

OS/390



JES2 Data Areas, Volume 2 (\$FCLWORK - \$OUTWORK)

OS/390



JES2 Data Areas, Volume 2 (\$FCLWORK - \$OUTWORK)

Note

Before using this information and the product it supports, be sure to read the general information under Appendix A, "Notices" on page 327.

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This edition applies to Version 2 Release 10 of OS/390 (5647-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About This Book

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

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

Who Should Use This Book

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

How To Use This Book

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

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

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

<i>OS/390 JES2 Data Areas, Vol 1 \$ALINDEX-\$EVT</i>	SY28-1096
<i>OS/390 JES2 Data Areas, Vol 2 \$FCLWORK-\$OUTWORK</i>	SY28-1097
<i>OS/390 JES2 Data Areas, Vol 3 \$PADDR-\$XRQ</i>	SY28-1098

The Header

The header includes some or all of the following:

Common Name:	The descriptive name of the data area.
Macro ID:	The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.
DSECT Name:	Name of the dummy control section (DSECT) created by the mapping macro.
Owning Component:	Component name and component identifier in parentheses.
Eye-Catcher ID:	Character string identifier of the eye-catcher (sometimes called the control block id) within the mapping macro. The offset and length of the eye-catcher are also included.
Storage Attributes:	The storage attributes of the data area, including the following: <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	Len	Name (Dim)	Description
0	(0)	STRUCTURE	384	ANYAREA	
0	(0)	CHARACTER		ANYBEGIN	BEGINNING OF ANYAREA
0	(0)	CHARACTER	4	ANYACRO	ACRONYM IN EBCDIC -ANY-
4	(4)	ADDRESS	4	ANYADDR	ADDRESS OF NEXT ANYAREA ON QUEUE

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

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

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

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

Len Size of the field in decimal bytes.

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

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

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

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

Cross Reference

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

Name	The name of the field, bit, or mask.
Hex Offset	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
Hex Value	Hexadecimal values are shown only for bits. The hexadecimal value shown implies the position of the bit in the field containing the bit.

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

Name	Hex Offset	Hex Value
TCBACTIV	F0	80

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

240	(F0)	FIXED	4	ANYWORD	DISPATCHER INTERSECT CONTROL WORD
240	(F0)	BITSTRING	1	ANYBYTE	FLAG BYTE (MDC323)
		1... ..		ANYBIT	"X'80'" BIT ON MEANS THIS

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

Summary of Changes

Summary of Changes for SY28-1097-07 OS/390 Version 2 Release 10

The book contains information previously presented in SY28-1097-06, which supports OS/390 Version 2 Release 8.

This book includes terminology, maintenance, and editorial changes.

Summary of Changes for SY28-1097-06 OS/390 Version 2 Release 8

Changed Information: The following data areas have been changed:

- \$HASPEQU
- \$HCCT
- \$HCT
- \$IOT
- \$JCT
- \$MODMAP
- \$NJTWORK

Summary of Changes for SY28-1097-05 OS/390 Release 7

Changed Information

- \$FSACB
- \$FSSCB
- \$HASPEQU
- \$HASXB
- \$HCT
- \$HFCT
- \$ICE
- \$INIWARM
- \$JCT
- \$JIB
- \$MCT
- \$MLMWORK
- \$NJTWORK

Summary of Changes for SY28-1097-04 OS/390 Release 5

This book includes terminology, maintenance, and editorial changes.

Summary of Changes for SY28-1097-03 OS/390 Release 4

This book includes terminology, maintenance, and editorial changes.

Summary of Changes for LY28-1097-02 OS/390 Release 3

This book includes terminology, maintenance, and editorial changes.

**Summary of Changes
for LY28-1097-01
OS/390 Release 2**

This book includes terminology, maintenance, and editorial changes.

**Summary of Changes
for LY28-1097-00
OS/390 Release 1**

New Information:

- \$JCMWORK
- \$JCTX
- \$OCT

This book contains information previously presented in *MVS/ESA JES2 Data Areas, Volume 2 (\$FCLWORK - \$OUTWORK)*, LY28-1874, which supports MVS/ESA System Product Version 5.

JES2 Data Areas - Volume 2 (\$FCLWORK - \$OUTWORK)

\$FCLWORK Heading Information

Common Name: JES2 FSS Cleanup on EOM PCE Work Area
Macro ID: \$FCLWORK
DSECT Name: PCE (\$FCLWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4
Storage Attributes: Subpool: See \$PCE
 Key: See \$PCE
 Residency: See \$PCE
Size: See symbol FCLPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See \$PCE
Pointed to by: The \$FCLPCE field of the \$HCT data area
 See \$PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this area are used by a JES2 FSS Cleanup on EOM Processor and by its support routines and exits. \$FCLWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$FCLWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEFCLID in the second byte of field PCEID.

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

\$FCLWORK Map

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

\$FCLWORK Map

\$FSACB Programming Interface information

Programming Interface information

\$FSACB

End of Programming Interface information

\$FSACB Heading Information

Common Name: JES2 FSA Control Block
Macro ID: \$FSACB
DSECT Name: FSACB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FSA
 Offset: FSACBID-FSACB
 Length: 4
Storage Attributes: Subpool: 241
 Key: 1
 Residency: Virtual and real storage is anywhere in CSA.
Size: See FSACBLEN
Created by: HASPFSSP
Pointed to by: FSSFSACH field of the \$FSSCB data area
Serialization: The FSACB chain is serialized via the local and CMS locks.
Function: The FSACB is the function subsystem application level control block.

\$FSACB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSACB	FSA CONTROL BLOCK DSECT
0	(0)	CHARACTER	4	FSACBID	FSA CONTROL BLOCK ID
4	(4)	ADDRESS	4	FSAFSID	FSID FOR THIS FSA
4	(4)	X'6 00002'	0	FSAID	"FSAFSID+2,2,C'A" ID FOR THIS FSA WITHIN FSS
8	(8)	ADDRESS	4	FSAFSSA	POINTER TO PARENT FSS
12	(C)	ADDRESS	4	FSACHAIN	CHAIN PTR FOR FSA,LOCK SERIAL
16	(10)	ADDRESS	4	FSAEXTN	A(FSACB EXTENSION IN FSS ASID)
20	(14)	ADDRESS	4	FSATCB	ADDRESS OF TCB CONNECTING FSA
24	(18)	ADDRESS	4	FSAEDEC	ECB FOR ERROR DCON
28	(1C)	SIGNED	4	FSAXECB (0)	XECB TO POST FSS SERVICE PCE
28	(1C)	CHARACTER	4	FSAUNIT	ADDRESS OF DEVICE OWNED BY FSA
28	(1C)	X'1D 00003'	0	FSAUNIT3	"FSAUNIT+1,3" 3-digit devnum - note that FSAUNIT must begin with 0
32	(20)	CHARACTER	8	FSADEVN	NAME OF DEVICE OWNED BY FSA

Comment

THESE THREE FIELDS MUST REMAIN TOGETHER

End of Comment

40	(28)	ADDRESS	4	FSAREQQS	A(REQUEST JIB STACK)
44	(2C)	ADDRESS	4	FSAACTQS	A(ACTIVE JIB PSEUDO-STACK)
48	(30)	ADDRESS	4	FSARETQS	A(RETURN JIB STACK)
48	(30)	X'C	0	FSALENQS	"*-FSAREQQS" LGTH OF JIB QUEUE POINTER FLDS
52	(34)	SIGNED	2	FSAJQEC	JOBNO OF PREV CANCELLED JOB
54	(36)	SIGNED	2	FSAJOECT	COUNT OF JOES ASSIGNED TO FSA

Comment

PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPFSSM.
THIS MATCHES THE ONE DEFINED IN \$PPPWORK.

