAME	++
1452	(5AC)	ADDRESS	4	CIRDYNEX_XMODADDR	++
1456	(5B0)	CHARACTER	8	CIRDYNEX_XPARAM	++
1444	(5A4)	CHARACTER	8	CIRDYNEX_XSTOKEN	++
1480	(5C8)	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					
1480	(5C8)	ADDRESS	2	(0)	Ensure that
1480	(5C8)	ADDRESS	2	(0)	CIRGWORK is
1480	(5C8)	ADDRESS	2	(0)	larger than
1480	(5C8)	ADDRESS	2	(0)	each of the

\$CIRWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1480	(5C8)	ADDRESS	2	(0)	individual
1480	(5C8)	ADDRESS	2	(0)	mappings of
1480	(5C8)	ADDRESS	2	(0)	the data
1480	(5C8)	ADDRESS	2	(0)	area
1480	(5C8)	ADDRESS	2	(0)	
2260	(8D4)	SIGNED	4	(0)	
2260	(8D4)	X'79C'	0	CIRWLEN	**_PCEWORK" LENGTH OF CIR PCE WORK
2260	(8D4)	X'8D4'	0	CIRLEN	**_PCE" LENGTH OF INIT PCE

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CIRACCTJ	284		CIRCAPU_XVERSION		
CIRACCTN	288			550	
CIRALTDS	580		CIRCAPUL	560	20
CIRANSA	5E8		CIRCHFES	6C4	
CIRANSAL	5EC		CIRCHIUS	616	8
CIRASALT	5B8		CIRCKPT1	634	
CIRASDSB	5BC		CIRCKPT2	67C	
CIRASKEY	5B5		CIRCKPVR	13C	
CIRASNAM	5C0		CIRCKVER	596	40
CIRBLDM	3C8	C2D3C440	CIRCKVTM	596	20
CIRBSCLC	2EC	0	CIRCKVWR	596	80
CIRBTGFA	2FC		CIRCLGSZ	615	8
CIRBTGLA	300		CIRCLREC	594	
CIRBTPRC	1DA		CIRCMDTB	2E0	
CIRCAPU	550		CIRCMSTR	550	
CIRCAPU_KEYUSED_ASID			CIRCMTSV	270	0
	551	10	CIRCNECT	390	
CIRCAPU_KEYUSED_CAPTOACT			CIRCOUNT	590	
	551	20	CIRCSRET	5C8	
CIRCAPU_KEYUSED_CAPTPTR			CIRCTASI	604	
	551	4	CIRCTBLN	600	
CIRCAPU_KEYUSED_CAPTUCB			CIRCTBUF	5FC	
	551	80	CIRCTEND	58C	
CIRCAPU_KEYUSED_UCAPTUCB			CIRCTENT	588	
	551	40	CIRCTLST	598	
CIRCAPU_KEYUSED_UCBPTR			CIRCTLST_DEFINE		
	551	8		59C	1
CIRCAPU_XASID			CIRCTLST_DELETE		
	55E			59C	2
CIRCAPU_XCAPTCOM_NEVER			CIRCTLST_KEYUSED_BUFDFLT		
	55D	10		5BA	8
CIRCAPU_XCAPTCOM_YES			CIRCTLST_KEYUSED_BUFMAX		
	55D	20		5BA	10
CIRCAPU_XCAPTPTR			CIRCTLST_KEYUSED_BUFMIN		
	558			5BA	20
CIRCAPU_XFLAGS1			CIRCTLST_KEYUSED_IFNOSUBS		
	551			5BA	1
CIRCAPU_XLASTING_YES			CIRCTLST_KEYUSED_MINOPS		
	55D	40		5B8	10
CIRCAPU_XMASK			CIRCTLST_KEYUSED_PARM		
	55D			5BA	40
CIRCAPU_XMSIFREE_YES			CIRCTLST_KEYUSED_SSRC		
	55D	80		5BA	4
CIRCAPU_XRESERVED1			CIRCTLST_KEYUSED_SSR SNC		
	552			5BA	2
CIRCAPU_XRESERVED2			CIRCTLST_KEYUSED_SUB		
	55C			5BA	80
CIRCAPU_XRESERVED3			CIRCTLST_KEYUSED_USERDATA		
	560			5BB	80
CIRCAPU_XUCBPTR			CIRCTLST_PL_END		
	554			5F8	5FC

Name	Hex Offset	Hex Value
CIRCTLST_XASIDS_YES	5B8	80
CIRCTLST_XBUFDEFIN_YES	5B8	4
CIRCTLST_XBUFDFLT	5E0	
CIRCTLST_XBUFFER_YES	5B8	40
CIRCTLST_XBUFMAX	5DC	
CIRCTLST_XBUFMIN	5D8	
CIRCTLST_XFLG1	5B8	
CIRCTLST_XFLG2	5B9	
CIRCTLST_XFLG3	5BA	
CIRCTLST_XFLG4	5BB	
CIRCTLST_XFMTTAB	5B0	
CIRCTLST_XHEAD_YES	5B9	40
CIRCTLST_XHEADOPTS_YES	5B9	20
CIRCTLST_XJOBS_YES	5B8	20
CIRCTLST_XLIKEHEAD_YES	5B9	80
CIRCTLST_XLNKPARM	5BC	
CIRCTLST_XMANYSUBS_YES	5B9	10
CIRCTLST_XMINOPS_ADDR	5C0	
CIRCTLST_XMINOPS_LEN	5C4	
CIRCTLST_XMOD_YES	5B8	8
CIRCTLST_XNAME	5A0	
CIRCTLST_XPARAM	5EC	
CIRCTLST_XRSV0000	599	
CIRCTLST_XRVS0002	5D6	
CIRCTLST_XRVS0003	5EA	
CIRCTLST_XSERVICE	59C	
CIRCTLST_XSSRC	5F4	
CIRCTLST_XSSRSNC	5F8	
CIRCTLST_XSTARTNAM	5A8	
CIRCTLST_XSUB_ADDR	5E4	
CIRCTLST_XSUB_LEN	5E8	
CIRCTLST_XUSERDATA	5C6	
CIRCTLST_XVERSION		

Name	Hex Offset	Hex Value
CIRCTLST_XWTR_YES	5B8	2
CIRCTLST_XWTRMODE_DREF	5B9	4
CIRCTLST_XWTRMODE_FIXED	5B9	2
CIRCTLST_XWTRMODE_PAGEABLE	5B9	8
CIRCTLSTL	5F8	64
CIRCTNAM	60C	
CIRCTUSR	5FC	
CIRCURDS	57C	
CIRCURRC	550	
CIRDIAGR	76C	
CIRDOMID	38C	
CIRDONFW	616	20
CIRDWORK	148	0
CIRDYNEX	558	
CIRDYNEX_KEYUSED_CALLSTOPRC	55A	80
CIRDYNEX_KEYUSED_KEEPRC	55A	20
CIRDYNEX_KEYUSED_PRECALLADDR	596	80
CIRDYNEX_KEYUSED_RCFROM	55A	40
CIRDYNEX_KEYUSED_STOKEN	560	1
CIRDYNEX_PL_END	59C	5C8
CIRDYNEX_XABENDCONSEC_YES	560	4
CIRDYNEX_XABENDNUM	584	
CIRDYNEX_XADDABENDNUM	584	
CIRDYNEX_XAMODE	55B	
CIRDYNEX_XAMODE_DEFINED	55B	2
CIRDYNEX_XAMODE_24	55B	1
CIRDYNEX_XAMODE_31	55B	0
CIRDYNEX_XANSAREA_ADDR	59C	
CIRDYNEX_XANSAREA_ALET	5A0	
CIRDYNEX_XANSLEN	5A4	
CIRDYNEX_XANYKEY_YES	560	8
CIRDYNEX_XCALLSTOPRC	598	
CIRDYNEX_XCMDINFO_ADDR	580	
CIRDYNEX_XDSNAME_ADDR	59C	
CIRDYNEX_XDSNAME_ALET	5A0	
CIRDYNEX_XEXAAVER	563	
CIRDYNEX_XEXAAVER_0	563	0

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value
CIRDYNEX_XEXAAVER_1	563	1
CIRDYNEX_XEXAAVER_2	563	2
CIRDYNEX_XEXITNAME	568	
CIRDYNEX_XEXITTYPE_INSTALLATION	596	40
CIRDYNEX_XEXITTYPE_NOTPROGRAM	596	10
CIRDYNEX_XEXITTYPE_PROGRAM	596	20
CIRDYNEX_XEXRETVER	597	
CIRDYNEX_XEXRETVER_0	597	0
CIRDYNEX_XEXRETVER_1	597	1
CIRDYNEX_XFASTPATH_YES	55A	10
CIRDYNEX_XFLAGS	55A	
CIRDYNEX_XFLAGS2	560	
CIRDYNEX_XFLAGS3	561	
CIRDYNEX_XFLAGS4	596	
CIRDYNEX_XFORCE_YES	560	40
CIRDYNEX_XJOBNAME	5A4	
CIRDYNEX_XKEEPRC	590	
CIRDYNEX_XKEEPRCCOMP	594	
CIRDYNEX_XKEEPRCCOMP_EQ	594	0
CIRDYNEX_XKEEPRCCOMP_GE	594	4
CIRDYNEX_XKEEPRCCOMP_GT	594	2
CIRDYNEX_XKEEPRCCOMP_LE	594	5
CIRDYNEX_XKEEPRCCOMP_LT	594	3
CIRDYNEX_XKEEPRCCOMP_NE	594	1
CIRDYNEX_XKEEPRCCVAL	594	
CIRDYNEX_XKEY	55C	
CIRDYNEX_XLINKSTACKOK_NO	560	2
CIRDYNEX_XLOADAPF_YES	596	1
CIRDYNEX_XLOCAL_YES	561	4
CIRDYNEX_XMESSAGE_ERROR	55A	4
CIRDYNEX_XMESSAGE_FOUNDBUTERROR	596	8
CIRDYNEX_XMODADDR	5AC	
CIRDYNEX_XMODNAME		

Name	Hex Offset	Hex Value
CIRDYNEX_XNEXTTOKEN	578	
CIRDYNEX_XONEMODULE_YES	5B4	
CIRDYNEX_XPARAM	560	80
CIRDYNEX_XPERSIST_ADDRESSSPACE	560	20
CIRDYNEX_XPERSIST_IPL	560	10
CIRDYNEX_XPERSIST_JOBSTEPTASK	561	2
CIRDYNEX_XPOS	562	
CIRDYNEX_XPOS_FIRST	562	2
CIRDYNEX_XPOS_LAST	562	1
CIRDYNEX_XPOS_SYSTEM	562	0
CIRDYNEX_XPRECALLADDR	59C	
CIRDYNEX_XPRECALLWA_ADDR	5C0	
CIRDYNEX_XQTYPE_ADD	561	8
CIRDYNEX_XRCCOMPARE	595	
CIRDYNEX_XRCCOMPARE_EQ	595	0
CIRDYNEX_XRCCOMPARE_GE	595	4
CIRDYNEX_XRCCOMPARE_GT	595	2
CIRDYNEX_XRCCOMPARE_LE	595	5
CIRDYNEX_XRCCOMPARE_LT	595	3
CIRDYNEX_XRCCOMPARE_NE	595	1
CIRDYNEX_XRCCVAL	595	
CIRDYNEX_XRCFROM	58C	
CIRDYNEX_XRCTO	588	
CIRDYNEX_XREENTRANT_REQ	55A	8
CIRDYNEX_XREQUEST	559	
CIRDYNEX_XREQUEST_ACTIVATE	559	A
CIRDYNEX_XREQUEST_ADD	559	1
CIRDYNEX_XREQUEST_ATTRIB	559	5
CIRDYNEX_XREQUEST_CALL	559	7
CIRDYNEX_XREQUEST_DEFINE	559	0
CIRDYNEX_XREQUEST_DELETE	559	3
CIRDYNEX_XREQUEST_LIST	559	6

Name	Hex Offset	Hex Value
CIRDYNEX_XREQUEST_MODIFY	559	2
CIRDYNEX_XREQUEST_PROCESSDP	559	9
CIRDYNEX_XREQUEST_QUERY	559	B
CIRDYNEX_XREQUEST_RECOVER	559	8
CIRDYNEX_XREQUEST_REPLACE	559	C
CIRDYNEX_XREQUEST_UNDEFINE	559	4
CIRDYNEX_XRETAREA_ADDR	5A0	
CIRDYNEX_XRETAREA_ALET	5A4	
CIRDYNEX_XRETINFO_ALL	561	20
CIRDYNEX_XRETINFO_HIGHEST	561	80
CIRDYNEX_XRETINFO_LAST	561	10
CIRDYNEX_XRETINFO_LOWEST	561	40
CIRDYNEX_XRETLEN	5A8	
CIRDYNEX_XRSVNNNN	59C	
CIRDYNEX_XRSV0002	564	
CIRDYNEX_XRUB_ADDR	5AC	
CIRDYNEX_XRUB_ALET	5B0	
CIRDYNEX_XSDWA_ADDR	5BC	
CIRDYNEX_XSTATE_ACTIVE	55A	2
CIRDYNEX_XSTATE_INACTIVE	55A	1
CIRDYNEX_XSTOKEN	5A4	
CIRDYNEX_XVERSION	558	
CIRDYNEX_XWILDCARDSTAR_NO	561	1
CIRDYNEX_XWORKAREA_ADDR	59C	
CIRDYNEXL	5C8	70
CIRECB	154	0
CIRECBA1	75C	
CIRECBA2	760	
CIRECBLS	75C	
CIRECB1	764	
CIRECB2	768	
CIRETDEF	550	
CIREXDYN	5F0	
CIREXDYN_KEYUSED_CALLSTOPRC	5F2	80
CIREXDYN_KEYUSED_KEEPRC	5F2	20
CIREXDYN_KEYUSED_PRECALLADDR	62E	80
CIREXDYN_KEYUSED_RCFROM	5F2	40

Name	Hex Offset	Hex Value
CIREXDYN_KEYUSED_STOKEN	5F8	1
CIREXDYN_PL_END	634	660
CIREXDYN_XABENDCONSEC_YES	5F8	4
CIREXDYN_XABENDNUM	61C	
CIREXDYN_XADDABENDNUM	61C	
CIREXDYN_XAMODE	5F3	
CIREXDYN_XAMODE_DEFINED	5F3	2
CIREXDYN_XAMODE_24	5F3	1
CIREXDYN_XAMODE_31	5F3	0
CIREXDYN_XANSAREA_ADDR	634	
CIREXDYN_XANSAREA_ALET	638	
CIREXDYN_XANSLEN	63C	
CIREXDYN_XANYKEY_YES	5F8	8
CIREXDYN_XCALLSTOPRC	630	
CIREXDYN_XCMDINFO_ADDR	618	
CIREXDYN_XDSNAME_ADDR	634	
CIREXDYN_XDSNAME_ALET	638	
CIREXDYN_XEXAAVER	5FB	
CIREXDYN_XEXAAVER_0	5FB	0
CIREXDYN_XEXAAVER_1	5FB	1
CIREXDYN_XEXAAVER_2	5FB	2
CIREXDYN_XEXITNAME	600	
CIREXDYN_XEXITTYPE_INSTALLATION	62E	40
CIREXDYN_XEXITTYPE_NOTPROGRAM	62E	10
CIREXDYN_XEXITTYPE_PROGRAM	62E	20
CIREXDYN_XEXRETVER	62F	
CIREXDYN_XEXRETVER_0	62F	0
CIREXDYN_XEXRETVER_1	62F	1
CIREXDYN_XFASTPATH_YES	5F2	10
CIREXDYN_XFLAGS	5F2	
CIREXDYN_XFLAGS2	5F8	
CIREXDYN_XFLAGS3	5F9	
CIREXDYN_XFLAGS4		

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value
	62E	
CIREXDYN_XFORCE_YES	5F8	40
CIREXDYN_XJOBNAME		
	63C	
CIREXDYN_XKEEPRC		
	628	
CIREXDYN_XKEEPRCCOMP		
	62C	
CIREXDYN_XKEEPRCCOMP_EQ	62C	0
CIREXDYN_XKEEPRCCOMP_GE	62C	4
CIREXDYN_XKEEPRCCOMP_GT	62C	2
CIREXDYN_XKEEPRCCOMP_LE	62C	5
CIREXDYN_XKEEPRCCOMP_LT	62C	3
CIREXDYN_XKEEPRCCOMP_NE	62C	1
CIREXDYN_XKEEPRCCVAL	62C	
CIREXDYN_XKEY		
	5F4	
CIREXDYN_XLINKSTACKOK_NO	5F8	2
CIREXDYN_XLOADAPF_YES	62E	1
CIREXDYN_XLOCAL_YES	5F9	4
CIREXDYN_XMESSAGE_ERROR	5F2	4
CIREXDYN_XMESSAGE_FOUNDBUTERROR	62E	8
CIREXDYN_XMODADDR		
	644	
CIREXDYN_XMODNAME		
	610	
CIREXDYN_XNEXTTOKEN		
	64C	
CIREXDYN_XONEMODULE_YES	5F8	80
CIREXDYN_XPARAM		
	648	
CIREXDYN_XPERSIST_ADDRESSSPACE	5F8	20
CIREXDYN_XPERSIST_IPL	5F8	10
CIREXDYN_XPERSIST_JOBSTEPTASK	5F9	2
CIREXDYN_XPOS		
	5FA	
CIREXDYN_XPOS_FIRST	5FA	2
CIREXDYN_XPOS_LAST	5FA	1
CIREXDYN_XPOS_SYSTEM	5FA	0
CIREXDYN_XPRECALLADDR		
	634	
CIREXDYN_XPRECALLWA_ADDR		
	658	
CIREXDYN_XQTYPE_ADD	5F9	8

Name	Hex Offset	Hex Value
CIREXDYN_XRCCOMPARE		
	62D	
CIREXDYN_XRCCOMPARE_EQ	62D	0
CIREXDYN_XRCCOMPARE_GE	62D	4
CIREXDYN_XRCCOMPARE_GT	62D	2
CIREXDYN_XRCCOMPARE_LE	62D	5
CIREXDYN_XRCCOMPARE_LT	62D	3
CIREXDYN_XRCCOMPARE_NE	62D	1
CIREXDYN_XRCCVAL		
	62D	
CIREXDYN_XRCFROM		
	624	
CIREXDYN_XRCTO		
	620	
CIREXDYN_XREENTRANT_REQ	5F2	8
CIREXDYN_XREQUEST		
	5F1	
CIREXDYN_XREQUEST_ACTIVATE	5F1	A
CIREXDYN_XREQUEST_ADD	5F1	1
CIREXDYN_XREQUEST_ATTRIB	5F1	5
CIREXDYN_XREQUEST_CALL	5F1	7
CIREXDYN_XREQUEST_DEFINE	5F1	0
CIREXDYN_XREQUEST_DELETE	5F1	3
CIREXDYN_XREQUEST_LIST	5F1	6
CIREXDYN_XREQUEST_MODIFY	5F1	2
CIREXDYN_XREQUEST_PROCESSDP	5F1	9
CIREXDYN_XREQUEST_QUERY	5F1	B
CIREXDYN_XREQUEST_RECOVER	5F1	8
CIREXDYN_XREQUEST_REPLACE	5F1	C
CIREXDYN_XREQUEST_UNDEFINE	5F1	4
CIREXDYN_XRETAREA_ADDR		
	638	
CIREXDYN_XRETAREA_ALET		
	63C	
CIREXDYN_XRETINFO_ALL	5F9	20
CIREXDYN_XRETINFO_HIGHEST	5F9	80
CIREXDYN_XRETINFO_LAST	5F9	10
CIREXDYN_XRETINFO_LOWEST	5F9	40
CIREXDYN_XRETLEN		
	640	
CIREXDYN_XRSVNNNN		

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	634		CIRF3LOG	13A	40
CIREXDYN_XRSV0002			CIRF3LST	13A	80
	5FC		CIRF3MID	13A	20
CIREXDYN_XRUB_ADDR			CIRF3VE1	13A	2
	644		CIRF3VE2	13A	1
CIREXDYN_XRUB_ALET			CIRF3V1I	13A	6
	648		CIRF3V12	13A	3
CIREXDYN_XSDWA_ADDR			CIRF4CHD	13B	2
	654		CIRF4CHM	13B	4
CIREXDYN_XSTATE_ACTIVE	5F2	2	CIRF4ILL	13B	80
CIREXDYN_XSTATE_INACTIVE	5F2	1	CIRF4RER	13B	8
CIREXDYN_XSTOKEN			CIRF4RES	13B	10
	63C		CIRF4RTE	13B	1
CIREXDYN_XVERSION			CIRF4SCN	13B	20
	5F0		CIRF4XER	13B	40
CIREXDYN_XWILDCARDSTAR_NO	5F9	1	CIRGEMR	280	39
CIREXDYN_XWORKAREA_ADDR			CIRGEMR	280	39
	634		CIRGWORK	550	
CIREXDYNL	660	70	CIRGW1LN	860	358
CIREXIT0	15C		CIRGW2LN	60C	188
CIREXPRF	615	40	CIRGW3LN	550	0
CIRFFWD	616	10	CIRGW4LN	0	2BC
CIRFLAGV	5B4		CIRGW5LN	0	20
CIRFLAG1	138	0	CIRGW6LN	679	12C
CIRFLAG2	139	0	CIRGW7LN	550	78
CIRFLAG3	13A		CIRGW8LN	5C0	78
CIRFLAG4	13B	0	CIRGW9LN	0	78
CIRFLAG5	27A	0	CIRHCT	150	
CIRFLAG6	27B	0	CIRIDMEM	754	
CIRFPLN	678		CIRINFMR	280	3D
CIRFPTX	658		CIRINSSA	5EC	
CIRFV\$DS	5B4	80	CIRINSSL	5F0	
CIRFVIAR	5B4	40	CIRIPRW	60C	0
CIRFVNBL	5B4	20	CIRIQNAM	394	E2E8E2E9
CIRFVNFD	5B4	10	CIRIRDAF	615	0
CIRFVNSH	5B4	8	CIRIRDA1	616	0
CIRFVRC	5B4	4	CIRIRDA2	596	0
CIRFVRS	5B4	2	CIRIRNAM	39C	C9D5C9E3
CIRFWCNT	630		CIRIRPL1	20E	0
CIRFWDDS	616	40	CIRI416	616	2
CIRF1CAN	138	4	CIRI460	616	4
CIRF1CI	138	20	CIRJBMAX	280	
CIRF1HPI	138	80	CIRJBMIN	27C	
CIRF1INC	138	40	CIRJNPRC	1D6	
CIRF1PER	138	8	CIRJOHI	1CE	FF0
CIRF1SER	138	1	CIRJLOW	1D0	0
CIRF1SSW	138	2	CIRJOPRC	1D4	
CIRF1XI	138	10	CIRJORAT	1CC	0
CIRF2CM	139	10	CIRJOTEC	615	2
CIRF2CMA	139	2	CIRJOTES	614	
CIRF2CMT	139	1	CIRJOTRB	615	1
CIRF2ECM	139	8	CIRJOTV	615	3
CIRF2HPO	139	20	CIRJQENC	560	
CIRF2JEX	139	80	CIRJQENP	564	
CIRF2RRD	139	40	CIRJQHI	1CA	
CIRF2SSE	139	4	CIRJQLOW	1CB	
CIRF3BDV	13A	10	CIRJQPRC	1D2	
CIRF3ERR	13A	F	CIRJQRAT	1C8	0
CIRF3IO1	13A	8	CIRLEN	8D4	8D4
CIRF3IO2	13A	4	CIRLFJQE	584	
CIRF3I1V	13A	9	CIRLNENM	3A6	0
CIRF3I12	13A	C	CIRLPARM	604	
			CIRLRCNT	608	
			CIRMAXQT	615	20
			CIRMSGIS	616	80
			CIRMSTRS	570	

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CIRWORK	420		CIRSJEXP	558	
CIRM500A	550		CIRSJLSP	550	
CIRM791W	758		CIRSJPTR	554	
CIRNDCHN	260	0	CIRSNALC	2F0	0
CIRNDDOM	260	10	CIRSPLF	568	
CIRNDEYE	260	0	CIRSPLGE	615	10
CIRNDLAY	22C		CIRSPLL	56C	
CIRNDLEN	260	14	CIRSPT	304	0
CIRNDMSG	260	C	CIRSTIMC	250	0
CIRNDNXT	260	4	CIRSTIMS	238	0
CIRNDSTI	260	8	CIRSTMCL	250	10
CIRNFSSP	3BC	0	CIRSTMSL	238	18
CIRNLLCC	568		CIRSTMTA	5E4	
CIRNLLCT	20A	1	CIRSTMTC	208	0
CIRNLLL1	57B	1E	CIRSTMTL	5E8	
CIRNLLNE	568		CIRSTMTT	1E0	
CIRNLLSH	576		CIRSTMTW	1DC	
CIRNLLSN	57B		CIRSWARN	5F4	
CIRNLLSR	569		CIRSYMBP	1E4	0
CIRNLLST	591		CIRS99PT	564	
CIRNLPCT	20C	0	CIRS99RB	550	
CIRNODAT	616	1	CIRTCPLC	2F4	0
CIRNPLLG	21C		CIRTDCTS	2E8	
CIRNQMSG	228		CIRTGEDM	28C	40202020
CIRNTCLF	3C0	0	CIRTGPRC	1D8	
CIRNTCLP	3C4	0	CIRTOTL	574	
CIRNUMJR	3AC	0	CIRTRANL	200	0
CIRNUMJT	3A8	0	CIRTRANR	204	0
CIRNUMSR	3B4	0	CIRSTOR	2E4	
CIRNUMST	3B0	0	CIRTVECT	578	
CIRNXTOK	5B8		CIRUCBL	7B8	
CIRN3800	3B8	0	CIRUCBL_KEYUSED_COMPID		
CIROPTA	384			7D2	8
CIROPTL	388		CIRUCBL_KEYUSED_DEVN		
CIROPTPF	160			7D2	80
CIROPTS	164	0	CIRUCBL_KEYUSED_DEVNCHAR		
CIRPARMF	617			7D2	40
CIRPARML	618		CIRUCBL_KEYUSED_HELP		
CIRPARMS	62C	617		7D2	4
CIRPARM1	618		CIRUCBL_KEYUSED_LASTING		
CIRPARM2	61C			7D2	10
CIRPARM3	620		CIRUCBL_KEYUSED_LDEVNCHAR		
CIRPARM4	624			7D3	20
CIRPARM5	628		CIRUCBL_KEYUSED_PIN		
CIRPARM6	62C			7D2	2
CIRPDCT	230		CIRUCBL_KEYUSED_PINPATHS		
CIRPDCT2	234			7D2	1
CIRPLWRK	5F8		CIRUCBL_KEYUSED_SCHSET		
CIRPRDCB	5FC			7D3	10
CIRPREVC	558		CIRUCBL_KEYUSED_UCBCXPTR		
CIRPRMWR	600			7D3	80
CIRP1AST	20E	80	CIRUCBL_KEYUSED_UCBPXPTR		
CIRREPLY	140	0		7D3	40
CIRROPSL	292	F0F0F0F0	CIRUCBL_KEYUSED_VOLSER		
CIRROPST	2AA	F0F0F0F0		7D2	20
CIRROPSU	2C2	F0F0F0F0	CIRUCBL_XCOMPID		
CIRRSV1	679			7CC	
CIRRUB	5A4		CIRUCBL_XDEVCLASS		
CIRRUBRB	5B0			7C6	
CIRRUBRD	5B4		CIRUCBL_XDEVCLASS_DASD		
CIRRUBR0	5A8			7C6	2
CIRRUBR1	5AC		CIRUCBL_XDEVCLASS_DASDTAPE		
CIRSCMLN	550			7C6	0
CIRSCMSG	552		CIRUCBL_XDEVCLASS_TAPE		
CIRSDLCT	210	0		7C6	1

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CIRUCBL_XDEVN	7BA		CIRVSERV_CHANGEACCESS	581	3
CIRUCBL_XDEVNCHAR	7BC		CIRVSERV_COPYNOW	582	2
CIRUCBL_XDYNAMIC_NO	7D1	40	CIRVSERV_RETAIN_YES	582	1
CIRUCBL_XFLAGS	7D2		CIRVSERV_SHARE	581	1
CIRUCBL_XFLAGS2	7D3		CIRVSERV_SHARESEG	581	4
CIRUCBL_XHELP	7E4		CIRVSERV_TARGET_VIEW_LS	582	8
CIRUCBL_XIOCTOKEN_ADDR	7EC		CIRVSERV_TARGET_VIEW_NA	582	4
CIRUCBL_XIOCTOKEN_ALET	7F0		CIRVSERV_TARGET_VIEW_RO	582	80
CIRUCBL_XLDEVNCHAR	804		CIRVSERV_TARGET_VIEW_SW	582	40
CIRUCBL_XLOC_ANY	7D1	10	CIRVSERV_TARGET_VIEW_TW	582	10
CIRUCBL_XMASK	7D1		CIRVSERV_TARGET_VIEW_UW	582	20
CIRUCBL_XNONBASE_YES	7D1	80	CIRVSERV_UNSHARE	581	2
CIRUCBL_XNOTFIND_YES	7C7	80	CIRVSERV_XFLAGS1	582	
CIRUCBL_XPTOKEN	7DC		CIRVSERV_XFLAGS2	583	
CIRUCBL_XRANGE_3DIGIT	7D1	20	CIRVSERV_XNUMRANGE	584	
CIRUCBL_XRESERVED1	809		CIRVSERV_XPARTIALPAGE_YES	583	80
CIRUCBL_XRESERVED2	7C7		CIRVSERV_XRANGLIST	588	
CIRUCBL_XSCHSET	7B9		CIRVSERV_XSERVICE	581	
CIRUCBL_XSPECIAL_YES	7D1	8	CIRVSERV_XVERSION	580	
CIRUCBL_XTEXT_ADDR	7D4		CIRVSEVL	588	C
CIRUCBL_XTEXT_ALET	7D8		CIRWLEN	8D4	79C
CIRUCBL_XUCBCXPTR	7FC		CIRWMER	615	80
CIRUCBL_XUCBPAREA_ADDR	7F4		CIRWXIT0	158	
CIRUCBL_XUCBPAREA_ALET	7F8		CIRXAREA	660	
CIRUCBL_XUCBPTR	7C8		CIRXEMN	280	3C
CIRUCBL_XUCBPXPTR	800		CIRXEMNM	280	48
CIRUCBL_XUNBOUND_ALIAS_YES	7D1	1	CIRX0#RT	218	
CIRUCBL_XVERSION	7B8		CIRX0PS	384	
CIRUCBL_XVOLSER	7C0		CIRX0RNM	5C0	
CIRUCBL	809	54	CIRX0SAV	860	
CIRVOLTB	2DC		CIRX0XRT	214	
CIRVRETC	5AC		CIRX19PS	5E4	
CIRVRL	590		CIRZIP	2F8	
CIRVRLP	58C		CIR5BRTE	27A	2
CIRVRSNC	5B0		CIR5DMEM	27A	8
CIRVSERV	580		CIR5DSEQ	27A	20
			CIR5HPRM	27A	10
			CIR5IRDD	27A	80
			CIR5LPRM	27A	4
			CIR5QWIK	27A	40
			CIR5RRTE	27A	1
			CIR6DERR	27B	80
			M00M1017	0	5F0
			M00M1019	0	598
			M00M1020	0	7B8
			M00M1021	0	550

\$CIRWORK Cross Reference

Name	Hex Offset	Hex Value
M00M1025	0	580
M00M1026	0	558
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	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	CKBDCCBP	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
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

\$CK Map

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

Comment

Key data area used in the search key operations

End of Comment

96	(60)	DBL WORD	8	(0)	
96	(60)	BITSTRING	8	CKBKEY	SEARCH KEY CCW ARGUMENT

Comment

Lock record read buffer

End of Comment

104	(68)	DBL WORD	8	(0)	
104	(68)	BITSTRING	8	CKBLRKEY	Key portion of lock record
112	(70)	BITSTRING	372	CKBLRDAT	LOCK DATA INPUT AREA
112	(70)	SIGNED	4	CKBLRSYS	Member ID (\$SIDBUSY) Fld
116	(74)	SIGNED	4	CKBLRLVI	Level indicator field
120	(78)	CHARACTER	4	CKBLRSID	\$SID field
124	(7C)	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

124	(7C)	CHARACTER	8	CKBLRPLN	MVS sysplex name
132	(84)	BITSTRING	4	CKBLRSYT	MVS system id/token
136	(88)	BITSTRING	8	CKBLRPLI	MVS sysplex id
144	(90)	BITSTRING	8	CKBLRMTK	XCF member token
152	(98)	CHARACTER	8	CKBLRMVS	MVS System Name

Comment

End of data to be mapped together for XCFQSTAT.

End of Comment

484	(1E4)	X'168'	0	CKBLROTL	**-CKBLROTH" Size of lock data to be moved to "check record" when CKPT is on CF
484	(1E4)	ADDRESS	2	(0)	Ensure hard coded
484	(1E4)	ADDRESS	2	(0)	length is correct
484	(1E4)	X'174'	0	CKBLKRLN	**-CKBLRDAT" SIZE OF DATA AREA OF LOCK

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Lock record write buffer					
End of Comment					
488	(1E8)	DBL WORD	8	CKBLWKEY	STORAGE AREA FOR WRITING
488	(1E8)	X'1E8'	0	CKBLWKYP	"CKBLWKEY,8,C'C" Define character version of field since PLX and the offset table don't handle doublewords well
496	(1F0)	BITSTRING	372	CKBLWDAT	LOCK RECORD KEY AND DATA
496	(1F0)	SIGNED	4	CKBLWSYS	Member ID (\$SIDBUSY) Fld
500	(1F4)	SIGNED	4	CKBLWLVI	Level indicator field
504	(1F8)	CHARACTER	4	CKBLWSID	\$\$SID field
508	(1FC)	CHARACTER	360	CKBLWOTH (0)	Area to copy to check record if CKPT on CF
Comment					
<p>-----</p> <p>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.</p> <p>-----</p>					
End of Comment					
508	(1FC)	CHARACTER	8	CKBLWPLN	MVS sysplex name
516	(204)	BITSTRING	4	CKBLWSYT	MVS system id/token
520	(208)	BITSTRING	8	CKBLWPLI	MVS sysplex id
528	(210)	BITSTRING	8	CKBLWMTK	XCF member token
536	(218)	CHARACTER	8	CKBLWMVS	MVS System Name
Comment					
<p>-----</p> <p>End of data to be mapped together for XCFQSTAT.</p> <p>-----</p>					
End of Comment					
868	(364)	X'168'	0	CKBLWOTL	"*-CKBLWOTH" Size of lock data to be moved to "check record" when CKPT is on CF
868	(364)	ADDRESS	2	(0)	Ensure hard coded
868	(364)	ADDRESS	2	(0)	length is correct
Comment					
Check record buffer					
End of Comment					
872	(368)	DBL WORD	8	CKBCKDAT (0)	START OF CHECK RECORD DATA
872	(368)	CHARACTER	372	CKBCKREC (0)	Size of Check record (Offset table needs hard coded values)
872	(368)	BITSTRING	1	CKBCKHFM	CKPT DS FILE NAMES, FLAGS
872	(368)	X'368'	0	CKBCKHFP	"CKBCKHFM,308,C'C" Get character version for offset table
1180	(49C)	ADDRESS	2	(0)	Ensure lengths are
1180	(49C)	ADDRESS	2	(0)	correct
1180	(49C)	SIGNED	1	CKBFORWD	Dataset forwarded indicator
1181	(49D)	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)
1182	(49E)	BITSTRING	6	CKBLVOTH	Level of other checkpoint (CKBCKLEV of other CKB)
1188	(4A4)	BITSTRING	32	CKBSVDEF	WLM Service Definition ID
1220	(4C4)	SIGNED	4	CKBWRTIM	Time data set last written
1224	(4C8)	DBL WORD	8	(0)	
1224	(4C8)	DBL WORD	8	CKBCKLEV	Level of all data in ckpt

\$CK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1224	(4C8)	X'4C8'	0	CKBCKLVP	"CKBCKLEV,8,C'C" Define character version of field since PLX and the offset table don't handle doublewords well
1224	(4C8)	X'4CC'	0	CKBCKLVH	"CKBCKLEV+4,4,C'F" Full word version of level number of 4K pages
1232	(4D0)	DBL WORD	8	CKB4KLEV	Level of 4K pages in ckpt
1232	(4D0)	X'4D0'	0	CKB4KLVP	"CKB4KLEV,8,C'C" Define character version of field since PLX and the offset table don't handle doublewords well
1232	(4D0)	X'4D4'	0	CKB4KLVH	"CKB4KLEV+4,4,C'F" Full word version of level number of 4K pages
1240	(4D8)	SIGNED	1	CKBCKVAL (0)	CHECK VALUE
1240	(4D8)	X'174'	0	CKBCKRLN	"*-CKBCKDAT" LENGTH OF CHECK RECORD
1244	(4DC)	ADDRESS	2	(0)	Make sure hardcoded
1244	(4DC)	ADDRESS	2	(0)	length is accurate
Comment					
Other data buffers					
End of Comment					
1248	(4E0)	DBL WORD	8	CKBVERFY	STORAGE FOR READ-COUNT
1256	(4E8)	BITSTRING	8		Reserved for future IBM use
1256	(4E8)	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					
1264	(4F0)	SIGNED	4	(0)	Ensure word alignment
1264	(4F0)	BITSTRING	48	CKBIOBE	Reserve space for IOB extension
1312	(520)	SIGNED	4	(0)	Ensure word alignment
1312	(520)	BITSTRING	48	CKBIEDB	Reserve space for I/O error data block
1360	(550)	ADDRESS	4	CKBLMTIC	TIC in last mstr rec CCW packet
1364	(554)	SIGNED	4		Reserved
Comment					
CCW packets Note: These channel programs are copied to HASPCCKDS in routine KBLDCKB. Any changes to these channel programs MUST be copied into CKDS.					
End of Comment					
1368	(558)	DBL WORD	8	CKBCCWS (0)	Channel program area
Comment					
----- Channel program used by KTRK1IO -----					
End of Comment					
1384	(568)	DBL WORD	8	CKBLOCKV (0)	Lock verification
1432	(598)	DBL WORD	8	CKBCHCKR (0)	Check record read
1472	(5C0)	DBL WORD	8	CKBLOCKR (0)	Lock record read
1512	(5E8)	DBL WORD	8	CKBLOCK (0)	Lock record write KEY+DATA
1552	(610)	DBL WORD	8	CKBCHECK (0)	Check record read/write
1592	(638)	DBL WORD	8	CKBMSTR (0)	Master record read/write
1624	(658)	X'28'	0	CKBMSTCL	"*-CKBMSTR" Len of master record CCWs
1632	(660)	BITSTRING	40	CKBMSTX2	2nd extra mst rec CCWs
1672	(688)	BITSTRING	40	CKBMSTX3	3rd extra mst rec CCWs
1712	(6B0)	BITSTRING	40	CKBMSTX4	4th extra mst rec CCWs
1752	(6D8)	BITSTRING	40	CKBMSTX5	5th extra mst rec CCWs

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1792	(700)	BITSTRING	40	CKBMSTX6	6th extra mst rec CCWs
1832	(728)	BITSTRING	40	CKBMSTX7	7th extra mst rec CCWs
1872	(750)	BITSTRING	1	CKBMSTX8	8th extra mst rec CCWs
1872	(750)	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

1912	(778)	DBL WORD	8	CKBT1DAT (0)	Start of data areas
1912	(778)	BITSTRING	16	CKBLOCKD	Lock record data area
1928	(788)	BITSTRING	16	CKBCHEKD	Check record data area
1944	(798)	BITSTRING	1	CKBMSTRD	Master record data area
1944	(798)	X'30'	0	CKBT1DLN	**CKBT1DAT" Length of data areas
1944	(798)	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

1960	(7A8)	BITSTRING	16	CKBMSTD2	2nd extra mstr rec area
1976	(7B8)	BITSTRING	16	CKBMSTD3	3rd extra mstr rec area
1992	(7C8)	BITSTRING	16	CKBMSTD4	4th extra mstr rec area
2008	(7D8)	BITSTRING	16	CKBMSTD5	5th extra mstr rec area
2024	(7E8)	BITSTRING	16	CKBMSTD6	6th extra mstr rec area
2040	(7F8)	BITSTRING	16	CKBMSTD7	7th extra mstr rec area
2056	(808)	BITSTRING	16	CKBMSTD8	8th extra mstr rec area
2072	(818)	BITSTRING	16	CKBCHKD2	Special check read
2088	(828)	BITSTRING	16	CKBLCKD2	Special lock read
2104	(838)	SIGNED	4	CKBIDAWS (0)	Master record IDAWs
2904	(B58)	ADDRESS	4	CKBIDAW1	IDAW for 1st MSTR rec CCW
2908	(B5C)	ADDRESS	4	CKBIDAW2	IDAW for 2nd MSTR rec CCW
2912	(B60)	ADDRESS	4	CKBIDAW3	IDAW for 3rd MSTR rec CCW
2916	(B64)	ADDRESS	4	CKBIDAW4	IDAW for 4th MSTR rec CCW
2920	(B68)	ADDRESS	4	CKBIDAW5	IDAW for 5th MSTR rec CCW
2924	(B6C)	ADDRESS	4	CKBIDAW6	IDAW for 6th MSTR rec CCW
2928	(B70)	ADDRESS	4	CKBIDAW7	IDAW for 7th MSTR rec CCW
2932	(B74)	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

2936	(B78)	BITSTRING	16	CKBCHLGD	Change log data area
2952	(B88)	DBL WORD	8	CKBCHLOG (0)	Change log positioning CCWs
2976	(BA0)	X'18'	0	CKBCHL1L	"CKBCHLRW-CKBCHLOG" Len of trk1 change log CCWs

\$CK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2976	(BA0)	X'BA0'	0	CKBMINLN	"CKBCHLRW-CKB" Length of CKB without change log R/W CCWs, and final TIC.
2976	(BA0)	X'1000'	0	CKBASLEN	"(*-CKB+2047)/2048)*2048" CKB length

Offsets					
Dec	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 TRANSFER 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 value
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	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	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	Name	Hex Offset	Hex Value
CKA	0		CKBIDAW1	B58	
CKACC	0		CKBIDAW2	B5C	
CKACCHHR	0		CKBIDAW3	B60	
CKACHLOG	8		CKBIDAW4	B64	
CKAE	0		CKBIDAW5	B68	
CKAELEN	5	6	CKBIDAW6	B6C	
CKAFIRST	C	10	CKBIDAW7	B70	
CKAHH	2		CKBIDAW8	B74	
CKAID	0	C3D2C140	CKBIEDB	520	
CKANEXT	5	6	CKBIFLG1	0	42
CKAPLEN	C	10	CKBIFLG2	1	0
CKAR	4		CKBIFLG4	14	
CKASECT	5		CKBIOB	0	
CKASIZE	4		CKBIOBE	4F0	
CKA4KPAG	C		CKBIRRCT	1C	0
CKB	0		CKBKEY	60	
CKBASLEN	BA0	1000	CKBLCKD2	828	
CKBCCWS	558		CKBLKRLN	1E4	174
CKBCCWSL	750	220	CKBLMTIC	550	
CKBCFSZE	4E8	500	CKBLOCK	5E8	
CKBCHCKR	598		CKBLOCKD	778	
CKBCHECK	610		CKBLOCKR	5C0	
CKBCKEHD	788		CKBLOCKV	568	
CKBCHKD2	818		CKBLRDAT	70	
CKBCHLGD	B78		CKBLRKEY	68	
CKBCHLOG	B88		CKBLRLVI	74	
CKBCHL1L	BA0	18	CKBLRMTK	90	
CKBCKA	44		CKBLRMVS	98	
CKBCKCKM	49D	40	CKBLROTH	7C	
CKBCKDAT	368		CKBLROTL	1E4	168
CKBCKFLG	49D		CKBLRPLI	88	
CKBCKGMT	49D	80	CKBLRPLN	7C	
CKBCKHFM	368		CKBLRSID	78	
CKBCKHFP	368	368	CKBLRSYS	70	
CKBCKLEV	4C8		CKBLRSYT	84	
CKBCKLVH	4C8	4CC	CKBLVOTH	49E	
CKBCKLVP	4C8	4C8	CKBLWDAT	1F0	
CKBCKREC	368		CKBLWKEY	1E8	
CKBCKRLN	4D8	174	CKBLWKYP	1E8	1E8
CKBCKVAL	4D8		CKBLWLVI	1F4	
CKBCSW	8	0	CKBLWMTK	210	
CKBDCBP	14		CKBLWMVS	218	
CKBECB	2C		CKBLWOTH	1FC	
CKBECBCC	4		CKBLWOTL	364	168
CKBECBP	4		CKBLWPLI	208	
CKBERCCW	54		CKBLWPLN	1FC	
CKBERCC2	58		CKBLWSID	1F8	
CKBERRCT	52		CKBLWSYS	1F0	
CKBFLAG1	28		CKBLWSYT	204	
CKBFLAG2	29		CKBMINLN	BA0	BA0
CKBFLAG3	2A		CKBMSTCL	658	28
CKBFORWD	49C		CKBMSTD2	7A8	
CKBIDAWS	838		CKBMSTD3	7B8	