End of Comment

56	(38)	SIGNED	4	FSAAPARM (0)	PARAM LIST FOR PRTAUTH
56	(38)	ADDRESS	4	FSAJCTAD	JCT ADDRESS
60	(3C)	ADDRESS	4	FSAPDDBA	PDDDB ADDRESS
64	(40)	ADDRESS	4	FSAANEWS	JESNEWS ADDRESS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	CHARACTER	0	FSALOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
68	(44)	ADDRESS	4		RESERVED FOR FUTURE USE END OF PRTAUTH PARM LIST
72	(48)	SIGNED	4	FSAFLAGS (0)	FSA FLAGS
72	(48)	BITSTRING	1	FSAFLAG1	FLAG BYTE - GENERAL USAGE
73	(49)	BITSTRING	1	FSAFLAG2	FLAG BYTE - GENERAL USAGE
74	(4A)	BITSTRING	1	FSAFLAG3	FLAG BYTE - GENERAL USAGE
75	(4B)	BITSTRING	1	FSAFLAG4	FLAG BYTE - GENERAL USAGE
76	(4C)	SIGNED	4	FSAFLAG (0)	MORE FSA FLAGS
76	(4C)	BITSTRING	1	FSAFLAGO	FLAG BYTE - FSI ORDER USAGE
77	(4D)	BITSTRING	1	FSAFLAGI	FLAG BYTE - SETUP FOR FSA REQUIRES OPERATOR INTVNTN, SEE ORDIVFI IN IAZFSIP FOR BIT DEFINITIONS
78	(4E)	BITSTRING	1	FSAFLAGR	FLAG BYTE - RAS, TRACING
79	(4F)	BITSTRING	1	FSAFLAG5	FLAG BYTE - ESTAE INDICATOR

Comment

FSAFLAG5 FLAG5 BYTE - BIT DEFINITIONS

End of Comment

79	(4F)	BITSTRING	0	FSA5PCAB	"B'10000000" ABEND OF PC'D ORDER/POST FSSM
79	(4F)	BITSTRING	0	FSA5PINT	"B'01000000" DEVICE INTERVENTION- REQUIRED CONDITION
79	(4F)	BITSTRING	0	FSA5OINT	"B'00100000" OPERATOR INTERVENTION ORDER REQUIRED
79	(4F)	BITSTRING	0	FSA5DONE	"B'00010000" FSSP MAY NOW FREE FSACB
79	(4F)	BITSTRING	0	FSA5DNRC	"B'00001000" Device not responding condition
79	(4F)	BITSTRING	0	FSA5DSRP	"B'00000100" FSA repositioning within DS
79	(4F)	BITSTRING	0	FSA5BIT6	"B'00000010" RESERVED FOR FUTURE USE
79	(4F)	BITSTRING	0	FSA5BIT7	"B'00000001" RESERVED FOR FUTURE USE
80	(50)	ADDRESS	4	FSAPCE	ADDRESS OF ASSOCIATED PCE
84	(54)	SIGNED	4	FSAFLAGA (0)	Additional FSA flags
84	(54)	BITSTRING	1	FSAFLAG6	Flag byte - to be used in FSS address space only

Comment

FSAFLAG6 FLAG6 byte - bit def.

End of Comment

84	(54)	BITSTRING	0	FSA6DSNA	"B'10000000" Data set was not allocated in previous GETDS
85	(55)	BITSTRING	1	FSAFLAG7	Flag byte - modified only from JES address space

Comment

FSAFLAG7 FLAG7 byte - bit def.

End of Comment

85	(55)	BITSTRING	0	FSA7JISF	"B'10000000" JES initiated Stop FSA - order is not being simulated
85	(55)	BITSTRING	0	FSA701IS	"B'01000000" For this FSA HASP701 - FSA FAILED TO DISCONNECT issued during response processing
86	(56)	BITSTRING	2		Reserved for future use
88	(58)	SIGNED	4		Reserved for future use
92	(5C)	SIGNED	4	(0)	END OF FSA DSECT
92	(5C)	X'5C	0	FSACBLEN	**FSACB" LENGTH OF THE FSA CONTROL BLOCK

Comment

FSAFLAG1

End of Comment

92	(5C)	BITSTRING	0	FSAOROUT	"B'10000000" FSA ORDER OUTSTANDING
92	(5C)	BITSTRING	0	FSARSOUT	"B'01000000" FSA RESPONSE OUTSTANDING

\$FSACB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
92	(5C)	BITSTRING	0	FSAQUIES	"B'00100000" QUIESCE THE DEVICE
92	(5C)	BITSTRING	0	FSASTPDV	"B'00010000" STOP THE DEVICE (DEV QUIESCED)
92	(5C)	BITSTRING	0	FSADRAIN	"B'00001000" STOP THE FSA (DEV DRAINED)
92	(5C)	BITSTRING	0	FSAHALT	"B'00000100" HALT THE DEVICE
92	(5C)	BITSTRING	0	FSAZDEV	"B'00000010" SYNCH ORDER REQUIRED TO \$Z DEV
92	(5C)	BITSTRING	0	FSADVCST	"B'00000001" DEVICE HAS BEEN STARTED
Comment					
FSAFLAG2					
End of Comment					
92	(5C)	BITSTRING	0	FSACTIVE	"B'10000000" FSA IS ACTIVE
92	(5C)	BITSTRING	0	FSAHSERR	"B'01000000" NO MATCHING DCT, JES2 HOT START
92	(5C)	BITSTRING	0	FSAFJSPG	"B'00100000" JOB SEPARATOR PRINTING ON
92	(5C)	BITSTRING	0	FSAFDSPG	"B'00010000" DS SEPARATOR PRINTING ON
92	(5C)	BITSTRING	0	FSAEDGMK	"B'00001000" MARK FORMS ON
92	(5C)	BITSTRING	0	FSABEND	"B'00000100" ABNORMAL TERMINATION REQUESTED
92	(5C)	BITSTRING	0	FSADUMP	"B'00000010" DUMP REQUESTED ON STOP DEVICE
92	(5C)	BITSTRING	0	FSAOPIR	"B'00000001" OPERATOR INTERVENTION REQUESTED
Comment					
FSAFLAG3					
End of Comment					
92	(5C)	BITSTRING	0	FSAGTDSP	"B'10000000" POST FSA FOR GETDS COMPLETION
92	(5C)	BITSTRING	0	FSAOINIT	"B'01000000" INITIAL OP. INTERVENTION NEEDED
92	(5C)	BITSTRING	0	FSAFRMSC	"B'00100000" SETUP REQUIRED FOR FORMS
92	(5C)	BITSTRING	0	FSAFLSHC	"B'00010000" SETUP REQUIRED FOR FLASH
92	(5C)	BITSTRING	0	FSABRSTC	"B'00001000" SETUP REQUIRED FOR BURSTER
92	(5C)	X'38	0	FSASETUP	"FSAFRMSC+FSAFLSHC+FSABRSTC" SETUP REQUIRED MASK
92	(5C)	BITSTRING	0	FSAUPDTK	"B'00000100" OPERATOR INTERVENTION ORDER REQ'D TO UPDATE INTERVENTION TOKENS
92	(5C)	BITSTRING	0	FSASTCHG	"B'00000010" OPERATOR ISSUED \$T DURING SETUP REQUEST - FORCE GETDS
92	(5C)	BITSTRING	0	FSA3JREQ	"B'00000001" JIB REQUEST NEEDED BY GETDS
Comment					
FSAFLAG4					
THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE FOR HASPCOMM PROCESSING					
End of Comment					
92	(5C)	BITSTRING	0	FSA4TCEL	"B'10000000" DEV SET TO TRK-CELL DESPOOL
92	(5C)	BITSTRING	0	FSA4NPSL	"B'01000000" NO DATA SET PRESELECTION
92	(5C)	BITSTRING	0	FSA4FIT	"B'00100000" FSA INITIATED TERM REQUEST
92	(5C)	BITSTRING	0	FSA4NHLT	"B'00010000" DEV IS 'SETUP=NOHALT'
92	(5C)	BITSTRING	0	FSA4CMNO	"B'00001000" COPYMARKS NONE
92	(5C)	BITSTRING	0	FSA4CMDS	"B'00000100" INCREMENT COPYMARKS FOR DS
92	(5C)	BITSTRING	0	FSA4CMJB	"B'00000010" INCREMENT COPYMARKS FOR JOB
92	(5C)	BITSTRING	0	FSA4CNST	"B'00000001" COPYMARKS REMAIN CONSTANT
92	(5C)	X'F	0	FSA4CPYM	"FSA4CMDS+FSA4CMJB+FSA4CNST+FSA4CMNO" COPYMARKS RESET
Comment					
FSAFLAGO					
End of Comment					
92	(5C)	BITSTRING	0	FSABKWDO	"B'10000000" SYNCH OUTSTANDING FOR \$B