\$CK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKBMSTD4	7C8		CKDWTRAK	0	B
CKBMSTD5	7D8				
CKBMSTD6	7E8				
CKBMSTD7	7F8				
CKBMSTD8	808				
CKBMSTR	638				
CKBMSTRD	798				
CKBMSTX2	660	0			
CKBMSTX3	688	0			
CKBMSTX4	6B0	0			
CKBMSTX5	6D8	0			
CKBMSTX6	700	0			
CKBMSTX7	728	0			
CKBMSTX8	750	0			
CKBNREC	2B				
CKBRETRY	50				
CKBSEEK	20	0			
CKBSENSE	2	0			
CKBSIZE	48				
CKBSTART	10				
CKBSVDEF	4A4				
CKBTRK1T	4C				
CKBT1DAT	778				
CKBT1DLN	798	30			
CKBT1DNM	798	3			
CKBVERFY	4E0				
CKBWRTIM	4C4				
CKB1CFIO	28	10			
CKB1EXCP	28	80			
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	4D0				
CKB4KLVH	4D0	4D4			
CKB4KLVP	4D0	4D0			
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			

\$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	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" SUPPRESS 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
		.... ..1.		CKG2CYL	"B'00000010" Data set allocated on EAV cylinder managed-EAS storage.
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

\$CKGPAR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	ADDRESS	4	CKGDTE	Address of related DTE (CF only)
36	(24)	BITSTRING	8	CKGPARM (0)	PARAMETER LIST FOR KBLDCKB
36	(24)	ADDRESS	4	CKGDCEB	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	CKGECEB	XECB for asynch IXL reqs
104	(68)	BITSTRING	24	CKGXECB	XECB for asynch IXL reqs
128	(80)	SIGNED	4	CKGRECEB	ECB portion of XECB for CF locking requests
128	(80)	BITSTRING	24	CKGRXECB	XECB for CF locking request
152	(98)	ADDRESS	4	CKGLIST0	Addr of LIST0 data buffer
156	(9C)	SIGNED	4	CKGT1NUM	Number of elements in a Track1 CF access
160	(A0)	SIGNED	1	CKGLOBLT	ID of List0 Leid builder
161	(A1)	SIGNED	1	CKGL1BLT	ID of List1 Leid builder
162	(A2)	BITSTRING	1	CKGECBTP	I/O completion code for \$HASP291 message
163	(A3)	SIGNED	1	CKGSCNID	Steal lock from CONID
164	(A4)	ADDRESS	4	CKGRDBF1	Pointer to 64K buffer for IXLLIST READ_LIST requests
168	(A8)	ADDRESS	4	CKGRDBF2	Pointer to second 64K buffer for IXLLIST READ_LIST requests
172	(AC)	ADDRESS	4	CKGCFLST	Pointer to CFLIST

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
176	(B0)	ADDRESS	4	CKGRWTKN	Pointer to storage to hold tokens returned from an IXLLIST READ or WRITE
180	(B4)	ADDRESS	4	CKGBFLST	Pointer to BUFLIST storage
184	(B8)	ADDRESS	4	CKGLAAS	Addr of set of answer areas
188	(BC)	SIGNED	4	CKGCFsze	Size of work area obtained when first structure is connected to
192	(C0)	ADDRESS	4	CKGCFQUD	CFQU data area pointer
196	(C4)	SIGNED	4		Reserved for future IBM use
196	(C4)	X'C8'	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

200	(C8)	ADDRESS	2	(0)	Verify CKGCONTK
200	(C8)	ADDRESS	2	(0)	and CONCONTOKEN are same length
200	(C8)	ADDRESS	2	(0)	Verify CKGCONID
200	(C8)	ADDRESS	2	(0)	and CONACONID are the same length

\$CKGPAR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKG	0		CKGL0BLT	A0	
CKGALPRM	7		CKGL1BLT	A1	
CKGANSA	64		CKGMSGID	5C	
CKGBFLST	B4		CKGPARM	24	
CKGCFERR	4C		CKGRDBF1	A4	
CKGCFLST	AC		CKGRDBF2	A8	
CKGCFQUD	C0		CKGRECB	80	
CKGCFRC	54		CKGRWTKN	B0	
CKGCFREX	5A		CKGRXECB	80	
CKGCFRIN	58		CKGSCNID	A3	
CKGCFRRC	50		CKGsize	C4	C8
CKGCFRSN	58		CKGTOKEN	1C	
CKGCFSIZ	30		CKGTOT	28	
CKGCFSZE	BC		CKGT1NUM	9C	
CKGCF4KL	2C		CKGVER	4	
CKGCKB	14		CKGVNR	4	2
CKGCKC	18		CKGXECB	68	
CKGCONID	44		CKG1ESUP	5	80
CKGCONTK	34		CKG1IOE	5	4
CKGDCEB	24		CKG1IOER	5	10
CKGDTE	20		CKG1IONC	5	2
CKGECB	68		CKG1ITRP	5	20
CKGECBTP	A2		CKG1LOKD	5	40
CKGERROR	4C		CKG1LOUT	5	8
CKGFILE	8		CKG2ALOC	6	10
CKGFLAG1	5		CKG2CF	6	40
CKGFLAG2	6		CKG2CYL	6	2
CKGFLAG3	45		CKG2DASD	6	80
CKGFLAG4	46		CKG2FCON	6	20
CKGFLAG5	47		CKG2NEWWR	6	4
CKGFLAG6	48		CKG2RBLD	6	8
CKGHFAME	10		CKG3DELM	45	4
CKGID	0	C3D2C740	CKG3LOCK	45	10
CKGLAAS	B8		CKG3MOVE	45	80
CKGLEID	60		CKG3READ	45	20
CKGLIST0	98		CKG3RITE	45	40

\$CKGPAR Cross Reference

Name	Hex Offset	Hex Value
CKG3RLST	45	8
CKG4COND	46	20
CKG4DUPC	46	2
CKG4LE0B	46	80
CKG4LE1B	46	40
CKG4NOCK	46	8
CKG4STEL	46	10
CKG4VALR	46	1
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	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'CO'	0	CKMS2IOE	"CKMS2IO1+CKMS2IO2" (.O) - I/O error on CKPTn
		..1.		CKMS2CKV	"B'00100000" (IO) - CKPT on volatile CF

\$CKM Map

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	CKMCCCONV	(.O) (On driver only) A vector containing the condition from each member
624	(270)	SIGNED	4	CKMCCCONM	(.O) (On driving member only) Maximum condition value from CKMCCCONV 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

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Input/Output for routine CKRRDONE callers. Fields in section are named CKMDxxxx. | "D" for done Output fields are available to caller until the next CKRRSTRT call.</p> <p>----- CKRRDONE return codes -----</p>					
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					
<p>Data internal to CKRRxxxx routines. Fields in section are named CKMIxxxx. | "I" for internal Fields between CKMIDATA and CKMICLR1 are persistent for the life of this JES2. Fields beginning at CKMICLR1 are cleared when CKRRSTRT is called. Fields beginning at CKMICLR2 are cleared when CKRRSYNC or CKRRDONE are called.</p>					
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)	DBL WORD	8	CKMICRST	Reconfig start TOD (STCK)
1096	(448)	DBL WORD	8	CKMICRET	Reconfig end TOD (STCK)
1104	(450)	SIGNED	4	CKMICRSE	Count of system events received during reconfig
1108	(454)	SIGNED	4	CKMICRIF	Count of IXZXIXIF requests issued in reconfiguration
1112	(458)	SIGNED	4	CKMIXECB (0)	XECB to wait on
Comment					
<p>----- General status flag byte -----</p>					
End of Comment					
1136	(470)	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
1137	(471)	BITSTRING	3		Reserved
Comment					
<p>----- Mailbox names (set by CKRRINIT) -----</p>					
End of Comment					
1140	(474)	CHARACTER	1	CKMIMBNS	
1156	(484)	CHARACTER	1	CKMIMBNR	

Offsets

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

 Delay time constants (set by CKRRINIT)

End of Comment

0	(0)	X'F'	0	CKMISECS	"15" Wait time for other members in seconds
1172	(494)	SIGNED	4	CKMISTBI	STIMERM wait time for other members in 100th's of seconds
1172	(494)	X'3'	0	CKMISECI	"3" Wait time for IXZXIXIF to complete in seconds
1176	(498)	SIGNED	4	CKMISTIF	STIMERM wait time for IXZXIXIF in 100th's of seconds
1176	(498)	X'64'	0	CKMIFFFC	"100" Interval between IXZXIXIF requests in 100th's of seconds
1180	(49C)	SIGNED	4	CKMIFFFI	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

1184	(4A0)	ADDRESS	4	CKMICKMA	Pointer to \$CKM used by IXZXIXMB for POSTDATA= and STIMERM for PARM=
1188	(4A4)	ADDRESS	4	CKMIHCTA	Addr of \$HCT for post exit
1188	(4A4)	X'4'	0	CKMIPXRP	"4" Post exit reason code for incorrect exit parm list
1188	(4A4)	X'8'	0	CKMIPXRD	"8" Post exit reason code for incorrect post data
1188	(4A4)	X'C'	0	CKMIPXRM	"12" Post exit reason code for incorrect mailbox name
1192	(4A8)	SIGNED	4		Reserved

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

1200	(4B0)	DBL WORD	8	CKMICLR1 (0)	Begin area to clear on STRT
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Comment

 Reconfiguration status flags

End of Comment

1200	(4B0)	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)
		.... ..1.		CKMI2DFP	"B'00000010" - Driving member failed is pending for next call to CKRRSYNC

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ...1		CKMI2WSG	"B'00000001" - This non-driving member waiting for a sync go-ahead message
1201	(4B1)	BITSTRING 1... .... .1...	1	CKMIFLG3 CKMI3RDD CKMI3IFT	General status flag byte 3 "B'10000000" - Ready for driver decommit "B'01000000" - STIMERM used to control frequency of IXZXIXIF requests is set
1202	(4B2)	BITSTRING	1		Reserved
Comment					
<p>The following byte is permanently dedicated for IBM internal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or \$K25 ABENDs.</p>					
End of Comment					
1203	(4B3)	CHARACTER	1	CKMIFCT	FCT test byte
Comment					
<p>Reconfiguration operation sequence number Starts at zero on exit from CKRRSTRT and increments by one for each CKRRSYNC and by one more for CKRRDONE.</p>					
End of Comment					
1204	(4B4)	SIGNED	4	CKMIOSEQ	Operation sequence number
Comment					
<p>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.</p>					
End of Comment					
1208	(4B8)	SIGNED	4	CKMIDMNO	Current/last committed
1212	(4BC)	CHARACTER	4	CKMIDMNA	driver number and name
1216	(4C0)	SIGNED	4	CKMIDCNO	Current/last candidate
1220	(4C4)	CHARACTER	4	CKMIDCNA	driver number and name (zeros unless driver is being selected)
1224	(4C8)	BITSTRING	4	CKMIMMPM	Participating member mask
1228	(4CC)	BITSTRING	4		Reserved
Comment					
Timing data					
End of Comment					
1232	(4D0)	DBL WORD	8	(0)	Alignment

Offsets					
Dec	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					
1232	(4D0)	BITSTRING	24	CKMISTMS	REMOTE STIMERM SET PARM LIST
1232	(4D0)	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					
1256	(4E8)	BITSTRING	16	CKMISTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
1256	(4E8)	X'10'	0	CKMISTCL	**-CKMISTMC" Length of parm list
1272	(4F8)	DBL WORD	8	(0)	Alignment
1272	(4F8)	SIGNED	4	CKMISTMI	STIMERM ID=id-area while waiting for response from IXZXIXIF service
1276	(4FC)	SIGNED	4	CKMISTMM	STIMERM ID=id-area while waiting for msg, ack or system event
1280	(500)	SIGNED	4	CKMISTME	STIMERM ID=id-area used for postponed IXZXIXIF request
1284	(504)	SIGNED	4	CKMISTEI	STIMERM interval set for postponed IXZXIXIF request
1288	(508)	BITSTRING	1	CKMISTFI	Interval timer flag byte (This byte is serialized with OIL and NIL)
		1...		CKMISTFI	"B'10000000" STIMERM interval expired IXZXIXIF service
		.1..		CKMISTFM	"B'01000000" STIMERM interval expired for msg, ack or sys event
		..1.		CKMISTFE	"B'00100000" STIMERM interval expired for postponed IXZXIXIF request
1289	(509)	BITSTRING	7		Reserved
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					
1296	(510)	DBL WORD	8	CKMICLR2 (0)	Begin area to clear on SYNC or DONE calls
Comment					
----- Information returned from IFGETVER routine -----					
End of Comment					
1296	(510)	BITSTRING	1	CKMIIFG	IFGETVER flags
		1...		CKMIIFGD	"B'10000000" - Failed driver candidate's state indicates driver
		.1..		CKMIIFGC	"B'01000000" - Failed driver XCF user state shows committed
1297	(511)	BITSTRING	3		Reserved
1300	(514)	BITSTRING	4	CKMIMMRC	Reconfig capable mask
1304	(518)	BITSTRING	4	CKMIMMST	Reconfig started mask
1308	(51C)	BITSTRING	4	CKMIMMMD	Member MUST drive mask
1312	(520)	BITSTRING	4	CKMIMMCO	Reconfig committed mask
1316	(524)	BITSTRING	4	CKMIMMDR	Driving member mask

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1320	(528)	SIGNED	4	CKMIICNO	Candidate for driving member (based on CKPT level and MUST drive)
1324	(52C)	CHARACTER	4	CKMIICNA	Candidate's name
1328	(530)	SIGNED	4	CKMIIDNO	Driving member number (Based on XMAUC1DR bit of lowest participating mem)
1332	(534)	CHARACTER	4	CKMIIDNA	Driving member name
1336	(538)	CHARACTER	128	CKMIMEMV	Vector of member names
1464	(5B8)	BITSTRING	160	CKMIMCLV	Vector member CKPT levels from XMAUCRLV in member's XCF user state
1624	(658)	SIGNED	4	CKMIIFTS	BIN time stamp of last IXZXIXIF completion
Comment					

Bit mapped work mask for member states, etc.					

End of Comment					
1628	(65C)	BITSTRING	4	CKMIMMWK	Member affinity work mask
1632	(660)	BITSTRING	1	CKMERRAF	Mask of systems to dump
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					
1632	(660)	X'1'	0	CKMIWUST	"1" Expecting "started"
1632	(660)	X'2'	0	CKMIWUDR	"2" Expecting "driving member" (issued by non-drivers)
1632	(660)	X'3'	0	CKMIWUCO	"3" Expecting "reconfiguration committed" (issued by driver only)
1632	(660)	X'4'	0	CKMIWUDD	"4" Expecting "driver done" (issued by non-drivers waiting for driver to revert to capable only)
1632	(660)	X'5'	0	CKMIWUAD	"5" Expecting "all done" (every participating member to revert to capable only)
1636	(664)	BITSTRING	1	CKMIWUDM	Mask of delayed members w/ pending user state change
Comment					

Driver selection information					

End of Comment					
1640	(668)	SIGNED	4	(0)	Alignment
1640	(668)	BITSTRING	0	CKMIDS (0)	Driver selection info
1640	(668)	SIGNED	4	CKMIDSBG (0)	Begin driver selection info
1640	(668)	BITSTRING	1	CKMIDFLG	Reconfig reason flags
		1..		CKMIDFOV	"B'10000000" - Use OPVERIFY=YES
		.1..		CKMIDF1	"B'01000000" - I/O error on CKPT1
		.1.		CKMIDF2	"B'00100000" - I/O error on CKPT2
1640	(668)	X'60'	0	CKMIDFIO	"CKMIDF1+CKMIDF2" - 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
1641	(669)	BITSTRING	3		Reserved
1644	(66C)	SIGNED	4	CKMIDSOS	Operation sequence number
1648	(670)	BITSTRING	4	CKMIDCON	Console ID or zero

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1652	(674)	SIGNED	4	CKMIDS1	Number of CKPT1 I/O errors
1656	(678)	SIGNED	4	CKMIDS2	Number of CKPT2 I/O errors
1660	(67C)	CHARACTER	4	CKMIDNAM	Name of driving member
1664	(680)	CHARACTER	128	CKMIDPMV	Participating memb names
1792	(700)	BITSTRING	308	CKMIDSHF	HFAM to initially use for this reconfig instance
2100	(834)	SIGNED	4	CKMIDSEN (0)	End driver selection info

Comment

Reason codes for \$K28 errors

End of Comment

2100	(834)	X'1'	0	CKMIECKM	"1" CKM eyecatcher error
2100	(834)	X'2'	0	CKMIESND	"2" STRT called again w/o DONE
2100	(834)	X'3'	0	CKMIECNS	"3" SYNC called before STRT
2100	(834)	X'4'	0	CKMIECAN	"4" SYNC called after reconfig cancelled by JES2
2100	(834)	X'5'	0	CKMIEDNS	"5" DONE called before STRT
2100	(834)	X'6'	0	CKMIESTE	"6" More than one reconfig reason in parm list
2100	(834)	X'7'	0	CKMIECTE	"7" Sync type (CKMCTYPE) mismatch detected by this non-driving member
2100	(834)	X'8'	0	CKMIESWD	"8" Non-driving member called CKRRSYNC when driving member called CKRRDONE
2100	(834)	X'9'	0	CKMIEDWS	"9" Non-driving member called CKRRDONE when driving member called CKRRSYNC
2100	(834)	X'A'	0	CKMIEIEC	"10" Internal eyecatcher error (Possible storage overlay from STRT/SYNC parm list)

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

2100	(834)	SIGNED	4	CKMIKRG (3)	R14, R15, R0 at time of error
2112	(840)	SIGNED	4	CKMIKRSN (0)	\$Kxx reason code set from
2112	(840)	BITSTRING	1	CKMIKRFS	- (CKMIFUNC) Function code
2113	(841)	BITSTRING	1	CKMIKRSS	- (CKMIFLG2) Status flags
2114	(842)	ADDRESS	1	CKMIKRST	- (CKMIXERT) Error type
2115	(843)	ADDRESS	1	CKMIKRSTX	- (CKMILSTX) Last IXZXIXxx
2116	(844)	ADDRESS	1	CKMIKXX	\$Kxx error code index
2116	(844)	X'1'	0	CKMIK29	"1" - Fail with \$K29 error - JESXCF data
2116	(844)	X'2'	0	CKMIK30	"2" - Fail with \$K30 error - HASPCKRR internal logic
2116	(844)	X'3'	0	CKMIK34	"3" - Fail with \$K34 error - JESXCF return code

\$CKM Map

Offsets

Dec	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					
2117	(845)	BITSTRING	1	CKMIFUNC	Function being performed
		111.		CKMIFURM	"B'11100000" - CKRRxxxx routine mask
		..1.		CKMIFURI	"B'00100000" - CKRRINIT routine called
		.1..		CKMIFURS	"B'01000000" - CKRRSTRT routine called
		.11.		CKMIFURC	"B'01100000" - CKRRSYNC routine called
		1...		CKMIFURD	"B'10000000" - CKRRDONE routine called
		...1		CKMIFUDR	"B'00010000" - Driver path if bit on (set/reset by mult rtns)
		.... 1..		CKMIFUIF	"B'00001000" - In routine IFGETVER
		.... .1.		CKMIFUWU	"B'00000100" - In routine WUSTATE
		.... ..1		CKMIFUDS	"B'00000010" - In routine DSELECT
		.... ...1		CKMIFUIM	"B'00000001" - In routine IMPROC
Comment					

Last IXZXIXxx function footprint					

End of Comment					
2118	(846)	ADDRESS	1	CKMILSTX	Last JESXCF function
2118	(846)	X'1'	0	CKMILXAC	"1" - Acknowledge message
2118	(846)	X'2'	0	CKMILXIF	"2" - Obtain member information
2118	(846)	X'3'	0	CKMILXMB	"3" - Create mailbox
2118	(846)	X'4'	0	CKMILXMC	"4" - Clear mailbox
2118	(846)	X'5'	0	CKMILXMD	"5" - Delete mailbox
2118	(846)	X'6'	0	CKMILXRM	"6" - Receive message
2118	(846)	X'7'	0	CKMILXSM	"7" - Send message
2118	(846)	X'8'	0	CKMILXUS	"8" - Call to XCFUSTAT to update XCF user state
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					
2119	(847)	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
2119	(847)	X'1'	0	CKMIXERC	"1" - Unexpected return code (Used for \$K34 only)
2119	(847)	X'2'	0	CKMIXEDA	"2" - IXZXIXRM DATA= addr is 0
2119	(847)	X'3'	0	CKMIXEZL	"3" - IXZXIXRM DATALEN is 0
2119	(847)	X'4'	0	CKMIXEZT	"4" - IXZXIXSM/IF REQTOKEN is 0
2119	(847)	X'5'	0	CKMIXEEE	"5" - YIXEN eyecatcher error
2119	(847)	X'6'	0	CKMIXEER	"6" - YIXEN system RC is not 0
2119	(847)	X'7'	0	CKMIXEES	"7" - YIXEN rsn code is not 0
2119	(847)	X'8'	0	CKMIXEEV	"8" - YIXEN not for sys event
2119	(847)	X'9'	0	CKMIXEEO	"9" - YIXEN msg offset is 0
2119	(847)	X'A'	0	CKMIXEEL	"10" - YIXEN msg length is 0
2119	(847)	X'B'	0	CKMIXEEC	"11" - YIXEN inconsistent length
2119	(847)	X'C'	0	CKMIXESE	"12" - YIXSE eyecatcher error
2119	(847)	X'D'	0	CKMIXESO	"13" - YIXSE msg offset is 0
2119	(847)	X'E'	0	CKMIXESM	"14" - YIXSE offset points past end of msg
2119	(847)	X'F'	0	CKMIXESI	"15" - YIXSE not for member info
2119	(847)	X'10'	0	CKMIXEIE	"16" - YIXIF eyecatcher error
2119	(847)	X'11'	0	CKMIXEIL	"17" - YIXIF length greater than remaining msg len
2119	(847)	X'12'	0	CKMIXEIG	"18" - YIXIF group name error
2119	(847)	X'13'	0	CKMIXEIP	"19" - YIXIF member name not blank padded
2119	(847)	X'14'	0	CKMIXEID	"20" - YIXIF duplicate member #
2119	(847)	X'15'	0	CKMIXEIO	"21" - YIXIF offset inconsistent with YIXIF length
2119	(847)	X'16'	0	CKMIXEIB	"22" - YIXIF offset past msg end
2119	(847)	X'17'	0	CKMIXEIU	"23" - YIXIF own memb # missing
2119	(847)	X'18'	0	CKMIXEIN	"24" - YIXIF own name mismatch
2119	(847)	X'19'	0	CKMIXEAE	"25" - YIXAC eyecatcher error
2119	(847)	X'1A'	0	CKMIXEAC	"26" - YIXAC inconsistent length
2119	(847)	X'1B'	0	CKMIXEAO	"27" - YIXAC msg offset is 0

Comment

Error types for HASPCKRR internal logic \$K30 errors

End of Comment

2119	(847)	X'0'	0	CKMIIEUN	"0" Unknown error type
2119	(847)	X'1'	0	CKMIIEIL	"1" Internal logic error
2119	(847)	X'2'	0	CKMIIESU	"2" Non-start-up msg received in start-up mailbox
2119	(847)	X'3'	0	CKMIIEMT	"3" Unexpected msg type received
2119	(847)	X'4'	0	CKMIIEMS	"4" Cannot find a REQTOKEN in CKMISMRT token vector
2119	(847)	X'5'	0	CKMIIEIN	"5" Message type does not match envelope
2119	(847)	X'6'	0	CKMIIEOS	"6" Sync operation sequence number mismatch
2119	(847)	X'7'	0	CKMIIEDF	"7" Inconsistent view of driver failed status
2119	(847)	X'8'	0	CKMIIEIR	"8" Unexpected return code from IMPROC
2119	(847)	X'9'	0	CKMIIEIM	"9" Invalid member number passed to subroutine
2119	(847)	X'A'	0	CKMIIEDE	"10" Non-zero DOM ID found on a DOMDELAY verify call
2119	(847)	X'B'	0	CKMIIEHD	"11" We are driving when there is another driver with a lower member number
2119	(847)	X'C'	0	CKMIIEMD	"12" Multiple members with MUST in XCF user state and we aren't the lowest MUST drive member #
2119	(847)	X'D'	0	CKMIIEAD	"13" IMPROC is processing an appl msg, but we do not have a driver or driver candidate
2119	(847)	X'E'	0	CKMIIEEY	"14" Invalid CKX eyecatcher
2119	(847)	X'F'	0	CKMIIEMH	"15" Invalid msg type passed to MHEADER routine

Comment

IXZXIXxx macro return and reason codes

End of Comment

2120	(848)	SIGNED	4	CKMIRTNC	Last IXZXIXxx return code (except for IXZXIXUS)
2124	(84C)	SIGNED	4	CKMIRSNC	Last IXZXIXxx reason code (except for IXZXIXUS)

\$CKM Map

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

Other footprints					

End of Comment					
2128	(850)	SIGNED	4	CKMIIFRC	Last IFGETVER return code
2132	(854)	SIGNED	4	CKMIIMRC	Last IMPROC return code
2136	(858)	SIGNED	4		Reserved
Comment					
Data associated with IXZXIXxx services					

General use data					

End of Comment					
2136	(858)	X'8'	0	CKMITOKL	"8" Length of JESXCF msg token
2140	(85C)	SIGNED	4	CKMICRML	Current residual msg length
2144	(860)	SIGNED	4	CKMIMSGL	Length of msg/ack to send
2148	(864)	CHARACTER	1	CKMISMNA	XCF member name to send to
Comment					
Data returned from IXZXIXIF for member information					

End of Comment					
2164	(874)	BITSTRING	1	CKMIIFRT	Request token (REQTOKEN=)
Comment					
Data returned from IXZXIXRM for a system event					

End of Comment					
2172	(87C)	ADDRESS	4	CKMIRMED	Addr of message (DATA=)
2176	(880)	SIGNED	4	CKMIRMEL	Length of msg (DATALEN=)
2180	(884)	BITSTRING	1	CKMIRMET	Message token (MSGTOKEN=)
Comment					
Data returned from IXZXIXRM for a message or ack					

End of Comment					
2188	(88C)	ADDRESS	4	CKMIRMMD	Addr of message (DATA=)
2192	(890)	SIGNED	4	CKMIRMML	Length of msg (DATALEN=)
2196	(894)	BITSTRING	8	CKMIRMMT	Message token (MSGTOKEN=)
2204	(89C)	SIGNED	4		Reserved
2208	(8A0)	SIGNED	4	CKMIRMSN	Sending member number (set by IMPROC routine)
2212	(8A4)	BITSTRING	1	CKMIRMAC	Req token from ack's YIXAC (set by IMPROC routine)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- Data returned from IXZXIXSM -----					
End of Comment					
2220	(8AC)	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					
2476	(9AC)	SIGNED	4	CKMIBMSG (0)	Control block ID
2480	(9B0)	BITSTRING	4		Console ID
2484	(9B4)	ADDRESS	4		Address of the CART
2488	(9B8)	ADDRESS	4		Pointer for JOBID
2492	(9BC)	ADDRESS	4		Control block address
2496	(9C0)	ADDRESS	4		Display routine address
2500	(9C4)	ADDRESS	4	(6)	6 word work area
2524	(9DC)	ADDRESS	4		Caller's R11 value
2528	(9E0)	BITSTRING	2		ROUT code for Message
2530	(9E2)	BITSTRING	2		Not used
2532	(9E4)	CHARACTER	4		Message ID
2536	(9E8)	CHARACTER	1		Separator character
2537	(9E9)	ADDRESS	1		Flag byte 1
2538	(9EA)	ADDRESS	1		'DISPER'
2539	(9EB)	ADDRESS	1		Flag byte 2
2540	(9EC)	ADDRESS	1		Flag byte 3
2541	(9ED)	CHARACTER	8		Symbolic name of dest.
2549	(9F5)	BITSTRING	15		Not used
2564	(A04)	ADDRESS	4	(0)	Ensure multiple of 4
2564	(A04)	ADDRESS	2	(0)	
0	(0)	X'58'	0	CKMIBMLN	**-CKMIBMSG" Length of \$BLDMSG MF=L
2564	(A04)	SIGNED	4	CKMID254	DOM ID for HASP254/709 msg
2568	(A08)	BITSTRING	128	CKMID257	DOM ID vector for HASP257
2696	(A88)	CHARACTER	4	CKMIDMCM	HASP257 causing member name
2700	(A8C)	ADDRESS	1	CKMIDMAC	HASP257 waiting for action
2700	(A8C)	X'1'	0	CKMIDMA1	"1" - Reconfig starting
2700	(A8C)	X'2'	0	CKMIDMA2	"2" - Driver commit
2700	(A8C)	X'3'	0	CKMIDMA3	"3" - Reconfig commit
2700	(A8C)	X'4'	0	CKMIDMA4	"4" - JESXCF msg from driver
2700	(A8C)	X'5'	0	CKMIDMA5	"5" - JESXCF ack from non-drv
2700	(A8C)	X'6'	0	CKMIDMA6	"6" - Driver decommit
2700	(A8C)	X'7'	0	CKMIDMA7	"7" - Reconfig decommit
2701	(A8D)	CHARACTER	2	CKMIDMMT	First two chars of CKXMEYE for HASP257 message
2703	(A8F)	BITSTRING	5		Reserved
Comment					
List form macros for JESXCF services					
End of Comment					
2712	(A98)	DBL WORD	8	CKMIXLST (0)	JESXCF list form macros
Comment					
----- IXZXIXAC MF=(L,CKMIIXAC) Acknowledge message MACDATE -11/12/03-<1>					
End of Comment					

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'A98'	0	M00M1010	"CKMIIXAC" ++ IXZXIXAC NAME
2712	(A98)	DBL WORD	8	CKMIIXAC (0)	++ IXZXIXAC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXAC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXAC_XSTB	++ INPUT
		1...		CKMIIXAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		CKMIIXAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
2720	(AA0)	BITSTRING	8	CKMIIXAC_XMSGTOKEN	++ XMSGTOKEN
2728	(AA8)	ADDRESS	4	CKMIIXAC_XDATA	++ XDATA
2732	(AAC)	SIGNED	4	CKMIIXAC_XDATALEN	++ XDATALEN
2736	(AB0)	SIGNED	4	CKMIIXAC_XUSERRC	++ XUSERRC
2740	(AB4)	SIGNED	4	CKMIIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2744	(AB8)	SIGNED	4	CKMIIXAC_XSYSRC	++ XSYSRC
2748	(ABC)	SIGNED	4	CKMIIXAC_XSYSRSN	++ XSYSRSN
2752	(AC0)	BITSTRING	1	CKMIIXAC_XKEYS	++ FIELD_LABEL
		1...		CKMIIXAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
		.1..		CKMIIXAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
		..1.		CKMIIXAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
		...1		CKMIIXAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CKMIIXAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
2753	(AC1)	BITSTRING	1	CKMIIXAC_XMSGATTR	++ INPUT
		1...		CKMIIXAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
2753	(AC1)	X'2A'	0	CKMIIXACL	"*-CKMIIXAC" ++ LENGTH OF PLIST

Comment

IXZXIXAC-1

End of Comment

Comment

----- IXZXIXIF MF=(L,CKMIIXIF) Obtain member information
MACDATE -11/12/03-<2>

End of Comment

0	(0)	X'A98'	0	M00M1012	"CKMIIXIF" ++ IXZXIXIF NAME
2712	(A98)	DBL WORD	8	CKMIIXIF (0)	++ IXZXIXIF PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXIF_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXIF_XEYECATCH	++ CONSTANT XEYECATCH

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2719	(A9F)	CHARACTER	1	CKMIIXIF_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	SIGNED	4	CKMIIXIF_XGROUPTOKEN	++ XGROUPTOKEN
2724	(AA4)	CHARACTER	16	CKMIIXIF_XREQMBOX	++ XREQMBOX
2740	(AB4)	CHARACTER	8	CKMIIXIF_XREQTOKEN	++ XREQTOKEN
2748	(ABC)	ADDRESS	4	CKMIIXIF_XANSAREA	++ XANSAREA
2752	(AC0)	SIGNED	4	CKMIIXIF_XANSLEN	++ XANSLEN
2756	(AC4)	BITSTRING	1	CKMIIXIF_XINFOLVL	++ INPUT
		1...		CKMIIXIF_XINFOLVL_GROUP	"B'10000000" ++ XINFOLVL.GROUP KEYWORD
		.1..		CKMIIXIF_XINFOLVL_MEMBER	"B'01000000" ++ XINFOLVL.MEMBER KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXIF_XKEYS	++ FIELD_LABEL
		1...		CKMIIXIF_KEYUSED_REQMBOX	"B'10000000" ++ KEYUSED.REQMBOX KEYWORD
		.1..		CKMIIXIF_KEYUSED_ANSAREA	"B'01000000" ++ KEYUSED.ANSAREA KEYWORD
		..1.		CKMIIXIF_KEYUSED_GROUPTOKEN	"B'00100000" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		CKMIIXIF_KEYUSED_GROUPNAME	"B'00010000" ++ KEYUSED.GROUPNAME KEYWORD
2758	(AC6)	BITSTRING	1	CKMIIXIF_XSTATE	++ INPUT
		1...		CKMIIXIF_XSTATE_ANY	"B'10000000" ++ XSTATE.ANY KEYWORD
		.1..		CKMIIXIF_XSTATE_ACTIVE	"B'01000000" ++ XSTATE.ACTIVE KEYWORD
2759	(AC7)	BITSTRING	1	CKMIIXIF_XSYSTEM	++ INPUT
		1...		CKMIIXIF_XSYSTEM_ANY	"B'10000000" ++ XSYSTEM.ANY KEYWORD
		.1..		CKMIIXIF_XSYSTEM_CURRENT	"B'01000000" ++ XSYSTEM.CURRENT KEYWORD
2760	(AC8)	BITSTRING	1	CKMIIXIF_XPOLYJES	++ INPUT
		1...		CKMIIXIF_XPOLYJES_YES	"B'10000000" ++ XPOLYJES.YES KEYWORD
		.1..		CKMIIXIF_XPOLYJES_NO	"B'01000000" ++ XPOLYJES.NO KEYWORD
2761	(AC9)	BITSTRING	2	CKMIIXIF_XFUNCTION	++ INPUT
2761	(AC9)	BITSTRING	0	CKMIIXIF_XFUNCTION_ARM	"B'1000000000000000" ++ XFUNCTION.ARM KEYWORD
2763	(ACB)	CHARACTER	8	CKMIIXIF_XGROUPNAME	++ XGROUPNAME
2763	(ACB)	X'3B'	0	CKMIIXIFL	"*-CKMIIXIF" ++ LENGTH OF PLIST

Comment

IXZXIXIF-2

End of Comment

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- IXZXIXMB MF=(L,CKMIIXMB) Create mailbox MACDATE -93/05/10-<1>					
End of Comment					
2712	(A98)	SIGNED	2	M00M1013 (0)	IXZXIXMB-1
2712	(A98)	DBL WORD	8	CKMIIXMB (0)	++ IXZXIXMB PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMB_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXMB_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXMB_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXMB_XPOSTXIT	++ XPOSTXIT
2740	(AB4)	ADDRESS	4	CKMIIXMB_XPOSTDATA	++ XPOSTDATA
2744	(AB8)	SIGNED	4	CKMIIXMB_XPOSTALET	++ XPOSTALET
2748	(ABC)	SIGNED	4	CKMIIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2752	(AC0)	BITSTRING	1	CKMIIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CKMIIXMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1..		CKMIIXMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
2752	(AC0)	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					
2712	(A98)	SIGNED	2	M00M1014 (0)	IXZXIXMC-1
2712	(A98)	DBL WORD	8	CKMIIXMC (0)	++ IXZXIXMC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMC_XSTB	++ INPUT
		1...		CKMIIXMC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMC_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMCL	"*-CKMIIXMC" ++ LENGTH OF PLIST

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXMC-1					
End of Comment					
Comment					
----- IXZXIXMD MF=(L,CKMIIXMD) Delete mailbox MACDATE -93/05/10-<1>					
End of Comment					
2712	(A98)	SIGNED	2	M00M1015 (0)	IXZXIXMD-1
2712	(A98)	DBL WORD	8	CKMIIXMD (0)	++ IXZXIXMD PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMD_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMD_XSTB	++ INPUT
		1...		CKMIIXMD_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMD_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMD_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMDL	"*-CKMIIXMD" ++ LENGTH OF PLIST
Comment					
IXZXIXMD-1					
End of Comment					
Comment					
----- IXZXIXRM MF=(L,CKMIIXRM) Receive message MACDATE -93/05/10-<1>					
End of Comment					
2712	(A98)	SIGNED	2	M00M1016 (0)	IXZXIXRM-1
2712	(A98)	DBL WORD	8	CKMIIXRM (0)	++ IXZXIXRM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXRM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXRM_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXRM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXRM_XDATA	++ XDATA
2740	(AB4)	SIGNED	4	CKMIIXRM_XDATALEN	++ XDATALEN
2744	(AB8)	BITSTRING	8	CKMIIXRM_XMSGTOKEN	++ XMSGTOKEN
2752	(AC0)	SIGNED	4	CKMIIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2756	(AC4)	BITSTRING	1	CKMIIXRM_XMSGFETCH	++ INPUT
		1...		CKMIIXRM_XMSGFETCH_ALL	

\$CKM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		CKMIIIRM_XMSGFETCH_MESSAGES	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
		..1.		CKMIIIRM_XMSGFETCH_SYSEVENT	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
		...1		CKMIIIRM_XMSGFETCH_ACKS	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIIRM_XKEYS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
		1...		CKMIIIRM_KEYUSED_MSGFETCH	++ FIELD_LABEL
2757	(AC5)	X'2E'	0	CKMIIIRML	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD "-CKMIIIRM" ++ LENGTH OF PLIST
Comment					
IXZXIRM-1					
End of Comment					
Comment					
----- IXZXISM MF=(L,CKMIIISM) Send message MACDATE -10/16/01-<2>					
End of Comment					
0	(0)	X'A98'	0	M00M1017	"CKMIIISM" ++ IXZXISM NAME
2712	(A98)	DBL WORD	8	CKMIIISM (0)	++ IXZXISM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIISM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIISM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIISM_XMSGATTR	++ INPUT
		1...		CKMIIISM_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIISM_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIISM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	CHARACTER	16	CKMIIISM_XMEMBER	++ XMEMBER
2752	(AC0)	ADDRESS	4	CKMIIISM_XDATA	++ XDATA
2756	(AC4)	SIGNED	4	CKMIIISM_XDATALEN	++ XDATALEN
2760	(AC8)	BITSTRING	8	CKMIIISM_XREQTOKEN	++ XREQTOKEN
2768	(AD0)	CHARACTER	16	CKMIIISM_XREQMBOX	++ XREQMBOX
2784	(AE0)	SIGNED	4	CKMIIISM_XDATAALET	++ XDATAALET
2788	(AE4)	SIGNED	4	CKMIIISM_XRESPDALT	++ XRESPDALT
2792	(AE8)	SIGNED	4	CKMIIISM_XECB	++ XECB
2796	(AEC)	SIGNED	4	CKMIIISM_XEXIT	++ XEXIT
2800	(AF0)	BITSTRING	8	CKMIIISM_XCONNECT	++ XCONNECT
2808	(AF8)	SIGNED	4	CKMIIISM_XGROUPTOKEN	++ XGROUPTOKEN
2812	(AFC)	SIGNED	4	CKMIIISM_XUSERRC	++ XUSERRC
2816	(B00)	SIGNED	4	CKMIIISM_XRESPDATA	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2820	(B04)	SIGNED	4	CKMIIXSM_XRESPDLEN	++ XRESPDATA ++ XRESPDLEN
2824	(B08)	CHARACTER	4	CKMIIXSM_XRSV00001	++ RESERVED XRSV00001
2828	(B0C)	BITSTRING	8	CKMIIXSM_XMSGTOKEN	++ XMSGTOKEN
2836	(B14)	SIGNED	4	CKMIIXSM_XRIPSIZ	++ XRIPSIZ
2840	(B18)	BITSTRING	1	CKMIIXSM_XREQTYPE	++ INPUT CKMIIXSM_XREQTYPE_ASYNC "B'10000000" ++ XREQTYPE.ASYNC KEYWORD CKMIIXSM_XREQTYPE_SYNC "B'01000000" ++ XREQTYPE.SYNC KEYWORD CKMIIXSM_XREQTYPE_ASYNCACK "B'00100000" ++ XREQTYPE.ASYNCACK KEYWORD CKMIIXSM_XREQTYPE_COMM "B'00010000" ++ XREQTYPE.COMM KEYWORD
2841	(B19)	BITSTRING	1	CKMIIXSM_XSEGTYP	++ INPUT CKMIIXSM_XSEGTYP_SINGLE "B'10000000" ++ XSEGTYP.SINGLE KEYWORD CKMIIXSM_XSEGTYP_FIRST "B'01000000" ++ XSEGTYP.FIRST KEYWORD CKMIIXSM_XSEGTYP_MIDDLE "B'00100000" ++ XSEGTYP.MIDDLE KEYWORD CKMIIXSM_XSEGTYP_LAST "B'00010000" ++ XSEGTYP.LAST KEYWORD CKMIIXSM_XSEGTYP_ABORT "B'00001000" ++ XSEGTYP.ABORT KEYWORD
2842	(B1A)	BITSTRING	1	CKMIIXSM_XKEYS	++ FIELD_LABEL CKMIIXSM_KEYUSED_REQTYPE "B'10000000" ++ KEYUSED.REQTYPE KEYWORD CKMIIXSM_KEYUSED_REQTOKEN "B'01000000" ++ KEYUSED.REQTOKEN KEYWORD CKMIIXSM_KEYUSED_REQMBOX "B'00100000" ++ KEYUSED.REQMBOX KEYWORD CKMIIXSM_KEYUSED_EXIT "B'00010000" ++ KEYUSED.EXIT KEYWORD CKMIIXSM_KEYUSED_SEGTYP "B'00001000" ++ KEYUSED.SEGTYPE KEYWORD CKMIIXSM_KEYUSED_CONNECT "B'00000100" ++ KEYUSED.CONNECT KEYWORD CKMIIXSM_KEYUSED_MSGTOKEN "B'00000010" ++ KEYUSED.MSGTOKEN KEYWORD CKMIIXSM_KEYUSED_MSGATTR "B'00000001" ++ KEYUSED.MSGATTR KEYWORD
2843	(B1B)	BITSTRING	1	CKMIIXSM_XKEYS1	++ FIELD_LABEL CKMIIXSM_KEYUSED_ECB "B'10000000" ++ KEYUSED.ECB KEYWORD CKMIIXSM_KEYUSED_DATAALLET "B'01000000" ++ KEYUSED.DATAALLET KEYWORD CKMIIXSM_KEYUSED_RELEASE_CADS "B'00100000" ++ KEYUSED.RELEASE_CADS KEYWORD CKMIIXSM_KEYUSED_RIPSIZ "B'00010000" ++ KEYUSED.RIPSIZ KEYWORD
2843	(B1B)	X'84'	0	CKMIIXSML	**-CKMIIXSM" ++ LENGTH OF PLIST

\$CKM Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXISM-2					
End of Comment					
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'88'	0	CKMIXLLN	**_CKMIXLST" Length of longest list form
Comment					
End of data internal to CKRRxxxx routines					
End of Comment					
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'610'	0	CKMICL2L	**_CKMICLR2" Length of area to clear in CKRRSTRT
2848	(B20)	X'670'	0	CKMICL1L	**_CKMICLR1" Length of area to clear in CKRRSYNC or CKRRDONE
2848	(B20)	X'6F0'	0	CKMIEND	**_CKMIDATA" Length of internal data
Comment					
End of \$CKM data area					
End of Comment					
2848	(B20)	X'B20'	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		CKMDRCRC	430	4
CKMCACCT	1E8	4	CKMERRAF	660	
CKMCACF1	1E8	10	CKMIBMLN	0	58
CKMCACF2	1E8	14	CKMIBMSG	9AC	C2D3C440
CKMCACNL	1E8	0	CKMICKMA	4A0	
CKMCACOC	1E8	C	CKMICKXA	438	
CKMCACRT	1E8	8	CKMICKXS	43C	
CKMCACS1	1E8	18	CKMICLR1	4B0	
CKMCACS2	1E8	1C	CKMICLR2	510	
CKMCACT	1E8		CKMICL1L	B20	670
CKMCACU1	1E8	20	CKMICL2L	B20	610
CKMCACU2	1E8	24	CKMICRET	448	
CKMCBEGN	1D8		CKMICRIF	454	
CKMCCCNL	1EC	0	CKMICRML	85C	
CKMCCCOK	1EC	4	CKMICRSE	450	
CKMCCCUS	1EC	8	CKMICRST	440	
CKMCCDMN	1DC		CKMID	0	
CKMCCONM	270		CKMIDATA	430	
CKMCCONV	1F0		CKMIDCNA	4C4	
CKMCEND	430		CKMIDCNO	4C0	
CKMCFLG1	1D8		CKMIDCON	670	
CKMCHFAM	2F8		CKMIDFCN	668	4
CKMCICON	1EC		CKMIDFCV	668	10
CKMCIRSN	274		CKMIDFHU	668	2
CKMCIPARM	1D8		CKMIDFIO	668	60
CKMCRCDF	430	4	CKMIDF11	668	40
CKMCRCOK	430	0	CKMIDF12	668	20
CKMCRSNV	278		CKMIDFLG	668	
CKMCTYPE	1E0		CKMIDFOR	668	8
CKMC1DMF	1D8	80	CKMIDFOV	668	80
CKMC1NDM	1D8	40	CKMIDMAC	A8C	
CKMC1OKW	1D8	20	CKMIDMA1	A8C	1
CKMDRCOK	430	0	CKMIDMA2	A8C	2

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKMIDMA3	A8C	3	CKMIIESU	847	2
CKMIDMA4	A8C	4	CKMIIEUN	847	0
CKMIDMA5	A8C	5	CKMIIEYE	430	
CKMIDMA6	A8C	6	CKMIIFFC	498	64
CKMIDMA7	A8C	7	CKMIIFFI	49C	
CKMIDMCM	A88		CKMIIFG	510	
CKMIDMMT	A8D		CKMIIFGC	510	40
CKMIDMNA	4BC		CKMIIFGD	510	80
CKMIDMNO	4B8		CKMIIFRC	850	
CKMIDNAM	67C		CKMIIFRT	874	
CKMIDPMV	680		CKMIIFTS	658	
CKMIDS	668		CKMIIMRC	854	
CKMIDSBG	668		CKMIIXAC	A98	
CKMIDSEN	834		CKMIIXAC_KEYUSED_DATA		
CKMIDSHF	700			AC0	80
CKMIDS11	674		CKMIIXAC_KEYUSED_DATALEN		
CKMIDS12	678			AC0	40
CKMIDSOS	66C		CKMIIXAC_KEYUSED_SYSRC		
CKMID254	A04			AC0	10
CKMID257	A08		CKMIIXAC_KEYUSED_SYSRSN		
CKMIECAN	834	4		AC0	8
CKMIECKM	834	1	CKMIIXAC_KEYUSED_USERRC		
CKMIECNS	834	3		AC0	20
CKMIECTE	834	7	CKMIIXAC_XDATA		
CKMIEDNS	834	5		AA8	
CKMIEDWS	834	9	CKMIIXAC_XDATALEN		
CKMIEIEC	834	A		AAC	
CKMIEND	B20	6F0	CKMIIXAC_XEYECATCH		
CKMIESND	834	2		A99	
CKMIESTE	834	6	CKMIIXAC_XGROUPTOKEN		
CKMIESWD	834	8		AB4	
CKMIFCT	4B3		CKMIIXAC_XKEYS		
CKMIFLG1	470			AC0	
CKMIFLG2	4B0		CKMIIXAC_XMSGATTR		
CKMIFLG3	4B1			AC1	
CKMIFUDR	845	10	CKMIIXAC_XMSGATTR_EXPRESS		
CKMIFUDS	845	2		AC1	40
CKMIFUIF	845	8	CKMIIXAC_XMSGATTR_J3CONNECT		
CKMIFUIM	845	1		AC1	80
CKMIFUNC	845		CKMIIXAC_XMSGTOKEN		
CKMIFURC	845	60		AA0	
CKMIFURD	845	80	CKMIIXAC_XSTB		
CKMIFURI	845	20		A9F	
CKMIFURM	845	E0	CKMIIXAC_XSTB_NO		
CKMIFURS	845	40		A9F	80
CKMIFUWU	845	4	CKMIIXAC_XSTB_YES		
CKMIHCTA	4A4			A9F	40
CKMIICNA	52C		CKMIIXAC_XSYSRC		
CKMIICNO	528			AB8	
CKMIIDNA	534		CKMIIXAC_XSYSRSN		
CKMIIDNO	530			ABC	
CKMIIEAD	847	D	CKMIIXAC_XUSERRC		
CKMIIEDE	847	A		AB0	
CKMIIEDF	847	7	CKMIIXAC_XVERSION		
CKMIIEEY	847	E		A98	
CKMIIEHD	847	B	CKMIIXACL	AC1	2A
CKMIIEIL	847	1	CKMIIXIF	A98	
CKMIIEIM	847	9	CKMIIXIF_KEYUSED_ANSAREA		
CKMIIEIN	847	5		AC5	40
CKMIIEIR	847	8	CKMIIXIF_KEYUSED_GROUPNAME		
CKMIIEMD	847	C		AC5	10
CKMIIEMH	847	F	CKMIIXIF_KEYUSED_GROUPTOKEN		
CKMIIEMS	847	4		AC5	20
CKMIIEMT	847	3	CKMIIXIF_KEYUSED_REQMBOX		
CKMIIEOS	847	6		AC5	80

\$CKM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKMIIXIF_XANSAREA				AC0	40
	ABC		CKMIIXMB_XSYSEVENT_YES		
CKMIIXIF_XANSLEN				AC0	80
	AC0		CKMIIXMB_XSYSEVENTS		
CKMIIXIF_XEYECATCH				AC0	
	A99		CKMIIXMB_XVERSION		
CKMIIXIF_XFUNCTION				A98	
	AC9		CKMIIXMBL	AC0	29
CKMIIXIF_XFUNCTION_ARM			CKMIIXMC	A98	
	AC9	8000	CKMIIXMC_XEYECATCH		
CKMIIXIF_XGROUPNAME				A99	
	ACB		CKMIIXMC_XGROUPTOKEN		
CKMIIXIF_XGROUPTOKEN				AB0	
	AA0		CKMIIXMC_XMBOXNAME		
CKMIIXIF_XINFOLVL				AA0	
	AC4		CKMIIXMC_XSTB		
CKMIIXIF_XINFOLVL_GROUP				A9F	
	AC4	80	CKMIIXMC_XSTB_NO		
CKMIIXIF_XINFOLVL_MEMBER				A9F	80
	AC4	40	CKMIIXMC_XSTB_YES		
CKMIIXIF_XKEYS				A9F	40
	AC5		CKMIIXMC_XVERSION		
CKMIIXIF_XPOLYJES				A98	
	AC8		CKMIIXMCL	AB0	1C
CKMIIXIF_XPOLYJES_NO			CKMIIXMD	A98	
	AC8	40	CKMIIXMD_XEYECATCH		
CKMIIXIF_XPOLYJES_YES				A99	
	AC8	80	CKMIIXMD_XGROUPTOKEN		
CKMIIXIF_XREQMBOX				AB0	
	AA4		CKMIIXMD_XMBOXNAME		
CKMIIXIF_XREQTOKEN				AA0	
	AB4		CKMIIXMD_XSTB		
CKMIIXIF_XRSV0001				A9F	
	A9F		CKMIIXMD_XSTB_NO		
CKMIIXIF_XSTATE				A9F	80
	AC6		CKMIIXMD_XSTB_YES		
CKMIIXIF_XSTATE_ACTIVE				A9F	40
	AC6	40	CKMIIXMD_XVERSION		
CKMIIXIF_XSTATE_ANY				A98	
	AC6	80	CKMIIXMDL	AB0	1C
CKMIIXIF_XSYSTEM			CKMIIXRM	A98	
	AC7		CKMIIXRM_KEYUSED_MSGFETCH		
CKMIIXIF_XSYSTEM_ANY				AC5	80
	AC7	80	CKMIIXRM_XDATA		
CKMIIXIF_XSYSTEM_CURRENT				AB0	
	AC7	40	CKMIIXRM_XDATALEN		
CKMIIXIF_XVERSION				AB4	
	A98		CKMIIXRM_XEYECATCH		
CKMIIXIFL	ACB	3B		A99	
CKMIIXMB	A98		CKMIIXRM_XGROUPTOKEN		
CKMIIXMB_XEYECATCH				AC0	
	A99		CKMIIXRM_XKEYS		
CKMIIXMB_XGROUPTOKEN				AC5	
	ABC		CKMIIXRM_XMBOXNAME		
CKMIIXMB_XMBOXNAME				AA0	
	AA0		CKMIIXRM_XMSGFETCH		
CKMIIXMB_XPOSTALET				AC4	
	AB8		CKMIIXRM_XMSGFETCH_ACKS		
CKMIIXMB_XPOSTDATA				AC4	10
	AB4		CKMIIXRM_XMSGFETCH_ALL		
CKMIIXMB_XPOSTXIT				AC4	80
	AB0		CKMIIXRM_XMSGFETCH_MESSAGES		
CKMIIXMB_XRSV0001				AC4	40
	A9F		CKMIIXRM_XMSGFETCH_SYSEVENT		
CKMIIXMB_XSYSEVENT_NO				AC4	20

Name	Hex Offset	Hex Value
CKMIIIRM_XMSGTOKEN		
	AB8	
CKMIIIRM_XRSV0001		
	A9F	
CKMIIIRM_XVERSION		
	A98	
CKMIIXRML	AC5	2E
CKMIIIXSM	A98	
CKMIIIXSM_KEYUSED_CONNECT	B1A	4
CKMIIIXSM_KEYUSED_DATAALET	B1B	40
CKMIIIXSM_KEYUSED_ECB	B1B	80
CKMIIIXSM_KEYUSED_EXIT	B1A	10
CKMIIIXSM_KEYUSED_MSGATTR	B1A	1
CKMIIIXSM_KEYUSED_MSGTOKEN	B1A	2
CKMIIIXSM_KEYUSED_RELEASE_CADS	B1B	20
CKMIIIXSM_KEYUSED_REQMBOX	B1A	20
CKMIIIXSM_KEYUSED_REQTOKEN	B1A	40
CKMIIIXSM_KEYUSED_REQTYPE	B1A	80
CKMIIIXSM_KEYUSED_RIPSIZE	B1B	10
CKMIIIXSM_KEYUSED_SEGTYPE	B1A	8
CKMIIIXSM_XCONNECT	AF0	
CKMIIIXSM_XDATA	AC0	
CKMIIIXSM_XDATAALET	AE0	
CKMIIIXSM_XDATALEN	AC4	
CKMIIIXSM_XECB	AE8	
CKMIIIXSM_XEXIT	AEC	
CKMIIIXSM_XEYECATCH	A99	
CKMIIIXSM_XGROUPTOKEN	AF8	
CKMIIIXSM_XKEYS	B1A	
CKMIIIXSM_XKEYS1	B1B	
CKMIIIXSM_XMBOXNAME	AA0	
CKMIIIXSM_XMEMBER	AB0	
CKMIIIXSM_XMSGATTR	A9F	
CKMIIIXSM_XMSGATTR_EXPRESS	A9F	40
CKMIIIXSM_XMSGATTR_J3CONNECT	A9F	80
CKMIIIXSM_XMSGTOKEN	B0C	
CKMIIIXSM_XREQMBOX		

Name	Hex Offset	Hex Value
	AD0	
CKMIIIXSM_XREQTOKEN	AC8	
CKMIIIXSM_XREQTYPE	B18	
CKMIIIXSM_XREQTYPE_ASYNC	B18	80
CKMIIIXSM_XREQTYPE_ASYNCACK	B18	20
CKMIIIXSM_XREQTYPE_COMM	B18	10
CKMIIIXSM_XREQTYPE_SYNC	B18	40
CKMIIIXSM_XRESPDALT	AE4	
CKMIIIXSM_XRESPDATA	B00	
CKMIIIXSM_XRESPDLEN	B04	
CKMIIIXSM_XRIPSIZE	B14	
CKMIIIXSM_XRSV00001	B08	
CKMIIIXSM_XSEGTYPE	B19	
CKMIIIXSM_XSEGTYPE_ABORT	B19	8
CKMIIIXSM_XSEGTYPE_FIRST	B19	40
CKMIIIXSM_XSEGTYPE_LAST	B19	10
CKMIIIXSM_XSEGTYPE_MIDDLE	B19	20
CKMIIIXSM_XSEGTYPE_SINGLE	B19	80
CKMIIIXSM_XUSERRC	AFC	
CKMIIIXSM_XVERSION	A98	
CKMIIIXSML	B1B	84
CKMIKRGs	834	
CKMIKRsf	840	
CKMIKRsn	840	
CKMIKRss	841	
CKMIKRst	842	
CKMIKRsx	843	
CKMIKxx	844	
CKMIK29	844	1
CKMIK30	844	2
CKMIK34	844	3
CKMILSTX	846	
CKMILXAC	846	1
CKMILXIF	846	2
CKMILXMB	846	3
CKMILXMC	846	4
CKMILXMD	846	5
CKMILXRM	846	6
CKMILXSM	846	7
CKMILXUS	846	8
CKMIMBNR	484	
CKMIMBNS	474	
CKMIMCLV	5B8	
CKMIMEMV	538	
CKMIMMCO	520	
CKMIMMDR	524	

\$CKM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKMIMMMD	51C		CKMIXEIU	847	17
CKMIMMPM	4C8		CKMIXERC	847	1
CKMIMMRC	514		CKMIXERT	847	
CKMIMMST	518		CKMIXESE	847	C
CKMIMMWK	65C		CKMIXESI	847	F
CKMIMSGL	860		CKMIXESM	847	E
CKMIOSEQ	4B4		CKMIXESO	847	D
CKMIPXRD	4A4	8	CKMIXEZL	847	3
CKMIPXRM	4A4	C	CKMIXEZT	847	4
CKMIPXRP	4A4	4	CKMIXLLN	B20	88
CKMIRMAC	8A4		CKMIXLST	A98	
CKMIRMED	87C		CKMI1CAN	470	20
CKMIRMEL	880		CKMI1CAP	470	80
CKMIRMET	884		CKMI1RST	470	40
CKMIRMDM	88C		CKMI2DCO	4B0	10
CKMIRMML	890		CKMI2DFP	4B0	2
CKMIRMMT	894		CKMI2DMF	4B0	4
CKMIRMSN	8A0		CKMI2DRV	4B0	8
CKMIRSNC	84C		CKMI2NIH	4B0	80
CKMIRTNC	848		CKMI2ONE	4B0	40
CKMISECI	494	3	CKMI2RCO	4B0	20
CKMISECS	0	F	CKMI2WSG	4B0	1
CKMISMNA	864		CKMI3IFT	4B1	40
CKMISMRT	8AC		CKMI3RDD	4B1	80
CKMISTBI	494		CKMLEN	B20	B20
CKMISTCL	4E8	10	CKMSBEGN	8	
CKMISTEI	504		CKMSDCON	C	
CKMISTF	508		CKMSDNAM	14	
CKMISTFE	508	20	CKMSEND	1D8	
CKMISTFI	508	80	CKMSFLG1	8	
CKMISTFM	508	40	CKMSFLG2	9	
CKMISTIF	498		CKMSHFAM	A0	
CKMISTMC	4E8	0	CKMSLEVN	18	
CKMISTME	500		CKMSMEMV	20	
CKMISTMI	4F8		CKMSNIOE	10	
CKMISTMM	4FC		CKMSPARM	8	
CKMISTMS	4D0	0	CKMSRCCN	1D8	4
CKMISTSL	4D0	18	CKMSRCOK	1D8	0
CKMITOKL	858	8	CKMS1DRV	8	40
CKMIWUAD	660	5	CKMS1HUP	8	10
CKMIWUCO	660	3	CKMS1MBD	8	80
CKMIWUDD	660	4	CKMS1OPV	8	20
CKMIWUDM	664		CKMS2CAN	9	8
CKMIWUDR	660	2	CKMS2CKV	9	20
CKMIWUST	660	1	CKMS2IOE	9	C0
CKMIXEAC	847	1A	CKMS2IO1	9	80
CKMIXEAE	847	19	CKMS2IO2	9	40
CKMIXEAO	847	1B	CKMS2OPR	9	10
CKMIXECB	458		CKMVERN	4	1
CKMIXEDA	847	2	CKMVERSN	4	
CKMIXEEC	847	B	M00M1010	0	A98
CKMIXEEE	847	5	M00M1012	0	A98
CKMIXEEL	847	A	M00M1013	A98	
CKMIXEEO	847	9	M00M1014	A98	
CKMIXEER	847	6	M00M1015	A98	
CKMIXEES	847	7	M00M1016	A98	
CKMIXEEV	847	8	M00M1017	0	A98
CKMIXEIB	847	16			
CKMIXEID	847	14			
CKMIXEIE	847	10			
CKMIXEIG	847	12			
CKMIXEIL	847	11			
CKMIXEIN	847	18			
CKMIXEIO	847	15			
CKMIXEIP	847	13			

\$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

\$CKPREC V Map

Offsets					
Dec	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)
		.... ..1.		CKR4RSM1	"B'00000010" Resume CKPT1
		.... ...1		CKR4RSM2	"B'00000001" Resume CKPT2
16	(10)	BITSTRING	1	CKRFLAG5	DISPER flag for HASPMSG
		1...		CKR5CRC	"B'10000000" Reconfig Complete -255
		.1..		CKR5CRCO	"B'01000000" Reconfig Cancelled by Operator -255
		..1.		CKR5CRCJ	"B'00100000" Reconfig Cancelled by JES2 -255
17	(11)	BITSTRING	1	CKRFLAG6	More invocation flags
		1...		CKR6SOFT	"B'10000000" Soft error (detected by JES2)
		.1..		CKR62NDR	"B'01000000" Secondary reason code exists
18	(12)	CHARACTER	2	CKR2NDR	Secondary reason code
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

THE WTOR ECB

End of Comment

112	(70)	ADDRESS	4	CKRECB (0)	ECB USED FOR ALL WTOR'S
136	(88)	ADDRESS	4	CKRSAVHF	ANCHOR FOR SAVED HFAM'S
140	(8C)	CHARACTER	8	CKRCKPTD	'CKPTDEF' when needed
148	(94)	CHARACTER	144	CKRESPON	ALL REPLIES TO WTOR'S COME HERE

Comment

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

End of Comment

292	(124)	SIGNED	4	CKRMSGL (0)	Control block ID
296	(128)	BITSTRING	4		Console ID
300	(12C)	ADDRESS	4		Address of the CART
304	(130)	ADDRESS	4		Pointer for JOBID
308	(134)	ADDRESS	4		Control block address
312	(138)	ADDRESS	4		Display routine address
316	(13C)	ADDRESS	4	(6)	6 word work area
340	(154)	ADDRESS	4		Caller's R11 value
344	(158)	BITSTRING	2		ROUT code for Message
346	(15A)	BITSTRING	2		Not used
348	(15C)	CHARACTER	4		Message ID
352	(160)	CHARACTER	1		Separator character
353	(161)	ADDRESS	1		Flag byte 1
354	(162)	ADDRESS	1		'DISPER'
355	(163)	ADDRESS	1		Flag byte 2
356	(164)	ADDRESS	1		Flag byte 3
357	(165)	CHARACTER	8		Symbolic name of dest.
365	(16D)	BITSTRING	15		Not used
380	(17C)	ADDRESS	4	(0)	Ensure multiple of 4
380	(17C)	ADDRESS	2	(0)	
380	(17C)	ADDRESS	4	CKRCKGW	Spare CKG pointer
384	(180)	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

392	(188)	SIGNED	4	CKRSDBLD (0)	Control block ID
396	(18C)	BITSTRING	4		Console ID
400	(190)	ADDRESS	4		Address of the CART
404	(194)	ADDRESS	4		Pointer for JOBID
408	(198)	ADDRESS	4		Control block address
412	(19C)	ADDRESS	4		Display routine address
416	(1A0)	ADDRESS	4	(6)	6 word work area
440	(1B8)	ADDRESS	4		Caller's R11 value
444	(1BC)	BITSTRING	2		ROUT code for Message
446	(1BE)	BITSTRING	2		Not used
448	(1C0)	CHARACTER	4		Message ID
452	(1C4)	CHARACTER	1		Separator character
453	(1C5)	ADDRESS	1		Flag byte 1

\$CKPRECX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
454	(1C6)	ADDRESS	1		'DISPER'
455	(1C7)	ADDRESS	1		Flag byte 2
456	(1C8)	ADDRESS	1		Flag byte 3
457	(1C9)	CHARACTER	8		Symbolic name of dest.
465	(1D1)	BITSTRING	15		Not used
480	(1E0)	ADDRESS	4	(0)	Ensure multiple of 4
480	(1E0)	ADDRESS	2	(0)	

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

480	(1E0)	BITSTRING	72	CKRVECTR	RESPONSE VECTOR
552	(228)	BITSTRING	72	CKRHFAME	TEMPORARY HFAME
624	(270)	BITSTRING	1	CKRMFLAG	FLAG BYTE USED FOR MESSAGE CREATION

Comment

PARAMETER LIST FOR KTRK1IO ROUTINE

End of Comment

628	(274)	ADDRESS	4	CKRPARMX (0)	PARAMETER LIST FOR \$CALLS
628	(274)	ADDRESS	4	CKRTCKG1	ADDRESS OF CKG1
632	(278)	ADDRESS	4	CKRTCKG2	ADDRESS OF CKG2
636	(27C)	ADDRESS	4	CKRTKYR1	ADDRESS OF KEY COMP FOR DS1
640	(280)	ADDRESS	4	CKRTKYR2	ADDRESS OF KEY COMP FOR DS2
644	(284)	ADDRESS	4	CKRTKYW1	ADDRESS KEY WRITE FOR DS1
648	(288)	ADDRESS	4	CKRTKYW2	ADDRESS KEY WRITE FOR DS2
648	(288)	X'274'	0	CKRPARM	"CKRPARMX,*-CKRPARMX" PARAMETER LIST
628	(274)	BITSTRING	12	CKRTQE	TQE AREA
652	(28C)	ADDRESS	4	CKRCVCKG	ADDRESS OF CKG WHICH HAS HAD AN I/O ERROR AS A COMPANION
656	(290)	ADDRESS	4		RESERVED FOR FUTURE USE
660	(294)	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

660	(294)	X'0'	0	CKRPROC	"0" Process the function
660	(294)	X'4'	0	CKRFNSH	"4" Finish up remaining work
660	(294)	X'8'	0	CKRCLEN	"8" Clean up the work
660	(294)	X'C'	0	CKRDRVF	"12" Handle driver failure
660	(294)	X'294'	0	CKRSIZE	"*-CKR" SIZE OF WORK AREA

\$CKPRECV Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKR	0		CKR1LIM	C	80
CKRACODE	20		CKR1OTH	C	4
CKRAERRC	1C		CKR1QUSE	C	1
CKRCACT	18		CKR1RECO	C	20
CKRCKG	4		CKR1STAT	C	2
CKRCKGW	17C		CKR1THIS	C	8
CKRCKG2	8		CKR2CREA	D	4
CKRCKPTD	8C		CKR2DEL	D	10
CKRCLEN	294	8	CKR2KNUL	D	16
CKRCOUNT	14		CKR2KRSV	D	1
CKRCVCKG	28C		CKR2MIOE	D	40
CKRDMFST	28		CKR2NCRE	D	2
CKRDMINT	6C		CKR2NDR	12	
CKRDMMLST	6C	6C	CKR2OPT7	D	20
CKRDM233	28		CKR2RECR	D	80
CKRDM235	2C		CKR4CFV	F	40
CKRDM237	30		CKR4FWC1	F	10
CKRDM270	34		CKR4FWC2	F	8
CKRDM271	38		CKR4ILEV	F	80
CKRDM272	3C		CKR4OAR	F	4
CKRDM273	40		CKR4OPV	F	20
CKRDM275	44		CKR4RSM1	F	2
CKRDM276	48		CKR4RSM2	F	1
CKRDM277	4C		CKR5CRC	10	80
CKRDM278	50		CKR5CRCJ	10	20
CKRDM281	54		CKR5CRCO	10	40
CKRDM282	58		CKR6SOFT	11	80
CKRDM284	5C		CKR62NDR	11	40
CKRDM285	60				
CKRDM294	64				
CKRDM299	68				
CKRDRVF	294	C			
CKRECB	70				
CKRECLST	180				
CKRESPON	94				
CKRFLAG1	C				
CKRFLAG2	D				
CKRFLAG3	E				
CKRFLAG4	F				
CKRFLAG5	10				
CKRFLAG6	11				
CKRFNSH	294	4			
CKRHFAME	228				
CKRID	0				
CKRMFLAG	270				
CKRMSG	124	C2D3C440			
CKRPARM	288	274			
CKRPARMX	274				
CKRPROC	294	0			
CKRRTCD1	24				
CKRSVHF	88				
CKRSDBLD	188	C2D3C440			
CKRSIZE	294	294			
CKRTCKG1	274				
CKRTCKG2	278				
CKRTKYR1	27C				
CKRTKYR2	280				
CKRTKYW1	284				
CKRTKYW2	288				
CKRTQE	274				
CKRVECTR	1E0				
CKR1INIT	C	10			
CKR1IOER	C	40			

\$CKPRECV Cross Reference

\$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
16	(10)	DBL WORD	8	CKQREGS (2)	R0 and R1 on entry to service.
32	(20)	ADDRESS	4	CKQRTNA	Address of routine
36	(24)	ADDRESS	4	CKQPCE	Address of associated PCE
36	(24)	X'28'	0	CKQLEN	**-CKPTQCB" Length of CKPTQCB

\$CKPTQCB Cross Reference

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

\$CKPTQCB Cross Reference

\$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	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP CHECKPOINT PROCESSOR
312	(138)	ADDRESS	4	CKPXREQ	Pointer to XREQ area
316	(13C)	SIGNED	4		Reserved for future use
320	(140)	DBL WORD	8	CKPGTLKT	TIME SYSTEM GOT CKPT LOCK
328	(148)	DBL WORD	8	CKPRLSET	TIME SYSTEM GAVE UP LOCK
336	(150)	SIGNED	4	CKPHLTIM	Checkpoint held time
340	(154)	SIGNED	4	CKPDRMTM	Checkpoint dormancy time
344	(158)	SIGNED	2	CKPUWORK	General work area
346	(15A)	BITSTRING	4	CKPUMASK	General work mask
350	(15E)	BITSTRING	1	CKPFLAG1	FLAG BYTE --
		1...		CKP1FILL	"B'10000000" TGB HAS BEEN FILLED

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" CKVR subtask posted
		.... .1..		CKP1VLEN	"B'00000100" CURRENT CB IS IN VARIABLE LENGTH SECTION OF CKPT
		.... ..1.		CKP1LHBS	"B'00000010" CKPQSOLD is zero because the lock was held by the system
		.... ...1		CKP1STOP	"B'00000001" When reach end of DAS chain, do not start over (used in KBLOB)
351	(15F)	BITSTRING	1		Reserved for future use

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
352	(160)	SIGNED	4	CKPSRCHO	Search offset within extent
356	(164)	BITSTRING	12	CKPSTQE	\$STIMER QUEUE ELEMENT
368	(170)	BITSTRING	12	CKPMITQE	\$STIMER QUEUE ELEMENT FOR MAX INTERVAL TO WAIT BEFORE INITIATING A CHECKPOINT WRITE
380	(17C)	BITSTRING	24	CKPAPECB	HASPCKAP ECB
404	(194)	SIGNED	4	CKPAPTIM	TIME OF LAST HASPCKAP POST
408	(198)	SIGNED	4	CKPBTIME	SPOOL WARNING TIME STAMP
412	(19C)	ADDRESS	4	CKPPALA	ADDRESS OF PAGE ADDR LIST
416	(1A0)	ADDRESS	4	CKPTRPTR	ADDRESS OF THE CHECKPOINT TRACE WORK AREA
420	(1A4)	ADDRESS	4	CKPCLENT	ADDRESS OF THE NEXT AVAILABLE ENTRY IN THE CHANGE LOG
424	(1A8)	SIGNED	4	CKPUSER1	RESERVED FOR USER
428	(1AC)	SIGNED	4	CKPUSER2	RESERVED FOR USER
432	(1B0)	SIGNED	4	CKPSTCK	TIMER SAVE AREA
436	(1B4)	SIGNED	4	CKPDASN	ADDRESS OF NEXT DAS FOR BLOB
440	(1B8)	BITSTRING	32	CKPBLMPR	Previous mask of volumes in the BLOB (from last time through KBLOB)
472	(1D8)	BITSTRING	32	CKPBLMSK	Mask of volumes in BLOB with affinity for this member
504	(1F8)	BITSTRING	32	CKPBLMFN	Mask of vols in BLOB at end of KBLOB (may include vols without affinity for the member)
536	(218)	BITSTRING	32	CKPBLMWK	Work mask for KBLOB
568	(238)	BITSTRING	1		Reserved for future use
569	(239)	BITSTRING	1	CKPDASP2	'M' of next DAS to use when filling BLOB round- robin from the DASes
570	(23A)	SIGNED	2	CKPRETRY	I/O ERROR RETRY COUNTER +1
572	(23C)	CHARACTER	4	CKPRLSID	SYSTEM NAME AND AFFINITY
576	(240)	ADDRESS	1	CKPRLAFF	FROM \$ESYS,RESET=
577	(241)	BITSTRING	1	CKPBLCNT	COUNT OF SPOOLS IN BLOB
578	(242)	SIGNED	2	CKPTGESZ	Max num of entries in BLOB
580	(244)	SIGNED	4	CKPQLOCK (0)	Query Lock work area
580	(244)	SIGNED	4	CKPQSSID	System ID of lock holder
584	(248)	CHARACTER	16	CKPQSSNM	System name of lock holder
600	(258)	ADDRESS	4	CKPQCKGA	CKG address
600	(258)	X'18'	0	CKPQLLEN	**-CKPQLOCK" Length of Query Lock
600	(258)	X'247'	0	CKPSTLID	"CKPQSSID+3" 1 byte lock id to be cleared via \$SYS,RESET=
604	(25C)	ADDRESS	4	CKPSQDA	Query lock SQD pointer
608	(260)	SIGNED	4	CKPQSOLD	System ID of previous CF lock holder
616	(268)	DBL WORD	8	CKPCSTRT	STCK WHEN CKPT STARTED CYCLE (KRESERVE ISSUED)
624	(270)	ADDRESS	4	CKPECMBF	Addr of first CMB for reset of checkpoint lock FIFO q
628	(274)	ADDRESS	4	CKPECNID	Console id for reset lock messages
632	(278)	CHARACTER	8	CKPECART	CART for reset lock msgs
640	(280)	ADDRESS	4	CKPKITPS	Address of KIT PSTs
644	(284)	SIGNED	4		Reserved
648	(288)	DBL WORD	8	(0)	
648	(288)	X'150'	0	CKPPCEWS	**-PCEWORK" LENGTH OF PCE WORK AREA

\$CKPWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKPAPECB	17C		CKPECMBF	270	
CKPAPTIM	194		CKPECNID	274	
CKPBLCNT	241		CKPFLAG1	15E	
CKPBLMFN	1F8		CKPGTLKT	140	
CKPBLMPR	1B8		CKPHLTIM	150	
CKPBLMSK	1D8		CKPKITPS	280	
CKPBLMWK	218		CKPMITQE	170	
CKPBTIME	198		CKPPALA	19C	
CKPCLENT	1A4		CKPPCEWS	288	150
CKPCSTRT	268		CKPQCKGA	258	
CKPDASN	1B4		CKPQLLEN	258	18
CKPDASP2	239		CKPQLOCK	244	
CKPDRMTM	154		CKPQSOLD	260	
CKPECART	278		CKPQSSID	244	

\$CKPWORK Cross Reference

Name	Hex Offset	Hex Value
CKPQSSNM	248	
CKPRETRY	23A	
CKPRLAFF	240	
CKPRLSET	148	
CKPRLSID	23C	
CKPSQDA	25C	
CKPSRCHO	160	
CKPSTCK	1B0	
CKPSTLID	258	247
CKPSTQE	164	
CKPTGESZ	242	
CKPTRPTR	1A0	
CKPUMASK	15A	
CKPUSER1	1A8	
CKPUSER2	1AC	
CKPUWORK	158	
CKPXREQ	138	
CKP1FILL	15E	80
CKP1JQTR	15E	40
CKP1LHBS	15E	2
CKP1OFLW	15E	20
CKP1PCAP	15E	8
CKP1SFMI	15E	10
CKP1STOP	15E	1
CKP1VLEN	15E	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 CKWLNGLTH
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
		.... ...1		CKW2INTR	"B'00000001" INIT owner reset in lock
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

\$CKW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ...1		CKWSNCN	"B'00000001" NEWCKPTn was changed
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
		.... .1..		CKW3NOPT	"B'00000100" Do not optimize writes
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
		.... ..1.		CKW4P1V	"B'00000010" CKPT1 previously volatile
		.... ...1		CKW4P2V	"B'00000001" CKPT2 previously volatile
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		Reserved
28	(1C)	SIGNED	4	CKWMAXRC	Maximum # of 4K CKPT pages
32	(20)	ADDRESS	4	CKWIO24K	I/O area to 4K page index
36	(24)	ADDRESS	4	CKWCKMA	Address of CKM control blk
40	(28)	ADDRESS	4	CKWPPLA	ADDRESS OF PAGE POINTER LIST
44	(2C)	ADDRESS	4	CKWCTWA	ADDRESS OF CKPT TRACE WORK AREA
48	(30)	SIGNED	4	CKWERREG (16)	SAVE AREA FOR REGS IF ERROR
112	(70)	ADDRESS	4	CKWCURCG	CKG OF DS BEING PROCESSED
116	(74)	SIGNED	4	CKWMSTRL	Len of \$MASTERI page fixed
120	(78)	SIGNED	2	CKWLIRCT	LOST INTERRUPT RETRY COUNTER
122	(7A)	SIGNED	2	CKWPCIRC	Record count for PCIs
122	(7A)	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

124	(7C)	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
156	(9C)	SIGNED	4	CKWPAGCT	4K pages in current I/O
160	(A0)	SIGNED	4	CKWBCBNT	CBs in change log for I/O
164	(A4)	SIGNED	4	CKWCKPSZ	Size of checkpoint data

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	CKWPARAM1	PARAMETER WORD 1
228	(E4)	ADDRESS	4	CKWPARAM2	PARAMETER WORD 2
232	(E8)	ADDRESS	4	CKWPARAM3	PARAMETER WORD 3
236	(EC)	ADDRESS	4	CKWPARAM4	PARAMETER WORD 4
240	(F0)	ADDRESS	4	CKWPARAM5	PARAMETER WORD 5
244	(F4)	ADDRESS	4	CKWPARAM6	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

\$CKW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
336	(150)	SIGNED	2	CKWXCFFAS	XCF ASID
338	(152)	BITSTRING	6		Reserved for future use
344	(158)	DBL WORD	8	(0)	Align next field
344	(158)	CHARACTER	8	CKWCFLVL	\$CKPTLEV when CF subtask is posted
344	(158)	X'15C'	0	CKWCFLVN	"CKWCFLVL+4,4,C'F'" 4 byte level for PLX code
352	(160)	DBL WORD	8	CKWR2LEV	CKPT level at last Read 2
360	(168)	DBL WORD	8	CKWWRLEV	CKPT level at last IW/FW
368	(170)	SIGNED	4	CKWRECB (0)	CKPT RESERVE ECB
392	(188)	BITSTRING	12	CKWKSTQE	TIMER ELEMENT FOR CKPT SERVICES
404	(194)	SIGNED	4	CKWQECB (0)	KWRITE HASP272 msg ecb
428	(1AC)	CHARACTER	8	CKWQREPL	KWRITE HASP272 reply area
436	(1B4)	BITSTRING	4	CKWCONID	Dialog console id

Comment

 DOM IDs for HASP256 message

End of Comment

440	(1B8)	SIGNED	4	CKWDRNC1	DOMID FOR \$HASP256 NEWCKPT1
444	(1BC)	SIGNED	4	CKWDRNC2	DOMID FOR \$HASP256 NEWCKPT2
448	(1C0)	CHARACTER	80	CKWMSG	MESSAGE WORK AREA

Comment

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

End of Comment

528	(210)	SIGNED	4	CKWBLMSG (0)	Control block ID
532	(214)	BITSTRING	4		Console ID
536	(218)	ADDRESS	4		Address of the CART
540	(21C)	ADDRESS	4		Pointer for JOBID
544	(220)	ADDRESS	4		Control block address
548	(224)	ADDRESS	4		Display routine address
552	(228)	ADDRESS	4	(6)	6 word work area
576	(240)	ADDRESS	4		Caller's R11 value
580	(244)	BITSTRING	2		ROUT code for Message
582	(246)	BITSTRING	2		Not used
584	(248)	CHARACTER	4		Message ID
588	(24C)	CHARACTER	1		Separator character
589	(24D)	ADDRESS	1		Flag byte 1
590	(24E)	ADDRESS	1		'DISPER'
591	(24F)	ADDRESS	1		Flag byte 2
592	(250)	ADDRESS	1		Flag byte 3
593	(251)	CHARACTER	8		Symbolic name of dest.
601	(259)	BITSTRING	15		Not used
616	(268)	ADDRESS	4	(0)	Ensure multiple of 4
616	(268)	ADDRESS	2	(0)	
616	(268)	SIGNED	4	CKWPPL (0)	PURGE PARAMETER LIST
632	(278)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
632	(278)	CHARACTER	12	CKWSTAR (0)	STAR PARM LIST MAP
632	(278)	SIGNED	4	STARUCBA (0)	UCB ADDRESS
632	(278)	SIGNED	4	STARDCTA (0)	DEVICE TABLE ADDRESS
632	(278)	BITSTRING	3		
635	(27B)	BITSTRING	1	STARTYPE	DEVICE TYPE
636	(27C)	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .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
637	(27D)	BITSTRING	1		RESERVED
638	(27E)	SIGNED	2	STARBAL	TRACK BALANCE
640	(280)	SIGNED	4	STARRKDD (0)	RECORD INFO AS DEFINED BELOW
640	(280)	BITSTRING	1	STARR	RECORD NUMBER
641	(281)	BITSTRING	1	STARKL	KEY LENGTH
642	(282)	SIGNED	2	STARDL	DATA LENGTH
644	(284)	SIGNED	4		Reserved
648	(288)	DBL WORD	8	CKWRESVS (0)	ISGENQ MF=L begins here MACDATE -09/04/10-<2>
		.... ...1		CKWRESV_XCOND_NO	"X'01"
		.... ..1.		CKWRESV_XCOND_YES	"X'02"
		.... ...1		CKWRESV_XREQUEST_OBTAIN	"X'01"
		.... ..1.		CKWRESV_XREQUEST_CHANGE	"X'02"
		.... ..11		CKWRESV_XREQUEST_RELEASE	"X'03"
0	(0)	X'288'	0	M00M1011	"CKWRESV" ++ ISGENQ NAME
648	(288)	DBL WORD	8	CKWRESV (0)	++ ISGENQ PARM LIST
648	(288)	BITSTRING	1	CKWRESV_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	CKWRESV_XRSV0000	++ RESERVED
650	(28A)	BITSTRING	1	CKWRESV_XSCOPE	++ XSCOPE
650	(28A)	X'1'	0	CKWRESV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
650	(28A)	X'2'	0	CKWRESV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
650	(28A)	X'3'	0	CKWRESV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
650	(28A)	X'3'	0	CKWRESV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
651	(28B)	BITSTRING	1	CKWRESV_XCONTROL	++ XCONTROL
651	(28B)	X'1'	0	CKWRESV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
651	(28B)	X'2'	0	CKWRESV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
652	(28C)	BITSTRING	1	CKWRESV_XFLAGS1	++ FIELD_LABEL
		.1..		CKWRESV_XTEST_YES	"B'01000000" ++ XTEST.YES KEYWORD
		..1.		CKWRESV_XCONTENTIONACT_FAIL	"B'00100000" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		CKWRESV_XWAITTYPE_ECB	"B'00010000" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		CKWRESV_XRESLIST_YES	"B'00001000" ++ XRESLIST.YES KEYWORD
		.... .1..		CKWRESV_XENQMAX_NO	"B'00000100" ++ XENQMAX.NO KEYWORD
		.... ..1.		CKWRESV_XRNL_NO	"B'00000010" ++ XRNL.NO KEYWORD
		.... ...1		CKWRESV_XQNAME_DO_NOT_OVERRIDE	"B'00000001" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
653	(28D)	BITSTRING	1	CKWRESV_XFLAGS2	++ FIELD_LABEL
		1...		CKWRESV_XRESERVEVOLUME_YES	"B'10000000" ++ XRESERVEVOLUME.YES KEYWORD

\$CKW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		CKWRESV_XSYNCHRES_YES	"B'01000000" ++ XSYNCHRES.YES KEYWORD
		..1.		CKWRESV_XSYNCHRES_NO	"B'00100000" ++ XSYNCHRES.NO KEYWORD
		...1		CKWRESV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		CKWRESV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		CKWRESV_XRNL_DO_NOT_OVERRIDE	"B'00000100" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		CKWRESV_XRNAME_DO_NOT_OVERRIDE	"B'00000001" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
654	(28E)	BITSTRING	1	CKWRESV_XFLAGS3	++ FIELD_LABEL
		.... ...1		CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
655	(28F)	BITSTRING	1	CKWRESV_XFLAGS4	++ FIELD_LABEL
		.... ...1		CKWRESV_XUCB@_DO_NOT_OVERRIDE	"B'00000001" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
656	(290)	ADDRESS	8	CKWRESV_XRESTABLE_ADDR3164	++ ADDR3164
664	(298)	ADDRESS	8	CKWRESV_XENQTOKEN_ADDR3164	++ ADDR3164
672	(2A0)	ADDRESS	8	CKWRESV_XRETURNTABLE_ADDR3164	++ ADDR3164
680	(2A8)	ADDRESS	8	CKWRESV_XENQTOKENTBL_ADDR3164	++ ADDR3164
688	(2B0)	ADDRESS	8	CKWRESV_XRNAME_ADDR3164	++ ADDR3164
696	(2B8)	ADDRESS	8	CKWRESV_XANSAREA_ADDR3164	++ ADDR3164
704	(2C0)	CHARACTER	8	CKWRESV_XQNAME	++
712	(2C8)	CHARACTER	16	CKWRESV_XOWNINGTTOKEN	++
728	(2D8)	SIGNED	4	CKWRESV_XRESTABLE_ALET	++ ALET
732	(2DC)	SIGNED	4	CKWRESV_XENQTOKEN_ALET	++ ALET
736	(2E0)	SIGNED	4	CKWRESV_XRETURNTABLE_ALET	++ ALET
740	(2E4)	SIGNED	4	CKWRESV_XENQTOKENTBL_ALET	++ ALET
744	(2E8)	SIGNED	4	CKWRESV_XRNAME_ALET	++ ALET
748	(2EC)	SIGNED	4	CKWRESV_XANSAREA_ALET	++ ALET
752	(2F0)	SIGNED	4	CKWRESV_XANSLEN	++
756	(2F4)	ADDRESS	4	CKWRESV_XECB@	++
760	(2F8)	ADDRESS	4	CKWRESV_XUCB@	++
764	(2FC)	BITSTRING	2	CKWRESV_XNUMRES	++
766	(2FE)	BITSTRING	1	CKWRESV_XRNAMELEN	++
767	(2FF)	CHARACTER	1	CKWRESV_XRSV0001	++ RESERVED
768	(300)	CHARACTER	8	CKWRESV_XRSVNNNN	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ RESERVED
768	(300)	X'308'	0	CKWRESV_PL_END	*** ++ END OF BASE PLIST
650	(28A)	BITSTRING	1	CKWRESV_XSCOPEVAL	++
651	(28B)	BITSTRING	1	CKWRESV_XCONTROLVAL	++
776	(308)	X'80'	0	CKWRESVL	**CKWRESV" ++ LENGTH OF PLIST
Comment					
ISGENQ-2					
End of Comment					
Comment					
MACDATE -04/24/09-<0>					
End of Comment					
0	(0)	X'288'	0	M00M1013	"CKWCFPUR" ++ IXLPURGE NAME
648	(288)	DBL WORD	8	CKWCFPUR (0)	++ IXLPURGE PARM LIST
648	(288)	BITSTRING	1	CKWCFPUR_XVERSION	++ INPUT XVERSION
649	(289)	BITSTRING	1	CKWCFPUR_XSCOPEFLAGS	++ FIELD_LABEL
		1...		CKWCFPUR_XSCOPE_STOKEN	"B'10000000" ++ XSCOPE.STOKEN KEYWORD
		.1..		CKWCFPUR_XSCOPE_TTOKEN	"B'01000000" ++ XSCOPE.TTOKEN KEYWORD
		..1.		CKWCFPUR_XSCOPE_CONTOKEN	"B'00100000" ++ XSCOPE.CONTOKEN KEYWORD
650	(28A)	CHARACTER	2	CKWCFPUR_XRSV0001	++ RESERVED
652	(28C)	CHARACTER	8	CKWCFPUR_XSTOKEN	++
660	(294)	CHARACTER	16	CKWCFPUR_XTTOKEN	++
676	(2A4)	CHARACTER	16	CKWCFPUR_XCONTOKEN	++
692	(2B4)	CHARACTER	8	CKWCFPUR_XREQID	++
692	(2B4)	X'34'	0	CKWCFPURL	**CKWCFPUR" ++ LENGTH OF PLIST
Comment					
IXLPURGE-0					
End of Comment					
0	(0)	X'288'	0	CKWCFPRL	"CKWCFPUR,*-CKWCFPUR" Length of IXLPURGE
0	(0)	X'288'	0	M00M1014	"CKWXLIST" ++ IXLLIST NAME
648	(288)	DBL WORD	8	CKWXLIST (0)	++ IXLLIST PARM LIST
648	(288)	CHARACTER	96	CKWXLIST_XSHL_DATA	++ FIELD_LABEL
744	(2E8)	CHARACTER	4	CKWXLIST_XMOB_DATA	++ FIELD_LABEL
748	(2EC)	CHARACTER	112	CKWXLIST_XMCB_DATA1	++ FIELD_LABEL
860	(35C)	CHARACTER	20	CKWXLIST_XMCB_DATA2	++ FIELD_LABEL
860	(35C)	X'370'	0	CKWXLIST_PL_END	*** ++ END OF BASE PLIST
648	(288)	BITSTRING	1	CKWXLIST_XVERSION	++ INPUT XVERSION