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
92	(5C)	BITSTRING	0	FSAFWRDO	"B'01000000" SYNCH OUTSTANDING FOR \$F
92	(5C)	BITSTRING	0	FSARSRTO	"B'00100000" SYNCH OUTSTANDING FOR \$E
92	(5C)	BITSTRING	0	FSACNCLO	"B'00010000" SYNCH OUTSTANDING FOR \$C
92	(5C)	BITSTRING	0	FSAINRTO	"B'00001000" SYNCH OUTSTANDING FOR \$I
92	(5C)	BITSTRING	0	FSAHALTO	"B'00000100" SYNCH OUTSTANDING FOR \$Z
92	(5C)	BITSTRING	0	FSACJPO	"B'00000010" SYNCH OUTSTANDING FOR \$CJ,P
92	(5C)	BITSTRING	0	FSAQRYO	"B'00000001" QUERY OUTSTANDING FOR \$DU

Comment

FSAFLAGR

End of Comment

92	(5C)	BITSTRING	0	FSATRACE	"B'10000000" PROCESSOR TRACING IS ON
92	(5C)	BITSTRING	0	FSACNECT	"B'01000000" FSA IS FULLY CONNECTED
92	(5C)	BITSTRING	0	FSADCON	"B'00100000" FSA IS(WILL) DISCONNECT
92	(5C)	BITSTRING	0	FSADCONX	"B'00010000" JES2 IS EXPECTING DISCONNECT
92	(5C)	BITSTRING	0	FSAEOT	"B'00001000" FSA IS IN (THROUGH) EOT
92	(5C)	BITSTRING	0	FSAFDRAN	"B'00000100" FORCE DRAIN THE FSA
92	(5C)	BITSTRING	0	FSACMDA	"B'00000010" FSS DEVICE COMMAND ACTIVE
92	(5C)	BITSTRING	0	FSASTDVX	"B'00000001" STOP DEVICE EXPECTED

\$FSACB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FSAACTQS	2C		FSAFLAG6	54	
FSAANEWS	40		FSAFLAG7	55	
FSAAPARM	38		FSAFLSHC	5C	10
FSABEND	5C	4	FSAFRMSC	5C	20
FSABKWDO	5C	80	FSAFSD	4	
FSABRSTC	5C	8	FSAFSSA	8	
FSACBID	0		FSAFWRDO	5C	40
FSACBLEN	5C	5C	FSAGTDSP	5C	80
FSACHAIN	C		FSAHALT	5C	4
FSACJPO	5C	2	FSAHALTO	5C	4
FSACMDA	5C	2	FAHSERR	5C	40
FSACNCLO	5C	10	FSAID	4	6
FSACNECT	5C	40	FSAINRTO	5C	8
FSACTIVE	5C	80	FSAJCTAD	38	
FSADCON	5C	20	FSAJOECT	36	
FSADCONX	5C	10	FSAJQECF	34	
FSADDEVN	20		FSALENQS	30	C
FSADRRAIN	5C	8	FSALOGST	44	
FSADUMP	5C	2	FSAOINIT	5C	40
FSADVCST	5C	1	FSAOPIR	5C	1
FSAEDECB	18		FSAOROUT	5C	80
FSAEDGMK	5C	8	FSAPCE	50	
FSAEOT	5C	8	FSAPDDBA	3C	
FSAEXTN	10		FSAQRYO	5C	1
FSAFDRAN	5C	4	FSAQUIES	5C	20
FSAFDSPG	5C	10	FSAREQQS	28	
FSAFJSPG	5C	20	FSARETQS	30	
FSAFLAG	4C		FSARSOUT	5C	40
FSAFLAGA	54		FSARSRTO	5C	20
FSAFLAGI	4D		FSASETUP	5C	38
FSAFLAGO	4C		FASTCHG	5C	2
FSAFLAGR	4E		FASTDVX	5C	1
FSAFLAGS	48		FASTPDV	5C	10
FSAFLAG1	48		FSATCB	14	
FSAFLAG2	49		FSATRACE	5C	80
FSAFLAG3	4A		FSAUNIT	1C	
FSAFLAG4	4B		FSAUNIT3	1C	1D
FSAFLAG5	4F		FSAUPDTK	5C	4

00002

00003

\$FSACB Cross Reference

Name	Hex Offset	Hex Value
FSAXECB	1C	
FSAZDEV	5C	2
FSA3JREQ	5C	1
FSA4CMDS	5C	4
FSA4CMJB	5C	2
FSA4CMNO	5C	8
FSA4CNST	5C	1
FSA4CPYM	5C	F
FSA4FIT	5C	20
FSA4NHLT	5C	10
FSA4NPSL	5C	40
FSA4TCEL	5C	80
FSA5BIT6	4F	2
FSA5BIT7	4F	1
FSA5DNRC	4F	8
FSA5DONE	4F	10
FSA5DSRP	4F	4
FSA5OINT	4F	20
FSA5PCAB	4F	80
FSA5PINT	4F	40
FSA6DSNA	54	80
FSA7JISF	55	80
FSA701IS	55	40

\$FSAXB Programming Interface information

Programming Interface information

\$FSAXB

End of Programming Interface information

\$FSAXB Heading Information

Common Name: FSA Control Block Extension
Macro ID: \$FSAXB
DSECT Name: FAXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FAXB
 Offset: FAXBCBID-FAXB
 Length: L'FAXBCBID

Storage Attributes: Subpool: 230
 Key: 1
 Residency: Virtual and real storage is above the 16M line if the FSS supports running in 31 bit AMODE. Otherwise it is below the 16M line. Storage is located in the private area of the FSS address space.

Size: See FAXBLEN
Created by: HASPFSSM during FSA connect
Pointed to by: FSAEXTN field of the \$FSACB data area
Serialization: None required
Function: This area provides private address space working storage for FSA level FSI requests.

\$FSAXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FAXB	FSA CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FAXBCBID	FSA CONTROL BLOCK EXT ID
4	(4)	SIGNED	4	FAXBFSID	FUNCTIONAL SUBSYSTEM APPLICATION ID
8	(8)	ADDRESS	4	FAXBFSAA	A(FSACB) FOR THIS EXTENSION
12	(C)	ADDRESS	4	FAXBRECB	ECB FOR HALT DEVICE (\$Z) CMD
16	(10)	SIGNED	4	FAXBFSIP (0)	ORDER FSIREQ PARM LIST
16	(10)	SIGNED	4	FAXBFSIR (0)	ORDER RESPONSE AREA
16	(10)	SIGNED	4	FAXBPOST (0)	POST FSIREQ PARM LIST
16	(10)	SIGNED	4	FAXBPSAV (18)	POST SAVE AREA
16	(10)	X'10	0	FAXBOSAV	"FAXBPSAV" ORDER SAVE AREA
88	(58)	ADDRESS	4	FAXBSJIB	ADDR OF JIB REQUIRING SETUP
92	(5C)	SIGNED	2	FAXBCJP	JOB NUMBER OF \$CJ,P JOB

Comment

THE FIELDS THROUGH FAXBBRST MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMO THESE FIELDS REPRESENT THE CURRENT DEVICE SETUP.

End of Comment

94	(5E)	BITSTRING	0	FAXBFRMS	CURRENT FORMS ID ON DEVICE
94	(5E)	CHARACTER	0	FAXBWFRM (0)	
94	(5E)	CHARACTER	0	FAXBFLSH	CURRENT FLASH ID ON DEVICE
94	(5E)	CHARACTER	0	FAXBFCB	CURRENT FCB ID ON DEVICE
94	(5E)	CHARACTER	0	FAXBUCS	CURRENT UCS ID ON DEVICE
94	(5E)	CHARACTER	1	FAXBBRST	CURRENT BURST SETTING (Y/N)
94	(5E)	X' '	0	FAXBLEN	"*-FAXBFRMS" LENGTH FOR SETUP PARMS
95	(5F)	CHARACTER	1	FAXBFLSD	DEFAULT FLASH ID FOR DEVICE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INTERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.</p>					
End of Comment					
95	(5F)	BITSTRING	0	FAXBFRMO	ORIGINAL FORMS ID FOR DEVICE
95	(5F)	CHARACTER	0	FAXBWFRO (0)	
95	(5F)	CHARACTER	0	FAXBFLSO	ORIGINAL FLASH ID FOR DEVICE
95	(5F)	CHARACTER	0	FAXBFCBO	ORIGINAL FCB ID ON DEVICE
95	(5F)	CHARACTER	0	FAXBUCSO	ORIGINAL UCS ID ON DEVICE
95	(5F)	CHARACTER	1	FAXBBSTO	ORIGINAL BURST SETTING (Y/N)

Comment					
<p>Work area for ASAXWC macros MACDATE -07/19/94-<0></p>					

End of Comment					
96	(60)	SIGNED	2	M00M0002 (0)	ASAXWC-0
96	(60)	SIGNED	4	FAXLIST (0)	++ ASAXWC PARM LIST
96	(60)	ADDRESS	4	FAXLIST_XPATTERNSTR_ADDR	++ ADDR XPATTERNSTR
100	(64)	SIGNED	4	FAXLIST_XPATTERNSTRLEN	++ XPATTERNSTRLEN
104	(68)	ADDRESS	4	FAXLIST_XSTRING_ADDR	++ ADDR XSTRING
108	(6C)	SIGNED	4	FAXLIST_XSTRINGLEN	++ XSTRINGLEN
112	(70)	ADDRESS	4	FAXLIST_XZEROORMORE_ADDR	++ ADDR XZEROORMORE
116	(74)	ADDRESS	4	FAXLIST_XONECHAR_ADDR	++ ADDR XONECHAR
120	(78)	ADDRESS	4	FAXLIST_XDELIMITER_ADDR	++ ADDR XDELIMITER
120	(78)	X'1C	0	FAXLISTL	** -FAXLIST" ++ LENGTH OF PLIST

Comment					
ASAXWC-0					

End of Comment					
124	(7C)	BITSTRING	256	FAXAREA	Work area passed to ASAXWC
384	(180)	DBL WORD	8	(0)	
384	(180)	X'80	0	FAXBLEN	** -FAXB" LENGTH OF THE FSA CNTL BLOCK EXT

\$FSAXB Cross Reference

\$FSAXB Cross Reference

Name	Hex Offset	Hex Value
FAXAREA	7C	
FAXBBRST	5E	
FAXBBSTO	5F	
FAXBCBID	0	
FAXBCJP	5C	
FAXBDLEN	5E	
FAXBFCB	5E	
FAXBFCBO	5F	
FAXBFLSD	5F	
FAXBFLSH	5E	
FAXBFLSO	5F	
FAXBFRMO	5F	
FAXBFRMS	5E	
FAXBFSAA	8	
FAXBFSID	4	
FAXBFSIP	10	
FAXBFSIR	10	
FAXBLEN	180	80
FAXBOSAV	10	10
FAXBPOST	10	
FAXBPSAV	10	
FAXBRECB	C	
FAXBSJIB	58	
FAXBUCS	5E	
FAXBUCSO	5F	
FAXBWFRM	5E	
FAXBWFRO	5F	
FAXLIST	60	
FAXLIST_XDELIMITER_ADDR	78	
FAXLIST_XONECHAR_ADDR	74	
FAXLIST_XPATTERNSTR_ADDR	60	
FAXLIST_XPATTERNSTRLEN	64	
FAXLIST_XSTRING_ADDR	68	
FAXLIST_XSTRINGLEN	6C	
FAXLIST_XZEROORMORE_ADDR	70	
FAXLISTL	78	1C
M00M0002	60	

\$FSSCB Programming Interface information

Programming Interface information

\$FSSCB

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

- FSSAXL
- FSSETL
- FSSLXL
- FSSLXV

End of Programming Interface information

\$FSSCB Heading Information

Common Name: JES2 FSS Control Block
Macro ID: \$FSSCB
DSECT Name: FSSCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'FSS '
 Offset: -8 (in the JES2 CSA storage prefix)
 Length: 4
Storage Attributes: Subpool: 241
 Key: 1
 Residency: Virtual and real storage is anywhere.
Size: See FSSCBLEN
Created by: DYNFSS in HASPFSSP
Pointed to by: CCTFSSCB field of the HCCT data area (first FSSCB)
 FSSCHAIN field of the previous FSSCB data area
Serialization: The chain can be added to by the JES2 main task.
 At this time the chain cannot be broken to accomplish a delete.
Function: The FSSCB represents a functional subsystem (FSS) defined to JES2. It points to the FSSXB in the FSS address space, and the chain of FSACB's for applications assigned to the FSS.

\$FSSCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSSCB	FSS CONTROL BLOCK DSECT
0	(0)	CHARACTER	8	FSSNAME	FUNCTIONAL SUBSYSTEM NAME
8	(8)	CHARACTER	8	FSSPROCN	CATALOGED PROC NAME FOR FSS
16	(10)	CHARACTER	8	FSSFSSMN	FSS SUPPORT MODULE NAME (FSSM)
24	(18)	SIGNED	4	FSSFSSML	FSS SUPPORT MODULE LENGTH
28	(1C)	ADDRESS	4	FSSCHAIN	ADDR OF NEXT FSSCB OFF CCTFSSCB
32	(20)	ADDRESS	2	FSSASID	ASID FOR THE FSS ADDRESS SPACE
34	(22)	ADDRESS	2	FSSFSSID	FSS PORTION OF FSID FOR FSAS

Comment

HASPFSSM CROSS MEMORY SERVICE TABLES

End of Comment

36	(24)	SIGNED	4	FSSLXL (0)	LINKAGE INDEX (LX) LIST
36	(24)	SIGNED	4	FSSLXN	NUMBER OF LXS REQUESTED
40	(28)	SIGNED	4	FSSLXV	VALUE (LX) RETURNED BY LXRES
44	(2C)	SIGNED	4	FSSAXL (0)	AUTHORIZATION INDEX (AX) LIST
44	(2C)	SIGNED	2	FSSAXN	NUMBER OF AXS REQUESTED
46	(2E)	SIGNED	2	FSSAXV	VALUE (AX) RETURNED BY AXRES
48	(30)	SIGNED	2	FSSAXSV	ORIGINAL AX, SAVED AFTER AXSET
50	(32)	ADDRESS	2		RESERVED FOR FUTURE USE
52	(34)	SIGNED	4	FSSETL (0)	ENTRY TABLE (ET) LIST
52	(34)	SIGNED	4	FSSETN	NUMBER OF ETS CREATED
56	(38)	SIGNED	4	FSSETV	VALUE (TOKEN) RETURNED BY ETCRE

Offsets

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

PC NUMBERS FOR CROSS MEMORY SERVICES ROUTINES IN HASPFSSM
(MUST BE IN SAME ORDER AS PC ENTRY POINTS IN \$HFCT)
AND CROSS-MEMORY COMMUNICATION ECBS.