\$CKW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
649	(289)	BITSTRING	1	CKWXLIST_XCMDCODE	++ FIELD_LABEL
650	(28A)	CHARACTER	4	CKWXLIST_XSHLFLGS	++ FIELD_LABEL
654	(28E)	CHARACTER	2	CKWXLIST_XRSV0102	++ RESERVED
656	(290)	BITSTRING	1	CKWXLIST_XCOMPONID	++ FIELD_LABEL
657	(291)	BITSTRING	1	CKWXLIST_XBUFSTGKEY	++
658	(292)	BITSTRING	2	CKWXLIST_XANSLEN	++
660	(294)	CHARACTER	16	CKWXLIST_XCONTOKEN	++
676	(2A4)	CHARACTER	12	CKWXLIST_XDATADDR	++ FIELD_LABEL
688	(2B0)	CHARACTER	8	CKWXLIST_XADJADDR	++ FIELD_LABEL
696	(2B8)	CHARACTER	8	CKWXLIST_XANSADDR	++ FIELD_LABEL
704	(2C0)	CHARACTER	8	CKWXLIST_XREQDATA	++
712	(2C8)	CHARACTER	8	CKWXLIST_XREQID	++
720	(2D0)	CHARACTER	16	CKWXLIST_XOPTIONALDATA	++ FIELD_LABEL
736	(2E0)	CHARACTER	8	CKWXLIST_XRSV0103	++ RESERVED
650	(28A)	BITSTRING	1	CKWXLIST_XSHLFLGS1	++ FIELD_LABEL
		1...		CKWXLIST_KEYUSED_BUFFER	"B'10000000" ++ KEYUSED.BUFFER KEYWORD
		.1..		CKWXLIST_KEYUSED_BUFLIST	"B'01000000" ++ KEYUSED.BUFLIST KEYWORD
		..1.		CKWXLIST_KEYUSED_ADJAREA	"B'00100000" ++ KEYUSED.ADJAREA KEYWORD
		...1		CKWXLIST_KEYUSED_ANSAREA	"B'00010000" ++ KEYUSED.ANSAREA KEYWORD
		.... 1...		CKWXLIST_XPAGEABLE_NO	"B'00001000" ++ XPAGEABLE.NO KEYWORD
		.... .1..		CKWXLIST_KEYUSED_BUFSTGKEY	"B'00000100" ++ KEYUSED.BUFSTGKEY KEYWORD
		.... ..1.		CKWXLIST_XBUFADDRTYPE_REAL	"B'00000010" ++ XBUFADDRTYPE.REAL KEYWORD
651	(28B)	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_ASYNCCECB	"B'00010000" ++ XMODE.ASYNCECB KEYWORD
		.... 1...		CKWXLIST_XMODE_ASYNCCEXIT	"B'00001000" ++ XMODE.ASYNCEXIT KEYWORD
		.... .1..		CKWXLIST_XMODE_ASYNCCTOKEN	"B'00000100" ++ XMODE.ASYNCTOKEN KEYWORD
		.... ..1.		CKWXLIST_XMODE_ASYNCNORESPONSE	"B'00000010" ++ XMODE.ASYNCTOKEN KEYWORD
652	(28C)	BITSTRING	1	CKWXLIST_XSHLFLGS3	++ FIELD_LABEL
		1...		CKWXLIST_XLOCKOPER_SET	"B'10000000" ++ XLOCKOPER.SET KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.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
653	(28D)	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
660	(294)	CHARACTER	13	CKWXLIST_XRSV0201	++ RESERVED
673	(2A1)	BITSTRING	1	CKWXLIST_XCONID	++ FIELD_LABEL
674	(2A2)	CHARACTER	2	CKWXLIST_XRSV0202	++ RESERVED
676	(2A4)	SIGNED	4	CKWXLIST_XBUFFER_ALET	++ ALET
680	(2A8)	SIGNED	4	CKWXLIST_XBUFSIZE	++
684	(2AC)	ADDRESS	4	CKWXLIST_XBUFFER	++
676	(2A4)	SIGNED	4	CKWXLIST_XBUFALET	++
680	(2A8)	SIGNED	4	CKWXLIST_XBUFLIST_ALET	++ ALET
684	(2AC)	ADDRESS	4	CKWXLIST_XBUFLIST	++
688	(2B0)	SIGNED	4	CKWXLIST_XADJAREA_ALET	++ ALET
692	(2B4)	ADDRESS	4	CKWXLIST_XADJAREA	++
688	(2B0)	SIGNED	4	CKWXLIST_XMOSVECTOR_ALET	++ ALET
692	(2B4)	ADDRESS	4	CKWXLIST_XMOSVECTOR	++
696	(2B8)	SIGNED	4	CKWXLIST_XANSAREA_ALET	++ ALET
700	(2BC)	ADDRESS	4	CKWXLIST_XANSAREA	++
704	(2C0)	ADDRESS	4	CKWXLIST_XREQECB	++
708	(2C4)	CHARACTER	4	CKWXLIST_XRSV0203	++ RESERVED
704	(2C0)	SIGNED	4	CKWXLIST_XREQTOKEN_ALET	++ ALET
708	(2C4)	ADDRESS	4	CKWXLIST_XREQTOKEN	++
720	(2D0)	CHARACTER	8	CKWXLIST_XLOCKDATA	++

\$CKW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
728	(2D8)	CHARACTER	8	CKWXLIST_XRSV0204	++ RESERVED
720	(2D0)	CHARACTER	16	CKWXLIST_XEXTRESTOKEN	++
720	(2D0)	CHARACTER	8	CKWXLIST_XEXTRESTOKENTKN	++ FIELD_LABEL
728	(2D8)	CHARACTER	8	CKWXLIST_XEXTRESTOKENPSVN	++ FIELD_LABEL
744	(2E8)	BITSTRING	2	CKWXLIST_XCMDLEN	++ FIELD_LABEL
746	(2EA)	BITSTRING	1	CKWXLIST_XBUFNUM	++
747	(2EB)	BITSTRING	1	CKWXLIST_XBUFINCRNUM	++
748	(2EC)	CHARACTER	1	CKWXLIST_XCCA	++ FIELD_LABEL
749	(2ED)	CHARACTER	1	CKWXLIST_XCCB	++ FIELD_LABEL
750	(2EE)	CHARACTER	2	CKWXLIST_XRSV0501	++ RESERVED
752	(2F0)	BITSTRING	4	CKWXLIST_XCMDFLGS1	++ FIELD_LABEL
756	(2F4)	CHARACTER	4	CKWXLIST_XB8TO11	++ FIELD_LABEL
760	(2F8)	SIGNED	4	CKWXLIST_XLOCKINDEX	++
764	(2FC)	SIGNED	4	CKWXLIST_XLISTNUM	++
768	(300)	CHARACTER	12	CKWXLIST_XENTRYID	++
780	(30C)	CHARACTER	8	CKWXLIST_XNEWVERS	++
788	(314)	CHARACTER	8	CKWXLIST_XVERSCOMP	++
796	(31C)	CHARACTER	16	CKWXLIST_XAUTHCOMP1	++ FIELD_LABEL
812	(32C)	CHARACTER	16	CKWXLIST_XNEWAUTH1	++ FIELD_LABEL
828	(33C)	CHARACTER	32	CKWXLIST_XLISTDESC	++
752	(2F0)	CHARACTER	1	CKWXLIST_XCMDFLGS1A	++ FIELD_LABEL
753	(2F1)	CHARACTER	1	CKWXLIST_XCMDFLGS1B	++ FIELD_LABEL
754	(2F2)	CHARACTER	1	CKWXLIST_XCMDFLGS1C	++ FIELD_LABEL
755	(2F3)	CHARACTER	1	CKWXLIST_XCMDFLGS1D	++ FIELD_LABEL
752	(2F0)	BITSTRING	1	CKWXLIST_XELEMNUM	++
752	(2F0)	BITSTRING	1	CKWXLIST_XDBS	++ FIELD_LABEL
755	(2F3)	CHARACTER	1	CKWXLIST_XUID3	++ FIELD_LABEL
756	(2F4)	CHARACTER	3	CKWXLIST_XRSV0502	++ RESERVED
759	(2F7)	CHARACTER	1	CKWXLIST_XCGLM	++ FIELD_LABEL
756	(2F4)	BITSTRING	2	CKWXLIST_XSTARTINDEX	++
758	(2F6)	BITSTRING	2	CKWXLIST_XENDINDEX	++
760	(2F8)	SIGNED	4	CKWXLIST_XVECTORINDEX	++

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
768	(300)	SIGNED	4	CKWXLIST_XLISTLIMIT	++
772	(304)	CHARACTER	8	CKWXLIST_XRSV0601	++ RESERVED
796	(31C)	CHARACTER	16	CKWXLIST_XENTRYNAME	++
796	(31C)	CHARACTER	16	CKWXLIST_XENTRYKEY	++
796	(31C)	CHARACTER	16	CKWXLIST_XKEYCOMP	++
796	(31C)	CHARACTER	1	CKWXLIST_XUID2	++ FIELD_LABEL
797	(31D)	CHARACTER	15	CKWXLIST_XRSV0602	++ RESERVED
812	(32C)	CHARACTER	8	CKWXLIST_XRESTOKEN	++
820	(334)	CHARACTER	8	CKWXLIST_XRSV0603	++ RESERVED
812	(32C)	BITSTRING	2	CKWXLIST_XFIRSTELEM	++
814	(32E)	BITSTRING	2	CKWXLIST_XLASTELEM	++
816	(330)	CHARACTER	8	CKWXLIST_XRSV0604	++ RESERVED
824	(338)	CHARACTER	1	CKWXLIST_XCMDFLGS2A	++ FIELD_LABEL
825	(339)	CHARACTER	3	CKWXLIST_XRSV0605	++ RESERVED
828	(33C)	CHARACTER	1	CKWXLIST_XUID1	++ FIELD_LABEL
829	(33D)	CHARACTER	31	CKWXLIST_XRSV0606	++ RESERVED
860	(35C)	CHARACTER	16	CKWXLIST_XMOVETOKEY0	++ FIELD_LABEL
876	(36C)	SIGNED	4	CKWXLIST_XMOVETOLIST0	++ FIELD_LABEL
880	(370)	X'E8'	0	CKWXLISTL	"*-CKWXLIST" ++ LENGTH OF PLIST

Comment

IXLLIST-3

End of Comment

0	(0)	X'288'	0	CKWCFLSL	"CKWXLIST,*-CKWXLIST" Length of IXLLIST
880	(370)	ADDRESS	4	CKWVRL	Pointer to VRL area
884	(374)	SIGNED	4	CKWVRLN	Total number of VRL entries
888	(378)	ADDRESS	4	CKWVRLP	Pointer to free VRL
892	(37C)	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'380'	0	M00M1015	"CKWVSERV" ++ IARVSERV NAME
896	(380)	DBL WORD	8	CKWVSERV (0)	++ IARVSERV PARM LIST
896	(380)	BITSTRING	1	CKWVSERV_XVERSION	++ INPUT XVERSION
897	(381)	BITSTRING	1	CKWVSERV_XSERVICE	++ XSERVICE
897	(381)	X'1'	0	CKWVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
897	(381)	X'2'	0	CKWVSERV_UNSHARE	

\$CKW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
897	(381)	X'3'	0	CKWVSERV_CHANGEACCESS	"2" ++ XSERVICE.UNSHARE KEYWORD
897	(381)	X'4'	0	CKWVSERV_SHARESEG	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
898	(382)	BITSTRING	1	CKWVSERV_XFLAGS1	"4" ++ XSERVICE.SHARESEG KEYWORD
		1...		CKWVSERV_TARGET_VIEW_RO	++ FIELD_LABEL
		.1..		CKWVSERV_TARGET_VIEW_SW	"B'10000000" ++ XTARGET_VIEW.READONLY KEYWORD
		..1.		CKWVSERV_TARGET_VIEW_UW	"B'01000000" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		...1		CKWVSERV_TARGET_VIEW_TW	"B'00100000" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		.... 1...		CKWVSERV_TARGET_VIEW_LS	"B'00010000" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... .1..		CKWVSERV_TARGET_VIEW_NA	"B'00001000" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... ..1.		CKWVSERV_COPYNOW	"B'00000100" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ...1		CKWVSERV_RETAIN_YES	"B'00000010" ++ KEYUSED.COPYNOW KEYWORD
899	(383)	BITSTRING	1	CKWVSERV_XFLAGS2	"B'00000001" ++ XRETAIN.YES KEYWORD
		1...		CKWVSERV_XPARTIALPAGE_YES	++ FIELD_LABEL
900	(384)	SIGNED	4	CKWVSERV_XNUMRANGE	"B'10000000" ++ XPARTIALPAGE.YES KEYWORD
904	(388)	ADDRESS	4	CKWVSERV_XRANGLIST	++ XNUMRANGE
904	(388)	X'C'	0	CKWVSERV_L	++ XRANGLIST
					**-"CKWVSERV" ++ LENGTH OF PLIST

Comment

IARVserv-0

End of Comment

912	(390)	DBL WORD	8	CKWGMTOF	GMT offset of local member, including leap seconds
920	(398)	DBL WORD	8	CKWRESTM	Time CKPT got the reserve
920	(398)	X'3A0'	0	CKWLNGLTH	**-"CKW" LENGTH OF CKW

\$CKW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKW	0		CKWCFPUR_XRSV0001		
CKWBLSMSG	210	C2D3C440		28A	
CKWCADJ	BF	40	CKWCFPUR_XSCOPE_CONTOKEN		
CKWCBCNT	A0			289	20
CKWCCWA	C0		CKWCFPUR_XSCOPE_STOKEN		
CKWCCWFL	BF			289	80
CKWCECKD	BF	80	CKWCFPUR_XSCOPE_TTOKEN		
CKWCFAIL	120			289	40
CKWCFLSL	0	288	CKWCFPUR_XSCOPEFLAGS		
CKWCFLVL	158			289	
CKWCFLVN	158	15C	CKWCFPUR_XSTOKEN		
CKWCFPRL	0	288		28C	
CKWCFPUR	288		CKWCFPUR_XTTOKEN		
CKWCFPUR_XCONTOKEN				294	
	2A4		CKWCFPUR_XVERSION		
CKWCFPUR_XREQID				288	
	2B4		CKWCFPURL	2B4	34

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKWCFTD	128		CKWPPL	268	0
CKWCFWRE	148		CKWPPLA	28	
CKWCFWTM	140		CKWQECB	194	
CKWCKCHW	B4		CKWQREPL	1AC	40404040
CKWCKCLP	A8		CKWQSUSE	88	
CKWCKCLW	B0		CKWRCID	10	
CKWCKCSP	AC		CKWRECB	170	
CKWCKCTM	B8		CKWRECF3	C	
CKWCKDA	C4		CKWRECNT	BC	
CKWCKMA	24		CKWRESTM	398	
CKWCKPSZ	A4		CKWRESV	288	
CKWCKPTN	7C		CKWRESV_PL_END		
CKWCLSTA	D4			300	308
CKWCONID	1B4		CKWRESV_XANSAREA_ADDR3164		
CKWCTLBA	C8			2B8	
CKWCTLB0	CC		CKWRESV_XANSAREA_ALET		
CKWCTWA	2C			2EC	
CKWCT1RC	11C		CKWRESV_XANSLEN		
CKWCURCG	70			2F0	
CKWC1ST	BF	20	CKWRESV_XCOND_NO		
CKWDFAIL	124			0	1
CKWDRNC1	1B8		CKWRESV_XCOND_YES		
CKWDRNC2	1BC			0	2
CKWERREG	30		CKWRESV_XCONTENTIONACT_FAIL		
CKWFIXST	D0			28C	20
CKWFLAG1	6		CKWRESV_XCONTROL		
CKWFLAG2	7			28B	
CKWFLAG3	9		CKWRESV_XCONTROL_DO_NOT_OVERRIDE		
CKWFLAG4	A			28D	10
CKWFLAG5	B		CKWRESV_XCONTROL_EXCLUSIVE		
CKWFMCKG	14C			28B	2
CKWGMTOF	390		CKWRESV_XCONTROL_SHARED		
CKWID	0	C3D2E640		28B	1
CKWINITM	138		CKWRESV_XCONTROLVAL		
CKWIOLST	DC			28B	
CKWIO24K	20		CKWRESV_XECB@		
CKWKSTQE	188			2F4	
CKWKT1PK	130		CKWRESV_XENQMAX_NO		
CKWKT1RC	118			28C	4
CKWLDIAG	6	8	CKWRESV_XENQTOKEN_ADDR3164		
CKWLIRCT	78			298	
CKWLKEY1	F8		CKWRESV_XENQTOKEN_ALET		
CKWLKEY2	100			2DC	
CKWLKIT	14		CKWRESV_XENQTOKEN_TBL_ADDR3164		
CKWLKNUM	18			2A8	
CKWLKVL1	108		CKWRESV_XENQTOKEN_TBL_ALET		
CKWLKVL2	110			2E4	
CKWLNPTH	398	3A0	CKWRESV_XFLAGS1		
CKWMAXRC	1C			28C	
CKWMSG	1C0		CKWRESV_XFLAGS2		
CKWMSTRL	74			28D	
CKWMVSWT	80		CKWRESV_XFLAGS3		
CKWOPTCK	94			28E	
CKWOPT4K	98		CKWRESV_XFLAGS4		
CKWPAGCT	9C			28F	
CKWPARML	F4	18	CKWRESV_XNUMRES		
CKWPARMS	E0			2FC	
CKWPARAM1	E0		CKWRESV_XOWNINGTTOKEN		
CKWPARAM2	E4			2C8	
CKWPARAM3	E8		CKWRESV_XQNAME		
CKWPARAM4	EC			2C0	
CKWPARAM5	F0		CKWRESV_XQNAME_DO_NOT_OVERRIDE		
CKWPARAM6	F4			28C	1
CKWPCICT	7A	7D0	CKWRESV_XREQUEST_CHANGE		
CKWPCIRC	7A			0	2

\$CKW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKWRESV_XREQUEST_OBTAIN	0	1		28C	10
CKWRESV_XREQUEST_RELEASE	0	3	CKWRESVL	308	80
CKWRESV_XRESERVEVOLUME_YES	28D	80	CKWRESVS	288	
CKWRESV_XRESLIST_YES	28C	8	CKWRESV1	D	
CKWRESV_XRESTABLE_ADDR3164	290		CKWRWOP	BE	
CKWRESV_XRESTABLE_ALET	2D8		CKWR2LEV	160	
CKWRESV_XRETURNTABLE_ADDR3164	2A0		CKWSCAN	8	
CKWRESV_XRETURNTABLE_ALET	2E0		CKWSCDL	8	1
CKWRESV_XRNAME_ADDR3164	2B0		CKWSCF	8	80
CKWRESV_XRNAME_ALET	2E8		CKWSCNL	8	E0
CKWRESV_XRNAME_DO_NOT_OVERRIDE	28D	1	CKWSDSN	8	40
CKWRESV_XRNAMELEN	2FE		CKWSHLST	D8	
CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	28E	1	CKWSNCN	8	1
CKWRESV_XRNL_DO_NOT_OVERRIDE	28D	4	CKWSTAR	278	
CKWRESV_XRNL_NO	28C	2	CKWSVOL	8	20
CKWRESV_XRSVNNNN	300		CKWVERN	4	3
CKWRESV_XRSV0000	289		CKWVERSN	4	
CKWRESV_XRSV0001	2FF		CKWVRL	370	
CKWRESV_XSCOPE	28A		CKWVRLC	37C	
CKWRESV_XSCOPE_DO_NOT_OVERRIDE	28D	8	CKWVRLN	374	
CKWRESV_XSCOPE_STEP	28A	1	CKWVRLP	378	
CKWRESV_XSCOPE_SYSPLEX	28A	3	CKWVSERV	380	
CKWRESV_XSCOPE_SYSTEM	28A	2	CKWVSERV_CHANGEACCESS	381	3
CKWRESV_XSCOPE_SYSTEMS	28A	3	CKWVSERV_COPYNOW	382	2
CKWRESV_XSCOPEVAL	28A		CKWVSERV_RETAIN_YES	382	1
CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	28D	2	CKWVSERV_SHARE	381	1
CKWRESV_XSYNCHRES_NO	28D	20	CKWVSERV_SHARESEG	381	4
CKWRESV_XSYNCHRES_YES	28D	40	CKWVSERV_TARGET_VIEW_LS	382	8
CKWRESV_XTEST_YES	28C	40	CKWVSERV_TARGET_VIEW_NA	382	4
CKWRESV_XUCB@	2F8		CKWVSERV_TARGET_VIEW_RO	382	80
CKWRESV_XUCB@_DO_NOT_OVERRIDE	28F	1	CKWVSERV_TARGET_VIEW_SW	382	40
CKWRESV_XVERSION	288		CKWVSERV_TARGET_VIEW_TW	382	10
CKWRESV_XWAITTYPE_ECB			CKWVSERV_TARGET_VIEW_UW	382	20
			CKWVSERV_UNSHARE	381	2
			CKWVSERV_XFLAGS1	382	
			CKWVSERV_XFLAGS2	383	
			CKWVSERV_XNUMRANGE	384	
			CKWVSERV_XPARTIALPAGE_YES	383	80
			CKWVSERV_XRANGLIST	388	
			CKWVSERV_XSERVICE	381	
			CKWVSERV_XVERSION	380	
			CKWVSERVL	388	C
			CKWVRLEV	168	
			CKWWTTM	90	
			CKWXCFAS	150	
			CKWXLIST	288	

Name	Hex Offset	Hex Value
CKWXLIST_KEYUSED_ADJAREA	28A	20
CKWXLIST_KEYUSED_ANSAREA	28A	10
CKWXLIST_KEYUSED_BUFFER	28A	80
CKWXLIST_KEYUSED_BUFLIST	28A	40
CKWXLIST_KEYUSED_BUFSTGKEY	28A	4
CKWXLIST_KEYUSED_EXTRESTOKEN	28D	20
CKWXLIST_KEYUSED_LOCKCOMP	28C	1
CKWXLIST_PL_END		
	35C	370
CKWXLIST_RCVRYREQASYNC	28D	1
CKWXLIST_XADJADDR	2B0	
CKWXLIST_XADJAREA	2B4	
CKWXLIST_XADJAREA_ALET	2B0	
CKWXLIST_XANSADDR	2B8	
CKWXLIST_XANSAREA	2BC	
CKWXLIST_XANSAREA_ALET	2B8	
CKWXLIST_XANSLEN	292	
CKWXLIST_XAUTHCOMP1	31C	
CKWXLIST_XBUFADDRTYPE_REAL	28A	2
CKWXLIST_XBUFALET	2A4	
CKWXLIST_XBUFFER	2AC	
CKWXLIST_XBUFFER_ALET	2A4	
CKWXLIST_XBUFINCRNUM	2EB	
CKWXLIST_XBUFLIST	2AC	
CKWXLIST_XBUFLIST_ALET	2A8	
CKWXLIST_XBUFNUM	2EA	
CKWXLIST_XBUFSIZE	2A8	
CKWXLIST_XBUFSTGKEY	291	
CKWXLIST_XB8TO11	2F4	
CKWXLIST_XCCA	2EC	
CKWXLIST_XCCB	2ED	
CKWXLIST_XCGLM	2F7	
CKWXLIST_XCMDCODE	289	
CKWXLIST_XCMDFLGS1		

Name	Hex Offset	Hex Value
	2F0	
CKWXLIST_XCMDFLGS1A	2F0	
CKWXLIST_XCMDFLGS1B	2F1	
CKWXLIST_XCMDFLGS1C	2F2	
CKWXLIST_XCMDFLGS1D	2F3	
CKWXLIST_XCMDFLGS2A	338	
CKWXLIST_XCMDLEN	2E8	
CKWXLIST_XCOMPCONID	290	
CKWXLIST_XCONID	2A1	
CKWXLIST_XCONTOKEN	294	
CKWXLIST_XDATADDR	2A4	
CKWXLIST_XDBS	2F0	
CKWXLIST_XELEMNUM	2F0	
CKWXLIST_XENDINDEX	2F6	
CKWXLIST_XENTRYID	300	
CKWXLIST_XENTRYKEY	31C	
CKWXLIST_XENTRYNAME	31C	
CKWXLIST_XEXTRESTOKEN	2D0	
CKWXLIST_XEXTRESTOKENPSVN	2D8	
CKWXLIST_XEXTRESTOKENTKN	2D0	
CKWXLIST_XFIRSTELEM	32C	
CKWXLIST_XKEYCOMP	31C	
CKWXLIST_XLASTELEM	32E	
CKWXLIST_XLISTDESC	33C	
CKWXLIST_XLISTLIMIT	300	
CKWXLIST_XLISTNUM	2FC	
CKWXLIST_XLOCKDATA	2D0	
CKWXLIST_XLOCKINDEX	2F8	
CKWXLIST_XLOCKMODE_COND	28C	2
CKWXLIST_XLOCKOPER_HELD	28C	10
CKWXLIST_XLOCKOPER_NOTHELD	28C	20
CKWXLIST_XLOCKOPER_READNEXT	28C	4
CKWXLIST_XLOCKOPER_RESET	28C	40

\$CKW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CKWXLIST_XLOCKOPER_SET	28C	80	CKWXLIST_XRSV0502	2EE	
CKWXLIST_XLOCKOPER_TEST	28C	8	CKWXLIST_XRSV0601	2F4	
CKWXLIST_XMCB_DATA1	2EC		CKWXLIST_XRSV0602	304	
CKWXLIST_XMCB_DATA2	35C		CKWXLIST_XRSV0603	31D	
CKWXLIST_XMOB_DATA	2E8		CKWXLIST_XRSV0604	334	
CKWXLIST_XMODE_ASYNCCECB	28B	10	CKWXLIST_XRSV0605	330	
CKWXLIST_XMODE_ASYNCEXIT	28B	8	CKWXLIST_XRSV0606	339	
CKWXLIST_XMODE_ASYNCNORESPONSE	28B	2	CKWXLIST_XSHL_DATA	33D	
CKWXLIST_XMODE_ASYNCTOKEN	28B	4	CKWXLIST_XSHLFLGS	288	
CKWXLIST_XMODE_SYNCCECB	28B	80	CKWXLIST_XSHLFLGS1	28A	
CKWXLIST_XMODE_SYNCEXIT	28B	40	CKWXLIST_XSHLFLGS2	28A	
CKWXLIST_XMODE_SYNCTOKEN	28B	20	CKWXLIST_XSHLFLGS3	28B	
CKWXLIST_XMOSVECTOR	2B4		CKWXLIST_XSHLFLGS4	28C	
CKWXLIST_XMOSVECTOR_ALET	2B0		CKWXLIST_XSHLFLGS4	28D	
CKWXLIST_XMOVETOKEY0	35C		CKWXLIST_XSTARTINDEX	2F4	
CKWXLIST_XMOVETOLIST0	36C		CKWXLIST_XTYPE_ADJDATA	28D	80
CKWXLIST_XNEWAUTH1	32C		CKWXLIST_XTYPE_ECONTROLS	28D	40
CKWXLIST_XNEWVERS	30C		CKWXLIST_XUID1	33C	
CKWXLIST_XOPTIONALDATA	2D0		CKWXLIST_XUID2	31C	
CKWXLIST_XPAGEABLE_NO	28A	8	CKWXLIST_XUID3	2F3	
CKWXLIST_XREQDATA	2C0		CKWXLIST_XVECTORINDEX	2F8	
CKWXLIST_XREQECB	2C0		CKWXLIST_XVERSCOMP	314	
CKWXLIST_XREQID	2C8		CKWXLIST_XVERSION	288	
CKWXLIST_XREQTOKEN	2C4		CKWXLISTL	370	E8
CKWXLIST_XREQTOKEN_ALET	2C0		CKW1ESUP	6	20
CKWXLIST_XRESTOKEN	32C		CKW1FNLW	6	80
CKWXLIST_XRSV0102	28E		CKW1OFLW	6	40
CKWXLIST_XRSV0103	2E0		CKW1SPIO	6	4
CKWXLIST_XRSV0201	294		CKW1SPSC	6	2
CKWXLIST_XRSV0202	2A2		CKW1S266	6	10
CKWXLIST_XRSV0203	2C4		CKW2FMLS	7	4
CKWXLIST_XRSV0204	2D8		CKW2FWLS	7	8
CKWXLIST_XRSV0501			CKW2INTR	7	1
			CKW2IWLS	7	10
			CKW2PWLS	7	20
			CKW2R1LS	7	80
			CKW2R2LS	7	40
			CKW3FMCP	9	40
			CKW3FMFX	9	80
			CKW3NOPT	9	4
			CKW3PWWP	9	8
			CKW3R2WP	9	10
			CKW4DIAG	A	4

Name	Hex Offset	Hex Value
CKW4DIA1	A	20
CKW4IGNO	A	8
CKW4IGN1	A	40
CKW4P1V	A	2
CKW4P2V	A	1
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
M00M1011	0	288
M00M1013	0	288
M00M1014	0	288
M00M1015	0	380
STARBAL	27E	
STARDCCTA	278	
STARDL	282	
STARDTU	27C	6
STARFLGS	27C	
STARFUNC	27C	80
STARKL	281	
STARLAST	27C	8
STARLOC	27C	1
STARMAXS	27C	40
STARR	280	
STARREMV	27C	20
STARRKDD	280	
STARTYPE	27B	
STARUBAL	27C	10
STARUCBA	278	

\$CKW Cross Reference

\$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 IXZXISM macro instruction and areas in acknowledgement messages are created by the IXZXIAC macro instruction.

Pointed to by: CKMCKXA field of the \$CKM data area
 MESSAGE_OFFSET field of the IXZYIXEN data area
 YIXAC_APPL_DATA field of the IXZYIAC 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

\$CKX Map

Offsets

Dec	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 internal Function Component Test (FCT) use only.

Warning: This section is used only for testing. Setting data in this section causes permanent waits or \$K25 ABENDs.

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	CKXHDLRN	"*-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

\$CKX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Message: Request info for driver (re)selection This message is sent by the driver candidate to every active, participating member. The members return the requested information in an acknowledgement message. This is a TYPE=ASYNCAACK message. Use this section when CKXMTYPE is set to CKXM1. Fields in this section are named CKXM1xxx.</p>					
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					
<p>Ack message: Info for driver (re)selection The acknowledgements are used by the driver candidate to determine the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use. When selecting a replacement driving member, the acknowledgements are also used to determine each member's operation sequence number. Use this section when CKXMTYPE is set to CKXA1. Fields in this section are named CKXA1xxx.</p>					
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	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Message: Notification of driver (re)selection This message notifies all participating members of the selection of the driving member, or the replacement of a failed driving member. This message contains the accumulated results from the request driver selection information message from the MAS perspective. The MAS wide results includes the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the message also indicates the highest valid operation sequence number for catch-up processing. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM2. Fields in this section are named CKXM2xxx.</p>					

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					
<p>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.</p>					

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

\$CKX Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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=ASYNCAACK message. Use this section when CKXMTYPE is set to CKXM3. Fields in this section are named CKXM3xxx.</p>					
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
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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 in such a way that some, but not all, members receive this message, then those members that did not receive this message will do catch-up processing when a new driver is selected. This is a TYPE=ASYNACK message. Use this section when CKXMTYPE is set to CKXM4. Fields in this section are named CKXM4xxx.

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=ASYNACK 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	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

\$CKX Cross Reference

\$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 CMBLGLLEN, CMBL
 CMBLGLLEN is used as the length for private area CMBs so that nodal message records (NMRs) destined for another node can be store-and-forward'ed unchanged by the Remote Console Processor in HASPRTAM. Note that messages originated by JES2 only use CMBL of these CMBs.
 CMBs that are GETMAIN'ed from common storage are always obtained with length CMBL.

Created by: \$GETCMB routine in HASPCON
 SSICMD routine in HASCSIRQ
 SSINOUS routine in HASCSIRQ

Pointed to by: CMBCMB field of the \$CMB data area
 CSACMB field of the \$DTEWTO data area
 CSACONWQ field of the \$DTEWTO data area
 \$BUSYQUE field of the \$HCT data area
 \$BUSYRQ field of the \$HCT data area
 \$COMMQTP field of the \$HCT data area
 \$COMMQUE field of the \$HCT data area
 CCTCMBFQ field of the \$HCCT data area
 CCTCOMMQ field of the \$HCCT data area
 CCTELCMB field of the \$HCCT data area
 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	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	ADDRESS	1	CMBVRS	CMB VERSION
4	(4)	X'1'	0	CMBVRSN	"1" SET CMB VERSION
4	(4)	X'5'	0	CMBCLR	*** START OF AREA CLEARED BY THE \$GETCMB SERVICE (EXCEPT FOR CMBCMB)
5	(5)	BITSTRING	1	CMBFLAG2	GENERAL FLAG BYTE
		1...		CMB2GETM	"B'10000000" GETMAINED CMB (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)	CHARACTER	4	CMBACEID (0)	ACE ID for monitor commands
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

\$CMB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
103	(67)	CHARACTER	1		SPACER
104	(68)	CHARACTER	96	CMBTEXT	MESSAGE TEXT
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
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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		CMBTYPEP	"B'00000001" Formatted DOM CMB
		.... ..1.		CMBTYPEF	"B'00000010" Formatted command in CMBMSG
		.... .1..		CMBTYPEP	"B'00000100" MSG TEXT ONLY IN NMRMSG
		.... 1...		CMBTYPE4	"B'00001000" RESERVED BIT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
CMBFOP DEFINITIONS					
End of Comment					
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		CMBFOPC	68	2
CMBACEID	10		CMBFOPD	68	1
CMB CART	1C	40404040	CMBFOPH	68	4
CMBCLR	4	5	CMBFOPR	68	5
CMB CMB	C		CMBFORGN	48	40404040
CMBDESC	2C	0	CMBFR	60	40404040
CMBDOMID	30	0	CMBFRTE	44	
CMBEND	C8		CMBID	0	C3D4C240
CMBFD	58	40404040	CMBJOBID	4D	40404040
CMBFFLG	45	0	CMBJOBN	5F	40404040
CMBFFLGD	68	40	CMBL	C8	C8
CMBFFLGJ	68	3	CMBLEVEL	15	
CMBFFLGO	68	80	CMBLGEND	C8	D8
CMBFFLGS	68	1	CMBLGLEN	C8	D8
CMBFFLGT	68	2	CMBLGMSG	44	
CMBFJID	46	0	CMBLINET	26	0
CMBFJNAM	50	40404040	CMBMID	56	
CMBFJNUM	68	0	CMBML	17	0
CMBFLAG	14	0	CMBMSG	44	
CMBFLAGC	68	80	CMBPARML	43	30
CMBFLAGD	68	2	CMBPCE	10	
CMBFLAGJ	68	4	CMBPRIM	68	F
CMBFLAGQ	68	60	CMBPRIO	15	0
CMBFLAGR	68	8	CMBRMT	34	0
CMBFLAGS	68	1	CMBROUT	2E	0
CMBFLAGT	68	20	CMBTEXT	68	40404040
CMBFLAGU	68	10	CMBTIME	44	40404040
CMBFLAGW	68	40	CMBTO	18	
CMBFLAG2	5	0	CMBTOKA	8	
CMBFLAG3	1B	0	CMBTONOD	18	0
CMBFLAG4	6	0	CMBTOQUL	1A	0
CMBFM	40		CMBTYPE	16	0
CMBFMNOD	40	0	CMBTYPED	68	1
CMBFMQUL	42	0	CMBTYPEF	68	2
CMBFNORM	44		CMBTYPET	68	4
CMBFOP	44	0	CMBTYPEX	68	F0
CMBFOPA	68	3	CMBTYPE4	68	8

\$CMB Cross Reference

Name	Hex Offset	Hex Value
CMBUCM	24	0
CMBUCMA	25	0
CMBUCMID	28	0
CMBUSER	36	40404040
CMBVRS	4	
CMBVRSN	4	1
CMBWTOLG	36	2A
CMBWTOPL	14	
CMB2AUTO	5	20
CMB2DMC	5	1
CMB2GETM	5	80
CMB2GMTK	5	40
CMB2IFF	5	8
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
312	(138)	BITSTRING	1	JPCESTAT	PROCESSOR STATUS BYTE
		1...		JPCEDUPL	"B'10000000" Duplicate logon tried
		.1..		JPCEJCTV	"B'01000000" JCT VALID
		...1		JPCECNWT	"B'00010000" This PCE cannot wait for OS CNVT
313	(139)	CHARACTER	1	JPCECLAS	ORIGINAL JOB CLASS
314	(13A)	CHARACTER	1	JPCEPRIO	ORIGINAL JOB PRIORITY
315	(13B)	BITSTRING	1		RESERVED FOR FUTURE USE
316	(13C)	ADDRESS	4	JPCEDETE	SUBTASK DTE ADDRESS
320	(140)	ADDRESS	4	JPCEJCTA	JCT BUFFER ADDR FOR PCE
324	(144)	ADDRESS	4	JPCEIOT	ADDRESS OF ALLOCATION IOT
328	(148)	BITSTRING	12	JPCEJCTQ	HASP TIMER QUEUE ELEMENT
340	(154)	SIGNED	4	JPCEBSIZ	TOTAL PERMANENT BUFFER STORAGE
344	(158)	ADDRESS	4	JPCEERSUM	\$ESTAE RESUME ADDR, IF ANY
348	(15C)	BITSTRING	6	JPCEJCTK	MQTR OF JCT, CHANGED BY PROCESSOR WHEN NEW MQTR SET OF JCT
354	(162)	BITSTRING	2		RESERVED FOR FUTURE IBM USE
356	(164)	SIGNED	4	JPCEDOM	ADDRESS OF CMB TO BE \$DOM'D

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
360	(168)	ADDRESS	4	JPCEXPLA	Address of XPL for Exit 44
364	(16C)	ADDRESS	4	JPCEPARM	NODE TABLE ADDRESS
368	(170)	ADDRESS	4		CONTROL BLOCK ADDRESS
372	(174)	ADDRESS	4		CLASS LIST ADDRESS
376	(178)	ADDRESS	4		ADDRESS OF JQE
380	(17C)	ADDRESS	1		CLASS LIST LENGTH
381	(17D)	ADDRESS	1		QUEUE TYPE SPECIFIED
382	(17E)	ADDRESS	1		WORK SELECTION TYPE FLAG
383	(17F)	ADDRESS	1		RESERVED FOR FUTURE USE
383	(17F)	X'16C'	0	JPCELST	"JPCEPARM,*-JPCEPARM" QGET PARAMETER LIST STORAGE
384	(180)	BITSTRING	1	JPCEXRSP	EXIT 44 response byte Work area copy of \$XPL response byte X044RESP
385	(181)	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 JLLEN
- 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 (JESYMSG and JESJOB LG) 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

\$CNVWORK Cross Reference

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 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 \$Z13LSPN=SPIN HJE7780 100818 J_K2: Spin any SPIN data set 01 A000000-999999 CREATED for JES2 z/OS 1.2					
01 NOTES: The bit definitions in JLGFLAG1 must the the same as the definitions for SPCFLAG1 (\$SPC).					
End of Comment					
401	(191)	BITSTRING	6	JPCEJLOG	JES log control
407	(197)	CHARACTER	16	JPCESCHH	Hold area for JQA SCHENV
423	(1A7)	CHARACTER	16	JPCESCHJ	Hold area for JCT SCHENV
423	(1A7)	X'7F'	0	JPCELEN	**-PCEWORK" LENGTH OF PROCESSOR WORK SPACE

\$CNVWORK Cross Reference

Name	Hex Offset	Hex Value
JPCEBSIZ	154	
JPCECLAS	139	
JPCEDOM	164	
JPCEDETE	13C	
JPCEDUPL	138	80
JPCEIOT	144	
JPCEJCTA	140	
JPCEJCTK	15C	
JPCEJCTV	138	40
JPCEJLOG	191	
JPCELEN	1A7	7F
JPCELST	17F	16C
JPCENCWT	138	10
JPCEPARM	16C	
JPCEPRIO	13A	
JPCEPERSUM	158	
JPCESCHE	181	
JPCESCHH	197	
JPCESCHJ	1A7	
JPCESTAT	138	
JPCESTQE	148	
JPCEXPLA	168	
JPCEXRSP	180	
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	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
Comment					
SPOOL MASK WORK AREA - USED WITH V=VOLSER OPERAND					
End of Comment					
312	(138)	BITSTRING	1	COMSPMSK	VOLUME SERIAL MASK
Comment					
SECURITY RELATED TOKEN OF ISSUER OF COMMAND					
End of Comment					
344	(158)	CHARACTER	80	COMSECT	SECURITY TOKEN
424	(1A8)	ADDRESS	4	COMSQD	ADDRESS OF SQD OR ZERO
428	(1AC)	BITSTRING	1	COMFLAG2	Second CMB flag (CMBFLAG2)
429	(1AD)	BITSTRING	3		Reserved
432	(1B0)	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					
436	(1B4)	SIGNED	4	COMENTBG	See above comment box
Comment					

Parameters for IEAVM173 (WPL message extract service)					

End of Comment					
440	(1B8)	ADDRESS	4	COMMLTEA	Address of MLTE
444	(1BC)	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					
492	(1EC)	SIGNED	4	COMWTOPL (0)	START OF WTO PARAMETERS
492	(1EC)	CHARACTER	1	COMFLAG	FLAGS FOR CMB
493	(1ED)	CHARACTER	1	COMLEVEL	LIST LEVEL AND PRIORITY
494	(1EE)	CHARACTER	1	COMTYPE	FORMAT TYPE
495	(1EF)	CHARACTER	1	COMML	LENGTH OF MESSAGE
496	(1F0)	SIGNED	4	(0)	
496	(1F0)	ADDRESS	3	COMTO (0)	TO SYSTEM NODE INFORMATION
496	(1F0)	SIGNED	2	COMTONOD	NODE NUMBER (BINARY)
498	(1F2)	BITSTRING	1	COMTOQUL	NODE QUALIFIER
499	(1F3)	BITSTRING	1	COMFLAG3	CMB General flag byte 3
500	(1F4)	CHARACTER	8	COMCART	COMMAND AND RESPONSE TOKEN
508	(1FC)	CHARACTER	1	COMUCM	FOR DOWN LEVEL COMPATIBILITY
509	(1FD)	CHARACTER	1	COMUCMA	MCS CONSOLE AREA
510	(1FE)	CHARACTER	2	COMLINET	LINE TYPE FOR MLWTO
512	(200)	CHARACTER	4	COMUCMID	4-BYTE MCS CONSOLE ID
516	(204)	CHARACTER	2	COMDESC	MCS DESCRIPTOR CODES
518	(206)	CHARACTER	2	COMROUT	MCS ROUTE CODES
520	(208)	CHARACTER	4	COMDOMID	MCS DOM ID
524	(20C)	SIGNED	2	COMRMT	REMOTE NUMBER
526	(20E)	CHARACTER	8	COMUSER	TSO USER ID
526	(20E)	X'2A'	0	COMWTOLG	"*-COMWTOPL" LENGTH OF WTO PARM LIST
534	(216)	ADDRESS	2	(0)	Verify that lengths of
534	(216)	ADDRESS	2	(0)	parameter lists are OK
534	(216)	BITSTRING	2		Reserved
536	(218)	DBL WORD	8	(0)	Align
536	(218)	BITSTRING	16	COMSTRT	Time command started
Comment					
FUNCTION WORK SPACE					
End of Comment					

\$COMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
552	(228)	CHARACTER	4	COMINCON	SOURCE CONSOLE UCMID
556	(22C)	CHARACTER	1	COMAUTH	SOURCE CONSOLE AUTHORITY
557	(22D)	CHARACTER	8	COMACEID	AUTOMATIC COMMAND ELEMENT ID
565	(235)	BITSTRING	3		Reserved
568	(238)	SIGNED	4	COMJROUT (0)	JOB QUEUING ROUTE CODE FROM CMB (BINARY)
568	(238)	SIGNED	2	COMJNOD	NODE ID
570	(23A)	SIGNED	2	COMJRMT	REMOTE ID
572	(23C)	SIGNED	4	COMJSCAT	SAVE AREA FOR \$CFJSCAN CAT
576	(240)	ADDRESS	4	COMCRQ	Command request block head
580	(244)	SIGNED	4	COMWORK	SINGLE PRECISION WORK AREA
584	(248)	DBL WORD	8	COMDWORK	DOUBLE PRECISION WORK AREA
592	(250)	DBL WORD	8	COMMREGS (2)	REGISTER SAVE AREA
608	(260)	SIGNED	4	COMFWORK	FULL WORD WORK AREA
612	(264)	ADDRESS	1	COMBWORK	ONE BYTE WORK AREA
613	(265)	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
614	(266)	BITSTRING	1	COMGFLG2	Command level general flag
Comment					
CPOFLAG and definitions for \$PQ and \$OQ commands					
End of Comment					
614	(266)	X'266'	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
Comment					
EQU B'00010000' Reserved					
End of Comment					
		.... 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
615	(267)	BITSTRING	1	COMGFLG3	More general flags (Cleared at HASPCOME)
		1...		COMG3ECH	"B'10000000" Command has been echoed
616	(268)	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
618	(26A)	CHARACTER	10	COMCONNM	SYMBOLIC CONSOLE NAME AND OUT-OF-LINE AREA
Comment					
COMMAND EDIT ROUTINE FLAGS					
End of Comment					
618	(26A)	X'246'	0	COMLFLG	"COMWORK+2" FLAG BYTE
618	(26A)	X'1'	0	COMLFLGR	"1" UCM CMD FROM REMOTE SYSTEM
618	(26A)	X'2'	0	COMLFLGC	"2" CONSOLE HAS BEEN SPECIFIED
618	(26A)	X'4'	0	COMLFLGA	"4" AREA HAS BEEN SPECIFIED