End of Comment

60	(3C)	SIGNED	4	FSSPC (0)	
60	(3C)	ADDRESS	4	FSSORDPC	PC # OF XMS FSI-ORDER ROUTINE
64	(40)	ADDRESS	4	FSSPSTPC	PC # OF XMS FSI-POST ROUTINE
68	(44)	SIGNED	4	FSSXECB (0)	XECB TO POST PCE FOR FSS
68	(44)	X' '	0	FSSDCTCH	"XECBPCE-XECB+FSSXECB" A(DCT CHAIN DURING JES2 INIT OR RE-INIT (HOT START)
68	(44)	SIGNED	4	FSSSEDECB	ECB FOR DISCONNECT COORDINATION

Comment

MISCELLANEOUS CONTROL FIELDS AND FLAG BYTES

End of Comment

72	(48)	ADDRESS	4	FSSFJIBS	A(FREE JIB STACK IN FSS MEMORY)
76	(4C)	ADDRESS	4	FSSHFACT	A(HFCT IN FSSM FOR THIS FSS)
80	(50)	ADDRESS	4	FSSRCRTN	A(FSMRCRTN SRB RECONNECT RTN)
84	(54)	ADDRESS	4	FSSFSACH	A(FSACB CHAIN FOR THIS FSS)
88	(58)	ADDRESS	4	FSSEXTN	A(FSS EXTENSION-FSS ADDR SPACE)
92	(5C)	ADDRESS	4	FSSTCB	ADDRESS OF TCB CONNECTING FSS
96	(60)	SIGNED	2	FSSFSAMI	MAX FSA ID IN FSIDS WITHIN FSS
98	(62)	SIGNED	2	FSSDIFM	COUNT OF DCTS IN FSS MODE
100	(64)	SIGNED	2	FSSFSVTE	NUMBER OF ENTRIES IN THE FSVT IF THE FSS IS ACTIVE
102	(66)	SIGNED	2	(2)	RESERVED FOR FUTURE USE
106	(6A)	BITSTRING	1		Reserved for future use
107	(6B)	BITSTRING	1	FSSFLAG4	General status flag. This flag is set only by the FSS address space. No serialization is required

Comment

FSSFLAG4 -
If neither of the following bits is ON, then this
FSS does NOT support IP-format destination routing.

End of Comment

107	(6B)	BITSTRING	0	FSS4IP	"B'10000000" FSS supports ONLY IP-format
107	(6B)	BITSTRING	0	FSS4BOTH	"B'01000000" FSS supports BOTH IP&non-IP
108	(6C)	SIGNED	4	FSSLWORD (0)	FSS 'LOCK' WORD WITH RAS FLAGS
108	(6C)	BITSTRING	1	FSSFLAGA	FLAG BYTE

Comment

FSSFLAGA

End of Comment

108	(6C)	BITSTRING	0	FSSABORD	"B'10000000" ABEND IN PC'D TO FSMORDER FSSM
108	(6C)	BITSTRING	0	FSSA\$ACT	"B'01000000" FSS included in \$ACTVFSS
108	(6C)	BITSTRING	0	FSSABIT2	"B'00100000" RESERVED FOR FUTURE USE
108	(6C)	BITSTRING	0	FSSABIT3	"B'00010000" RESERVED FOR FUTURE USE
108	(6C)	BITSTRING	0	FSSABIT4	"B'00001000" RESERVED FOR FUTURE USE
108	(6C)	BITSTRING	0	FSSABIT5	"B'00000100" RESERVED FOR FUTURE USE
108	(6C)	BITSTRING	0	FSSABIT6	"B'00000010" RESERVED FOR FUTURE USE
108	(6C)	BITSTRING	0	FSSABIT7	"B'00000001" RESERVED FOR FUTURE USE
109	(6D)	BITSTRING	1	FSSFLAG1	FLAG BYTE - GENERAL USAGE
110	(6E)	BITSTRING	1	FSSFLAG2	FLAG BYTE - GENERAL USAGE

\$FSSCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
111	(6F)	BITSTRING	1	FSSFLAG3	FLAG BYTE - RAS USE
111	(6F)	BITSTRING	0	FSSLMASK	"B'0001" MASK FOR FSSFLAG3 IN FSSLWORD
112	(70)	SIGNED	4	FSSWORK	Work area
116	(74)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
120	(78)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
128	(80)	DBL WORD	8	FSSASTKN	FSS address space STKN
136	(88)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
144	(90)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value
152	(98)	SIGNED	4	(0)	END OF FSSCB DSECT
152	(98)	X'98	0	FSSCBLEN	** -FSSCB" LENGTH OF THE FSS CONTROL BLOCK

Comment

FLAG DEFINITIONS FSSFLAG1

End of Comment

152	(98)	BITSTRING	0	FSSOROUT	"B'10000000" FSS ORDER OUTSTANDING
152	(98)	BITSTRING	0	FSSRSOUT	"B'01000000" FSS RESPONSE OUTSTANDING
152	(98)	BITSTRING	0	FSSTART	"B'00100000" FSS START OUTSTANDING
152	(98)	BITSTRING	0	FSSTOP	"B'00010000" FSS STOP OUTSTANDING
152	(98)	BITSTRING	0	FSSDRAIN	"B'00001000" ISSUE STOP FSS ORDER
152	(98)	BITSTRING	0	FSSABEND	"B'00000100" ABNORMAL TERMINATION REQUESTED
152	(98)	BITSTRING	0	FSSDUMP	"B'00000010" DUMP REQUESTED ON STOP
152	(98)	BITSTRING	0	FSSFDRAN	"B'00000001" FORCE FSS STOP PROCESSING

Comment

FSSFLAG2

End of Comment

152	(98)	BITSTRING	0	FSSACTIV	"B'10000000" FSS ADDRESS SPACE IS ACTIVE
152	(98)	BITSTRING	0	FSS2BIT2	"B'01000000" RESERVED FOR FUTURE USE
152	(98)	BITSTRING	0	FSS2ASD0	"B'00100000" AUTOMATICALLY SHUT DOWN THE FSS IF THE FSA COUNT GOES TO ZERO
152	(98)	BITSTRING	0	FSS2PAF	"B'00010000" If the FSS-Cleanup PCE finds an FSSCB with FSSEOM on, it posts the PCE for each FSA. It then sets this flag so that all the PCEs are post only once
152	(98)	BITSTRING	0	FSSSTPE	"B'00001000" PREVIOUS FSS STOP ERROR
152	(98)	BITSTRING	0	FSS24DG	"B'00000100" FSS supports 4-digit devs
152	(98)	BITSTRING	0	FSSFAET	"B'00000010" FSA DISCONNECT WAS ISSUED FROM E-O-T PROCESSING
152	(98)	BITSTRING	0	FSS2AM31	"B'00000001" FSS supports AMODE 31

Comment

FSSFLAG3

End of Comment

152	(98)	BITSTRING	0	FSSCNCT1	"B'10000000" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
152	(98)	BITSTRING	0	FSSCNCT2	"B'01000000" FSS HAS COMPLETED CONNECT
152	(98)	BITSTRING	0	FSSDCON	"B'00100000" FSS IS(WILL) DISCONNECTING
152	(98)	BITSTRING	0	FSSDCONX	"B'00010000" JES2 IS READY FOR DISCONNECT
152	(98)	BITSTRING	0	FSSEOM	"B'00001000" FSS MEMORY HAS ENDED
152	(98)	BITSTRING	0	FSSBOT	"B'00000100" FSS CONNECTING TCB HAS ENDED
152	(98)	BITSTRING	0	FSSRCOK	"B'00000010" FSS RECONNECT SRB SUCCESSFUL
152	(98)	BITSTRING	0	FSSRCERR	"B'00000001" FSS ERROR IN RECONNECT SRB RTN

\$FSSCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FSSA\$ACT	6C	40	FSSRCOK	98	2
FSSABEND	98	4	FSSRCRTN	50	
FSSABIT2	6C	20	FSSRSOUT	98	40
FSSABIT3	6C	10	FSSSTPE	98	8
FSSABIT4	6C	8	FSSTART	98	20
FSSABIT5	6C	4	FSSTCB	5C	
FSSABIT6	6C	2	FSSTOP	98	10
FSSABIT7	6C	1	FSSWORK	70	
FSSABORD	6C	80	FSSXECB	44	
FSSACTIV	98	80	FSS2AM31	98	1
FSSAPARN	88		FSS2ASD0	98	20
FSSASID	20		FSS2BIT2	98	40
FSSASTKN	80		FSS2PAF	98	10
FSSAXL	2C		FSS24DG	98	4
FSSAXN	2C		FSS4BOTH	6B	40
FSSAXSV	30		FSS4IP	6B	80
FSSAXV	2E				
FSSCBLEN	98	98			
FSSCHAIN	1C				
FSSCNCT1	98	80			
FSSCNCT2	98	40			
FSSDCON	98	20			
FSSDCONX	98	10			
FSSDCTCH	44				
FSSDIFM	62				
FSSDOMID	74				
FSSDRAIN	98	8			
FSSDUMP	98	2			
FSSDECEB	44				
FSSSEOM	98	8			
FSSEOT	98	4			
FSSETL	34				
FSSETN	34				
FSSETV	38				
FSSEXTN	58				
FSSFDRAN	98	1			
FSSFJIBS	48				
FSSFLAGA	6C				
FSSFLAG1	6D				
FSSFLAG2	6E				
FSSFLAG3	6F				
FSSFLAG4	6B				
FSSFSACH	54				
FSSFSAET	98	2			
FSSFSAMI	60				
FSSFSSID	22				
FSSFSSML	18				
FSSFSSMN	10				
FSSFSVTE	64				
FSSHFACT	4C				
FSSLMASK	6F	1			
FSSLWORD	6C				
FSSLXL	24				
FSSLXN	24				
FSSLXV	28				
FSSNAME	0				
FSSORDPC	3C				
FSSOROUT	98	80			
FSSPC	3C				
FSSPROCN	8				
FSSPSTPC	40				
FSSPTFN	90				
FSSRCERR	98	1			

\$FSSWORK Programming Interface Information

Programming Interface Information

\$FSSWORK

End of Programming Interface Information

\$FSSWORK Heading Information

Common Name: HASP FSS PCE WORK AREA DSECT
Macro ID: \$FSSWORK
DSECT Name: PCE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: Offset:
 Length:
Storage Attributes: Subpool: 1
 Key: 1
Size: SEE FSWLNGTH
Created by: \$PCEDYN
Pointed to by: ANY OF THE PCE ANCHOR FIELDS
Serialization: JES2 REENTRANT TECHNIQUES
Function: THIS DSECT PROVIDES THE WORK AREA REQUIRED BY A JES2 PROCESSOR IN SUPPORT OF A FUNCTIONAL SUBSYSTEM APPLICATION. THERE ARE NO PCES OF A TYPE CALLED 'FSS', BUT INSTEAD A PCE OF ANOTHER TYPE (E.G. PRINTER) IS DEFINED TO ENSURE IT IS LARGE ENOUGH TO BE CHANGED INTO A PCE MAPPED BY \$FSSWORK IF THAT PROCESSOR TYPE IS ALLOWED TO RUN IN FSS MODE. SEE THE \$PCETAB FSS=YES DESCRIPTION FOR MORE DETAILS.

\$FSSWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP FSS PROCESSOR
0	(0)	BITSTRING	1	FSWFLAG	PRINT/PUNCH FLAG BYTE
1	(1)	BITSTRING	1		RESERVED FOR FUTURE USE
2	(2)	ADDRESS	2	FSWORDID	ORDID FOR ORDER ISSUED BY PCE
4	(4)	SIGNED	4	FSWFWORK	FULL WORD WORK AREA
8	(8)	DBL WORD	8	FSWDWORK	DOUBLE WORD WORK AREA
16	(10)	SIGNED	4	FSWCMBAD	ADDRESS OF CMB FOR \$DOM
20	(14)	SIGNED	4	FSWFBPCT	\$F/\$B PAGE COUNT
24	(18)	BITSTRING	0	FSWTQE	FSS TIME QUEUE ELEMENT
24	(18)	SIGNED	4	FSWPELMT (0)	\$XMPOST POST ELEMENT
24	(18)	ADDRESS	4	FSWPECB	\$XMPOST POST ELEMENT ECB ADDR
28	(1C)	ADDRESS	4	FSWPASCB	\$XMPOST POST ELEMENT ASCB ADDR
32	(20)	ADDRESS	4	FSWPERET	\$XMPOST POST ELEMENT ERRET
36	(24)	ADDRESS	2	FSWNRcnt	WAITING FOR RESPONSE COUNT
36	(24)	X'2C'	0	FSWTIME	"300" TIME INTERVAL FOR CONNECT
40	(28)	ADDRESS	4	FSWFSSCB	ADDRESS OF FSSCB
44	(2C)	SIGNED	4	FSWJ2TRP	Pointer to FSA level rolling trace storage
48	(30)	SIGNED	4	FSWFsACT	Trace counter for FSA trace
52	(34)	SIGNED	4	(0)	
52	(34)	X' '	0	FSWHLGTH	**_PCEWORK" FSS PCE WORK AREA HEADER LENGTH

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

 THE FSS PCE WORK AREA IS COMPRISED OF A HEADER AREA AND 3 VARIABLE LENGTH EXTENSIONS WHICH ARE ORGED OVER EACH OTHER. THESE 3 EXTENSIONS ARE THE MGCR, RELDS, AND GETDS WORK AREAS. THE LENGTH OF THE FSS PCE WORK AREA IS DETERMINED BY ADDING THE LENGTH OF THE HEADER AREA TO THAT OF THE GETDS WORK AREA, SINCE IT IS THE LARGEST OF THE 3 EXTENSIONS.

End of Comment					
52	(34)	CHARACTER	0	FSWRK	MGCR WORK AREA
52	(34)	CHARACTER	0	FSWJIBWK	JIB RELDS MVCP WORK AREA
52	(34)	CHARACTER	0		JIB GETDS MVCS WORK AREA
52	(34)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
52	(34)	X' '	0	FSWLNPTH	"FSWHLGTH+*-FSWJIBWK" FSS PCE WORK AREA LENGTH

 Comment
 FSWFLAG FSWFLAG BIT DEFINITIONS

End of Comment					
52	(34)	BITSTRING	0	FSWFORDI	"B'10000000" CURRENT ORDER WAS ISSUED UNDER CONTROL OF THIS PCE AND A TIMER IS OUTSTANDING (FSWTQE)
52	(34)	BITSTRING	0	FSWFMODE	"B'01000000" THIS PCE PROCESSING MODE SWITCH
52	(34)	BITSTRING	0	FSWFACTV	"B'00100000" THIS PCE HAS ISSUED \$ACTIVE
52	(34)	BITSTRING	0	FSWFNONE	"B'00010000" FLASH=NONE INDICATOR
52	(34)	BITSTRING	0	FSWFARET	"B'00001000" FSSP tried recovery from abend once