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
COMMAND INPUT PASSED TO \$SCAN					
End of Comment					
628	(274)	CHARACTER	132	COMINPUT	COMMAND INPUT PASSED TO \$SCAN
760	(2F8)	SIGNED	4	COMSDLCT	COUNT OF \$SCAN DISPLAY LINES
764	(2FC)	SIGNED	4	COMTDLCT	Count of total lines displayed for commands partially implemented via \$SCAN
768	(300)	ADDRESS	4	COMSTAB	Address of \$SCANTAB related to command
Comment					
COMMAND TEXT AREA					
End of Comment					
772	(304)	CHARACTER	2	COMMID	MESSAGE ID
772	(304)	X'304'	0	COMLENGTH	"COMMID" Command length
774	(306)	CHARACTER	1024	COMMAND	COMMAND AND MESSAGE AREA
774	(306)	X'307'	0	COMVERB	"COMMAND+1" LOCATION OF COMMAND VERB
774	(306)	X'308'	0	COMOPRND	"COMMAND+2" LOCATION OF FIRST OPERAND
774	(306)	X'3CE'	0	COMSAFL	"COMMAND+200,1" Length and command image
774	(306)	X'3CF'	0	COMSAFC	"COMSAFL+1,150" for \$SEAS CMDAUTH call
1798	(706)	CHARACTER	8	COMJNAME	MESSAGE AREA EXTENSION/JOBNAME
1806	(70E)	CHARACTER	8	COMPRVCM	Start of previous command
1814	(716)	CHARACTER	132	COMCURCM	Mirror of Command
1946	(79A)	SIGNED	2	COMMNDLN	Length of data in COMCURCM
1948	(79C)	ADDRESS	4	COMXWCA	Address of CXWC DSECT
1952	(7A0)	ADDRESS	4	COMLJBRG	Ptr to last job range
Comment					
OPERAND POINTER AREA					
End of Comment					
1956	(7A4)	SIGNED	4	COMPNTER (20)	AREA FOR OPERAND POINTERS
1956	(7A4)	X'50'	0	COMPNTRL	"*-COMPNTER" Length of operand ptr area
2036	(7F4)	ADDRESS	2	(0)	Force assembly error IF AREA TOO SMALL FOR USE BY \$DM
2036	(7F4)	SIGNED	4	COMNULOP	NULL OPERAND
2040	(7F8)	BITSTRING	20	COMPINDX	COMPNTER/CDUTABLE INDEX BYTES
2060	(80C)	SIGNED	4	(0)	
2060	(80C)	SIGNED	4	COMINXSV	SAVE AREA FOR COMPINDX POINTER
2064	(810)	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					
2068	(814)	BITSTRING	248	COMREGSV	REGISTER SAVE/WORK AREA
Comment					
----- COFRTR work area for route code ranges -----					
End of Comment					
2316	(90C)	BITSTRING	18	COMRWORK	WORK AREA FOR SUBMITTING EBCDIC ROUTES TO \$DEST/USERDEST

\$COMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2334	(91E)	BITSTRING .1..	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
2335	(91F)	BITSTRING	1	COMR1RPR	"B'00000001" INDICATES ROUTECODE CONTAINED (RESERVED FOR FUTURE USE
2336	(920)	CHARACTER	8	COMUWORK	HI-END USERID FROM \$DEST
2336	(920)	X'0'	0	COMNODE	"0,2,C'H" Offset/length of node
2336	(920)	X'2'	0	COMRMTE	"2,2,C'H" Offset/length of rmt
2336	(920)	X'4'	0	COMUSEID	"4,8,C'D" Offset/length of userid
2336	(920)	X'4'	0	COMNRLEN	"L'COMNODE+L'COMRMT" Length of node+remote
2336	(920)	X'8'	0	COMUCNT	"8" COUNTER FOR EXAMINING GENERIC USERIDS
2344	(928)	BITSTRING	1		Reserved
Comment					

More flag bytes					

End of Comment					
2345	(929)	BITSTRING 1...	1	COMSFLG1 COMS1WT	Flag byte for specific cmds "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
2346	(92A)	BITSTRING	1	COMSTABP	COMPCE id from STAB
2347	(92B)	BITSTRING	1		Reserved for future use
Comment					

\$CFSEL macro/service routine communication area					

End of Comment					
2348	(92C)	ADDRESS	4	COMSCOTE	Address of current entry in operand pointer table
2352	(930)	ADDRESS	4	COMSRTNA	Address of selected routine (or zero if no match)
2356	(934)	SIGNED	4	COMSSLEN	Length of matching string (or zero if no match)
2360	(938)	SIGNED	4	COMSRLEN	Residual operand length (or input operand length if no match)

Offsets

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

Area for specifications for filter type operands					

End of Comment					
2364	(93C)	CHARACTER	8	COMJNAM	STORE OUTPUT JOE NAME
2372	(944)	SIGNED	2	COMJID1	STORE OUTPUT JOE 1ST ID
2374	(946)	SIGNED	2	COMJID2	STORE OUTPUT JOE 2ND ID
Comment					

\$TO AND \$R WORK AREA FOR JOES					

End of Comment					
2376	(948)	SIGNED	4	(0)	Word alignment
2376	(948)	ADDRESS	4	COMJOAA	Address of JOA
2380	(94C)	BITSTRING	1	COMLFLG	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					
2381	(94D)	BITSTRING	2		Reserved for future use
2383	(94F)	BITSTRING	1	COMQUE	Requested Queue
Comment					

Free JOE work area					

End of Comment					
2384	(950)	SIGNED	4	COMFJOEL	Indx of lowest JOE to free
2388	(954)	SIGNED	4	COMFJOEH	Indx of highest JOE to free
2388	(954)	X'950'	0	COMFJOEW	"COMFJOEL,*-COMFJOEL,C'F" Composite field
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					
2392	(958)	BITSTRING	4	COMAFMSK	System affinity mask
2396	(95C)	BITSTRING	1	COMOSAFM	Old system affinity mask

\$COMWORK Map

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

ENQ/DEQ parameter lists					

MACRO-DATE = 06/24/03					
End of Comment					
2400	(960)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2400	(960)	X'960'	0	COMRDRNQ	*** X02113
2400	(960)	ADDRESS	1		PELLAST flag byte. X02113
2401	(961)	ADDRESS	1		PELMILEN - RNAME length.
2402	(962)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
2403	(963)	ADDRESS	1		PELRET - return code byte.
2404	(964)	ADDRESS	4		QNAME ADDRESS
2408	(968)	ADDRESS	4		RNAME ADDRESS
2408	(968)	X'C'	0	COMENQL	**"-COMRDRNQ" Length of ENQ
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
2412	(96C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2412	(96C)	X'96C'	0	COMRDRDQ	*** X02113
2412	(96C)	ADDRESS	1		PELLAST flag byte. X02113
2413	(96D)	ADDRESS	1		PELMILEN - RNAME length.
2414	(96E)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
2415	(96F)	ADDRESS	1		PELRET - return code byte.
2416	(970)	ADDRESS	4		QNAME ADDRESS
2420	(974)	ADDRESS	4		RNAME ADDRESS
2420	(974)	X'C'	0	COMDEQL	**"-COMRDRDQ" Length of DEQ
2420	(974)	X'840'	0	COMMAXL	**"-PCEWORK" Maximum length of COMWORK
Comment					

Beginning of remappings of existing areas.					

SUBSYSTEM-INDEPENDENT (SSI) FORMATTED COMMAND AREA					

End of Comment					
2068	(814)	BITSTRING	40	COMFCMDA (0)	FORMATTED COMMAND AREA
2068	(814)	CHARACTER	1	COMFOP	FORMATTED COMMAND OPTION CODE
2069	(815)	CHARACTER	1	COMFFLG	FORMATTED COMMAND FLAG BYTE
2070	(816)	SIGNED	2	COMFJID	JOB IDENTIFICATION
2072	(818)	CHARACTER	8	COMFORGN	ORIGINATING NODE NAME
2080	(820)	CHARACTER	8	COMFJNAM	JOB NAME
2088	(828)	CHARACTER	8	COMFD	DESTINATION NODE NAME (ROUTE CMD)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2096	(830)	CHARACTER	8	COMFR	REMOTE NAME (ROUTE CMD)
2104	(838)	SIGNED	4	COMFJNO	Job number identifier
2104	(838)	X'83C'	0	COMFEND	*** END OF FORMATTED COMMAND AREA
2104	(838)	X'28'	0	COMFL	**-COMFOP" LENGTH OF FORMATTED CMD AREA
2108	(83C)	ADDRESS	2	(0)	Ensure area fits within COMREGSV

Comment

 SSI FORMATTED CMD WORKAREA (USED BY HASPCFCP)

End of Comment

1956	(7A4)	CHARACTER	80	COSIWORK (0)	
1956	(7A4)	BITSTRING	40	COSICMDA (0)	FORMATTED COMMAND AREA
1956	(7A4)	CHARACTER	1	COSIOP	FORMATTED COMMAND OPTION CODE
1957	(7A5)	CHARACTER	1	COSIFLG	FLAG BYTE (SEE COMFFLG DEF.)
1958	(7A6)	SIGNED	2	COSIJID	JOB IDENTIFICATION
1960	(7A8)	CHARACTER	8	COSIORGN	ORIGINATING NODE NAME
1968	(7B0)	CHARACTER	8	COSIJNAM	JOB NAME
1976	(7B8)	CHARACTER	8	COSID	DESTINATION NODE NAME (ROUTE CMD)
1984	(7C0)	CHARACTER	8	COSIR	REMOTE NAME (ROUTE CMD)
1992	(7C8)	SIGNED	4	COSIJNO	Job number identifier
1992	(7C8)	X'7CC'	0	COSIEND	*** END OF FORMATTED COMMAND AREA
1992	(7C8)	X'28'	0	COSIL	** -COSICMDA" LENGTH OF FORMATTED CMD AREA
1996	(7CC)	SIGNED	4	COSILINK	USED TO SAVE LINK REGISTER
2000	(7D0)	SIGNED	4	COSIJQER	USED TO SAVE PTR TO JQE
2004	(7D4)	SIGNED	4	COSISAV0	USED TO SAVE R0 CONTENTS
2008	(7D8)	SIGNED	2	COSINOD#	ORIGINATING NODE # (BINARY)
2010	(7DA)	CHARACTER	1	COSIEFOP	EFFECTIVE CMD OPTION CODE
2011	(7DB)	BITSTRING	1		RESERVED FOR FUTURE USE
2011	(7DB)	X'38'	0	COMSIL	** -COSIWORK" Length of this remapping
2012	(7DC)	ADDRESS	2	(0)	Ensure area fits within COMPENTER

Comment

COMFOP DEFINITIONS

End of Comment

2012	(7DC)	X'1'	0	COMFOPD	"1" DISPLAY JOB COMMAND (\$GD)
2012	(7DC)	X'2'	0	COMFOPC	"2" CANCEL JOB COMMAND (\$GC)
2012	(7DC)	X'3'	0	COMFOPA	"3" RELEASE JOB COMMAND (\$GA)
2012	(7DC)	X'4'	0	COMFOPH	"4" HOLD JOB COMMAND (\$GH)
2012	(7DC)	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

2068	(814)	SIGNED	4	CRXWORKA (0)	\$R COMMAND WORK AREA
2068	(814)	SIGNED	4	CRXOLDRT	SAVE AREA FOR OLD ROUTECDE

\$COMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2072	(818)	SIGNED	4	CRXNEWRT	SAVE AREA FOR NEW ROUTECDE
2076	(81C)	SIGNED	4	CRXCLSPT	SAVE AREA FOR CLASS PTR
2080	(820)	SIGNED	4	CRXJBNUM	SAVE AREA FOR JOB NUMBER
2084	(824)	BITSTRING	1	CRXOUTD	OUTDISP PROCESSING FLAGS
		1... ..		CRXODLST	"B'10000000" PARENTHEZIZED OPERAND LIST CURRENTLY BEING PROCESSED
2084	(824)	X'8'	0	CRXODW	"\$ODWRITE" PROCESS OUTDISP=WRITE
2084	(824)	X'4'	0	CRXODH	"\$ODHOLD" PROCESS OUTDISP=HOLD
2084	(824)	X'2'	0	CRXODK	"\$ODKEEP" PROCESS OUTDISP=KEEP
2084	(824)	X'1'	0	CRXODL	"\$ODLEAVE" PROCESS OUTDISP=LEAVE
2084	(824)	X'F'	0	CRXODANY	"\$ODANY" ANY OUTDISP SETTINGS
2085	(825)	BITSTRING	1	CRXFLAG1	\$R command flag byte
		1... ..		CRX1GENC	"B'10000000" CRXOLDUS contains generic characters ('*' or '?')
2086	(826)	BITSTRING	37	CRXCLASL	Q= CLASS LIST (36 + BLANK)
2124	(84C)	SIGNED	4	(0)	FULL WORD ALIGNMENT
2124	(84C)	CHARACTER	8	CRXOLDUS	SAVE AREA FOR OLD ROUTE CD
2132	(854)	CHARACTER	8	CRXNEWUS	SAVE AREA FOR NEW ROUTE CD
2140	(85C)	CHARACTER	8	CRXNEWND	SAVE AREA FOR NEW NODE NAME
2140	(85C)	X'50'	0	CRXLEN	**CRXWORKA" LENGTH OF \$R WORK AREA
2148	(864)	ADDRESS	2	(0)	CHECK FOR OVERLAP

Comment

MESSAGE TEXT FOR PRMODE SYSTEM TABLE ERROR

End of Comment

774	(306)	CHARACTER	66	CTPRTEXT	PRMODE TABLE MESSAGE
840	(348)	ADDRESS	2	(0)	Generate assembly error if L'CTPRTEXT exceeds L'COMMAND

Comment

Flag byte for PREJOE, PREJQE and PSTCFVQE

End of Comment

2168	(878)	BITSTRING	1	CRJFLAG	Flags for JOE/JQE commands
2168	(878)	X'65'	0	CRJLEN	**COMREGSV" Length of remapped area
2170	(87A)	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

2170	(87A)	X'810'	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
2170	(87A)	X'811'	0	CDUDEVTP	"COMOPFLG+1" TYPE-GROUP DCT TYPE
2170	(87A)	X'812'	0	CDUMASK	"COMOPFLG+2" BRANCH MASK VALUE
2170	(87A)	X'813'	0	CDUFLAG2	"COMOPFLG+3" CDUFLAG2 DEFINITION
		1... ..		CDUFLSUB	"B'10000000" RMT SUB-DSPLY IN PROGR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		CDUFLONG	"B'01000000" FORCE LONG DISPLAY
		.1.		CDUFLFND	"B'00100000" DEVICE FOUND IN DSPY
		...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
2170	(87A)	X'814'	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
2170	(87A)	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
2170	(87A)	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
2170	(87A)	X'E7'	0	COFQ	"COFJ+COFI+COFO+COFP" DISPLAY QUEUED JOBS
2170	(87A)	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

2170	(87A)	X'306'	0	COFJOB	"COMMAND,3" TEXT 'JOB', 'STC', OR 'TSU'
2170	(87A)	X'309'	0	COFJNO	"COFJOB+3,5" JOB NUMBER WITH LEADING BLANK
2170	(87A)	X'30F'	0	COFJNAME	"COFJNO+6,8" JOB NAME

Comment

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

End of Comment

2170	(87A)	X'318'	0	COFQUE	"COFJNAME+9,8" TEXT 'AWAITING'
2170	(87A)	X'6E8'	0	COFOPT	"COMMAND+L'COMMAND-30,1" OPTION SPECIFIED

\$COMWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2170	(87A)	X'6E9'	0	COFNULL	"COFOPT+1,1" Place holder for COFAFF
2170	(87A)	X'6EA'	0	COFOPT2	"COFNULL+1,1" 2ND OPTION FLAG
2170	(87A)	X'6EB'	0	COFSECF	"COFOPT2+1,4" SECURITY FIELD FOR \$WTO'S
2170	(87A)	X'6EF'	0	COFLNGTH	"COFSECF+4,2" LENGTH OF MSG
2170	(87A)	X'3EB'	0	COFSIZE	"COFLNGTH+L'COFLNGTH-COFJOB" Size of work area
2170	(87A)	CHARACTER	1	(0)	Ensure work area fits within COMMAND field
2170	(87A)	X'95C'	0	COFAFF	"COMOSAFM" System affinity mask
2170	(87A)	X'958'	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.

End of Comment

312	(138)	BITSTRING	2112		Account for largest section
2424	(978)	SIGNED	4	(0)	Ensure full-word align
2424	(978)	X'840'	0	COMPCEWS	"*-PCEWORK" LENGTH OF WORK AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	COMREQ	Command Request block DSECT
0	(0)	CHARACTER	4	CRQID	Eyecatcher
4	(4)	ADDRESS	4	CRQNEXT	Next request on queue
8	(8)	BITSTRING	42	CRQWTOPL	Long WTO parm list
50	(32)	BITSTRING	82	CRQSECT	Security token
132	(84)	SIGNED	4	(0)	Set alignment
132	(84)	CHARACTER	4	CRQINCON	Input console UCMID
136	(88)	CHARACTER	1	CRQAUTH	Input console authority
137	(89)	BITSTRING	1	CRQGFLG1	General flag byte
138	(8A)	BITSTRING	1	CRQFLAG2	Second CMB flag
139	(8B)	BITSTRING	1		Reserved
140	(8C)	SIGNED	4	CRQJROUT	Route code from CMB
144	(90)	SIGNED	2	CRQLCCA	Flags and area of 'L=CCA'
146	(92)	SIGNED	2	CRQCMDLN	Command length
148	(94)	CHARACTER	10	CRQCONNM	Symbolic console name/area
158	(9E)	BITSTRING	2		Reserved
160	(A0)	CHARACTER	132	CRQCMD	Command
292	(124)	SIGNED	4	CRQPNTER (21)	Area for operand pointers
376	(178)	SIGNED	4	CRQLPTR	Offset of ptr to last oper
376	(178)	X'17C'	0	CRQLEN	"*-COMREQ" Length of request list

\$COMWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CDUDEVN	87A	814	CDUFLOPR	87A	10
CDUDEVTP	87A	811	CDUFLRAT	87A	10
CDUFLACT	87A	8	CDUFLRMT	87A	20
CDUFLAG1	87A	810	CDUFLSHT	87A	2
CDUFLAG2	87A	813	CDUFLSTR	87A	4
CDUFLCLS	87A	4	CDUFLSUB	87A	80
CDUFLFND	87A	20	CDUFLTYP	87A	C0
CDUFLGRP	87A	80	CDUFXSUB	87A	1
CDUFLLU	87A	2	CDUMASK	87A	812
CDUFLMOD	87A	1	COFA	87A	1F
CDUFLONE	87A	8	COFAFF	87A	95C
CDUFLONG	87A	40	COFAFWRK	87A	958

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
COFD	87A	10	COMFR	830	
COFI	87A	20	COMFWORK	260	
COFJ	87A	7	COMGFLG1	265	
COFJNAME	87A	30F	COMGFLG2	266	
COFJNO	87A	309	COMGFLG3	267	
COFJOB	87A	306	COMG1\$MN	265	4
COFLNGFG	87A	1	COMG1APO	265	80
COFLNGTH	87A	6EF	COMG1CON	265	10
COFN	87A	1	COMG1PAR	265	20
COFNUL	87A	6E9	COMG1REQ	265	40
COFO	87A	40	COMG1SJR	265	1
COFOPT	87A	6E8	COMG1SSI	265	8
COFOPT2	87A	6EA	COMG1UAC	265	2
COFP	87A	80	COMG3ECH	267	80
COFPREFX	87A	2	COMINCON	228	
COFQ	87A	E7	COMINPUT	274	
COFQUE	87A	318	COMINXSV	80C	
COFS	87A	2	COMJID1	944	
COFSECF	87A	6EB	COMJID2	946	
COFSIZE	87A	3EB	COMJNAM	93C	
COFT	87A	4	COMJNAME	706	
COFU	87A	FF	COMJNOD	238	
COFX	87A	8	COMJOOA	948	
COMACEID	22D		COMJRMT	23A	
COMAFMSK	958		COMJRROUT	238	
COMAUTH	22C		COMJSCAT	23C	
COMBWORK	264		COMLCCA	268	
COMCART	1F4		COMLEVEL	1ED	
COMCONNM	26A		COMLFLG	26A	246
COMCRQ	240		COMLFLGA	26A	4
COMCURCM	716		COMLFLGC	26A	2
COMDEQL	974	C	COMLFLGR	26A	1
COMDESC	204		COMLINET	1FE	
COMDOMID	208		COMLJBRG	7A0	
COMDWORK	248		COMLNGTH	304	304
COMENQL	968	C	COMLTFLG	94C	
COMENTBG	1B4		COMLTMAX	94C	80
COMework	244		COMMAND	306	
COMFCMDA	814		COMMAXL	974	840
COMFD	828		COMMID	304	
COMFEND	838	83C	COMML	1EF	
COMFFLG	815		COMMLTE	1BC	
COMFFLGD	7DC	40	COMMLTEA	1B8	
COMFFLGJ	268	3	COMMNDLN	79A	
COMFFLGN	7DC	20	COMNODE	920	0
COMFFLGO	7DC	80	COMNLEN	920	4
COMFFLGS	268	1	COMNULOP	7F4	
COMFFLGT	268	2	COMOPFLG	810	
COMFJID	816		COMOPRND	306	308
COMFJNAM	820		COMOSAFM	95C	
COMFJNO	838		COMPCEWS	978	840
COMFJOEH	954		COMPINDX	7F8	
COMFJOEL	950		COMPNTER	7A4	
COMFJOEW	954	950	COMPNTRL	7A4	50
COMFL	838	28	COMPRVCM	70E	
COMFLAG	1EC		COMPXEQ	1B0	
COMFLAG2	1AC		COMQUE	94F	
COMFLAG3	1F3		COMRDRDQ	96C	96C
COMFOP	814		COMRDRNQ	960	960
COMFOPA	7DC	3	COMREGSV	814	
COMFOPC	7DC	2	COMREQ	0	
COMFOPD	7DC	1	COMRFLG1	91E	
COMFOPH	7DC	4	COMRMT	20C	
COMFOPR	7DC	5	COMRMTE	920	2
COMFORGN	818		COMROUT	206	

\$COMWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
COMRWORK	90C		CPOFAGHR	266	4
COMR1DFT	91E	8	CPOFALL	266	8
COMR1GEN	91E	4	CPOFCLS	266	80
COMR1GNA	91E	2	CPOFCNCL	266	40
COMR1GNC	91E	40	CPOFLAG	266	266
COMR1RAL	91E	10	CPOFNJO	266	1
COMR1RPR	91E	1	CPOFQR	266	2
COMR1UNN	91E	20	CPOFRTE	266	20
COMSAFC	306	3CF	CRJFLAG	878	
COMSAFL	306	3CE	CRJFLGCF	87A	80
COMSCOTE	92C		CRJLEN	878	65
COMSDLCT	2F8		CRQAUTH	88	
COMSECT	158		CRQCMD	A0	
COMSFLG1	929		CRQCMDLN	92	
COMSIL	7DB	38	CRQCONNM	94	
COMSPMSK	138		CRQFLAG2	8A	
COMSQD	1A8		CRQGFLG1	89	
COMSRLEN	938		CRQID	0	C3D9D840
COMSRTNA	930		CRQINCON	84	
COMSSLEN	934		CRQJROUT	8C	
COMSTAB	300		CRQLCCA	90	
COMSTABP	92A		CRQLEN	178	17C
COMSTRT	218		CRQLPTR	178	
COMS1FLT	929	2	CRQNEXT	4	
COMS1HIT	929	10	CRQPENTER	124	
COMS1JQ	929	40	CRQSECT	32	
COMS1JST	929	20	CRQWTOPL	8	
COMS1MAX	929	4	CRXCLASL	826	
COMS1RBD	929	1	CRXCLSPT	81C	
COMS1RTS	929	8	CRXFLAG1	825	
COMS1WT	929	80	CRXJBNUM	820	
COMTDLCT	2FC		CRXLEN	85C	50
COMTO	1F0		CRXNEWND	85C	
COMTONOD	1F0		CRXNEWRT	818	
COMTOQUL	1F2		CRXNEWUS	854	
COMTYPE	1EE		CRXODANY	824	F
COMUCM	1FC		CRXODH	824	4
COMUCMA	1FD		CRXODK	824	2
COMUCMID	200		CRXODL	824	1
COMUCNT	920	8	CRXODLST	824	80
COMUSEID	920	4	CRXODW	824	8
COMUSER	20E		CRXOLDRT	814	
COMUWORK	920		CRXOLDUS	84C	
COMVERB	306	307	CRXOUTD	824	
COMWREGS	250		CRXWORKA	814	
COMWTOLG	20E	2A	CRX1GENC	825	80
COMWTOPL	1EC		CTPRTEXT	306	
COMXWCA	79C		PCE	0	
COSICMDA	7A4				
COSID	7B8				
COSIEFOP	7DA				
COSIEND	7C8	7CC			
COSIFLG	7A5				
COSIJID	7A6				
COSIJNAM	7B0				
COSIJNO	7C8				
COSIJQER	7D0				
COSIL	7C8	28			
COSILINK	7CC				
COSINOD#	7D8				
COSIOP	7A4				
COSIORGN	7A8				
COSIR	7C0				
COSISAV0	7D4				
COSIWORK	7A4				

\$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: CPCWPARAM
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	CPCWPARAM	, CPOOL QCELL Work Mapping
0	(0)	ADDRESS	8	CPCWCELL_64	Cell address (64-bit)
0	(0)	X'4'	0	CPCWCELL	"CPCWCELL_64+4,4,C'A" 31-bit version
8	(8)	DBL WORD	8	CPCWSTAT_64	Cell status (64-bit)
8	(8)	X'C'	0	CPCWSTAT	"CPCWSTAT_64+4,4,C'F" 31-bit version
16	(10)	SIGNED	4	CPCWXNUM	Extent number for cell
20	(14)	SIGNED	4	CPCWRC	MVS service return code
24	(18)	SIGNED	4	CPCALET	ALET of cell
24	(18)	X'1C'	0	CPCWSIZE	**CPCWPARAM" 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: CPEID-CPEBE
 Length: 4

Storage Attributes: Subpool: any
 Key: any
 Residency: Same as extent storage for cell pool The CPEBE (and the CPEB which follows) must be obtained on a quadword boundary.

Size: See CPESIZE
Created by: CPEXPAND Routine in HASCPOOL
 (Main Task and User environments)
Pointed to by: CPEDNEXT field of the \$CPEBE data area
 CPENEXT field of the \$CPEBE data area
 CPMCPEBE field of the \$CPMASTR data area
 CPMCPEDS field of the \$CPMASTR data area
Serialization: ENQ ducing CPEXPAND
Function: The \$CPEBE mapping is used to mapped over storage th contains information on Cell Pool extents.

\$CPEBE Map

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

\$CPEBE Cross Reference

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

\$CPEBE Cross Reference

\$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 HASCPPOOL
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 CPMASSTR addr, subpool BATPOOL
8	(8)	ADDRESS	4	CPIBSC	BSC CPMASSTR addr, subpool BSCPOOL
12	(C)	ADDRESS	4	CPICB	CB CPMASSTR addr, subpool CBPOOL
16	(10)	ADDRESS	4	CPICDCT	CDCT CPMASSTR addr, location CSA64
16	(10)	X'10'	0	CPICDCT_C	"CPICDCT,4,C'A" CDCT Common pool equate
20	(14)	ADDRESS	4	CPICDCTQS	CDCTQS CPMASSTR addr, location CSA64
20	(14)	X'14'	0	CPICDCTQS_C	"CPICDCTQS,4,C'A" CDCTQS Common pool equate
24	(18)	ADDRESS	4	CPICDCTRNT	CDCTRNT CPMASSTR addr, location CSA64
24	(18)	X'18'	0	CPICDCTRNT_C	"CPICDCTRNT,4,C'A" CDCTRNT Common pool equate
28	(1C)	ADDRESS	4	CPICID	CID CPMASSTR addr, subpool CIDPOOL
32	(20)	ADDRESS	4	CPICMB	CMB CPMASSTR addr, subpool CMBPOOL

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	ADDRESS	4	CPICNIT	CNIT CPMASSTR addr, location CSA64
36	(24)	X'24'	0	CPICNIT_C	"CPICNIT,4,C'A" CNIT Common pool equate
40	(28)	ADDRESS	4	CPIGPQE	GPQE CPMASSTR addr, subpool GPQPOOL
44	(2C)	ADDRESS	4	CPIEVT	EVT CPMASSTR addr, location DATASPACE
44	(2C)	X'2C'	0	CPIEVT_C	"CPIEVT,4,C'A" EVT Common pool equate
48	(30)	ADDRESS	4	CPIHASP	HASP CPMASSTR addr, subpool HASPOOL
52	(34)	ADDRESS	4	CPIHEDR	HEDR CPMASSTR addr, subpool HEDRPOOL
56	(38)	ADDRESS	4	CPIICE	ICE CPMASSTR addr, subpool ICEPOOL
60	(3C)	ADDRESS	4	CPIIRE	IRE CPMASSTR addr, location CSA
60	(3C)	X'3C'	0	CPIIRE_C	"CPIIRE,4,C'A" IRE Common pool equate
64	(40)	ADDRESS	4	CPIJQRB	JQRB CPMASSTR addr, location DATASPACE
64	(40)	X'40'	0	CPIJQRB_C	"CPIJQRB,4,C'A" JQRB Common pool equate
68	(44)	ADDRESS	4	CPINAT	NAT CPMASSTR addr, location DATASPACE
68	(44)	X'44'	0	CPINAT_C	"CPINAT,4,C'A" NAT Common pool equate
72	(48)	ADDRESS	4	CPIB32K	B32K CPMASSTR addr, subpool B32KPOOL
76	(4C)	ADDRESS	4	CPINMAP	NMAP CPMASSTR addr, subpool NMAPPOOL
80	(50)	ADDRESS	4	CPINSA	NSA CPMASSTR addr, subpool NSAPPOOL
84	(54)	ADDRESS	4	CPINTQ	NTQ CPMASSTR addr, subpool NTQPOOL
88	(58)	ADDRESS	4	CPIPAGE	PAGE CPMASSTR addr, subpool PAGEPOOL
92	(5C)	ADDRESS	4	CPIPCL	PCL CPMASSTR addr, location DATASPACE
92	(5C)	X'5C'	0	CPIPCL_C	"CPIPCL,4,C'A" PCL Common pool equate
96	(60)	ADDRESS	4	CPIPP	PP CPMASSTR addr, subpool PPPOOL
100	(64)	ADDRESS	4	CPIPSO	PSO CPMASSTR addr, location DATASPACE
100	(64)	X'64'	0	CPIPSO_C	"CPIPSO,4,C'A" PSO Common pool equate
104	(68)	ADDRESS	4	CPIRNT	RNT CPMASSTR addr, subpool RNTPOOL
108	(6C)	ADDRESS	4	CPIRDT	RDT CPMASSTR addr, location DATASPACE
108	(6C)	X'6C'	0	CPIRDT_C	"CPIRDT,4,C'A" RDT Common pool equate
112	(70)	ADDRESS	4	CPISAPID	SAPID CPMASSTR addr, location DATASPACE
112	(70)	X'70'	0	CPISAPID_C	"CPISAPID,4,C'A" SAPID Common pool equate
116	(74)	ADDRESS	4	CPISCSWA	SCWA CPMASSTR addr, subpool SCWAPOOL
120	(78)	ADDRESS	4	CPISCSWADSP	SCWADSP CPMASSTR addr, subpool SCWDPOOL
124	(7C)	ADDRESS	4	CPISJIO	SJIO CPMASSTR addr, subpool 230
128	(80)	ADDRESS	4	CPISMF	SMF CPMASSTR addr, subpool SMFPOOL
132	(84)	ADDRESS	4	CPISQD	SQD CPMASSTR addr, subpool SQDPOOL
136	(88)	ADDRESS	4	CPISTAC	STAC CPMASSTR addr, location DATASPACE
136	(88)	X'88'	0	CPISTAC_C	"CPISTAC,4,C'A" STAC Common pool equate
140	(8C)	ADDRESS	4	CPITBUF	TBUF CPMASSTR addr, location DATASPACE
140	(8C)	X'8C'	0	CPITBUF_C	"CPITBUF,4,C'A" TBUF Common pool equate
144	(90)	ADDRESS	4	CPITJEV	TJEV CPMASSTR addr, location DATASPACE
144	(90)	X'90'	0	CPITJEV_C	"CPITJEV,4,C'A" TJEV Common pool equate
148	(94)	ADDRESS	4	CPITRE	TRE CPMASSTR addr, subpool 230
152	(98)	ADDRESS	4	CPIVTAM	VTAM CPMASSTR addr, subpool VTAMPOOL
156	(9C)	ADDRESS	4	CPIWTO	WTO CPMASSTR addr, location DATASPACE
156	(9C)	X'9C'	0	CPIWTO_C	"CPIWTO,4,C'A" WTO Common pool equate
160	(A0)	ADDRESS	4	CPIXRQ	XRQ CPMASSTR addr, subpool XRQPOOL
160	(A0)	X'A0'	0	CPISTEND	"*-CPISTART" Size of the CPLTABS
160	(A0)	X'A4'	0	CPISTD	"*-CPINDEX" Size of the standard cell types
160	(A0)	X'4'	0	CPIOFLEN	"4" Length of offset field
164	(A4)	SIGNED	4	CPIWSTRT (0)	Start of the work cell types
164	(A4)	ADDRESS	4	CPIWORK (0)	User-defined CPMASSTR's
164	(A4)	X'F54'	0	CPIWLEN	"*-CPIWSTRT" Size of the work cell types
164	(A4)	X'FF8'	0	CPILEN	"4096-\$CSBPRFX" Size of the CPINDEX table

\$CPINDEX Cross Reference

\$CPINDEX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CPIBAT	4		CPIVRSN	0	
CPIBSC	8		CPIVTAM	98	
CPIB32K	48		CPIWLEN	A4	F54
CPICB	C		CPIWORK	A4	
CPICDCT	10		CPIWSTRT	A4	
CPICDCT_C	10	10	CPIWTO	9C	
CPICDCTQS	14		CPIWTO_C	9C	9C
CPICDCTQS_C	14	14	CPIXRQ	A0	
CPICDCTRNT	18		CPI1CSA	2	40
CPICDCTRNT_C	18	18			
CPICID	1C				
CPICMB	20				
CPICNIT	24				
CPICNIT_C	24	24			
CPIEMPTY	2	80			
CPIEVT	2C				
CPIEVT_C	2C	2C			
CPIFLAG1	2				
CPIFLAG2	3				
CPIGPQE	28				
CPIHASP	30				
CPIHEDR	34				
CPIICE	38				
CPIIRE	3C				
CPIIRE_C	3C	3C			
CPIJQRB	40				
CPIJQRB_C	40	40			
CPILEN	A4	FF8			
CPILOCK	1				
CPINAT	44				
CPINAT_C	44	44			
CPINDEX	0				
CPINMAP	4C				
CPINSA	50				
CPINTQ	54				
CPIOFLEN	A0	4			
CPIPAGE	58				
CPIPCL	5C				
CPIPCL_C	5C	5C			
CPIPP	60				
CPIPSO	64				
CPIPSO_C	64	64			
CPIRDT	6C				
CPIRDT_C	6C	6C			
CPIRNT	68				
CPISAPID	70				
CPISAPID_C	70	70			
CPISCWA	74				
CPISCWADSP	78				
CPISJIO	7C				
CPISMF	80				
CPISQD	84				
CPISTAC	88				
CPISTAC_C	88	88			
CPISTART	4				
CPISTD	A0	A4			
CPISTEND	A0	A0			
CPITBUF	8C				
CPITBUF_C	8C	8C			
CPITJEV	90				
CPITJEV_C	90	90			
CPITRE	94				
CPIVNUM	0	1			

\$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: CPMASSTR
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'CPMR'
 Offset: CPMID-CPMASTR
 Length: 4

Storage Attributes: Subpool: 231
 Key: 1
 Residency: Extended private

Size: See CPMSIZE

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

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

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

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

\$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 CPMASSTR
12	(C)	CHARACTER	8	CPMTYPE	Cell Type
20	(14)	CHARACTER	8	CPMDSPN	Data space name
28	(1C)	SIGNED	4	CPMCSIZE	Cell Size
32	(20)	BITSTRING	1	CPMFLAG1	CPMASTR processing flags
		1...		CPM1FALL	"B'10000000" FREEMAIN setup storage
		.1.		CPM1ALTP	"B'01000000" Alternate cell pool
		..1.		CPM1REAL	"B'00100000" The real CPMASSTR
		...1		CPM1PRIM	"B'00010000" Primary extent allocated
33	(21)	BITSTRING	1	CPMFLAG2	CPMASTR pool attribute flag
		1...		CPM2CP64	"B'10000000" Storage is above the bar
		.1..		CPM2CP31	"B'01000000" Storage is above the line
		..1.		CPM2CP24	"B'00100000" Storage is below the line
		...1		CPM2DSP	"B'00010000" Cell pool in a data space
		.... 1...		CPM2CSA	"B'00001000" Cell pool is in common
		.... .1..		CPM2NCLR	"B'00000100" Don't clear cell storage between uses (up to caller to clear)
		.... ..1.		CPM2RANY	"B'00000010" Real storage can be above
		.... ...1		CPM2GDBS	"B'00000001" Cell Don't have grd bytes
34	(22)	BITSTRING	1	CPMFLAG3	CPMASTR data space flags (Flags must be the same as in DSWAIFL2)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		CPM3FPRO	"B'10000000" FPROT=YES specified
		.1..		CPM3NPRO	"B'01000000" FPROT=NO specified
		..1.		CPM3MSTR	"B'00100000" OWNER=MASTER specified
		...1		CPM3CURR	"B'00010000" OWNER=CURRENT specified
		.... 1..		CPM3AUX	"B'00001000" OWNER=AUX specified
		.... .1..		CPM3LOCL	"B'00000100" SCOPE=LOCAL specified
		.... ..1.		CPM3ALL	"B'00000010" SCOPE=ALL specified
		.... ...1		CPM3COMM	"B'00000001" SCOPE=COMMON specified
35	(23)	BITSTRING	1		Reserved for future use
36	(24)	SIGNED	4	CPMGEND (0)	End of general CPMASTR
36	(24)	SIGNED	4	CPMLIMIT	Max limit for num of cell
40	(28)	SIGNED	4	CPMPRMSZ	Primary extent size (cells)
44	(2C)	SIGNED	4	CPMSECSZ	Secondary ext size (cells)
44	(2C)	X'30'	0	CPMTSIZE	"*-CPMASTR" CPMASTR portion that maps over CPLTAB
48	(30)	SIGNED	2	CPMLEN	Length of storage area (Includes CPMASTR and a CPAB that follows)
50	(32)	SIGNED	2		Reserved for future use
52	(34)	ADDRESS	4	CPMCPAB	CPAB addr
56	(38)	ADDRESS	4	CPMCPINX	CPINDEX addr
60	(3C)	ADDRESS	4	CPMTCBAD	TCB Address to use with STORAGE OBTAIN
64	(40)	ADDRESS	8	CPMCPEBE	Addr to first CPEBE
72	(48)	ADDRESS	8	CPMCPEDS	Chain of CPEBEs that represent disconnected extents (CDS to modify)
80	(50)	SIGNED	4	CPMALLOC	Num of allocated cells
84	(54)	BITSTRING	8	CPM64TOK	User token for shared 64 pl

Comment

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

End of Comment

92	(5C)	ADDRESS	4	CPMDSB	DSB address
96	(60)	DBL WORD	8	CPMDSPOL (0)	+-- Dataspace work storage pool
96	(60)	ADDRESS	4	CPMDSSTR	| Addr of available Block of | storage
100	(64)	SIGNED	4	CPMDSLEN	+-- Length of storage block
100	(64)	X'68'	0	CPMSIZE	"*-CPMASTR" Size of the CPMASTR

\$CPMASTR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CPMALLOC	50		CPMSECSZ	2C	
CPMASTR	0		CPMSIZE	64	68
CPMCPAB	34		CPMSUBP	6	
CPMCPEBE	40		CPMSUBP2	5	
CPMCPEDS	48		CPMTCBAD	3C	
CPMCPINX	38		CPMTSIZE	2C	30
CPMCSIZE	1C		CPMTYPE	C	
CPMDSB	5C		CPMVNUM	4	2
CPMDSLEN	64		CPMVRSN	4	
CPMDSPN	14		CPM1ALTP	20	40
CPMDSPOL	60		CPM1FALL	20	80
CPMDSSTR	60		CPM1PRIM	20	10
CPMFLAG1	20		CPM1REAL	20	20
CPMFLAG2	21		CPM2CP24	21	20
CPMFLAG3	22		CPM2CP31	21	40
CPMGEND	24		CPM2CP64	21	80
CPMID	0	C3D7D4D9	CPM2CSA	21	8
CPMKEY	7		CPM2DSP	21	10
CPMLEN	30		CPM2GDBS	21	1
CPMLIMIT	24		CPM2NCLR	21	4
CPMOFFST	8		CPM2RANY	21	2
CPMPRMSZ	28		CPM3ALL	22	2

\$CPMASTR Cross Reference

Name	Hex Offset	Hex Value
CPM3AUX	22	8
CPM3COMM	22	1
CPM3CURR	22	10
CPM3FPRO	22	80
CPM3LOCL	22	4
CPM3MSTR	22	20
CPM3NPRO	22	40
CPM64TOK	54	

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

\$CPPWORK Map

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

\$CPPWORK Cross Reference

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

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

\$CPXWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CPXWAVAI	30	34	CPXWSTSZ_64	20	
CPXWAVAI_64	30				
CPXWCELL	28	2C			
CPXWCELL_64	28				
CPXWCPEB	8	C			
CPXWCPEB_64	8				
CPXWEBLN	10	14			
CPXWEBLN_64	10				
CPXWEXTN	0				
CPXWPARAM	0				
CPXWRC	38				
CPXWSIZE	38	3C			
CPXWSTAT	4				
CPXWSTOR	18	1C			
CPXWSTOR_64	18				
CPXWSTSZ	20	24			

\$CSVARM Programming Interface information

Programming Interface information

\$CSVARM

End of Programming Interface information

\$CSVPARM Heading Information

Common Name: CSV \$\$\$\$LOAD/\$\$\$\$DEL Parm List
Macro ID: \$CSVPARM
DSECT Name: CSVP
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'CSVP'
 Offset: CSVPID-CSVP
 Length: 4

Storage Attributes: Subpool: 0
 Key: 1
 Residency: Virtual is in 31 bit storage in the JES2 address space. Real can be anywhere in 64 bit storage.

Size: See CSVPLEN
Created by: The CSVP is created before \$\$\$\$LOAD or \$\$\$\$DEL is called.
Pointed to by: General register 1 on entry to the \$\$\$\$LOAD or \$\$\$\$DEL routine.
Serialization: None required.
Function: This DSECT provides the mapping for the parameters passed to the \$\$\$\$LOAD or \$\$\$\$DEL service routine.

\$CSVPARM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CSVP	
0	(0)	CHARACTER	4	CSVPID	Eye catcher
4	(4)	SIGNED	2	CSVPSIZE	Size of parameter list
6	(6)	ADDRESS	1	CSVPPER	Version number for base section
6	(6)	X'1'	0	CSVPERN	"1" Version number equate for base
7	(7)	ADDRESS	1	CSVPTYPE	Routine identifier
7	(7)	X'1'	0	CSVPLD	"1" \$\$\$\$LOAD parameter list
7	(7)	X'2'	0	CSVDEL	"2" \$\$\$\$DEL parameter list
8	(8)	ADDRESS	4	CSVPLMT	Related LMT address
12	(C)	ADDRESS	4	CSVPMIT	Related module/MIT address
16	(10)	SIGNED	4	(4)	Reserved
32	(20)	DBL WORD	8	CSVPOG (0)	Start of routine specific area

Comment

\$\$\$\$LOAD parameter list

End of Comment

32	(20)	BITSTRING	1	CSVPLCMD	Reason for load
32	(20)	X'0'	0	CSVPLCJS	"0" JES2 performing load (internal)
32	(20)	X'1'	0	CSVPLCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPLCAL	"2" \$ADD LOAD command
32	(20)	X'3'	0	CSVPLCRL	"3" \$T LOAD,REFRESH command
33	(21)	BITSTRING	1	CSVPLLOC	Where the module was loaded
33	(21)	X'1'	0	CSVPLPVT	"1" Loaded to JES2 private
33	(21)	X'2'	0	CSVPLCSA	"2" Loaded to common storage
33	(21)	X'3'	0	CSVPLLPA	"3" Loaded to LPA
34	(22)	BITSTRING	2		Reserved
36	(24)	ADDRESS	4	CSVPLD	For a \$TLOAD REFRESH, LMT of module being replaced

Offsets

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

<p>CSVPL\$DR contains the address of an additional \$\$\$DEL type routine (name does not matter) that will get control when the module is deleted (before the normal \$\$\$DEL routine). This routine can be used in the case of a force delete of a module where the storage has already been freed. In particular, when JES2 detects that MVS has deleted the module from LPA. Because the module storage no longer exists, this routine should be in a separate memory location.</p>					

End of Comment					
40	(28)	ADDRESS	4	CSVPL\$DR	Addr of an additional \$\$\$DEL rtn
Comment					

\$\$\$LOAD return codes					

End of Comment					
40	(28)	X'0'	0	CSVPLROK	"0" Continue load
Comment					

\$\$\$DEL parameter list					

End of Comment					
32	(20)	BITSTRING	1	CSVPDCND	Reason for delete
32	(20)	X'0'	0	CSVPDCJS	"0" JES2 performing delete (internal)
32	(20)	X'1'	0	CSVPDCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPDCDL	"2" \$DEL LOAD command
32	(20)	X'3'	0	CSVPDCRL	"3" \$T LOAD,REFRESH command
32	(20)	X'4'	0	CSVPDCR	"4" \$PJES2 processing
32	(20)	X'5'	0	CSVPDCSC	"5" Secondary call
33	(21)	BITSTRING	1	CSVPDIND	Call flags
		1...		CSVPDSND	"B'10000000" Second call (after a RC 4/8)
		.1..		CSVPDFRC	"B'01000000" Module being force deleted
		..1.		CSVPDFRE	"B'00100000" Storage for module has been freed
34	(22)	BITSTRING	2		Reserved
36	(24)	ADDRESS	4	CSVPDNEW	For a \$TLOAD REFRESH, LMT of new module that was loaded

\$CSVARM Cross Reference

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

Comment					

<p>\$\$\$\$DEL return codes</p> <p>0 - Continue deletion normally. This routine will not be called again.</p> <p>4 - Do not delete the module now. JES2 will delete dynamic tables and exit routines but will not free the storage. This service will be called again under the MISC PCE once JES2 believes all users of the module are gone (with CSVPSND set). If the second call again give a return code 4, \$\$\$\$DEL will be called again at about a 5 minute interval. JES2 may make a force delete call at any time.</p> <p>8 - Same processing as RC=4 except that JES2 will not make a second call under the MISC PCE. A second call will be made in the case of a force delete, or after a JES2 hot start (for CSA or LPA modules).</p>					

End of Comment					
36	(24)	X'0'	0	CSVPDROK	"0" Continue delete
36	(24)	X'4'	0	CSVDRNN	"4" Do not physically delete module now
36	(24)	X'8'	0	CSVDRND	"8" Never physically delete module
48	(30)	DBL WORD	8	(0)	Ensure alignment
48	(30)	X'30'	0	CSVPLEN	"*-CSV" Length of CSV parm list

\$CSVARM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CSV	0		CSVPLD	24	
CSVPCDL	20	2	CSVPLPVT	21	1
CSVPCIN	20	1	CSVPLROK	28	0
CSVPCJS	20	0	CSVPMIT	C	
CSVPCND	20		CSVPOR	20	
CSVPCRL	20	3	CSVPSIZE	4	
CSVPCSC	20	5	CSVPTYPE	7	
CSVPCTR	20	4	CSVPVER	6	
CSVPEL	7	2	CSVVERN	6	1
CSVPDFRC	21	40			
CSVPDFRE	21	20			
CSVPDIND	21				
CSVPDNEW	24				
CSVDRND	24	8			
CSVDRNN	24	4			
CSVDRDOK	24	0			
CSVPSND	21	80			
CSVPID	0	C3E2E5D7			
CSVPL\$DR	28				
CSVPLCAL	20	2			
CSVPLCIN	20	1			
CSVPLCJS	20	0			
CSVPLCMD	20				
CSVPLCRL	20	3			
CSVPLCSA	21	2			
CSVPLEN	30	30			
CSVPLLOC	21				
CSVPLLPA	21	3			
CSVPLMT	8				
CSVLOAD	7	1			

\$CTOKEN Heading Information

Common Name: Client Token mapping
Macro ID: \$CTOKEN
DSECT Name: CTOKEN (\$CTOKEN is part of the IAZCTKN DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: See IAZCTKN
 Key: See IAZCTKN
 Residency: See IAZCTKN
Size: See IAZCTKN
Created by: See IAZCTKN
Pointed to by: This DSECT maps the field CTKNJESD in the IAZCTKN data area
Serialization: None required
Function: Maps the JES2 dependent portion of the client token (mapped by IAZCTKN). The client token may be returned as a result of:

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

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

\$CTOKEN Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CTOKEN	, HASP Client Token DSECT
16	(10)	SIGNED	4	CTK2JOBN	A.Job number
20	(14)	BITSTRING	4	CTK2JOBK	A.Job identifier key
24	(18)	SIGNED	4	CTK2DSID	CD.Data set number
28	(1C)	BITSTRING	4	CTK2MTTR	CD.IOT MTTR for data set
28	(1C)	X'1C'	0	CTK2MQTR_LO	"CTK2MTTR,L'CTK2MTTR,C'X" CD.Low 4 bytes of MQTR if CTK21MQT is set
32	(20)	CHARACTER	12	CTK2JOEI (0)	J.JOE Identification block
32	(20)	CHARACTER	8	CTK2JONM	J.JOE's output group name
40	(28)	SIGNED	2	CTK2JOI1	J.JOE'S output group id1
42	(2A)	SIGNED	2	CTK2JOI2	J.JOE'S output group id2
44	(2C)	SIGNED	4	CTK2PDBO	D.Offset of Pddb within IOT
48	(30)	SIGNED	4	CTK2JOEN	J.Work JOE index
52	(34)	CHARACTER	8	CTK2JDVT	D.From JCTJDVT
60	(3C)	SIGNED	1	CTK2LINC	D.From JCTLINCT
61	(3D)	SIGNED	2	CTK2DSIN	CD.Data set instance number
63	(3F)	BITSTRING	14		Reserved
77	(4D)	BITSTRING	2	CTK2MQTR_HI	CD.High 2 bytes of MQTR if CTK21MQT is set
79	(4F)	BITSTRING	1	CTK2FLG1	A.Flag byte
		1...		CTK21TCT	"B'10000000" C.Token represents a data set (Created as a result of a dynamic allocation request)
		.1..		CTK21TJO	"B'01000000" J.Token represents a JOE rather than a data set
		..1.		CTK21TSA	"B'00100000" D.Token represents a data set (Returned as a result of a SAPI Put/Get Request, a verbose extended status or an FSS GETDS)

\$CTOKEN Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		CTK21MQT	"B'00010000" C.MQTR provided
79	(4F)	X'40'	0	CTK2SIZE	"*-CTKNJESD" Length of HASP section
80	(50)	ADDRESS	2	(0)	Generate assembly error if CTK2SIZE exceeds L'CTKNJESD

Comment

The following equates provide values for the Bit Map based on which parts of the Client Token are valid to be used in comparisons. Two equates are required to map the Bit Map (each equate maps 32 bits).
Mappings for the first 32 bits

End of Comment

		.... ....		CTK2B_JOBK	"B'11110000000000000000000000000000',4,C'B"
		.... ....		CTK2B_JOBK	"B'00001111000000000000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_DSID	"B'00000000111100000000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_MTTR	"B'00000000000011110000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_JONM	"B'00000000000000001111111100000000',4,C'B"
		11..		CTK2B_JOI1	"B'000000000000000000000000000011000000',4,C'B"
		..11		CTK2B_JOI2	"B'0000000000000000000000000000110000',4,C'B"
80	(50)	X'FFF0'	0	CTK2B_JOEI	"CTK2B_JONM+CTK2B_JOI1+CTK2B_JOI2,4,C'B"
		.... 1111		CTK2B_PDBO	"B'00000000000000000000000000001111',4,C'B"

Comment

Mappings for the second 32 bits

End of Comment

		.... ....		CTK2B_JOEN	"B'11110000000000000000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_JDVT	"B'00001111111100000000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_LINC	"B'00000000000010000000000000000000',4,C'B"
80	(50)	BITSTRING	0	CTK2B_DSIN	"B'00000000000000110000000000000000',4,C'B"
		.... ...1		CTK2B_FLG1	"B'00000000000000000000000000000001',4,C'B"
		.... .11.		CTK2B_MQTR	"B'0000000000000000000000000000110',4,C'B"

Comment

CTK2BCT1 and CTK2BCT2 indicate that the job number, job key, data set number are valid in the Client Token.
CTK2BJO1 and CTK2BJO2 indicate that the job number, job key and JOE Group Name are valid in the JOE Token.
CTK2BJB1 and CTK2BJB2 indicate that the job number and job key are valid in the Client Token (token is a job level token).
CTK2BDS1 and CTK2BDS2 indicate that the job number, job key, data set number and Pddb offset are valid in the data set token.

End of Comment

80	(50)	X'F00000'	0	CTK2BCT1	"CTK2B_JOBK+CTK2B_DSID,4,C'B"
		.... ....		CTK2BCT2	"B'00000000000000000000000000000000',4,C'B"
80	(50)	X'FFF0'	0	CTK2BJO1	"CTK2B_JOBK+CTK2B_JOEI,4,C'B"
		.... ....		CTK2BJO2	"B'00000000000000000000000000000000',4,C'B"
80	(50)	X'0'	0	CTK2BJB1	"CTK2B_JOBK+CTK2B_JOBK,4,C'B"
		.... ....		CTK2BJB2	"B'00000000000000000000000000000000',4,C'B"
80	(50)	X'F0000F'	0	CTK2BDS1	"CTK2B_JOBK+CTK2B_DSID+CTK2B_PDBO,4,C'B"
		.... ....		CTK2BDS2	"B'00000000000000000000000000000000',4,C'B"

\$CTOKEN Cross Reference

Name	Hex Offset	Hex Value
CTK2B_DSID	50	F00000
CTK2B_DSIN	50	60000
CTK2B_FLG1	50	1
CTK2B_JDVT	50	F00000
CTK2B_JOBK	50	0
CTK2B_JOBK	50	0
CTK2B_JOE1	50	FFF0
CTK2B_JOEN	50	0
CTK2B_JOI1	50	C0
CTK2B_JOI2	50	30
CTK2B_JONM	50	FF00
CTK2B_LINC	50	80000
CTK2B_MQTR	50	6
CTK2B_MTTR	50	F0000
CTK2B_PDBO	50	F
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	
CTK2DSIN	3D	
CTK2FLG1	4F	
CTK2JDVT	34	
CTK2JOBK	14	
CTK2JOBK	10	
CTK2JOE1	20	
CTK2JOEN	30	
CTK2JOI1	28	
CTK2JOI2	2A	
CTK2JONM	20	
CTK2LINC	3C	
CTK2MQTR_HI	4D	
CTK2MQTR_LO	1C	1C
CTK2MTTR	1C	
CTK2PDBO	2C	
CTK2SIZE	4F	40
CTK21MQT	4F	10
CTK21TCT	4F	80
CTK21TJO	4F	40
CTK21TSA	4F	20
CTOKEN	0	

\$CTOKEN Cross Reference

\$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

\$CTW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	SIGNED	4	CTWPGNCL	PAGES TRANS. IF NO CH LOG
88	(58)	SIGNED	4	CTWLEVNМ	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	Name	Hex Offset	Hex Value
CTW	0		CTWOPTCK	6C	
CTWAVTIM	44		CTWOPT4K	70	
CTWCKPTN	5C		CTWPGNCL	54	
CTWCKPWT	18		CTWQSUSE	64	
CTWCLNBU	48		CTWVER	4	
CTWCLNCB	34		CTWVERN	4	2
CTWCLNPA	1C		CTWWTPCE	3C	
CTWCLNPU	20		CTWWTTM	68	
CTWCLPR1	24		CTW1CKDS	5	2
CTWCTLEN	78	8	CTW1FINW	5	8
CTWCTNMC	78	4	CTW1INTW	5	10
CTWCTNMP	78	0	CTW1PRIO	5	4
CTWCTNTS	78		CTW1PRMW	5	20
CTWDATA	8		CTW1RD1	5	80
CTWDRMTM	50		CTW1RD2	5	40
CTWFLAG1	5				
CTWFXEND	76	78			
CTWHLTIM	4C				
CTWIOSTP	10				
CTWIOSTR	8				
CTWKITNM	74				
CTWLEVNМ	58				
CTWLID	0	C3E3E640			
CTWMAXDR	30				
CTWMINDR	2C				
CTWMINHL	28				
CTWMVSWT	60				
CTWMXTIM	40				
CTWNMPCE	38				

\$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 JESxCKVx data spaces
Size: See CVCBSIZE
Created by: HASPCKVR
Pointed to by: SPUD_LATEST_VERSION field of \$SCID data area
 SPUD_FREE_QUEUE field of \$SCID data area
 SPUD_HOLD field of \$SCID data area
 DSRVCVPT field of IAZDSERV data area
 DSRVCNPT field of IAZDSERV data area
Serialization: Serialization is handled by means of ENQ/DEQ.
 HASPCKVR-Versioning subtask, creates all the CVCBs initially establishing the CVCB free queue.
 When a copy of the real in storage checkpoint data set is made into the first data space as a version, the representative CVCB is placed in the SCID (Summary of Checkpoint Information) at the head of the CVCB active queue, called SPUD_LATEST_VERSION, thus making it available to the service routine which handles the SSI request for a data space version. The service routine will issue an shared ENQ on the CVCB address contained in SPUD_LATEST_VERSION, scope=system. Following the ENQ, the service routine will check that the CVCB is still the latest version then increment the enqueue count within the CVCB by means of a compare and swap. In the case of release of access to a version, the service routine will decrement the enqueue count and DEQ on the CVCB.
 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

\$CVCB Map

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 SCID. As a new version of the checkpoint data set is generated, the CVCB for that version is put at the head of the active queue.

\$CVCB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CVCBHDR	Checkpoint Version CB
0	(0)	CHARACTER	8	CVCB_EYE	Data space eye catcher
8	(8)	BITSTRING	8	CVCB_NEXT_SPC_TKN	Next space STOKEN
16	(10)	SIGNED	4	CVCB_NEXT_SPC_ALET	Next space ALET
16	(10)	X'14'	0	CVCBHSIZ	**-CVCBHDR" Size of the CVCB header

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'5'	0	CVCBCVNO	"5" 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)	SIGNED	4	CVCB_ALET	CVCB ALET
12	(C)	CHARACTER	8	CVCB_STOKEN	CVCB STOKEN
20	(14)	BITSTRING	16	CVCB_NEXT (0)	Next CVCB area
20	(14)	ADDRESS	4	CVCB_NEXT_ADDR	Next CVCB address
24	(18)	SIGNED	4	CVCB_NEXT_ALET	Next CVCB ALET
28	(1C)	BITSTRING	8	CVCB_NEXT_STOKEN	Next CVCB STOKEN
36	(24)	ADDRESS	4	CVCB_MASTER_REC	Address of master record
40	(28)	ADDRESS	4	CVCB_4K_PAGES	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	ADDRESS	4	CVCB_4K_PAGES_END	Address of 4K pages End of 4K pages area
48	(30)	ADDRESS	4	CVCB_\$CATBERT_ADDR	Address of \$CATBERT
52	(34)	SIGNED	4	CVCB_ADDRS (0)	Start of section address
52	(34)	ADDRESS	4	CVCB_JOT_ADDR	JOT start address
56	(38)	ADDRESS	4	CVCB_JOX_ADDR	JOX start address
60	(3C)	ADDRESS	4	CVCB_JQE_ADDR	JQE start address
64	(40)	ADDRESS	4	CVCB_QSE_ADDR	QSE start address
68	(44)	ADDRESS	4	CVCB_HCT_ADDR	HCT start address (Ckpt'ed)
72	(48)	ADDRESS	4	CVCB_JQEX_ADDR	JQE extension address
76	(4C)	ADDRESS	4	CVCB_KIT_ADDR	KITs start address
80	(50)	ADDRESS	4	CVCB_JNT_ADDR	JNT start address
84	(54)	ADDRESS	4	CVCB_JQX_ADDR	JQX start address
88	(58)	ADDRESS	4	CVCB_BERT_ADDR	BERT start address
92	(5C)	ADDRESS	4	CVCB_DAS_ADDR	DAS start address
96	(60)	ADDRESS	4	CVCB_TGM_ADDR	TGM start address
100	(64)	ADDRESS	4	CVCB_WQPOS_ADDR	Service cls posn address
104	(68)	ADDRESS	4	CVCB_WQPOS_ALET	Service cls posn ALET
108	(6C)	SIGNED	4	CVCB_ENQ_CT	Count of shared ENQs
		1...		CVCB_USED	"B'10000000" Version used this cycle
112	(70)	CHARACTER	8	CVCB_TIME	Time stamp for version
120	(78)	CHARACTER	8	CVCB_MAJOR (0)	Major name for ENQ
120	(78)	CHARACTER	4	CVCB_SYS	'SYSZ'
124	(7C)	CHARACTER	4	CVCB_JESID	Subsystem name
128	(80)	CHARACTER	8	CVCB_MINOR (0)	Minor name for ENQ
128	(80)	CHARACTER	4	CVCB_ENQ_ID	'CVCB'
132	(84)	SIGNED	4	CVCB_VERSION_NUMBER	Version numb of this CVCB
136	(88)	SIGNED	4	(0)	Alignment
136	(88)	X'88'	0	CVCBSIZE	"*-CVCB" Size of the CVCB

\$CVCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CVCB	0			7	
CVCB_\$CATBERT_ADDR	30		CVCB_EYE	0	
CVCB_ADDRS	34		CVCB_FDMP	5	80
CVCB_ALET	8		CVCB_FLAG	5	
CVCB_BERT_ADDR	58		CVCB_HCT_ADDR		
CVCB_CBVN	4		CVCB_ID	44	
CVCB_DAS_ADDR	5C		CVCB_JESID	0	
CVCB_ENQ_CT	6C		CVCB_JNT_ADDR	7C	
CVCB_ENQ_ID	80		CVCB_JOT_ADDR		
CVCB_ENQ_SKIP_COUNT			CVCB_JOX_ADDR	50	
				34	

\$CVCB Cross Reference

Name	Hex Offset	Hex Value
	38	
CVCB_JQE_ADDR		
	3C	
CVCB_JQEX_ADDR		
	48	
CVCB_JQX_ADDR		
	54	
CVCB_KIT_ADDR		
	4C	
CVCB_MAJOR		
CVCB_MASTER_REC		
	24	
CVCB_MINOR		
CVCB_NEXT		
CVCB_NEXT_ADDR		
	14	
CVCB_NEXT_ALET		
	18	
CVCB_NEXT_SPC_ALET		
	10	
CVCB_NEXT_SPC_TKN		
	8	
CVCB_NEXT_STOKEN		
	1C	
CVCB_QSE_ADDR		
	40	
CVCB_STOKEN		
	C	
CVCB_SYS		
	78	
CVCB_TGM_ADDR		
	60	
CVCB_TIME		
	70	
CVCB_USED		80
CVCB_VERSION_NUMBER		
	84	
CVCB_WQPOS_ADDR		
	64	
CVCB_WQPOS_ALET		
	68	
CVCB_4K_PAGES		
	28	
CVCB_4K_PAGES_END		
	2C	
CVCBCVNO		5
CVCBHDR		
	0	
CVCBHSIZ		14
	10	
CVCBSIZE		88
	88	

\$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 DAS copies is ECSA. Real storage is anywhere.

Size: See DASSIZ for JES2 private storage
See DASSIZC for CSA copies
Note that CSA DAS must be quadword aligned and its
size should be a multiple of a quadword

Created by: JES2 initialization allocates storage for the
DASes in JES2 private and ECSA. The checkpoint
versions subtask creates copies of the DASes in the
checkpoint versions data space.

Pointed to by: The \$DASAREA field of the \$HCT data area points to
the header of the DAS pool in the JES2 private area.
The \$DASFRST field of the \$HCT data area points to
the first DAS in the JES2 private area.
The CCTDAS1 field of the \$HCCT data area points to
the first DAS copy in ECSA.

Serialization: JES2 checkpoint data set lock (\$QSUSE)

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

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

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

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

\$DAS Map

Offsets					
Dec	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 (if \$SPLLGDS is off)
46	(2E)	SIGNED	2	DASNORTK	NUMBER OF RECORDS PER TRACK

Comment

The content of DASTRK is dependent on the data set type.

- If volume is in large data set format (DAS5LGDS on) then DASTRKLM is the largest relative track in the SPOOL data set. DAS5LGDS implies relative track addressing. Low track is always 1. To calculate absolute track address, add DASSTRK to the TT address.
- If large data set is not active, but relative track addressing is active (DAS4RELT on), then DASLOTRK=1 and DASUPTRK is the upper relative track limit. To calculate absolute track address add DASSTRK to the TT address.
- If large data set and relative track addressing are both inactive, then DASLOTRK is the low absolute track address in the data set and DASUPTRK is the upper absolute track limit. TT is the absolute track address.

End of Comment

48	(30)	SIGNED	4	DASTRK (0)	Valid track range (TT)
48	(30)	SIGNED	4	DASTRKLM (0)	Upper track limit (if large data sets - DAS5LGDS on)
48	(30)	BITSTRING	2	DASLOTRK	Low value (1 if relative)
50	(32)	BITSTRING	2	DASUPTRK	Upper limit
52	(34)	SIGNED	2	DASNOTGP	NUMBER OF TRACKS PER GROUP
54	(36)	SIGNED	2	DASMTCSZ	MINIMUM TRACKCELL SIZE
56	(38)	BITSTRING	1	DATYPE	UCB DEVICE TYPE (UCBTBYT4)

\$DAS Map

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

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

End of Comment					
57	(39)	BITSTRING	1	DASFLAG4	Fourth flag byte
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
58	(3A)	ADDRESS	1	DASMIGTR	SYSID of migrator system - system housing migrator subtask. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) or DAS8MGMR (Volume is migrating - merge). Only valid for source of migration. Reserved (was DASRPSO)
59	(3B)	BITSTRING	1		Reserved (was DASRPSO)
60	(3C)	CHARACTER	44	DASDSN	SPOOL data set name
104	(68)	SIGNED	4	DASTGNUM	Number of TGs in extent (if \$SPLLGDS is on)
108	(6C)	SIGNED	4	DASJBNUM	Lowest job number using extent while either 1. halting or draining (DAS5POST off) or 2. POSTing jobs (DAS5POST on)
112	(70)	SIGNED	4	DASSTRK	First track of spool extent if relative addressing is being used (else 0)
116	(74)	BITSTRING	1	DASFLAG5	Fifth flag byte
		1...		DAS5LGDS	"B'10000000" Large data set support active for volume
		.1..		DAS5IOHT	"B'01000000" HALT command initiated by I/O error condition
		..1.		DAS5FALC	"B'00100000" Volume fully allocated
		...1		DAS5POST	"B'00010000" POSTing activity needed/ in process for final start spool command processing
		.... 1...		DAS5CYL	"B'00001000" Data set allocated on EAV cylinder managed-EAS storage
117	(75)	BITSTRING	1	DASFLAG6	Sixth flag byte
		1...		DAS6MAX	"B'10000000" MAX - \$SSPL and MAX has been specified on SPACE keyword parm
		.1..		DAS6CYLS	"B'01000000" CYL - \$SSPL and CYL has been specified on SPACE keyword parm
		..1.		DAS6TRKS	"B'00100000" TRK - \$SSPL and TRK has been specified on SPACE keyword parm
		.... 1...		DAS6RESV	"B'00001000" Upon migration completion - this volume must be left in reserved state. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) and only for a target volume.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		DAS6RSTA	"B'00000100" Volume is in reserved state. Selection may occur - but not allocation. This is an attribute verses state.
		.... ..1.		DAS6XTND	"B'00000010" EXTEND command in progress
		.... ...1		DAS6XTER	"B'00000001" EXTEND command in progress and failed before command completion. Used by Initialization to detect a data set size mismatch that should be allowed.
118	(76)	BITSTRING	4	DASSYAFF	Spool system affinity
122	(7A)	SIGNED	2		Reserved
124	(7C)	SIGNED	4	DASNUMTC	\$\$\$PL and this field contains the number of cylinders or tracks requested for a new volume data set.
124	(7C)	BITSTRING	4	DASMAPTR	Mapped track number in target volume. This is absolute track. Valid only if a mapped volume - DASFLAG8 -> DAS8UPTG is true. Only valid for migration source volume.
128	(80)	CHARACTER	6	DASTARG	Represents target volser for a spool migration. This could be either a move or merge migration. If a move -- then this value is not only volser -- but also a named BERT which will house the target volumes DAS during phase 1 of the ensuing migration. Only valid for migration source volume. For a mapped volume this field will identify the target DAS even after the migration is successful.
134	(86)	BITSTRING	1	DAS7PHAS	Migration phase. Only valid for a migrating source volume.
		.... ....		DAS7NOMG	"X'00" No migration active
		.... .1..		DAS7PEND	"X'04" Migration command pending. In this phase source and target data sets will be validated. Also source will be inactive OR draining/halting and beyond phase 1 processing. Required for both move and merge.
		.... 1...		DAS7SET1	"X'08" Setup and initialize migration tasking environment. One member becomes migrator -- migration subtask is attached. All MAS members have migration assistant subtask attached. Subtasks are ready for pending migration. Required for both move and merge.
		.... 11..		DAS7SET2	"X'0C" Setup2 - Migration move - all members must allocate target volume - BERT backed DAS, reserve SRC TGM and size verification. Only move.
		...1		DAS7SET3	"X'10" Source and target size size verification. Also TGM reservation. Required for merge.
		...1 .1..		DAS7PHA1	"X'14" Phase 1 migration. Move and merge.
		...1 11..		DAS7PHA2	"X'1C" Phase 2 migration. Move and merge.

Comment					

Migration cleanup phases					

End of Comment					
		..1.		DAS7CLUM	"X'20" Migrator subtask cleanup is occurring (Backout or cancellation). Move and merge.
		..1. .1..		DAS7CLU3	"X'24" Cleanup for migration phase DAS7SET3. (Backout or cancellation). Merge only
		..1. 1...		DAS7CLU2	"X'28" Cleanup for migration phase DAS7SET2. (Backout or cancellation). Move only.
		..1. 11..		DAS7CLU1	"X'2C" Cleanup for migration phase DAS7SET1. (Backout or cancellation). Move and merge.
135	(87)	BITSTRING	1	DASFLAG8	Migration flag 2
		1...		DAS8TARG	"B'10000000" This volume is a migration target. Only valid for target - not source.
		.1..		DAS8TMOV	"B'01000000" Target allocation was initiated by move verses merge. Only valid for target - not source.
		..1.		DAS8MGMV	"B'00100000" Migrating - move. Only valid for migrating src.
		...1		DAS8MGMR	"B'00010000" Migrating - merge. Only valid for migrating src.

\$DAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		DAS8UPTG	"B'00001000" Mapped volume and runtime must update target TGM if and only if DASTARTS is also > 0. DAS8UPTG is set on at the atomic point of merge and stays set until the DAS goes away.
		.... .1..		DAS8MAPT	"B'00000100" This volume is mapped-on by at least one volume.
		.... ..1.		DAS8CANC	"B'00000010" Either error or operator has requested migration cancel.
		.... ...1		DAS8CNAK	"B'00000001" Migration is being cancelled.
136	(88)	SIGNED	4	DASTRAKQ	OFFSET OF NEXT DAS IN THE TGM
140	(8C)	SIGNED	4	DASWORKQ	OFFSET OF NXT DAS ON CMD WORK Q
144	(90)	SIGNED	4	DASMAPSZ	Number of bytes in the track group map (if \$SPLLGDS is on)
144	(90)	X'92'	0	DASNOBYM	"DASMAPSZ+2,2,C'X'" Number of bytes in the track group map (if \$SPLLGDS is off)
148	(94)	SIGNED	4	DASMAPO	OFFSET OF THIS MAP FROM \$TGMAP
152	(98)	SIGNED	2	DASTGSIZ	TG SIZE ON THIS VOLUME, ROUNDED FOR NUMBER OF BUFS PER TRACK
154	(9A)	SIGNED	2		RESERVED FOR FUTURE USE
156	(9C)	BITSTRING	1	DASFLAG2	COMMAND FLAG BYTE
		1...		DASCDRN	"B'10000000" DRAIN COMMAND HAS BEEN ISSUED
		.1..		DASCHALT	"B'01000000" HALT COMMAND HAS BEEN ISSUED
		..1.		DASCSTRT	"B'00100000" START COMMAND HAS BEEN ISSUED
		...1		DASCFMT	"B'00010000" FORMAT REQUESTED
		.... 1...		DASINACT	"B'00001000" THIS VOLUME IS INACTIVE
		.... ..1.		DASINIT	"B'00000010" INITIAL START HAS BEEN PERFORMED **note bit out of order**

Comment

 The following two bits determine which phase (1-3)
 the drain/halt command is currently processing.
 Phase | DASBLOB | DASJOBWT |

```

-----+-----+
 1 | on | n/a |
-----+-----+
 2 | off | on |
-----+-----+
 3 | off | off |
-----+-----+
  
```

 End of Comment

		.... .1..		DASBLOB	"B'00000100" Indicates which phase of drain/halt processing has completed(acts as a gate to Phase 2, deallocation)
		.... ...1		DASJOBWT	"B'00000001" HALT/DRAIN WAITING JOBS

Comment

 Starting in z/OS 1.13 with the inclusion of the
 Extend SPOOL command, DASCNMDS does not represent
 all spool commands. Code needs to account for
 command bits in DASFLAG2 and DASFLAGA.

 End of Comment

156	(9C)	X'F0'	0	DASCNMDS	"DASCDRN+DASCHALT+DASCSTRT+DASCFMT"
156	(9C)	X'80'	0	DASCNMND2	"DASCXTND"
157	(9D)	BITSTRING	1	DASFLAG3	FLAG BYTE
		1...		DAS3ITGM	"B'10000000" This extent on DASTRAKQ
		.1..		DAS3SYSA	"B'01000000" System affinity set for this volume

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
COMPATIBILITY					
Maintainence of DAS3CNCL is needed until HJE7740 (z/OS 1.9) cannot coexist in a MAS with the lowest supported release in a MAS.					
Example 1:					
+++++ +++++ +++++ +++++					
|z12| |z13| ---> |z12| |z10| = GOOD! :-)					
+++++ +++++ +++++ +++++					
Example 2:					
+++++ +++++ +++++ +++++					
|z12| |z14| ---> |z12| |z10| = GOOD! :-)					
+++++ +++++ +++++ +++++					
Example 3:					
+++++ +++++ +++++ +++++					
|z12| |z11| ---> |z9| |z11| = BAD! :-)					
+++++ +++++ +++++ +++++					
Note: These examples assume ONLY n-2 releases are supported. So in other words, this bit can be deleted at z/14 development time. Also remove comements in SPOL and SXIT.					
End of Comment					
	..1.			DAS3CNCL	"B'00100000" Command issued with CANCEL operand

Comment					
END COMPATIBILITY					
End of Comment					
	...1			DAS3EFWZ	"B'00010000" Extent signature record populated with zero
	.... 1...			DAS3STUN	"B'00001000" Volume has more space than represented in map (i.e. this is stunted)
158	(9E)	BITSTRING	1	DASCMD2	Member nr issuing new cmd
159	(9F)	BITSTRING	1	DASFLAGA	Command Flag Byte #2
		1...		DASCXTND	"B'10000000" Extend command issued
160	(A0)	SIGNED	2	DASCSAC (0)	End of area copied to CSA
160	(A0)	X'A0'	0	DASSIZCO	"*-DAS" Len of area copied to CSA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DASCSA	, CSA only DAS DSECT
0	(0)	SIGNED	4	DASCTGAL	CSA only mapping of track groups allocated
4	(4)	SIGNED	4	DASCLOTK	CSA only low track limit
8	(8)	SIGNED	4	DASCUPTK	CSA only upper track limit
12	(C)	BITSTRING	64	DASRPS	RPS Table for this device
76	(4C)	BITSTRING	32	DASENQTK	ISGENQ token

Comment					

Start of DASMIGIO					
WARNING!!! - DASMIGIO and ASMMIGIO in \$DTEASST must be kept in sync					

End of Comment					
108	(6C)	SIGNED	4	DASMIGIO (0)	Start of migration I/O directives. This area must be atomically maintained. Area size is denoted below by DASMIGSZ.
108	(6C)	BITSTRING	1	DASFLAG9	Flag 9

\$DAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		DAS9NMIG	"B'10000000" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13D015 permission request" to @Z13D015 migrator mailbox RN\$<VOLSER>. VOLSER is source DAS - DASVOLID. Set by migration assistant subtask.
		.1...		DAS9MAPD	"B'01000000" Source DAS is mapped to target and DASMPTTR must used to calculate corresponding track in target. Use DEB extent in DAS pointed by DASTRADD. Set by migration assistant subtask.
109	(6D)	ADDRESS	1	DASMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be re-done. Always captured. Set by migration assistant subtask.
110	(6E)	BITSTRING	2		Reserved
110	(6E)	X'4'	0	DASMIGSZ	"*-DASMIGIO" Length of area which must be atomically updated.

Comment

End of DASMIGIO

End of Comment

112	(70)	ADDRESS	4	DASTRADD	If migration is a merge - then this points to target associated CSA entry.
120	(78)	ADDRESS	8	DASTBITM	Address of member track level bitmap. Located in 64 bit common storage. Only valid if DADFLAG9-> DASSNMIG. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
128	(80)	SIGNED	4	DASTARTS	If this volume is mapped to another volume DAS8UPTG = ON, then this value marks start TG in target TGM. Transposer will use on all members. Note if this value is 0 then no data moved to target - in other words source was empty. If 0 - then transposer must no-op for this DAS.
132	(84)	ADDRESS	4	DASGRTOK	JESXCF group token used to create MG\$VOLSER and RN\$VOLSER mailboxes
136	(88)	BITSTRING	1	DASMGCMP	Migration percent complete Broadcast every so often to all MAS members.
137	(89)	BITSTRING 1...	1	DASFLAGB DASBNCAN	Flag B - Broadcast settings "B'10000000" Migration can no longer be cancelled. Broadcast to all MAS members when migration atomic point reached.
138	(8A)	BITSTRING	22		Reserved

Comment

DEB extent information in CSA DAS must be quadword aligned due to hardware atomicity considerations
Use LPQ/STPQ to get/set this field.

End of Comment

160	(A0)		16	(0)	Align
160	(A0)	BITSTRING	1	DASDEBXT	DEB extent for this volume

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>DAS status is more complex starting with z/OS 1.13. Status includes the traditional settings in DASFLAG and may also need to incorporate SPOOL migration. DASSTAT combines these settings into a single status field that can be used by \$SCAN. Prescan routine PREDSTS fills in this value.</p>					
End of Comment					
176	(B0)	BITSTRING	1	DASSTAT	Binary Status value
		...1		DASSTACT	"X'10" SPOOL is active. Allocation may occur
		..1.		DASSTSTR	"X'20" SPOOL is starting.
		..11		DASSTDRN	"X'30" SPOOL is draining
		.1..		DASSTHLT	"X'40" SPOOL is halting
		.1.1		DASSTEXT	"X'50" SPOOL is extending
		.111		DASSTMIG	"X'70" SPOOL is migrating
		.111 ...1		DASSTMMV	"X'71" SPOOL is migrating-move
		.111 ..1.		DASSTMMG	"X'72" SPOOL is migrating-merge
		1..1		DASSTMAP	"X'90" SPOOL is mapped
		.... ....		DASSTINA	"X'00" SPOOL is inactive
177	(B1)	BITSTRING	3		Reserved
192	(C0)		16	(0)	Align - This must be the last declare before the end of the CSA DAS
192	(C0)	X'C0'	0	DASENDC	*** End of CSA DAS
192	(C0)	X'C0'	0	DASCSALN	** -DASCSA" CSA only portion of DAS len
192	(C0)	X'160'	0	DASSIZC	"DASSIZCO+DASCSALN" Length of CSA mapped DAS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DASCKPT	, CKPT only DAS DSECT
Comment					
<p>THE NEXT FOUR FIELDS MUST BE KEPT TOGETHER. ROUTINE DADCKALL IN HASPSPOL DEPENDS ON THESE FIELDS BEING CONTIGUOUS.</p>					
End of Comment					
0	(0)	SIGNED	4	DASINDIC (0)	INDICATOR FIELDS
0	(0)	BITSTRING	4	DASALOCs	Sys. with ext alloc'ed
4	(4)	BITSTRING	4	DASDONE	Cmd done on these systems
8	(8)	BITSTRING	4	DASBUSY	Cmd being done on systems
12	(C)	ADDRESS	1	DASCMDID	SYSID of sys issuing cmd
12	(C)	X'D'	0	DASINDLN	** -DASINDIC" Length of indicator fields
13	(D)	BITSTRING	4	DASERROR	Affinity of system with command error
17	(11)	BITSTRING	35	DASERCDE	Error reason code for each member
52	(34)	SIGNED	4	(0)	ALIGN END OF DAS
52	(34)	X'34'	0	DASCKPTL	** -DASCKPT" CKPT only portion DAS len
52	(34)	X'D4'	0	DASSIZ	"DASSIZCO+DASCKPTL" Length of CKPT mapped DAS
52	(34)	X'8'	0	DASVRSN	"8" Version of the DAS

\$DAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
End of Comment					
52	(34)	X'4'	0	DASMNTER	"4,L'DASERCDE" VOLUME NOT MOUNTED
52	(34)	X'8'	0	DASDUPER	"8,L'DASERCDE" DUPLICATE SPOOL VOLUMES
52	(34)	X'C'	0	DASALCER	"12,L'DASERCDE" ALLOCATION ERROR
52	(34)	X'10'	0	DASPMTER	"16,L'DASERCDE" PREVIOUS MOUNTED VOL NOT MOUNTED
52	(34)	X'14'	0	DASEXTER	"20,L'DASERCDE" EXTENT ERROR
52	(34)	X'18'	0	DASFMTER	"24,L'DASERCDE" PREV. MOUNTED VOL NOT FORMATTED
52	(34)	X'1C'	0	DASENQER	"28,L'DASERCDE" ENQ already held for volume
52	(34)	X'20'	0	DASUCBER	"32,L'DASERCDE" UCBINFO macro failed
52	(34)	X'24'	0	DASCDRER	"36,L'DASERCDE" IOSCDR macro failed
52	(34)	X'28'	0	DASNEDER	"40,L'DASERCDE" NED not found by IOSCDR
52	(34)	X'2C'	0	DASDIAGR	"44,L'DASERCDE" DIAGNOSE inst error
52	(34)	X'30'	0	DASDLSPC	"48,L'DASERCDE" LSPACE macro failed
52	(34)	X'34'	0	DASNOTRG	"52,L'DASERCDE" No track groups
52	(34)	X'38'	0	DASXTNDE	"56,L'DASERCDE" Extend SPOOL error
52	(34)	X'3C'	0	DASXTNSP	"60,L'DASERCDE" Extend SPOOL error - Insufficient space
52	(34)	X'40'	0	DASXTEXT	"64,L'DASERCDE" Extend SPOOL error - No extents in data set
52	(34)	X'44'	0	DASXTSIZ	"68,L'DASERCDE" Extend SPOOL error - Data set already req size

Comment					
<p>THE FOLLOWING EQUATES ARE USED TO MAP OUT FIELDS IN THE MASTER RECORD ASSOCIATED WITH THE DAS. THE FIELDS IN THE MASTER RECORD CAN BE THOUGHT OF AS AN EXTENSION TO EACH DAS. ALTHOUGH THERE IS A DASEXTGA ASSOCIATED WITH EACH DAS, IT IS KEPT IN THE MASTER RECORD BECAUSE IT IS ALTERED BY THE CKPT PROCESSOR EACH CYCLE. THE DAS EXTENSION AREAS ARE CONTIGUOUS IN STORAGE, AS ARE THE DASES. THE NTH EXTENSION AREA IS ASSOCIATED WITH THE NTH DAS (AS DEFINED BY DASEXTNO). Note: track groups assigned to the BLOB are considered allocated for purposes of this count.</p>					
<p>----- DAS extension sizes if large data set support is not active (\$SPLLGDS off) -----</p>					

End of Comment					
52	(34)	X'0'	0	DASXTGA2	"0,2" Number of TGs allocated
52	(34)	X'2'	0	DASXTLN2	"L'DASXTGA2" Length of DAS extension

Comment					
<p>----- DAS extension sizes if large data set support is active (\$SPLLGDS on) -----</p>					

End of Comment					
52	(34)	X'0'	0	DASXTGA4	"0,4" Number of TGs allocated
52	(34)	X'4'	0	DASXTLN4	"L'DASXTGA4" Length of DAS extension

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MIGR808	, HASP808 parms
0	(0)	CHARACTER	6	MIGRSRC	Migration source volume
6	(6)	CHARACTER	6	MIGRTAR	Migration target volume
12	(C)	BITSTRING	1	MIGRFRNT	Indication if upfront SRC and targ text should be cut. x'FF' - yes x'00' - no
13	(D)	BITSTRING	1	MIGRBACK	Requested backend text
14	(E)	BITSTRING	1	MIGRFLAG	MIGR808 Flag
		1...		MIGRFMOV	"B'10000000" Use MOVE completion text
		.1...		MIGRFMRG	"B'01000000" Use MERGE completion text
14	(E)	X'F'	0	MIGR8LEN	**-"MIGR808" Length of a HASP808 parms

\$DAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DAS	0		DASFLAG5	74	
DASACTIV	7	C	DASFLAG6	75	
DASALCER	34	C	DASFLAG8	87	0
DASALLOC	7	4	DASFLAG9	6C	
DASALOCS	0	0	DASFMTER	34	18
DASAVAIL	7	CC	DASGR TOK	84	
DASBLOB	9C	4	DASHALT	7	40
DASBNCAN	89	80	DASINACT	9C	8
DASBUSY	8	0	DASINDIC	0	
DASCDRER	34	24	DASINDLN	C	D
DASCDRN	9C	80	DASINIT	9C	2
DASCFMT	9C	10	DASIOOK	7	48
DASCHALT	9C	40	DASJBNUM	6C	0
DASCKPT	0		DASJOBWT	9C	1
DASCKPTL	34	34	DASLOTRK	30	0
DASCLOTK	4	0	DASMAPO	94	0
DASCMDID	C		DASMAPSZ	90	
DASCMD2	9E	0	DASMAPTR	7C	
DASCMNDS	9C	F0	DASMASK	8	0
DASCMND2	9C	80	DASMGCMP	88	
DASCSA	0		DASMIGIO	6C	
DASCSAC	A0		DASMIGSZ	6E	4
DASCSALN	C0	C0	DASMIGT	6D	
DASCSTRT	9C	20	DASMIGTR	3A	
DASCTGAL	0		DASMNTER	34	4
DASCUPTK	8	0	DASMTCSZ	36	1
DASCXTND	9F	80	DASNEDER	34	28
DASDEBXT	A0		DASNOBYM	90	92
DASDIAGR	34	2C	DASNORTK	2E	0
DASDLSPC	34	30	DASNOTGE	2C	0
DASDONE	4	0	DASNOTGP	34	0
DASDRAIN	7	80	DASNOTRG	34	34
DASDSN	3C	40404040	DASNUMTC	7C	
DASDUPER	34	8	DASPMTER	34	10
DASENDC	C0	C0	DASRPS	C	0
DASENQER	34	1C	DASRPSF	7	1
DASENQTK	4C		DASSELEC	7	8
DASERCDE	11	0	DASSIZ	34	D4
DASERROR	D	0	DASSIZC	C0	160
DASEXSTS	7	10	DASSIZCO	A0	A0
DASEXTER	34	14	DASSTACT	B0	10
DASEXTNO	6	0	DASSTAT	B0	0
DASFINAL	7	2	DASSTRN	B0	30
DASFLAG	7	0	DASSTEXT	B0	50
DASFLAGA	9F	0	DASSTHLT	B0	40
DASFLAGB	89	0	DASSTINA	B0	0
DASFLAG2	9C	0	DASSTMAP	B0	90
DASFLAG3	9D	0	DASSTMIG	B0	70
DASFLAG4	39		DASSTMMG	B0	72

\$DAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DASSTMMV	B0	71	DAS7SET3	86	10
DASSTRK	70	0	DAS8CANC	87	2
DASSTSTR	B0	20	DAS8CNAK	87	1
DASSYAFF	76		DAS8MAPT	87	4
DASTARG	80		DAS8MGMR	87	10
DASTART	7	20	DAS8MGMV	87	20
DASTARTS	80		DAS8TARG	87	80
DASTBITM	78		DAS8TMOV	87	40
DASTGNUM	68	0	DAS8UPTG	87	8
DASTGSIZ	98	0	DAS9MAPD	6C	40
DASTKCYL	28	0	DAS9NMIG	6C	80
DASTRADD	70		MIGRBACK	D	
DASTRAKQ	88	0	MIGRFLAG	E	
DASTRK	30		MIGRFMOV	E	80
DASTRKLM	30		MIGRFMRG	E	40
DASTYPE	38	0	MIGRFRNT	C	
DASUCBER	34	20	MIGRSRC	0	
DASUPTRK	32	0	MIGRTAR	6	
DASVOLID	0	40404040	MIGR8LEN	E	F
DASVRSN	34	8	MIGR808	0	
DASWORKQ	8C	0			
DASXTEXT	34	40			
DASXTGA2	34	0			
DASXTGA4	34	0			
DASXTLN2	34	2			
DASXTLN4	34	4			
DASXTNDE	34	38			
DASXTNSP	34	3C			
DASXTSIZ	34	44			
DAS3CNCL	9D	20			
DAS3EFWZ	9D	10			
DAS3ITGM	9D	80			
DAS3STUN	9D	8			
DAS3SYSA	9D	40			
DAS4ECKD	39	8			
DAS4MFMT	39	40			
DAS4PFMT	39	10			
DAS4RDTD	39	4			
DAS4RELT	39	1			
DAS4SFMT	39	20			
DAS4SIG	39	80			
DAS4WTRD	39	2			
DAS5CYL	74	8			
DAS5FALC	74	20			
DAS5IOHT	74	40			
DAS5LGDS	74	80			
DAS5POST	74	10			
DAS6CYLS	75	40			
DAS6MAX	75	80			
DAS6RESV	75	8			
DAS6RSTA	75	4			
DAS6TRKS	75	20			
DAS6XTER	75	1			
DAS6XTND	75	2			
DAS7CLUM	86	20			
DAS7CLU1	86	2C			
DAS7CLU2	86	28			
DAS7CLU3	86	24			
DAS7NOMG	86	0			
DAS7PEND	86	4			
DAS7PHAS	86	0			
DAS7PHA1	86	14			
DAS7PHA2	86	1C			
DAS7SET1	86	8			
DAS7SET2	86	C			

\$DAWNWRK Heading Information

Common Name: JES2 DAWN Processor
Macro ID: \$DAWNWRK
DSECT Name: PCE (\$DAWNWRK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

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

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

Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 DAWN Processor and by its support routine and exits. \$DAWNWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$DAWNWRK are actually part of PCE DSECT, but only map PCEs with the value PCEDWNID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

\$DAWNWRK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	(6)	Reserved for future use
336	(150)	DBL WORD	8	(0)	Alignment
336	(150)	X'18'	0	DWNPCEWL	"*-PCEWORK" Length of DAWN PCE

\$DAWNWRK Map

\$DCT Programming Interface information

Programming Interface information

\$DCT

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

- DCTACB
- DCTDCB
- DCTUCB
- MDCTPCL

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: 2
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: Size is of varying lengths. See \$DCTTABs and the length equates throughout DCT for the length specifications for each DCT type.