\$FSSWORK Cross Reference

Name	Hex Offset	Hex Value
FSWCMBAD	10	
FSWDWORK	8	
FSWFACTV	34	20
FSWFARET	34	8
FSWFBPCT	14	
FSWFLAG	0	
FSWFMODE	34	40
FSWFNONE	34	10
FSWFORDI	34	80
FSWFSACT	30	
FSWFSSCB	28	
FSWFWORK	4	
FSWHLGTH	34	
FSWJIBWK	34	
FSWJ2TRP	2C	
FSWLNPTH	34	
FSWNRcnt	24	
FSWORDID	2	
FSWPASCB	1C	
FSWPECB	18	
FSWPELMT	18	
FSWPERET	20	
FSWRK	34	
FSWTIME	24	2C
FSWTQE	18	

\$FSSWORK Cross Reference

\$FSSXB Programming Interface Information

Programming Interface Information

\$FSSXB

The following fields are **NOT** part of the programming interface:

FSXBFSIP
FSXBXETA

End of Programming Interface Information

\$FSSXB Heading Information

Common Name: JES2 FSS Control Block Extension
Macro ID: \$FSSXB
DSECT Name: FSXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FSXB
Offset: Offset 0 and length 4
Subpool and Key: Subpool 230 and key 1
Size: 259 bytes
Created by: HASPFSSM
Pointed to by: FSSEXTN field of the FSSCB data area
Serialization: N/A
Function: The FSSXB is the private area extension to the FSSCB.

\$FSSXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSXB	FSS CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FSXBCBID	FSS CONTROL BLOCK EXT ID
4	(4)	CHARACTER	8	FSXBNAME	FUNCTIONAL SUBSYSTEM NAME
12	(C)	ADDRESS	4	FSXBFSSA	A(FSSCB) FOR THIS EXTENSION
16	(10)	SIGNED	4	FSXBFSIP (0)	ORDER FSIREQ PARM LIST
16	(10)	SIGNED	4	FSXBFSIR (0)	ORDER RESPONSE AREA
16	(10)	SIGNED	4	FSXBOSAV (18)	ORDER SAVE AREA
88	(58)	ADDRESS	4	FSXBXETA	ADDR OF ENTRY TABLE DESC (ETD)
88	(58)	X'5C	0	FSXBLEN	**"-FSXB" LENGTH OF THE FSS CNTL BLOCK EXT

\$GGEQU Programming Interface Information

Programming Interface Information

\$GGEQU

End of Programming Interface Information

\$GGEQU Heading Information

Common Name: Generic Grouping Equates
Macro ID: \$GGEQU
DSECT Name:
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
 FREQUENCY: N/A
Serialization: N/A
Function: Defines equates related to the generic grouping services (\$GASSIGN, \$GKGET, \$GKINIT, \$GKTERM, \$GSINIT, \$GSTERM).

\$GGEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X' '	0	GGRCOK	"0" Processing successful
0	(0)	X'8 '	0	GGRCERR	"8" Error detected

Comment

Reason codes
 Each service returns a subset of these reason codes.
 Each service macro's prolog lists the reason codes that the service returns.

End of Comment

0	(0)	X' '	0	GGRSOK	"0" Processing successful
0	(0)	X'4 '	0	GGRSJDVT	"4" JDVT name is undefined
0	(0)	X'8 '	0	GGRSPVST	"8" Private storage is unavailable
0	(0)	X'C '	0	GGRSCMST	"12" Common storage is unavailable
0	(0)	X'10 '	0	GGRSIPCE	"16" Caller is not the initialization PCE

Comment

Miscellaneous constants

End of Comment

0	(0)	X'20 '	0	GGMAXFPL	"32" Maximum footprint length
0	(0)	X'20 '	0	GGMAXMSL	"32" Maximum message length

\$GGEQU Cross Reference

Name	Hex Offset	Hex Value
GGMAXFPL	0	20
GGMAXMSL	0	20
GGRCERR	0	8
GGRCOK	0	
GGRSCMST	0	C
GGRSIPCE	0	10
GGRSJDVT	0	4
GGRSOK	0	
GGRSPVST	0	8

\$GGEQU Cross Reference

\$GTW Heading Information

Common Name: HASP \$#GET trace work area dsect
Macro ID: \$GTW
DSECT Name: GTW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'GTW '
 Offset: GTWID-GTW
 Length: 4

Storage Attributes: Subpool: 1
 Key: 1
 Residency: Anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See GTWLEN
Created by: \$#GET service routine
Pointed to by: WSPGTW field of the \$WSP data area
Serialization: No special serialization other than that currently implied by the \$#GET service routine is required.

Function: This dsect maps a work area used by \$#GET to save information to be included in the JES2 ID=20 \$TRACE record.

\$GTW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTW	
0	(0)	CHARACTER	4	GTWID	GTW IDENTIFIER
4	(4)	BITSTRING	1	GTWVERS	GTW VERSION
5	(5)	BITSTRING	1	GTWFLAGP	Processing flag byte
5	(5)	BITSTRING	0	GTWPTIME	"B'10000000" CPU time has been set
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	GTWSTART (0)	START OF \$TRACE DATA
Comment					

Fields used by more than one routine					

End of Comment					
8	(8)	DBL WORD	8	GTWTIME	CPU Time used by this call in Milliseconds
16	(10)	SIGNED	4	GTWJSCR	NUMBER OF WS CALLS MADE
20	(14)	SIGNED	4	GTWJNUM	NUMBER OF JOES LOOKED AT
24	(18)	SIGNED	4	GTWBEST	Which JOE was selected out of the ones looked at
28	(1C)	ADDRESS	4	GTWCALER	Address of caller
32	(20)	SIGNED	4	GTWWSTAB	WS TABLE ADDRESS
36	(24)	CHARACTER	18	GTWDCTN	Dev name in one of 2 forms For non-SAPI: WSPDEVN2 For SAPI: jobname.sss2appl
36	(24)	X'24 00004'	0	GTWPITN	"GTWDCTN,4" For initiators: PITPATID
54	(36)	ADDRESS	2	(0)	Ensure big enough
54	(36)	ADDRESS	2	(0)	
54	(36)	BITSTRING	1	GTWTFLG1	Caller type
54	(36)	BITSTRING	0	GTWT1GET	"B'10000000" \$#GET
54	(36)	BITSTRING	0	GTWT1PST	"B'01000000" \$#POST
54	(36)	BITSTRING	0	GTWT1QGT	"B'00100000" \$QGET
54	(36)	BITSTRING	0	GTWT1PSO	"B'00010000" PSO
55	(37)	BITSTRING	0	GTWWS	Device work selection list
55	(37)	BITSTRING	1	GTWMASK	Criteria value mask

\$GTW Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	DBL WORD	8	GTWORG (0)	Start caller specific data

Comment

Fields used by \$#GET/PSO only (\$TRACE 20)