Created by: Most DCTs are allocated using the \$DCTDYN service during initialization or as a result of a \$ADD command. Remote and network subdevices are obtained during JES2 initialization.

Pointed to by:

- the PCEDCT field of the associated \$PCE data area, if any
- chaining fields, and associated-device fields, in related \$DCT data areas, including DCTCHAIN, DCTFSSCH, MDCTADCT, MDCTDCT, XDCTDCT, MDCTACT, XDCTACTV, MDCTSDCT
- anchor fields for all \$DCTs in the \$HCT data area, including \$DCTPOOL and \$DCTPOOL2
- anchor fields for each type of \$DCT data area, in the \$HCT or \$UCT data area, as directed by each \$DCT type's defining \$DCTTAB specification
- I/O, request, and status anchors in the \$HCT data area
- fields within the \$MLMWORK data area, including MLMSNALG, MLMSNAAL, MLMLOGQ, MLMXLDCT
- fields within other device-managing JES2 processor work areas, like \$MLMWORK, including the \$RCPWORK, \$NPMWORK, and \$XFRWORK data area, and subtask \$DTEOFF data area
- fields within RJE/NJE related data areas used for RJE terminal definition, NJE node definition, and I/O, including the RJE \$RAT data area, NJE \$NIT and \$NITP and \$PCT data areas, and VTAM \$ICE data area
- fields within parameters lists for JES2 exits, in the \$XPL data area, typically labeled XnnnDCT, where nnn is the exit number

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

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	SIGNED	2	DCTSIZE	DCT size in bytes
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	DCTPCE	ADDRESS OF PROCESSOR CNTRL ELEM.
12	(C)	SIGNED	4	DCTFLGFW (0)	FOLLOWING FOUR FLAG BYTES MUST BE KEPT CONTIGUOUS FOR COMPARE AND SWAP PROCESSING STATUS FLAGS
12	(C)	BITSTRING	1	DCTSTAT	"B'10000000" DCT is in use
		.1..		DCTINUSE	"B'01000000" DCT is drained
		.1..		DCTDRAIN	"B'00100000" DCT is held
		..1.		DCTHOLD	"B'00010000" DCT is unallocated
		...1		DCTUNAL	"B'00001000" DCT in process by RTAM
		.... 1..		DCTRTAM	"B'00000100" SPOF xmitter/receiver START INDICATOR
		.... .1..		DCTSTRT	"B'00000100" Local reader attention pending
		.... .1..		DCTPATTN	"B'00000010" DCT is set for attention processing
		.... ..1		DCTATTN	"B'00000001" DCT is paused
13	(D)	BITSTRING	1	DCTFLGWS	OPERATOR COMMAND FLAGS
		.1..		DCTSTOP	"B'10000000" \$Z command
		.1..		DCTDELET	"B'01000000" \$C command
		..1.		DCTRSTRT	"B'00100000" \$E command
		...1		DCTRPT	"B'00010000" \$N command
		...1		DCTSOFF2	"B'00010000" MDCTSTAT/DCTSOFF shadow for line DCTs, used only during CMD \$SCAN, \$N LINE not supported
		.... 1..		DCTBKSP	"B'00001000" \$B command
		.... .1..		DCTHOLDJ	"B'00000100" \$T...H command
		.... ..11		DCTSPACE	"B'00000011" \$T...K=X command
		.... ..1.		DCTSP2	"B'00000010" Force double spacing
		.... ...1		DCTSP1	"B'00000001" Force single spacing
		.... ...1		DCTLOGAL	"B'00000001" \$TLNEx,E=Y command
14	(E)	BITSTRING	1	DCTFLAG2	MORE DCT FLAGS
		.1..		DCTRACE	"B'10000000" Device eligible for I/O tracing
		.1..		DCTERMNR	"B'01000000" Stream terminated by receiver
		..1.		DCTRBFF	"B'00100000" NJE Route buffer full
		...1		DCTRRDY	"B'00010000" NJE Route receiver ready
		.... 1..		DCT2POST	"B'00001000" SNA line manager is waiting to be \$POSTed
		.... .1..		DCT2PTRC	"B'00000100" Processor tracing on (TR=P), only used to save PCETRACE value across \$PCEDYN PCE activity
		.... ..1.		DCT2RSP	"B'00000010" NJE device open/close wait
		.... ...1		DCTRTE	"B'00000001" Route codes (HASPINIT only)
		.... ...1		DCTOPEN	"B'00000001" NJE/RJE device open req
15	(F)	BITSTRING	1	DCTFSSFL	DCT FLAGS FOR AN FSS OWNED DVC
		.1..		DCTSTART	"B'10000000" Device is being started
		.1..		DCTFCKMD	"B'01000000" CKPT mode page 'ON', TIME 'OFF'
		..1.		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
16	(10)	ADDRESS	4	DCTDCB (0)	ADDRESS OF DATA CONTROL BLOCK
16	(10)	ADDRESS	4	DCTACB (0)	ADDRESS OF ACB
16	(10)	SIGNED	4	DCTSEEK	MTRR value \$EXCP
20	(14)	BITSTRING	4		Reserved
16	(10)	DBL WORD	8	DCTMQTRD (0)	MQTR value for \$EXCP
16	(10)	BITSTRING	1	DCTSEEKF	'FF'x if MQTR is set
17	(11)	BITSTRING	1		Reserved
18	(12)	BITSTRING	6	DCTMQTR	MQTR value for \$EXCP
24	(18)	ADDRESS	4	MDCTSDCT (0)	ADDR OF NXT SUSPND RMT DCT (SNA)
24	(18)	ADDRESS	4	DCTBUFAD	ADDRESS OF CURRENT BUFFER
28	(1C)	ADDRESS	4	DCTEWF	PCE WITH EWF TO POST OR EXIT ADDR
32	(20)	SIGNED	2	DCTBUFCN	Count of active buffers
32	(20)	X'14'	0	DCTBUFLM	"20" Max buffers for some DCT types (NOT enforced for all types)
34	(22)	BITSTRING	1	DCTDEVTP	DEVICE TYPE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Start of DEVICE TYPE definition</p> <p>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:</p> <p>Test for a local printer: CLI DCTDEVTP,DCTPRT Local printer? BNE SKIPIT No, skip it</p> <p>Test for a local or remote printer or punch: TM DCTDEVTP,DCTPRPU Prt/punch or transmitter? BZ SKIPIT No, skip it</p> <p>TM DCTDEVTP,DCTNET Transmitter? BO SKIPIT Yes, skip it</p> <p>EQU X'00' RESERVED FOR PCEDARD EQU X'01' RESERVED FOR PCEDAWR</p>					
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
34	(22)	X'2'	0	DCTLNE	"DCTRJE" REMOTE JOB ENTRY LINE
34	(22)	X'E'	0	DCTMLNE	"DCTINT+DCTRJE+DCTNET" MAS JOB ENTRY LINE
34	(22)	X'6'	0	DCTLOG	"DCTINT+DCTRJE" APPLICATION LOGON DCT
34	(22)	X'C'	0	DCTSRV	"DCTINT+DCTNET" NJE SERVER DCT
		...1		DCTRDR	"X'10" LOCAL CARD READER
34	(22)	X'12'	0	DCTRJR	"DCTRJE+DCTRDR" REMOTE CARD READER
34	(22)	X'14'	0	DCTINR	"DCTINT+DCTRDR" INTERNAL READER
34	(22)	X'50'	0	DCTRJI	"DCTDVTPX+DCTRDR" REQUEST-FOR-JOBID DCT
		..1.		DCTPRT	"X'20" LOCAL PRINTER
34	(22)	X'22'	0	DCTRPR	"DCTRJE+DCTPRT" REMOTE PRINTER
		..11		DCTPUN	"X'30" LOCAL PUNCH
34	(22)	X'32'	0	DCTRPU	"DCTRJE+DCTPUN" REMOTE PUNCH
34	(22)	X'20'	0	DCTPRPU	"DCTPRT" PRINTER OR PUNCH
34	(22)	X'30'	0	DCTRPP	"DCTRDR+DCTPRPU" READER, PRINTER, OR PUNCH
34	(22)	X'42'	0	DCTRCON	"DCTRJE+DCTDVTPX" REMOTE CONSOLE
34	(22)	X'18'	0	DCTNJR	"DCTNET+DCTRDR" NETWORK JOB RECEIVER
34	(22)	X'38'	0	DCTNJT	"DCTNJR+DCTPRPU" NETWORK JOB TRANSMITTER
34	(22)	X'8'	0	DCTNSR	"DCTNET" NETWORK SYSOUT RECEIVER
34	(22)	X'28'	0	DCTNST	"DCTNSR+DCTPRPU" NETWORK SYSOUT TRANSMITTER
34	(22)	X'58'	0	DCTNRR	"DCTNJR+DCTDVTPX" NETWORK ROUTE RECEIVER
34	(22)	X'78'	0	DCTNRT	"DCTNJT+DCTDVTPX" NETWORK ROUTE TRANSMITTER
34	(22)	X'90'	0	DCTXJR	"DCTSPOF+DCTRDR" SPOOL OFFLOAD JOB RECEIVER
34	(22)	X'B0'	0	DCTXJT	"DCTXJR+DCTPRPU" SPOOL OFFLOAD JOB TRANSMITTER
34	(22)	X'80'	0	DCTXSR	"DCTSPOF" SPOOL OFFLOAD SYSOUT RECEIVER
34	(22)	X'A0'	0	DCTXST	"DCTXSR+DCTPRPU" SPOOL OFFLOAD SYSOUT XMITTER
34	(22)	X'84'	0	DCTOFF	"DCTSPOF+DCTINT" SPOOL OFFLOAD MEDIA DEVICE
Comment					
End of DEVICE TYPE definition					
End of Comment					
35	(23)	BITSTRING	1	DCTFLAG3	Flags
		1...		DCT3JWS	"B'10000000" Dev uses JOB work sel

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		DCT3SWS	"B'01000000" Dev uses SYSOUT work sel
		..1.		DCT3IOER	"B'00100000" \$ASYNCR error detected
35	(23)	X'1C'	0	DCTDALEN	"*-DCTPCE" LENGTH OF DA DCT FOR \$EXCP
36	(24)	BITSTRING	1	DCTSTAT2	SECOND STATUS FLAG BYTE
37	(25)	BITSTRING	1	MDCTMLMQ	Expected MLM queue offset
38	(26)	SIGNED	2	DCTRSINT	Device restart interval (minutes)
40	(28)	BITSTRING	4	DCTRSTIM	Last device drain time (STCK)
44	(2C)	BITSTRING	1	DCTFLAG4	Flags
		1...		DCT4ARST	"B'10000000" Automatically restart device
		.1..		DCT4NSYN	"B'01000000" Skip CDCT synchronization
45	(2D)	BITSTRING	7		Reserved for future use
52	(34)	ADDRESS	4	DCTCHAIN	ADDRESS OF NEXT DCT
56	(38)	CHARACTER	8	DCTDEVN	EBCDIC DEVICE NAME
64	(40)	ADDRESS	4	DCTUCB	UCB ADDRESS
68	(44)	ADDRESS	4	DCTTOKA	SECURITY TOKEN ADDRESS - IF 0, JES TOKEN IS ASSOCIATED WITH DEVICE; ELSE, IS ADDRESS OF TOKEN
72	(48)	CHARACTER	8	DCTSECLB	SECLABEL for device
80	(50)	ADDRESS	8	DCTCDCTX	Addr of common storage extension (64-bit)
88	(58)	BITSTRING	1	DCTLRECL	DEVICE DEFAULT LRECL

Comment

Start of DEVICE ID definition

End of Comment

89	(59)	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.111		DCTNSRID	"B'01110000" Sysout receiver
		1...		DCTRMTID	"B'10000000" Remote device
Comment					
B'10010000' DCTRMTID+DCTRDRID B'10100000' DCTRMTID+DCTPRTID B'10110000' DCTRMTID+DCTPUNID					
End of Comment					
		11..		DCTLGNID	"B'11000000" Logon
		11.1		DCTLNEID	"B'11010000" Line
		111.		DCTSVID	"B'11100000" Server
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
		1111 1111		DCTOFFID	"B'11111111" Offload parent 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

\$DCT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1111		DCTXWTID	"B'00001111" External writer device

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

89	(59)	X'5A'	0	DCTNUM	"DCTDEVID+1,2,C'H" DEVICE NUMBER
89	(59)	X'1'	0	DCTTODNE	"1" \$TO has processed the JOE
89	(59)	X'2'	0	DCTRDONE	"2" \$R or \$GR has processed the JOE

Comment

End of DEVICE ID definition

End of Comment

92	(5C)	SIGNED	4	DCTUSER0	RESERVED FOR USER
96	(60)	SIGNED	4	DCTUSER1	RESERVED FOR USER

Comment

DCT FOUNDATION EXTENSION ORG POINT - REQUIRED.

End of Comment

104	(68)	DBL WORD	8	DCTFEORG (0)	DCT FOUNDATION EXT ORIGIN
-----	------	----------	---	--------------	---------------------------

Comment

LOCAL DEVICE FOUNDATION EXTENSION

End of Comment

104	(68)	ADDRESS	4		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		RESERVED
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	4		RESERVED
124	(7C)	CHARACTER	4	DCTUNIT	UNIT FOR LOCAL DEVICES, LINES
128	(80)	BITSTRING	8		Reserved

Comment

 SNA LOGON DCT FOUNDATION EXTENSION

End of Comment

104	(68)	ADDRESS	4		MDCTADCT ADDR NEXT ACTIVE LOGON DCT
108	(6C)	ADDRESS	4	MDCTICE	ADDR OF FIRST LOGGED ON ICE
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR SNA LOGON DCTS
116	(74)	BITSTRING	1	MDCTXERR	VTAM EXIT ROUTINE ERROR CODE
117	(75)	BITSTRING	1	MDCTATYP	APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1	MDCTSUSP	DCT SUSPEND FLAG

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
123	(7B)	ADDRESS	1	MDCTPWDL	APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used

Comment

TCP NETSRV DCT FOUNDATION EXTENSION

End of Comment

104	(68)	ADDRESS	4		MDCTADCT Addr next active server DCT
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR NETSRV DCTs
116	(74)	BITSTRING	1		Not used
117	(75)	BITSTRING	1		MDCTTYPE APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1		DCT SUSPEND FLAG
123	(7B)	ADDRESS	1		APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	ADDRESS	4		MDCTPCL PCL address
132	(84)	BITSTRING	4		Not used

Comment

BSC LINE DCT FOUNDATION EXTENSION

End of Comment

104	(68)	ADDRESS	4	MDCTADCT	ADDR OF NEXT ACTIVE LINE DCT
108	(6C)	BITSTRING	1	MDCTRSEQ	RECEIVE SEQUENCE COUNT
109	(6D)	BITSTRING	1	MDCTTSEQ	TRANSMIT SEQUENCE COUNT
110	(6E)	BITSTRING	1	MDCTMODE	ADAPTER MODE SET VALUE
111	(6F)	ADDRESS	1	MDCTERCT	LINE ERROR COUNT
112	(70)	ADDRESS	4	MDCTDCT	ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1	MDCTLINE	LINE CHARACTERISTICS
117	(75)	BITSTRING	1	MDCTTYPE	TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTATTN	LINE ACTION FLAGS
119	(77)	BITSTRING	1	MDCTSTAT	LINE STATUS FLAGS
120	(78)	SIGNED	2	MDCTBFSZ	MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2	MDCTFCS	LAST RECEIVED FCS
124	(7C)	CHARACTER	4		MDCTUNIT UNIT FOR LOCAL DEVICES, LINES
128	(80)	ADDRESS	4	MDCTPCL	PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used

Comment

SNA LINE DCT FOUNDATION EXTENSION

End of Comment

104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		MDCTICE ADDR OF FIRST ALLOCATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	ADDRESS	4	MDCTWICE	ADDR OF ICE IN WAIT-TIME DELAY
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('SNA')

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
Comment					
----- TCP/IP LINE DCT FOUNDATION EXTENSION -----					
End of Comment					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		Not used for TCP/IP
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2		Not used for TCP/IP
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('TCP')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	ADDRESS	4	MDCTQTBF	TBUF queued for line req (in jesxTBUF data space)
Comment					
----- BSC REMOTE DCT FOUNDATION EXTENSION -----					
End of Comment					
104	(68)	BITSTRING	1	MDCTRECL	REMOTE DEVICE MAX RECORD LENGTH
105	(69)	BITSTRING	1	MDCTRCB	REMOTE DEVICE RECORD CNTRL BYTE
106	(6A)	BITSTRING	1	MDCTFMT	TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1	MDCTFEAT	TERMINAL FEATURES
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		RESERVED
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BFR SIZE - 5
122	(7A)	BITSTRING	2		MDCTFCS REMOTE FUNCTION CTRL SEQ
124	(7C)	CHARACTER	4		DCTUNIT RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	MDCTRFXE	***
Comment					
----- SNA REMOTE DCT FOUNDATION EXTENSION -----					
End of Comment					
104	(68)	BITSTRING	1		MDCTRECL REMOTE DEV MAX RECORD LEN
105	(69)	BITSTRING	1	MDCTSEL	REMOTE DEVICE DATASTREAM SELECT
106	(6A)	BITSTRING	1		MDCTFMT TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1		MDCTFEAT TERMINAL FEATURES
108	(6C)	ADDRESS	4		MDCTICE ADDR OF ASSOCIATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTFLG1	REMOTE FLAG BYTE
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	ADDRESS	2		MDCTBFSZ MAXIMUM RU SIZE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
122	(7A)	BITSTRING	1		RESERVED
123	(7B)	ADDRESS	1	MDCTCHLM	OUTSTANDING CHAIN LIMIT
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used

Comment

SPOOL OFFLOAD (XFR) DCT FOUNDATION EXTENSION

End of Comment

104	(68)	BITSTRING	1	XDCTSTAT	STATUS FLAG BYTE
105	(69)	BITSTRING	1	XDCTRCB	STREAM IDENTIFIER
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	ADDRESS	4	XDCTDCT	PTR TO CHAIN OF RECV/TRANS DCTS
112	(70)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used

Comment

Line transmitter/receiver DCT extension

End of Comment

104	(68)	ADDRESS	1		MDCTRECL DEVICE MAX RECORD LENGTH
105	(69)	ADDRESS	1		MDCTRCB DEVICE RECORD CNTRL BYTE
106	(6A)	ADDRESS	2		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT Address of next xmitter/ receiver
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	2		RESERVED
122	(7A)	ADDRESS	2		MDCTFCS LAST RECEIVED FCS
124	(7C)	ADDRESS	4		RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	DCTSREND	***

Comment

DEVICE EXTENSION ORG POINT - OPTIONAL.

End of Comment

136	(88)	DBL WORD	8	DCTEXORG (0)	DCT DEVICE EXTENSION ORIGIN
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Comment

READER DCT EXTENSION

End of Comment

136	(88)	SIGNED	2	DCTXEQND	DEFAULT EXECUTION NODE
138	(8A)	BITSTRING	1	DCTRDFL1	Reader flags
		1...		DCTR1IND	"B'10000000" Independent mode
139	(8B)	BITSTRING	1		Reserved for future use
140	(8C)	SIGNED	4	DCTRDRTE (0)	READER ROUTE CODE
140	(8C)	SIGNED	2	DCTRDNOD	NODE NUMBER
142	(8E)	SIGNED	2	DCTRDRTE	REMOTE NUMBER
144	(90)	SIGNED	4	DCTPRINT (0)	DEFAULT PRINT ROUTE CODE
144	(90)	SIGNED	2	DCTPRNOD	NODE NUMBER
146	(92)	SIGNED	2	DCTPRRTE	LOCAL PRINTER/REMOTE NUMBER
148	(94)	CHARACTER	8	DCTPRSER	PRINT USERID

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
156	(9C)	SIGNED	4	DCTPUNCH (0)	DEFAULT PUNCH ROUTE CODE
156	(9C)	SIGNED	2	DCTPUNOD	NODE NUMBER
158	(9E)	SIGNED	2	DCTPURTE	LOCAL PUNCH/REMOTE NUMBER
160	(A0)	CHARACTER	8	DCTPUSER	PUNCH USERID
168	(A8)	BITSTRING	4	DCTSIAFF	Default system affinity
172	(AC)	BITSTRING	1	DCTRAUTH	READER COMMAND AUTHORITY
173	(AD)	CHARACTER	1	DCTJCLAS	DEFAULT JOB CLASS
174	(AE)	CHARACTER	1	DCTMCLAS	DEFAULT MSGCLASS
175	(AF)	BITSTRING	1	DCTPRINC	PRIORITY INCREMENT
176	(B0)	BITSTRING	1	DCTPRIM	PRIORITY LIMIT
176	(B0)	X'B1'	0	DCTIRORG	*** END OF COMMON READER DCT FIELDS
180	(B4)	SIGNED	4	DCTRDEND (0)	END OF READER DCT
180	(B4)	X'B4'	0	DCTJREND	*** END OF JOB RECEIVER DCT

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

136	(88)	BITSTRING	1	DCTWORK	JOB RECEIVER WORK AREA
-----	------	-----------	---	---------	------------------------

Comment

CTWSP--\$WSP PREFIX=DCT,DSECT=NO Generate \$#GET parms

End of Comment

184	(B8)	DBL WORD	8	DCTWSP (0)	HASP WSP
184	(B8)	SIGNED	4	DCTCWS (0)	Start of common work select
184	(B8)	CHARACTER	4	DCTID2	
184	(B8)	X'6'	0	DCTVOLEN	"6" Length of volume
184	(B8)	X'4'	0	DCTVOLMX	"4" Maximum number of volumes
188	(BC)	SIGNED	1	DCTNMVOL	Number of volumes
189	(BD)	BITSTRING	3		Reserved for future use

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

192	(C0)	BITSTRING	0	DCTVOL (0)	Device select volume list
192	(C0)	X'4'	0	DCTWSENT	"4" Length of ws entry
192	(C0)	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 z/OS Release 11 the largest table is that of the Sysout API which has 22 entries.

End of Comment

192	(C0)	X'18'	0	DCTMAXWS	"21+1+2" Number of criteria that will fit in xxxWSREQ
-----	------	-------	---	----------	-------------------------------------------------------

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
216	(D8)	SIGNED	4	(0)	
216	(D8)	CHARACTER	1	DCTWSBEG (0)	Beginning of WS list
216	(D8)	BITSTRING	1	DCTWSPRI	WS priority flag
		1...		DCTQVAL	"B'10000000" Class optimum WS prio
		.1..		DCTRVAL	"B'01000000" Route optimum WS prio
		..1.		DCTQWS	"B'00100000" Use class list for WS
		...1		DCTSLASH	"B'00010000" Optional criteria switch
		.... 1...		DCTVOLFL	"B'00001000" Use volume for WS
		.... .1..		DCTWSRNG	"B'00000100" Select by range specified
		.... ..1.		DCTWSRGS	"B'00000010" Range criterion after slash
		.... ...1		DCTRWS	"B'00000001" Select by route specified
217	(D9)	BITSTRING	1	DCTWSPR2	2nd WS priority flag
		1...		DCTWSODP	"B'10000000" Outdisp specified in WS or Outdisp is not valid WS criterion for dev
		.1..		DCTWSLIM	"B'01000000" Limit specified in WS
		..1.		DCTSLIM	"B'00100000" Limit is after slash
		...1		DCTWSCTK	"B'00010000" Select by CTOKEN
		.... 1...		DCTODPNV	"B'00001000" Outdisp is not a valid WS criterion for dev; forced to WRITE/KEEP
218	(DA)	BITSTRING	1	DCTQPOS	Position of Q in WS-list
219	(DB)	BITSTRING	1	DCTLPOS	Position of LIM in WS-list
220	(DC)	BITSTRING	1	DCTRPOS	Position of RC in WS-list
221	(DD)	BITSTRING	1	DCTPPOS	Position of P in WS-list
222	(DE)	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
224	(E0)	BITSTRING	1	DCTWSREQ	Work selection via ws parm
224	(E0)	X'D8'	0	DCTWS	"DCTWSBEG,*-DCTWSBEG,C'X'" Max length ws list
320	(140)	ADDRESS	4	DCTWSTB	Addr of related ws table pair
320	(140)	X'4'	0	DCTRCMAX	"4" Define maximum route codes
320	(140)	X'0'	0	DCTNODE	"0,2,C'H" Offset/len of node in rc
320	(140)	X'2'	0	DCTROUTE	"2,2,C'H" Offset/length of remote in rc
320	(140)	X'4'	0	DCTUSEID	"4,8,C'D" Offset/len of userid in rc
320	(140)	X'C'	0	DCTRCLEN	"L'DCTNODE+L'DCTROUTE+L'DCTUSEID" Len of rc
320	(140)	X'4'	0	DCTNRLEN	"L'DCTNODE+L'DCTROUTE" Len of node and route
324	(144)	CHARACTER	0	DCTRC (0)	Space for route codes
372	(174)	ADDRESS	2	(0)	xxxNRC must follow xxxRC
372	(174)	CHARACTER	8	DCTJOBNM	Job name for device work select
380	(17C)	CHARACTER	8	DCTCURJB	Job name of element last selected
388	(184)	CHARACTER	8	DCTCRUID	Value for creator= keyword
396	(18C)	ADDRESS	1	DCTNRC	Number of route codes
397	(18D)	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)
398	(18E)	BITSTRING	1	DCTWSFG5	Misc flags
		1...		DCT1GENC	"B'10000000" Low job id has a generic
		.1..		DCT1GEN1	"B'01000000" Low job id has generic '*' as the first character
399	(18F)	BITSTRING	1		Reserved for future use
400	(190)	SIGNED	4	DCTJNUML	Device select low job number
404	(194)	SIGNED	4	DCTJNUMH	Device select high job number
408	(198)	CHARACTER	8	DCTJCHRL	Character view of low job number
416	(1A0)	CHARACTER	8	DCTJCHRH	Character view of high job number
424	(1A8)	ADDRESS	4	(2)	Reserved for future use
432	(1B0)	CHARACTER	37	DCTCLASS	Class list, terminated by blank
469	(1D5)	BITSTRING	1		Reserved for future use

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
470	(1D6)	BITSTRING	1	DCTWSFG1	Device select flags
		1...		DCTWSHLD	"B'1000000" Select held jobs
		.1..		DCTWSHNS	"B'0100000" Hold operand not specified
		..1.		DCTWSNOT	"B'0010000" Send notify message
		...1		DCTWSFJR	"B'0001000" Select within JOB range
		.... 1...		DCTWSFST	"B'00001000" Select within STC range
		.... .1..		DCTWSFSTS	"B'00000100" Select within TSU range
		.... ..1.		DCTWSFAP	"B'00000010" Select APPC initiators
		...1 111.		DCTWSANY	"B'00011110" Select any range
		471		(1D7)	BITSTRING
1...	DCTWSENL		"B'1000000" Enforce line limits		
.1..	DCTWSENP		"B'0100000" Enforce page limits		

Comment

B'00111111' Reserved for future use

End of Comment

472	(1D8)	SIGNED	4	DCTWRNUM	Writer ID number for JOE/Writer exclude list
476	(1DC)	BITSTRING	8	DCTWRASI	Writer ID address space level used for JOE/Writer exclude list
484	(1E4)	CHARACTER	8	DCTDEVN2	Device name of form: For non-SAPI DCTDEVN For SAPI jobname.sss2appl
484	(1E4)	X'1E4'	0	DCTDEVNC	"DCTDEVN2,*-DCTDEVN2,C'C" Complete device name
501	(1F5)	BITSTRING	1	DCTDEVT2	Device type (copy of DCTDEVT)
502	(1F6)	BITSTRING	3	DCTDEVI2	Device identity (copy of DCTDEVID)
505	(1F9)	BITSTRING	3		Reserved for future use
508	(1FC)	SIGNED	4	DCTLMLO	Device lower limit (records)
512	(200)	SIGNED	4	DCTLMHI	Device upper limit (records)
516	(204)	SIGNED	4	(0)	Force alignment
516	(204)	X'14C'	0	DCTCWSLN	"*-DCTCWS" Length of common criteria fields

Comment

Job work selection criteria fields

End of Comment

184	(B8)	SIGNED	4	DCTJWS (0)	Start of job work selection
184	(B8)	BITSTRING	332		Fields common with sysout select
516	(204)	BITSTRING	4	DCTSAF	Device select affinity list
520	(208)	ADDRESS	4	DCTSAFPT	System affinity list pointer
524	(20C)	CHARACTER	8	DCTSRVCL	Service class
532	(214)	CHARACTER	16	DCTSCHE	Scheduling environment
532	(214)	X'16C'	0	DCTJWSLN	"*-DCTJWS" Length of job work selection

Comment

Sysout work selection criteria fields

End of Comment

184	(B8)	SIGNED	4	DCTSWS (0)	Start of sysout work selection
184	(B8)	BITSTRING	332		Fields common with sysout select
516	(204)	CHARACTER	8	DCTFORMS	Current print/punch forms id
524	(20C)	CHARACTER	8	DCTWFORM (0)	Forms for work selection
524	(20C)	X'20C'	0	DCTWFORC	"DCTWFORM,*-DCTWFORM,C'C" Forms
588	(24C)	CHARACTER	4	DCTFCB	Printer fcb (carriage tape) id
592	(250)	CHARACTER	4	DCTUCS	Printer ucs id
596	(254)	CHARACTER	4	DCTFLASH	Printer overlay frame
600	(258)	CHARACTER	4	DCTFLSHD	N/I-printer overlay default
604	(25C)	SIGNED	4	DCTPLIML	Device lower limit (pages)
608	(260)	SIGNED	4	DCTPLIMH	Device upper limit (pages)
612	(264)	SIGNED	4	DCTAGE	Age in seconds since JOE creation
616	(268)	CHARACTER	8	DCTWTRID	Ext wtr name for work select
624	(270)	BITSTRING	8	DCTPRMD	Prmode index list
632	(278)	ADDRESS	4	DCTPRTBL	Address of PRMODE table or zero

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
636	(27C)	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
		.... ..1.		DCTWSTKN	"B'00000010" Select by token mapped by \$CTOKEN & blocked output is OK
637	(27D)	BITSTRING	1	DCT1STFL	Device select flag byte
637	(27D)	X'8'	0	DCT1SODW	"\$ODWRITE" Select OUTDISP=WRITE
637	(27D)	X'4'	0	DCT1SODH	"\$ODHOLD" Select OUTDISP=HOLD
637	(27D)	X'2'	0	DCT1SODK	"\$ODKEEP" Select OUTDISP=KEEP
637	(27D)	X'1'	0	DCT1SODL	"\$ODLEAVE" Select OUTDISP=LEAVE
637	(27D)	X'F'	0	DCT1SODA	"\$ODANY" Check all bit settings
638	(27E)	BITSTRING	2		Reserved for future use
640	(280)	ADDRESS	4	DCTGTW	Address of \$#GET Trace work area
644	(284)	ADDRESS	4	DCTASAPI	Address of SAPID (ALET is in \$SAPTOK in HCT)
648	(288)	ADDRESS	4	DCTNACTV	Next active DCT address
652	(28C)	ADDRESS	4	DCTPACTV	Previous active DCT address
656	(290)	BITSTRING	1	DCTWSFG3	WSP status flag
		1...		DCTWS3QD	"B'10000000" DCT is on an active DCT Q
657	(291)	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

660	(294)	ADDRESS	4	DCTPJOE	Next JOE to process
664	(298)	ADDRESS	4	(0)	Align on a full word
664	(298)	X'1E0'	0	DCTSWSLN	"*-DCTSWS" Length of sysout selection
664	(298)	X'1E0'	0	DCTLENG	"*-DCTCWS" Length of WSP

Comment

 SNA LOGON DCT EXTENSION

End of Comment

136	(88)	CHARACTER	8		APPLICATION PASSWORD
144	(90)	ADDRESS	2	MDCTSNECT	COUNT OF LOGGED ON TERMINALS
146	(92)	ADDRESS	1		RESERVED FOR SNA LOGON DCTS
147	(93)	ADDRESS	1	MDCTAPNL	APPLICATION NAME LENGTH

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
148	(94)	CHARACTER	8	MDCTAPPL	APPLICATION NAME
156	(9C)	SIGNED	4	MDCTLGN	COUNT OF LOGONS TO APPL
160	(A0)	SIGNED	4	MDCTNICE	LOGON FAILED FOR ICE COUNT
164	(A4)	SIGNED	4	MDCTNLNE	LOGON FAILED FOR LINE COUNT
168	(A8)	SIGNED	4	MDCTINVL	LOGON FAILED FOR DATA COUNT
172	(AC)	SIGNED	4	MDCTABRT	SESSION ABNORMAL TERM COUNT
176	(B0)	SIGNED	4		RESERVED FOR FUTURE USE
184	(B8)	DBL WORD	8	MDCTRAWK (0)	ACTIVE RECEIVE ANY BUFFER WORK
184	(B8)	SIGNED	2	MDCTRALM	ACTIVE RECEIVE ANY BUFFER LIMIT
186	(BA)	SIGNED	2	MDCTRACT	ACTIVE RECEIVE ANY BUFFER COUNT
188	(BC)	ADDRESS	4	MDCTRABF	ACTIVE RECEIVE ANY BUFFER CHAIN
192	(C0)	DBL WORD	8	MDCTRQWK (0)	QUEUED RECEIVE ANY BUFFER WORK
192	(C0)	SIGNED	2	MDCTRQLM	QUEUED RECEIVE ANY BUFFER LIMIT
194	(C2)	SIGNED	2	MDCTRQCT	QUEUED RECEIVE ANY BUFFER COUNT
196	(C4)	ADDRESS	4	MDCTRQBF	QUEUED RECEIVE ANY BUFFER CHAIN
200	(C8)	DBL WORD	8	MDCTEXWK (0)	EXIT ROUTINE WORK AREA
200	(C8)	SIGNED	4	MDCTEXCD (0)	EXIT ROUT. ACTION CODE WORKAREA
200	(C8)	BITSTRING	3		RESERVED
203	(CB)	BITSTRING	1	MDCTXCOD	EXIT ROUTINE REQ ACTION CODE
204	(CC)	ADDRESS	4	MDCTEXIT	ADDR OF NEXT SCHED LOGON DCT
208	(D0)	SIGNED	4	MDCTLGND (0)	END OF SNA LOGON DCT

Comment

TCP/IP NETSRV DCT extension

End of Comment

136	(88)	CHARACTER	8	MDCTPGM	Program name
144	(90)	CHARACTER	8	MDCTPROC	Proc name
152	(98)	ADDRESS	2	MDCTKEEP	Default keep alive interval
154	(9A)	SIGNED	2	MDCTSBSZ	Server buffer size
156	(9C)	ADDRESS	4	MDCTSCK	SCK address
160	(A0)	CHARACTER	8	MDCTSOCK	Socket name
168	(A8)	ADDRESS	4	MDCTSSQD	SQD used to start server ASID
172	(AC)	SIGNED	2	MDCTASID	ASID of server addrspc
174	(AE)	BITSTRING	1	MDCTNFLG	NETSRV flags
		1...		MDCTNVRB	"B'10000000" NETSRV Verbose mode at NETSRV level
		.1..		MDCTNTRC	"B'01000000" NETSRV common tracing at NETSRV level
		..1.		MDCTNTRJ	"B'00100000" NETSRV JES tracing at NETSRV level
175	(AF)	BITSTRING	1		Reserved
176	(B0)	CHARACTER	8	MDCTASNM	Address space name
184	(B8)	CHARACTER	8	MDCTSTAK	TCP/IP stack name
192	(C0)	SIGNED	4	MDCTS VND (0)	END OF TCP SERVER DCT

Comment

BSC LINE DCT EXTENSION

End of Comment

136	(88)	CHARACTER	8	MDCTPSWD	RJE LINE PASSWORD
144	(90)	ADDRESS	4	MDCTOBUF	RJE OUTPUT BUFFER CHAIN
148	(94)	SIGNED	4	MDCTIMOK	TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4	MDCTRAT	ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTCODE	ADDRESS OF RJE CODE TABLE
160	(A0)	BITSTRING	0	MDCTOTAL (0)	DCT EVENT COUNTERS
160	(A0)	SIGNED	4	MDCTXCP	LINE COUNTS - TOTAL EXCPS
164	(A4)	SIGNED	4	MDCTNAK	NAKS TO WRITE TEXT
168	(A8)	SIGNED	4	MDCTDCK	DATA CHECKS TO READ TEXT
172	(AC)	SIGNED	4	MDCTTO	TIMEOUTS TO READ TEXT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
176	(B0)	SIGNED	4	MDCTREM	ALL OTHER ERRORS
180	(B4)	BITSTRING	0	MDCTCNTS (0)	DCT SESSION EVENT COUNTERS
180	(B4)	SIGNED	4	MDCTSXCP	SESSION COUNTS - TOTAL EXCPS
184	(B8)	SIGNED	4	MDCTSNAK	NAKS TO WRITE TEXT
188	(BC)	SIGNED	4	MDCTSDCK	DATA CHECKS TO READ TEXT
192	(C0)	SIGNED	4	MDCTSTO	TIMEOUTS TO READ TEXT
196	(C4)	SIGNED	4	MDCTSREM	ALL OTHER ERRORS
200	(C8)	BITSTRING	1	MDCTPMBC	NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1	MDCTPMFL	NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2	MDCTDCNT	DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4	MDCTACT (0)	ACTIVE HARDWARE RJE DCT
204	(CC)	ADDRESS	4	MDCTNM	NETWORK MULTIPLE TRUNK QUEUE
208	(D0)	ADDRESS	4	MDCTNA	NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2	MDCTNR	NETWORK HALF LINE RESISTANCE
214	(D6)	SIGNED	2	MDCTNNR	NETWORK NODE TO NODE RESISTANCE
216	(D8)	ADDRESS	4	MDCTNCES	NETWORK CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1	MDCTNFL2	NETWORK FLAGS II
221	(DD)	BITSTRING	1	MDCTNFL3	Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1	MDCTLNCC	Last NCC signon record sent
224	(E0)	SIGNED	2	MDCTOPCT	COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1	MDCTNFL	NETWORK FLAGS
227	(E3)	SIGNED	1	MDCTCMCT	CONSOLE MESSAGE COUNT
227	(E3)	X'CC'	0	MDCTNETA	"MDCTNM,*-MDCTNM" NETWORK AREA FOR \$NPMWORK
228	(E4)	BITSTRING	8	MDCTNEGR	PENDING NEGATIVE XMTTER RESPONSES
236	(EC)	SIGNED	4	MDCTNO (0)	LINE ROUTE CODE
236	(EC)	ADDRESS	2	MDCTNODE	NODE NUMBER
238	(EE)	ADDRESS	1	MDCTQUAL	QUALIFIER
239	(EF)	ADDRESS	1		RESERVED FOR FUTURE USE
240	(F0)	ADDRESS	4	MDCTNMAP	NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4	MDCTRNTA	REACHABLE NODES TABLE ADDR, ZERO UNLESS LINE IN NJE USE RNT=1 BIT PER NODE
248	(F8)	CHARACTER	8	MDCTNPAS	PASSWORD to send to node (BSC Only)
256	(100)	SIGNED	4	MDCTMDOM	\$HASP500 DOM ID
260	(104)	SIGNED	4	MDCTIFEA	NJE signon feature flags supported by this line
264	(108)	ADDRESS	4	MDCTNLDV (0)	Numbers of line subdevices
264	(108)	ADDRESS	1	MDCTJTNM	LINEnn JTNUM= value
265	(109)	ADDRESS	1	MDCTJRNM	LINEnn JRNUM= value
266	(10A)	ADDRESS	1	MDCTSTNM	LINEnn STNUM= value
267	(10B)	ADDRESS	1	MDCTSRNM	LINEnn SRNUM= value
268	(10C)	ADDRESS	4	MDCTMRT	MRT address
272	(110)	ADDRESS	4	MDCTMRRT	MRRT address
276	(114)	SIGNED	4	MDCTSONT (0)	Multi-trunk signon retry time
276	(114)	SIGNED	4	MDCTNOTS	RCP CMB Throw-away time
280	(118)	BITSTRING	8	MDCTIKEY	Secure NJE signon key
288	(120)	BITSTRING	8	MDCTISTR	Secure NJE random string
296	(128)	BITSTRING	8	MDCTESTR	Encrypted received string
304	(130)	ADDRESS	4	MDCTISWL	SWEL addr (secure signon)
308	(134)	SIGNED	4	MDCTRSTM	MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2	MDCTRSTI	MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1	MDCTRSTF	MDCTRSTF Flags
		1...		MDCTRFCY	"B'10000000" Auto-restart NJE connection
		.1..		MDCTRFCN	"B'01000000" Never Auto-restart
316	(13C)	SIGNED	2	MDCTLNOD	Associated node
320	(140)	SIGNED	4	MDCTLEND (0)	END OF LINE DCT

Comment

SNA LINE DCT EXTENSION

End of Comment

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		MDCTSNCT ALLOCATED SESSION COUNT
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTATE	APT address for automatic restart from NPM recovery
160	(A0)	SIGNED	4	MDCTVREQ	TOTAL COUNT OF VTAM REQ PROCESSED
164	(A4)	SIGNED	4	MDCTXRSP	TOTAL COUNT OF EXCEPTION RESP
168	(A8)	SIGNED	4	MDCTLUST	TOTAL COUNT OF LUSTAT RECEIVED
172	(AC)	SIGNED	4	MDCTBIDR	TOTAL COUNT OF BID REJECTED
176	(B0)	SIGNED	4	MDCTMPER	TOTAL COUNT OF TEMPORARY ERRORS
180	(B4)	SIGNED	4	MDCTSCNT (5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	SIGNED	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8	MDCTATMP	APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINE _{nn} JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINE _{nn} JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINE _{nn} STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINE _{nn} SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	SNA LINE DCT END (MDCTLEND)

Comment

TCP LINE DCT EXTENSION

End of Comment

136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		RESERVED
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4		MDCTSCK SCK address for related socket
160	(A0)	CHARACTER	8		MDCTSOCK Socket name
168	(A8)	ADDRESS	4	MDCTNDCT	Addr of NETSRV DCT
172	(AC)	SIGNED	4		RESERVED
176	(B0)	SIGNED	4		RESERVED
180	(B4)	SIGNED	4	(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1	MDCTTFLG	TCP Flags
		1... ..		MDCTTDRN	"B'10000000" STOP NRQ sent (\$P)
		.1.		MDCTTVRB	"B'01000000" NETSRV verbose mode at line level
		..1.		MDCTTTRC	"B'00100000" NETSRV common tracing at line level
		...1		MDCTTTRJ	"B'00010000" NETSRV JES tracing at line level
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	BITSTRING	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		MDCTNPAS Node Password
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	TCP LINE DCT END (MDCTLEND)

Comment

MAS LINE DCT EXTENSION

End of Comment

136	(88)	ADDRESS	0	MDCTAFTK (0)	Affinity token for member
136	(88)	CHARACTER	8		Reserved
144	(90)	BITSTRING	1	MDCTMEMB	ID of associated member
145	(91)	BITSTRING	3		Reserved
148	(94)	SIGNED	4		Time of last transmission
152	(98)	ADDRESS	4		MDCTRAT Address of NIT entry

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
156	(9C)	ADDRESS	4	MDCTNATP	NATP chain for response to member signon propagation
160	(A0)	ADDRESS	4	MDCTNPCH	Chain of permanent NATPs
164	(A4)	ADDRESS	4	MDCTNQSE	QSE address
168	(A8)	ADDRESS	4	MDCTMDNQ	Member down chain field
172	(AC)	SIGNED	4	MDCTMTIM	Time last MAS I/J sent to this member
176	(B0)	SIGNED	4	MDCTMDID	\$HASP501 DOM id
180	(B4)	SIGNED	4	(5)	Reserved
200	(C8)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		Reserved
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Reserved
224	(E0)	SIGNED	2		Reserved
226	(E2)	BITSTRING	1		MDCTNFL Network flags
227	(E3)	SIGNED	1		Reserved
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM \$HASP500 DOM ID
260	(104)	SIGNED	4		NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		LINEnn JTNUM= value
265	(109)	ADDRESS	1		LINEnn JRNUM= value
266	(10A)	ADDRESS	1		LINEnn STNUM= value
267	(10B)	ADDRESS	1		LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		Reserved
288	(120)	BITSTRING	8		Reserved
296	(128)	BITSTRING	8		Reserved
304	(130)	ADDRESS	4		Reserved
308	(134)	SIGNED	4		Reserved
312	(138)	SIGNED	2		Reserved
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		Reserved
316	(13C)	SIGNED	2		Reserved
320	(140)	SIGNED	4	(0)	MAS LINE DCT END (MDCTLEND)

Comment

LOCAL/RMT PRINT/PUNCH DCT EXTENSION.

End of Comment

184	(B8)	BITSTRING	480		SPACE FOR SYSOUT WORK SELECTION
664	(298)	CHARACTER	8	DCTFSSNM	FSS NAME
672	(2A0)	ADDRESS	4	DCTFSSCH (0)	NEXT FSS DCT (INIT ONLY)
672	(2A0)	SIGNED	2	DCTFSSNW (0)	FSS ID TO CHANGE TO FOR NEW FSS (POST-INIT FSS-MODE DCT ONLY)
672	(2A0)	SIGNED	4	DCTWKBUF	ADDR OF PRINTER WORK BUFFER (POST-INIT JES-MODE DCT)
676	(2A4)	SIGNED	4	DCTFSID (0)	FSID OF DEVICE FSA, FSS MODE
676	(2A4)	SIGNED	2	DCTFSSID	FSS PORTION OF FSID
678	(2A6)	SIGNED	2	DCTFSAID	FSA PORTION OF FSID
680	(2A8)	CHARACTER	4	DCTNIFCB	3800 INSTALLATN DEFAULT FCB
684	(2AC)	CHARACTER	4	DCTDDFCB	DEVICE DEFAULT FCB

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
688	(2B0)	BITSTRING	1	DCTINDEX	PRINTER INDEX VALUE
689	(2B1)	BITSTRING	1	DCTPPFL	PRINT/PUNCH FLAGS
690	(2B2)	BITSTRING	1	DCTPPSW	PRINT/PUNCH SWITCHES
691	(2B3)	BITSTRING	1	DCTPPSW2	PRINT/PUNCH SWITCHES
692	(2B4)	BITSTRING	1	DCTPPSW3	PRINT/PUNCH SWITCHES
693	(2B5)	BITSTRING	1	DCTPPSW4	PRINT/PUNCH SWITCHES
694	(2B6)	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" \$\$prt for FSS prt pending
		.... ..1.		DCT5\$PPN	"B'00000010" \$Pprt for FSS prt pending
		.... ...1		DCT5FROF	"B'00000001" FSA level rolling trace off
695	(2B7)	BITSTRING	1	DCTPPSW6	PRINT/PUNCH Switches
		1...		DCT6NOTR	"B'10000000" TRC on OUTPUT card not honored
696	(2B8)	CHARACTER	4	DCTCHAR1	N/I-PRINTER XLATE TABLE 1
700	(2BC)	CHARACTER	4	DCTCHAR2	N/I-PRINTER XLATE TABLE 2
704	(2C0)	CHARACTER	4	DCTCHAR3	N/I-PRINTER XLATE TABLE 3
708	(2C4)	CHARACTER	4	DCTCHAR4	N/I-PRINTER XLATE TABLE 4
712	(2C8)	CHARACTER	4	DCTMODF	N/I-PRINTER MODIFY IDENTIFIER
716	(2CC)	ADDRESS	2	DCTLDPID	3800 LOST DATA PAGE ID G38E
718	(2CE)	BITSTRING	1	DCTDCPTN	DEFAULT COMPACTION TABLE NUMBER
719	(2CF)	BITSTRING	1	DCTACPTN	ACTIVE COMPACTION TABLE NUMBER
720	(2D0)	SIGNED	2	DCTCKPTP	NO. OF LOGICAL PAGES/CKPT
722	(2D2)	SIGNED	2	DCTCKPTL	NO. OF LINES/LOGICAL PAGE
724	(2D4)	SIGNED	2	DCTCKPTT	AMT OF TIME BEFORE FORCED CKPT
726	(2D6)	SIGNED	2	DCTNPRO	TIME BEFORE NON PROCESS RUN OUT
728	(2D8)	ADDRESS	4	DCTPRTRN	ADDRESS OF DEFAULT TRAN TABLE
732	(2DC)	ADDRESS	4	DCTCCWTB	ADDRESS OF DEFAULT CCW TRN TBLE
736	(2E0)	SIGNED	4	DCTCSW	PRINT INTERVENTION REQ AREA
736	(2E0)	X'2E4'	0	DCTPREND	*** PRINT/PUNCH DCT EXTENSION END

Comment

SPOOL OFFLOAD DEVICE DCT EXTENSION

End of Comment

136	(88)	ADDRESS	4	XDCTDTE	ADDRESS OF SUB-TASK DTE
140	(8C)	SIGNED	4	XDCTSEQN	NUM BLOCKS READ FOR LOAD CKPT
144	(90)	SIGNED	2	XDCTXNUM	DEVICE NUMBER
146	(92)	SIGNED	2	XDCTSUBR	SUB-TASK REQUEST
148	(94)	SIGNED	2	XDCTSUBC	SUB-TASK REQ COMPLETION CODE
150	(96)	BITSTRING	1	XDCTUNCT	UNIT COUNT
151	(97)	BITSTRING	1	XDCTFLG1	FLAG BYTE
152	(98)	BITSTRING	1	XDCTFLG2	FLAG BYTE
153	(99)	BITSTRING	1	XDCTVOLS	OFFLOAD VOLUME COUNT
154	(9A)	BITSTRING	1	XDCTLABL	LABEL TYPE (SL,NL,...)
155	(9B)	BITSTRING	2	XDCTRTPD	RETENTION PERIOD IN DAYS
157	(9D)	CHARACTER	8	XDCTUNIT	DEFAULT UNIT NAME
165	(A5)	BITSTRING	1	XDCTOFSL	Offload archive bits
166	(A6)	BITSTRING	2	XDCTFREE	RESERVED FOR FUTURE USAGE

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

168	(A8)	SIGNED	4	XDCTTIME	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	SIGNED	4	XDCTDATE	DATE OFFLOAD DATA SET ALLOCATED

\$DCT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
End of Comment					
176	(B0)	SIGNED	4	XDCTTVR	TIME VERIFICATION STAMP
180	(B4)	SIGNED	4	XDCTDVER	DATE VERIFICATION STAMP
184	(B8)	ADDRESS	4	XDCTCMPQ	XFRDCT SUB-TASK COMPLETION Q
188	(BC)	ADDRESS	4	XDCTBUFQ	Q OF BUFFERS WAITING COMPLETION
192	(C0)	ADDRESS	4	XDCTACTV	QUEUE OF ACTIVE XFR DCTS
196	(C4)	BITSTRING	1	XDCTERCT	READ ERROR COUNT
197	(C5)	BITSTRING	1	XDCTOPCT	COUNT OF RECV/TRANS DCTS OPEN
198	(C6)	SIGNED	2	XDCTMAXB	Max buffers allowed to hold
200	(C8)	CHARACTER	44	XDCTDSN	OFFLOAD DATASET NAME
244	(F4)	SIGNED	4	DCTXFEND (0)	END OF OFFLOAD DCT EXTENSION

Comment

JOB TRANSMITTER DCT EXTENSION

End of Comment					
184	(B8)	BITSTRING	364		SPACE FOR JOB WORK SELECTION
548	(224)	BITSTRING	1	DCTJTDSP	DISPOSITION FLAGS
		1...		DCTJTDPG	"B'10000000" PURGE JOB AFTER DUMP
		.1...		DCTJTDHD	"B'01000000" HOLD JOB AFTER DUMP
		..1.		DCTJTDKP	"B'00100000" KEEP JOB AFTER DUMP
548	(224)	X'225'	0	DCTOJEND	*** OFFLOAD JOB XMITTER DCT EXT END
548	(224)	X'225'	0	DCTJTEND	*** NETWORK JOB XMITTER

Comment

SYSOUT TRANSMITTER DCT EXTENSION.

End of Comment					
184	(B8)	BITSTRING	480		SPACE FOR SYSOUT WORK SELECTION
664	(298)	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
665	(299)	BITSTRING	3		Reserved for future use
665	(299)	X'29C'	0	DCTOSEND	*** OFFLOAD SYSOUT XMITTER EXT END
665	(299)	X'29C'	0	DCTSTEND	*** NETWORK SYSOUT XMITTER

Comment

OFFLOAD JOB RECEIVER DCT EXTENSION

End of Comment					
184	(B8)	BITSTRING	364		SPACE FOR JOB WORK SELECTION
548	(224)	BITSTRING	4	DCTJRSAF	DEVICE MODIFY AFFINITY (EBCDIC)
552	(228)	BITSTRING	4	DCTJRMSF	DEVICE MODIFY AFFINITY (FLAGS)
556	(22C)	BITSTRING	1	DCT1JRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1JHLD	"B'10000000" HOLD JOB MODIFY FLAG
		.1...		DCT1JHNL	"B'01000000" HOLD NOT TO BE MODIFIED
557	(22D)	CHARACTER	1	DCTJRMCL	DEVICE MODIFY JOB CLASS
558	(22E)	BITSTRING	1		RESERVED FOR FUTURE USE
559	(22F)	ADDRESS	4	DCTJRMNO	DEVICE MODIFY NODE NUMBER
559	(22F)	X'231'	0	DCTOJRLN	*** JOB RECEIVER DCT END

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
OFFLOAD SYSOUT RECEIVER DCT EXTENSION					
End of Comment					
184	(B8)	BITSTRING	480		SPACE FOR SYSOUT WORK SELECTION
664	(298)	BITSTRING	1	DCT1SRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1SHLD	"B'10000000" SET HELD POST-EXECUTION JOBS
		.1..		DCT1SHNL	"B'01000000" HOLD NOT TO BE MODIFIED
		.... 1..		DCT1SBUR	"B'00001000" SET BURSTED OUTPUT
		.... .1..		DCT1SBNL	"B'00000100" BURST NOT TO BE MODIFIED
665	(299)	BITSTRING	1	DCT2SRFL	DEVICE MODIFY FLAG2 BYTE
665	(299)	X'8'	0	DCT2MODW	"\$ODWRITE" MODIFY OUTDISP=WRITE
665	(299)	X'4'	0	DCT2MODH	"\$ODHOLD" MODIFY OUTDISP=HOLD
665	(299)	X'2'	0	DCT2MODK	"\$ODKEEP" MODIFY OUTDISP=KEEP
665	(299)	X'1'	0	DCT2MODL	"\$ODLEAVE" MODIFY OUTDISP=LEAVE
665	(299)	X'F'	0	DCT2MODA	"\$ODANY" CHECK ALL BIT SETTINGS
666	(29A)	BITSTRING	1	DCT3SRFL	DEVICE SELECT FLAG3 BYTE
666	(29A)	X'8'	0	DCT3SODW	"\$ODWRITE" SELECT OUTDISP=WRITE
666	(29A)	X'4'	0	DCT3SODH	"\$ODHOLD" SELECT OUTDISP=HOLD
666	(29A)	X'2'	0	DCT3SODK	"\$ODKEEP" SELECT OUTDISP=KEEP
666	(29A)	X'1'	0	DCT3SODL	"\$ODLEAVE" SELECT OUTDISP=LEAVE
666	(29A)	X'F'	0	DCT3SODA	"\$ODANY" CHECK ALL BIT SETTINGS
667	(29B)	CHARACTER	1	DCTSRMCL	DEVICE MODIFY JOB CLASS
668	(29C)	CHARACTER	12	DCTSRMNO	DEVICE MODIFY NODE NUMBER
680	(2A8)	CHARACTER	4	DCTSRMFC	DEVICE MODIFY FCB ID
684	(2AC)	CHARACTER	4	DCTSRMFL	DEVICE MODIFY FLASH
688	(2B0)	CHARACTER	4	DCTSRMUC	DEVICE MODIFY UCS ID
692	(2B4)	CHARACTER	8	DCTSRMPR	DEVICE MODIFY PRMODE LIST
700	(2BC)	CHARACTER	8	DCTSRMFO	DEVICE MODIFY FORMS ID
708	(2C4)	CHARACTER	1	DCTSRMWI	DEVICE MODIFY WRITER ID
708	(2C4)	X'2CC'	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
		.... ...1		DCTRCVPG	"B'00000001" NJE xmitter received 'permission granted'
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
708	(2C4)	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

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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
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...		DCTPASCII	"B'01000000" USASCII CODE
		..1.		DCTPCTC	"B'00100000" CHANNEL-TO-CHANNEL ADAPTER
		...1		DCTPHASP	"B'00010000" HASP-TO-HASP
		.... 1..		DCTPCOMP	"B'00001000" COMPRESS-EXPAND FEATURE
		.... .1..		DCTPNADS	"B'00000100" NO ABORTIVE DISCONNECT
		.... .1..		DCTPWIDE	"B'00000010" WIDE-BAND LINE
		.... ...1		DCTPFULL	"B'00000001" FULL-DUPLEX LINE
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

Offsets		Dec	Hex	Type/Value	Len	Name (Dim)	Description
				...1		DCTPTCP	"B'00010000" TCP/IP LOGICAL DEVICE
				.... 1111		DCTPSUBC	"B'00001111" LOW ORDER 4 BITS (X'0F) FOR DEVICE SUB-CLASSIFICATION
708	(2C4)		X'81'		0	DCTPLU1	"DCTPSNA+X'01" SNA LU TYPE 1
708	(2C4)		X'41'		0	DCTP20S2	"DCTPCPU+X'01" 360/20 SUBMODEL 2
708	(2C4)		X'42'		0	DCTP20S5	"DCTPCPU+X'02" 360/20 SUBMODEL 5
708	(2C4)		X'43'		0	DCTP20S6	"DCTPCPU+X'03" 360/20 SUBMODEL 6
708	(2C4)		X'44'		0	DCTP360	"DCTPCPU+X'04" SYSTEM/360
708	(2C4)		X'45'		0	DCTP1130	"DCTPCPU+X'05" 1130
708	(2C4)		X'46'		0	DCTPSYS3	"DCTPCPU+X'06" SYSTEM/3
708	(2C4)		X'47'		0	DCTPCRS7	"DCTPCPU+X'07" RESERVED FOR FUTURE USE
708	(2C4)		X'48'		0	DCTPSY36	"DCTPCPU+X'08" SYSTEM 36 (BSC MODE)
708	(2C4)		X'49'		0	DCTP370	"DCTPCPU+X'09" SYSTEM/370
708	(2C4)		X'4A'		0	DCTP20S4	"DCTPCPU+X'0A" 360/20 SUBMODEL 4
708	(2C4)		X'4B'		0	DCTP2922	"DCTPCPU+X'0B" 2922
708	(2C4)		X'21'		0	DCTP2770	"DCTPHDW+X'01" 2770
708	(2C4)		X'22'		0	DCTP3781	"DCTPHDW+X'02" 3781
708	(2C4)		X'23'		0	DCTP3740	"DCTPHDW+X'03" 3740
708	(2C4)		X'24'		0	DCTP3780	"DCTPHDW+X'04" 3780
708	(2C4)		X'25'		0	DCTP2780	"DCTPHDW+X'05" 2780
Comment							
MDCTSEL							
End of Comment							
				1...		DCTPOUTB	"B'10000000" OUTBOUND DEVICE SELECTION
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.		DCTPN DST	"B'00100000" MEDIA NOT BASIC EXCHANGE

\$DCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...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.		MDCTNF2R	"B'01000000" CONCURRENCE REQUIRED
		.1.		MDCTNF2S	"B'00100000" RESET REQUIRED
		...1		MDCTNF2N	"B'00010000" ON ACTIVE QUEUE
		.... 1...		MDCTNF2A	"B'00001000" SECONDARY TRUNK
		.... .1..		MDCTNF2D	"B'00000100" SIGNON INPUT EXPECTED
		.... .1.		MDCTNF2I	"B'00000010" Signon is pending MAS validation
		.... ...1		MDCTNF2J	"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.		MDCTNF3S	"B'00100000" Secure NJE signon
		...1		MDCTNF3Q	"B'00010000" DCT is queued to PCT
		.... ...1		MDCTNF3E	"B'00000001" \$EXTP PUT failed for other than buffer shortage while transmitting NMR
Comment					
DCTPPFL					
End of Comment					
		1...		DCTEJECT	"B'10000000" PRINTER IS AT TOP OF PAGE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		DCTRPSE	"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" SUPPRESS SEPARATOR PAGES
		.... 1..		DCTPPSWT	"B'00001000" UCS TRAIN ALTERED
		.... .1..		DCTPPSWU	"B'00000100" UCS NOT STANDARD
		.... ..1.		DCTPPSWI	"B'00000010" DEVICE IDLE MESSAGE ISSUED
		.... ...1		DCTPPSWO	"B'00000001" OPERATOR ACTION ALLOWED

Comment

DCTPPSW2

End of Comment

		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.		DCTSDDSW	"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
708	(2C4)	X'F'	0	DCTS3CPY	"DCTS3CNO+DCTS3CDS+DCTS3CJB+DCTS3CON" COPYMARKS reset

Comment

DCTPPSW4

End of Comment

		1...		DCTS4NPS	"B'10000000" NO DATA SET PRESELECTION
--	--	-----------	--	----------	---------------------------------------

\$DCT Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
		.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
		.1..		XDCT2NDF	"B'00100000" Node of offload and this node are different
		...1		XDCT2NVR	"B'00010000" Skip checks of time/date stamp from first record
		.... 1..		XDCT2CRT	"B'00001000" Set create time for jobs and SYSOUT to original creation time
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		DCTCDCTX	50	
DCT\$FCLS	2C4	8	DCTCHAIN	34	
DCT\$TNSP	2C4	2	DCTCHAR1	2B8	
DCTABORT	2C4	2	DCTCHAR2	2BC	
DCTACB	10		DCTCHAR3	2C0	
DCTACPTN	2CF		DCTCHAR4	2C4	
DCTADS	2C4	80	DCTCIP	2C4	80
DCTAGE	264		DCTCKJAM	2C4	10
DCTALIGN	2C4	20	DCTCKPTL	2D2	
DCTARMID	59	5	DCTCKPTP	2D0	
DCTASAPI	284		DCTCKPTT	2D4	
DCTATTN	C	2	DCTCLASS	1B0	
DCTBFCKP	2C4	1	DCTCMODF	F	4
DCTBKSP	D	8	DCTCMODJ	F	2
DCTBUFAD	18		DCTCOMID	59	3
DCTBUFCN	20		DCTCRUID	184	
DCTBUFLM	20	14	DCTCSW	2E0	
DCTCCWTB	2DC		DCTCURJB	17C	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCTCWS	B8		DCTJNUML	190	
DCTCWSLN	204	14C	DCTJOBNM	174	
DCTDALEN	23	1C	DCTJREND	B4	B4
DCTDCB	10		DCTJRMCL	22D	
DCTDCPTN	2CE		DCTJRMNO	22F	
DCTDDFCB	2AC		DCTJRMSF	228	
DCTDELET	D	40	DCTJRSAF	224	
DCTDEVID	59		DCTJTDHD	224	40
DCTDEVI2	1F6		DCTJTDKP	224	20
DCTDEVN	38		DCTJTDPG	224	80
DCTDEVNC	1E4	1E4	DCTJTDSP	224	
DCTDEVN2	1E4		DCTJTEND	224	225
DCTDEVTP	22		DCTJWS	B8	
DCTDEVT2	1F5		DCTJWSLN	214	16C
DCTDOPN	2C4	80	DCTLDPID	2CC	
DCTDRAIN	C	40	DCTLEASE	2C4	80
DCTDVTPX	22	40	DCTLENG	298	1E0
DCTEJECT	2C4	80	DCTLGNID	59	C0
DCTEOF	2C4	10	DCTLIMHI	200	
DCTERMNR	E	40	DCTLIMLO	1FC	
DCTETX	2C4	20	DCTLNE	22	2
DCTEWF	1C		DCTLNEID	59	D0
DCTEXORG	88		DCTLOG	22	6
DCTFCB	24C		DCTLOGAL	D	1
DCTFCKMD	F	40	DCTLPOS	DB	
DCTFDFLT	F	20	DCTLRECL	58	
DCTFEORG	68		DCTMAXWS	C0	18
DCTFLAGS	D		DCTMCLAS	AE	
DCTFLAG2	E		DCTMLNE	22	E
DCTFLAG3	23		DCTMODF	2C8	
DCTFLAG4	2C		DCTMQTR	12	
DCTFLASH	254		DCTMQTRD	10	
DCTFLGFW	C		DCTNACTV	288	
DCTFLSHD	258		DCTNET	22	8
DCTFLUSH	2C4	20	DCTNEWFS	2C4	10
DCTFORMS	204		DCTNIBRS	27C	40
DCTFSAID	2A6		DCTNIFCB	2A8	
DCTFSET	F	8	DCTNIMRK	2C4	20
DCTFSID	2A4		DCTNINIT	2C4	8
DCTFSSCH	2A0		DCTNIPRT	2C4	80
DCTFSSFL	F		DCTNJR	22	18
DCTFSSID	2A4		DCTNJRID	59	50
DCTFSSMD	F	1	DCTNJT	22	38
DCTFSSNM	298		DCTNJTID	59	40
DCTFSSNW	2A0		DCTNMVOL	BC	
DCTFSYNC	F	10	DCTNODE	140	0
DCTGTBSM	2C4	20	DCTNPLIM	2C4	80
DCTGTDCB	2C4	40	DCTNPRO	2D6	
DCTGTW	280		DCTNRC	18C	
DCTHOLD	C	20	DCTNRLEN	140	4
DCTHOLDJ	D	4	DCTNRR	22	58
DCTHOLDS	2C4	10	DCTNRT	22	78
DCTID	0		DCTNSR	22	8
DCTID2	B8	E6E2D740	DCTNSRID	59	70
DCTINDEX	2B0		DCTNST	22	28
DCTINDIR	18D	80	DCTNSTID	59	60
DCTINR	22	14	DCTNUM	59	5A
DCTINRID	59	0	DCTODPNV	D9	8
DCTINT	22	4	DCTOFF	22	84
DCTINUSE	C	80	DCTOFFID	59	FF
DCTIRORG	B0	B1	DCTOJEND	224	225
DCTJCHRH	1A0		DCTOJRLN	22F	231
DCTJCHRL	198		DCTONODE	DE	
DCTJCLAS	AD		DCTOPEN	E	1
DCTJNUMH	194		DCTOREND	2C4	2CC

\$DCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCTOSEND	299	29C	DCTPSUBC	2C4	F
DCTOUTID	59	E	DCTPSUSP	2C4	1
DCTPABEX	2C4	20	DCTPSYS3	2C4	46
DCTPACTV	28C		DCTPSY36	2C4	48
DCTPALTC	2C4	2	DCTPTAB	2C4	10
DCTPASCI	2C4	40	DCTPTCP	2C4	10
DCTPATTN	C	4	DCTPTRSP	2C4	80
DCTPAUSE	C	1	DCTPUN	22	30
DCTPBEXP	2C4	40	DCTPUNCH	9C	
DCTPBLK	2C4	80	DCTPUNID	59	30
DCTPBUF	2C4	1	DCTPUNOD	9C	
DCTPCCTL	2C4	10	DCTPURTE	9E	
DCTPCE	8		DCTPUSER	A0	
DCTPCOMP	2C4	8	DCTPVAR	2C4	40
DCTPCPCT	2C4	1	DCTPWIDE	2C4	2
DCTPCPU	2C4	40	DCTP1130	2C4	45
DCTPCRS7	2C4	47	DCTP20S2	2C4	41
DCTPCTC	2C4	20	DCTP20S4	2C4	4A
DCTPFCB	2C4	8	DCTP20S5	2C4	42
DCTPFULL	2C4	1	DCTP20S6	2C4	43
DCTPHASP	2C4	10	DCTP2770	2C4	21
DCTPHDW	2C4	20	DCTP2780	2C4	25
DCTPJOE	294		DCTP2922	2C4	4B
DCTPLIMH	260		DCTP360	2C4	44
DCTPLIML	25C		DCTP370	2C4	49
DCTPLU1	2C4	81	DCTP3740	2C4	23
DCTPMRF	2C4	2	DCTP3780	2C4	24
DCTPNADS	2C4	4	DCTP3781	2C4	22
DCTPN DST	2C4	20	DCTQPOS	DA	
DCTPOSNL	DE	FF	DCTQVAL	D8	80
DCTPOST	2C4	4	DCTQWS	D8	20
DCTPOUTB	2C4	80	DCTRACE	E	80
DCTPPFL	2B1		DCTRANS	2C4	10
DCTPPPOS	DD		DCTRAUTH	AC	
DCTPPRES	2C4	4	DCTRBFF	E	20
DCTPPSW	2B2		DCTRC	144	
DCTPPSWB	2C4	20	DCTRCLN	140	C
DCTPPSWC	2C4	80	DCTRCLN	140	4
DCTPPSWI	2C4	2	DCTRCON	22	42
DCTPPSWO	2C4	1	DCTRCPG	2C4	1
DCTPPSWS	2C4	10	DCTRDEND	B4	
DCTPPSWT	2C4	8	DCTRDFL1	8A	
DCTPPSWU	2C4	4	DCTRDNOD	8C	
DCTPPSW2	2B3		DCTRDONE	59	2
DCTPPSW3	2B4		DCTRDR	22	10
DCTPPSW4	2B5		DCTRDRID	59	10
DCTPPSW5	2B6		DCTRDRT	8C	
DCTPPSW6	2B7		DCTRD RTE	8E	
DCTPREND	2E0	2E4	DCTREJDV	2C4	2
DCTPRGID	59	4	DCTREJJB	2C4	4
DCTPRINC	AF		DCTREJRM	2C4	8
DCTPRINT	90		DCTREJSY	2C4	1
DCTPRLIM	B0		DCTRJE	22	2
DCTPRMD	270		DCTRJI	22	50
DCTPRNOD	90		DCTRJR	22	12
DCTPROG	2C4	20	DCTRMFCB	2C4	4
DCTPRPU	22	20	DCTRM TID	59	80
DCTPRRTE	92		DCTROUTE	140	2
DCTPRSER	94		DCTRPOS	DC	
DCTPRT	22	20	DCTRPP	22	30
DCTPRTBL	278		DCTRPR	22	22
DCTPRTID	59	20	DCTRPSSE	2C4	40
DCTPRTRN	2D8		DCTRPT	D	10
DCTPSHDR	2C4	8	DCTRPU	22	32
DCTPSNA	2C4	80	DCTRRDY	E	10

\$DCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCTRSINT	26		DCTS3CJB	2C4	2
DCTRSTIM	28		DCTS3CNO	2C4	8
DCTRSTRT	D	20	DCTS3CON	2C4	1
DCTRRTAM	C	8	DCTS3CPY	2C4	F
DCTRTE	E	1	DCTS3TFC	2C4	40
DCTRTEID	59	8	DCTS4AIS	2C4	4
DCTRTEQ	18D		DCTS4NPS	2C4	80
DCTRUSBC	2C4	40	DCTS4OPI	2C4	10
DCTRVAL	D8	40	DCTS4TUN	2C4	8
DCTRWS	D8	1	DCTTCEL	2C4	8
DCTR1IND	8A	80	DCTTODNE	59	1
DCTR190	2C4	4	DCTTOKA	44	
DCTSAF	204		DCTUCB	40	
DCTSAFPT	208		DCTUCS	250	
DCTSAPID	59	D	DCTUCSBL	2C4	20
DCTSACHE	214		DCTUNAL	C	10
DCTSASSW	2C4	2	DCTUNIT	7C	
DCTSECLB	48		DCTUSEID	140	4
DCTSEEK	10		DCTUSER0	5C	
DCTSEEKF	10		DCTUSER1	60	
DCTSEPNL	2C4	4	DCTVOL	C0	
DCTSFSID	59	1	DCTVOLEN	B8	6
DCTSHARE	2C4	40	DCTVOLFL	D8	8
DCTSHMSG	2C4	4	DCTVOLMX	B8	4
DCTSIAFF	A8		DCTWFORC	20C	20C
DCTSINON	2C4	8	DCTWFORM	20C	
DCTSIZE	4		DCTWKBUF	2A0	
DCTSLASH	D8	10	DCTWORK	88	
DCTSLIM	D9	20	DCTWRASI	1DC	
DCTSNHLT	2C4	40	DCTWRNUM	1D8	
DCTSNHOR	2C4	20	DCTWS	E0	D8
DCTSOFF	2C4	10	DCTWSANY	1D6	1E
DCTSOFF2	D	10	DCTWSBEG	D8	
DCTSPACE	D	3	DCTWSBNS	27C	10
DCTSPNID	59	2	DCTWSBTH	27C	4
DCTSPOF	22	80	DCTWSCTK	D9	10
DCTSP1	D	1	DCTWSDAN	27C	20
DCTSP2	D	2	DCTWSDSH	27C	80
DCTSPREND	80	88	DCTWSENL	1D7	80
DCTSRMCL	29B		DCTWSENP	1D7	40
DCTSRMFC	2A8		DCTWSENT	C0	4
DCTSRMFL	2AC		DCTWSFAP	1D6	2
DCTSRMFO	2BC		DCTWSFG1	1D6	
DCTSRMNO	29C		DCTWSFG2	27C	
DCTSRMPR	2B4		DCTWSFG3	290	
DCTSRMUC	2B0		DCTWSFG4	1D7	
DCTSRMWI	2C4		DCTWSFG5	18E	
DCTSRV	22	C	DCTWSFJR	1D6	10
DCTSRVCL	20C		DCTWSFST	1D6	8
DCTSRVID	59	E0	DCTWSFTS	1D6	4
DCTSTART	F	80	DCTWSHLD	1D6	80
DCTSTAT	C		DCTWSHNS	1D6	40
DCTSTAT2	24		DCTWSIP	27C	8
DCTSTDHD	298	40	DCTWSLIM	D9	40
DCTSTDKP	298	20	DCTWSLOC	18D	80
DCTSTDPG	298	80	DCTWSNET	18D	20
DCTSTDSP	298		DCTWSNOT	1D6	20
DCTSTEND	299	29C	DCTWSODP	D9	80
DCTSTFSS	2C4	40	DCTWSP	B8	
DCTSTOP	D	80	DCTWSPRI	D8	
DCTSTRT	C	4	DCTWSPRL	C0	8
DCTSUSPD	2C4	2	DCTWSPR2	D9	
DCTSWS	B8		DCTWSREQ	E0	
DCTSWSLN	298	1E0	DCTWSRGS	D8	2
DCTS3CDS	2C4	4	DCTWSRMT	18D	40

\$DCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCTWSRNG	D8	4	MDCTAFTK	88	
DCTWSTB	140		MDCTAPNL	93	
DCTWSTKN	27C	2	MDCTAPPL	94	
DCTWSUSE	18D	10	MDCTASID	AC	
DCTWS3QD	290	80	MDCTASNM	B0	
DCTWTRID	268		MDCTATE	9C	
DCTXEQND	88		MDCTATMP	F8	
DCTXFEND	F4		MDCTATTN	76	
DCTXFRID	59	F	MDCTATT8	2C4	1
DCTXJR	22	90	MDCTATYP	75	
DCTXJT	22	B0	MDCTBFSZ	78	
DCTXSR	22	80	MDCTBIDR	AC	
DCTXST	22	A0	MDCTCHLM	7B	
DCTXWTID	59	F	MDCTCMCT	E3	
DCT1GENC	18E	80	MDCTCNTS	B4	
DCT1GEN1	18E	40	MDCTCODE	9C	
DCT1JHLD	22C	80	MDCTDCK	A8	
DCT1JHNL	22C	40	MDCTDCNT	CA	
DCT1JRFL	22C		MDCTDCT	70	
DCT1SBNL	298	4	MDCTDSC	2C4	8
DCT1SBUR	298	8	MDCTERCT	6F	
DCT1SHLD	298	80	MDCTESTR	128	
DCT1SHNL	298	40	MDCTEXCD	C8	
DCT1SODA	27D	F	MDCTEXIT	CC	
DCT1SODH	27D	4	MDCTEXWK	C8	
DCT1SODK	27D	2	MDCTFCS	7A	
DCT1SODL	27D	1	MDCTFEAT	6B	
DCT1SODW	27D	8	MDCTFLG1	76	
DCT1SRFL	298		MDCTFMT	6A	
DCT1STFL	27D		MDCTICE	6C	
DCT2MODA	299	F	MDCTIFEA	104	
DCT2MODH	299	4	MDCTIKEY	118	
DCT2MODK	299	2	MDCTIMER	2C4	80
DCT2MODL	299	1	MDCTIMOK	94	
DCT2MODW	299	8	MDCTINTE	2C4	4
DCT2POST	E	8	MDCTINVL	A8	
DCT2PTRC	E	4	MDCTISTR	120	
DCT2RSP	E	2	MDCTISWL	130	
DCT2SRFL	299		MDCTJOB	2C4	30
DCT3IOER	23	20	MDCTJOB1	2C4	20
DCT3JWS	23	80	MDCTJOB2	2C4	10
DCT3SODA	29A	F	MDCTJRNM	109	
DCT3SODH	29A	4	MDCTJTNM	108	
DCT3SODK	29A	2	MDCTKEEP	98	
DCT3SODL	29A	1	MDCTLEND	140	
DCT3SODW	29A	8	MDCTLGND	D0	
DCT3SRFL	29A		MDCTLINE	74	
DCT3SWS	23	40	MDCTLNCC	DF	
DCT3UCSV	2C4	10	MDCTLNOD	13C	
DCT4ARST	2C	80	MDCTLOGN	9C	
DCT4NSYN	2C	40	MDCTLUST	A8	
DCT4TRNN	2C4	1	MDCTMDID	B0	
DCT4TRNY	2C4	2	MDCTMDNQ	A8	
DCT5\$PPN	2B6	2	MDCTMDOM	100	
DCT5\$SPN	2B6	4	MDCTMEMB	90	
DCT5CALL	2B6	40	MDCTMLMQ	25	
DCT5C1ON	2B6	80	MDCTMODE	6E	
DCT5DNRC	2B6	8	MDCTMPER	B0	
DCT5FROF	2B6	1	MDCTMRRT	110	
DCT5TFSS	2B6	10	MDCTMRT	10C	
DCT5TUCS	2B6	20	MDCTMTIM	AC	
DCT6NOTR	2B7	80	MDCTNA	D0	
MDCTABRT	AC		MDCTNAK	A4	
MDCTACT	CC		MDCTNATP	9C	
MDCTADCT	68		MDCTNCES	D8	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MDCTNDCT	A8		MDCTRFCY	13B	80
MDCTNEGR	E4	0	MDCTRFXE	80	88
MDCTNETA	E3	CC	MDCTRNTA	F4	
MDCTNFL	E2		MDCTRQBF	C4	
MDCTNFLC	2C4	40	MDCTRQCT	C2	
MDCTNFLE	2C4	20	MDCTRQLM	C0	
MDCTNFLG	AE		MDCTRQWK	C0	
MDCTNFLI	2C4	4	MDCTRSEQ	6C	
MDCTNFLL	2C4	80	MDCTRSTF	13B	
MDCTNF2D	2C4	2	MDCTRSTI	138	
MDCTNF2I	2C4	4	MDCTRSTM	134	
MDCTNF2J	2C4	2	MDCTSBSZ	9A	
MDCTNF2N	2C4	20	MDCTSCK	9C	
MDCTNF2R	2C4	80	MDCTSCNT	B4	
MDCTNF2S	2C4	40	MDCTSDCK	BC	
MDCTNF3E	2C4	1	MDCTSDCT	18	
MDCTNF3J	2C4	40	MDCTSEL	69	
MDCTNF3M	2C4	80	MDCTSEK	B8	
MDCTNF3Q	2C4	10	MDCTSNCT	90	
MDCTNF3S	2C4	20	MDCTSOCK	A0	
MDCTNICE	A0		MDCTSONT	114	
MDCTNJEH	2C4	1	MDCTSREM	C4	
MDCTNLDV	108		MDCTSRNM	10B	
MDCTNLNE	A4		MDCTSSQD	A8	
MDCTNM	CC		MDCTSTAK	B8	
MDCTNMAP	F0		MDCTSTAT	77	
MDCTNNR	D6		MDCTSTNM	10A	
MDCTNO	EC		MDCTSTO	C0	
MDCTNODE	EC		MDCTSTRT	2C4	2
MDCTNOTS	114		MDCTSUSP	7A	
MDCTNPAS	F8		MDCTSVND	C0	
MDCTNPCH	A0		MDCTSXCP	B4	
MDCTNQSE	A4		MDCTTDRN	DE	80
MDCTNR	D4		MDCTTFLG	DE	
MDCTNTRC	AE	40	MDCTTO	AC	
MDCTNTRJ	AE	20	MDCTTSEQ	6D	
MDCTNVRB	AE	80	MDCTTTRC	DE	20
MDCTOBUF	90		MDCTTTRJ	DE	10
MDCTOPCT	E0		MDCTTVRB	DE	40
MDCTOTAL	A0		MDCTTYPE	75	
MDCTPAWS	2C4	40	MDCTVREQ	A0	
MDCTPCL	80		MDCTWICE	78	
MDCTPGM	88		MDCTXCOD	CB	
MDCTPMBC	C8		MDCTXCP	A0	
MDCTPMFL	C9		MDCTXERR	74	
MDCTPROC	90		MDCTXRSP	A4	
MDCTPSWD	88		MDCT1EOT	2C4	40
MDCTPWDL	7B		MDCT1OUT	2C4	80
MDCTQTBF	84		XDCTACTV	C0	
MDCTQUAL	EE		XDCTBUFQ	BC	
MDCTRABF	BC		XDCTCMPQ	B8	
MDTRACT	BA		XDCTDATE	AC	
MDCTRALM	B8		XDCTDCT	6C	
MDCTRAT	98		XDCTDSN	C8	
MDCTRAWK	B8		XDCTDTE	88	
MDCTRCB	69		XDCTDVER	B4	
MDCTRECL	68		XDCTERCT	C4	
MDCTREM	B0		XDCTERR	2C4	40
MDCTRFCN	13B	40	XDCTFLG1	97	
			XDCTFLG2	98	
			XDCTFREE	A6	
			XDCTLABL	9A	
			XDCTMAXB	C6	
			XDCTMSG	2C4	8
			XDCTOFSL	A5	

\$DCT Cross Reference

Name	Hex Offset	Hex Value
XDCTOPCT	C5	
XDCTOPEN	2C4	80
XDCTRCB	69	
XDCTRTPD	9B	
XDCTSEQN	8C	
XDCTSKIP	2C4	4
XDCTSTAT	68	
XDCTSUBC	94	
XDCTSUBR	92	
XDCTTIME	A8	
XDCTTVR	B0	
XDCTUNCT	96	
XDCTUNIT	9D	
XDCTVOLS	99	
XDCTXNUM	90	
XDCT1ALC	2C4	10
XDCT1CLS	2C4	8
XDCT1DMP	2C4	80
XDCT1LOD	2C4	40
XDCT1RD	2C4	2
XDCT1STR	2C4	1
XDCT1SUB	2C4	20
XDCT1VER	2C4	4
XDCT2CRT	2C4	8
XDCT2NDF	2C4	20
XDCT2NVR	2C4	10
XDCT2PRO	2C4	40
XDCT2ST	2C4	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
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE
		1...		DTAB2SUB	"B'10000000" DCT HAS SUBTYPE CHAIN (PARENT)
		.1..		DTAB2POL	"B'01000000" DCT IS IN \$DCTPOOL CHAIN
		..1.		DTAB2DCB	"B'00100000" EXCP DCB AND DEB FOR DCT
		...1		DTAB2BSM	"B'00010000" BSAM DCB BUILT FOR THIS DCT
		.... 1...		DTAB2CDC	"B'00001000" CDCT BUILT FOR THIS DCT
42	(2A)	BITSTRING	1	DTABFLG3	Third flag
		1...		DTAB3JWS	"B'10000000" Dev does JOB work sel
		.1..		DTAB3SWS	"B'01000000" Dev does SYSOUT work sel

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
43	(2B)	BITSTRING 1... .... .1.. .... ..1. .... ...1	1	DTABFLG4 DTAB4PPU DTAB4PPH DTAB4PPA DTAB4PPT	Fourth flag "B'10000000" PCEPTR field in the UCT "B'01000000" PCEPTR field in the HCT "B'00100000" PCEPTR field in the ADDR "B'00010000" PCEPTR field in the TOKEN
44	(2C)	BITSTRING	1	DTABPPTT	PCEPTR TOKEN level
45	(2D)	BITSTRING 1... .... .1.. .... ..1. .... ...1	1	DTABFLG5 DTAB5CHU DTAB5CHH DTAB5CHA DTAB5CHT	Fifth flag "B'10000000" CHAIN field in the UCT "B'01000000" CHAIN field in the HCT "B'00100000" CHAIN field is Address "B'00010000" CHAIN field is Token
46	(2E)	BITSTRING	1	DTABCHTT	CHAIN TOKEN level
47	(2F)	BITSTRING 1... .... .1.. .... ..1. .... ...1	1	DTABFLG6 DTAB6CTU DTAB6CTH DTAB6CTA DTAB6CTT	Sixth flag "B'10000000" COUNT field in the UCT "B'01000000" COUNT field in the HCT "B'00100000" COUNT field is Address "B'00010000" COUNT field is Token
48	(30)	BITSTRING	1	DTABCNTT	COUNT TOKEN level
49	(31)	BITSTRING	2		Reserved for future use
51	(33)	ADDRESS	1	DTABALIL	Length of ALIAS
52	(34)	BITSTRING	1	DTABID	DCTDEVTP FIELD
53	(35)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
54	(36)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
55	(37)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
56	(38)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
57	(39)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
58	(3A)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET
60	(3C)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	ADDRESS	4	DTABPCEP (0)	Offset/address of managing PCE address if DTAB1MP is On
64	(40)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on
68	(44)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
72	(48)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
76	(4C)	ADDRESS	4	DTABCHN	Offset/address of DCT Chain field
80	(50)	ADDRESS	4	DTABCNT	Offset/address of DCT COUNT field
84	(54)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
86	(56)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
88	(58)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
92	(5C)	CHARACTER	16	DTABPPTK	PCEPTR token name
108	(6C)	CHARACTER	16	DTABCNTK	COUNT token name
124	(7C)	CHARACTER	16	DTABCHTK	CHAIN token name
124	(7C)	X'3'	0	DTABVERS	"3" DTAB version level
124	(7C)	X'8C'	0	DTABELEN	**DTAB" LENGTH OF DCT TABLE ENTRY DSECT

\$DCTTAB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DTAB	0		DTABFLG4	2B	
DTABALIL	33		DTABFLG5	2D	
DTABALS	20		DTABFLG6	2F	
DTABCHN	4C		DTABHV	56	
DTABCHTK	7C	40404040	DTABID	34	
DTABCHTT	2E		DTABLEN	3C	
DTABCNT	50		DTABLV	54	
DTABCNTK	6C	40404040	DTABNAME	0	
DTABCNTT	30		DTABNAML	37	
DTABDESC	8		DTABPCEP	40	
DTABDESL	39		DTABPPTK	5C	40404040
DTABDEV	36		DTABPPTT	2C	
DTABELEN	7C	8C	DTABPTAB	40	
DTABFLG1	28		DTABPTYP	35	
DTABFLG2	29		DTABRTN	58	
DTABFLG3	2A		DTABSCHN	3A	

\$DCTTAB Cross Reference

Name	Hex Offset	Hex Value
DTABSUBL	38	
DTABVERS	7C	3
DTABWSDF	48	
DTABWSTB	44	
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB2BSM	29	10
DTAB2CDC	29	8
DTAB2DCB	29	20
DTAB2POL	29	40
DTAB2SUB	29	80
DTAB3JWS	2A	80
DTAB3SWS	2A	40
DTAB4PPA	2B	20
DTAB4PPH	2B	40
DTAB4PPT	2B	10
DTAB4PPU	2B	80
DTAB5CHA	2D	20
DTAB5CHH	2D	40
DTAB5CHT	2D	10
DTAB5CHU	2D	80
DTAB6CTA	2F	20
DTAB6CTH	2F	40
DTAB6CTT	2F	10
DTAB6CTU	2F	80

\$DILWORK 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'ECC'	0	DILPCEWS	"*-PCEWORK" Length of \$DILBERT PCE

\$DILWORK Map

\$DSB Heading Information

Common Name: Data Space Control Block
Macro ID: \$DSB
DSECT Name: DSB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: \$DSB
 Offset: -8 (in the JES2 CSA storage prefix)
 Length: 4

Storage Attributes: Subpool: 231 or 229
 Key: 1
 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage (if SCOPE=LOCAL or SCOPE=ALL) and private storage (if SCOPE=LOCAL).

Size: See DSBLLEN (plus an 8 byte prefix)
Created by: HASCDSS during data space create
Pointed to by: CCTDSB field of the \$HCCT data area
 HXBDSB field of the \$HASXB data area
 DSBNEXT field of the \$DSB data area
 SCIDDSB field of the \$SCID data area for CKPT versions

Serialization: None required
Function: This DSECT maps a work area used in the maintenance of JES2 dataspace.

\$DSB 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
		.... 1...		DSB2OWNA	"B'00001000" OWNER=AUX specified
		.... .1..		DSB2SCLO	"B'00000100" SCOPE=LOCAL data space

\$DSB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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)	SIGNED	4	DSBVRBAS	Alt base for VER/REP facil
108	(6C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
120	(78)	DBL WORD	8	(0)	Ensure doubleword alignment
120	(78)	X'78'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

\$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	78	78
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
DSBVRBAS	68	
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	

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