End of Comment

Comment

KEEP THE NEXT 4 BYTES TOGETHER FOR \$TRACE FORMATTING

End of Comment

56	(38)	BITSTRING	1	GTWDCT	DCT DEVICE TYPE
57	(39)	BITSTRING	1	GTWFLAG1	1ST FLAG BYTE
57	(39)	BITSTRING	0	GTW1WS	"B'10000000" TYPE=WS REQUEST
57	(39)	BITSTRING	0	GTW1NET	"B'01000000" TYPE=NET REQUEST
57	(39)	BITSTRING	0	GTW1HYES	"B'00100000" HAVE=YES REQUEST
57	(39)	BITSTRING	0	GTW1CNT	"B'00010000" COUNT=YES request
57	(39)	BITSTRING	0	GTW1CYES	"B'00001000" CHAIN=YES REQUEST
57	(39)	BITSTRING	0	GTW1NSAF	"B'00000100" SAF=NO request
57	(39)	BITSTRING	0	GTW1ALM	"B'00000010" LINE MGR REQ, AUTOLOGN SCAN
58	(3A)	BITSTRING	1	GTWFLAG2	2ND FLAG BYTE
58	(3A)	BITSTRING	0	GTW2FAST	"B'10000000" Fast exit from \$#GET due to value in DCTPJQOE/WSPPJQOE
58	(3A)	BITSTRING	0	GTW2NO	"B'00100000" NO WORK FOUND
58	(3A)	BITSTRING	0	GTW2SAFF	"B'00000001" GET FAILURE DUE TO SAF CALL
59	(3B)	BITSTRING	1	GTWFLAG3	PSO selection flags
60	(3C)	SIGNED	4	GTWJOES	NUMBER OF JOES DEFINED
64	(40)	SIGNED	4	GTWQNUM	NUMBER OF JOES IN USE

Comment

THE FOLLOWING TWO COUNTS APPLY ONLY TO CHAIN=YES REQUESTS

End of Comment

68	(44)	SIGNED	4	GTWCHCNT	NUMBER OF JOES ON JOB CHAIN
72	(48)	SIGNED	4	GTWCHSEL	NUMBER SELECTED FROM JQE/JOE CHAIN
76	(4C)	SIGNED	4	GTWROUTE (0)	REMOTE ID OF DATA SELECTED
76	(4C)	SIGNED	2	GTWNODE	NODE ID
78	(4E)	SIGNED	2	GTWRMT	REMOTE ID
80	(50)	CHARACTER	8	GTWUSER	USERID
88	(58)	BITSTRING	1	GTWCLASS	CLASS VALUE OF DATA
92	(5C)	SIGNED	4		Reserved

Comment

Fields used by \$#POST only (\$TRACE 30)

End of Comment

56	(38)	CHARACTER	8	GTWJONAM	JOE OUTGRP name
64	(40)	SIGNED	2	GTWJOID1	qualifier 1
66	(42)	SIGNED	2	GTWJOID2	qualifier 2
68	(44)	CHARACTER	8	GTWJQNAM	Job name
76	(4C)	SIGNED	2	GTWJQNUM	Job number
78	(4E)	BITSTRING	1	GTWJQTYP	Job type flags
79	(4F)	BITSTRING	1		Reserved
80	(50)	SIGNED	4	GTWWSPCT	Number of WSPs scanned
84	(54)	SIGNED	4	GTWPSTCT	Number of WSPs \$POSTed
88	(58)	SIGNED	4	GTWWTRCT	Number of XWTRs scanned

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
92	(5C)	SIGNED	4	GTWPSTWR	Number of XWTRs \$POSTed
96	(60)	SIGNED	4	GTWSPICT	Number of SAPIDs scanned
100	(64)	SIGNED	4	GTWPSTSP	Number of SAPIDs \$POSTed

Comment

Fields used by \$QGET only (\$TRACE 31)

End of Comment

56	(38)	SIGNED	4	GTWX14RC	Exit 14 return code
60	(3C)	BITSTRING	8	GTWX14TM	Time spent in exit 14
68	(44)	BITSTRING	8	GTWX49TM	Time spent in exit 49
76	(4C)	SIGNED	4	GTWX49SK	# JOBS vetoed by exit 49
80	(50)	BITSTRING	1	GTWQFLG1	Flags
80	(50)	BITSTRING	0	GTWQ1X14	"B'10000000" Exit 14 was entered
80	(50)	BITSTRING	0	GTWQ1X49	"B'01000000" Exit 49 was entered
80	(50)	BITSTRING	0	GTWQ1W49	"B'00100000" Exit 49 \$WAITed
81	(51)	BITSTRING	1	GTWQUEUE	Queue scanned by type
82	(52)	BITSTRING	2		Reserved for future use
84	(54)	SIGNED	4	GTWQJQAN	Number of JQAs obtained
88	(58)	SIGNED	2	GTWJQEMX	Number of JQEs defined
90	(5A)	SIGNED	2	GTWJQEFR	Number of free JQEs

Comment

----- \$QGET MF=L \$QGET parameter list

End of Comment

92	(5C)	ADDRESS	4	GTWQGT	NODE TABLE ADDRESS
96	(60)	ADDRESS	4		CONTROL BLOCK ADDRESS
100	(64)	ADDRESS	4		CLASS LIST ADDRESS
104	(68)	ADDRESS	4		ADDRESS OF JQE
108	(6C)	ADDRESS	1		CLASS LIST LENGTH
109	(6D)	ADDRESS	1		QUEUE TYPE SPECIFIED
110	(6E)	ADDRESS	1		WORK SELECTION TYPE FLAG
111	(6F)	ADDRESS	1		RESERVED FOR FUTURE USE
111	(6F)	X'14	0	GTWQGT	**-"GTWQGT" Length of \$QGET parm list
112	(70)	CHARACTER	36	GTWCLST	Class list for JES init WS (actual length used is in \$QGET parameter list)
112	(70)	X'70 00008'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits
148	(94)	SIGNED	4	GTWQGTRC	\$QGET return code

Comment

End of GTW

End of Comment

152	(98)	X'90	0	GTWSIZE	**-"GTWSTART" SIZE OF \$#GET TRACE RECORD
152	(98)	X'4	0	GTWVERSN	"4" Version number
152	(98)	X'98	0	GTWLEN	**-"GTW" LEN OF GTW WORK AREA

\$GTW Cross Reference

\$GTW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
GTWBEST	18		GTWX14TM	3C	
GTWCALER	1C		GTWX49SK	4C	
GTWCHCNT	44		GTWX49TM	44	
GTWCHSEL	48		GTW1ALM	39	2
GTWCLASS	58		GTW1CNT	39	10
GTWCLST	70		GTW1CYES	39	8
GTWDCT	38		GTW1HYES	39	20
GTWDCTN	24		GTW1NET	39	40
GTWFLAGP	5		GTW1NSAF	39	4
GTWFLAG1	39		GTW1WS	39	80
GTWFLAG2	3A		GTW2FAST	3A	80
GTWFLAG3	3B		GTW2NO	3A	20
GTWID	0		GTW2SAFF	3A	1
GTWJNUM	14				
GTWJOES	3C				
GTWJOID1	40				
GTWJOID2	42				
GTWJONAM	38				
GTWJQEFR	5A				
GTWJQEMX	58				
GTWJQNAM	44				
GTWJQNUM	4C				
GTWJQTYP	4E				
GTWJSCR	10				
GTWLEN	98	98			
GTWMASK	37				
GTWNODE	4C				
GTWORG	38				
GTWPITN	24	24	00004		
GTWPSTCT	54				
GTWPSTSP	64				
GTWPSTWR	5C				
GTWPTIME	5	80			
GTWQFLG1	50				
GTWQGT	5C				
GTWQGTL	6F	14			
GTWQGTRC	94				
GTWQJQAN	54				
GTWQNUM	40				
GTWQUEUE	51				
GTWQ1W49	50	20			
GTWQ1X14	50	80			
GTWQ1X49	50	40			
GTWRMT	4E				
GTWROUTE	4C				
GTWSIZE	98	90			
GTWSPICT	60				
GTWSTART	8				
GTWTFLG1	36				
GTWTIME	8				
GTWT1GET	36	80			
GTWT1PSO	36	10			
GTWT1PST	36	40			
GTWT1QGT	36	20			
GTWUSER	50				
GTWVERS	4				
GTWVERSN	98	4			
GTWWS	37				
GTWWSCN	70	70	00008		
GTWWSPCT	50				
GTWWSTAB	20				
GTWWTRCT	58				
GTWX14RC	38				

\$HASB Programming Interface Information

Programming Interface Information

\$HASB

End of Programming Interface Information

\$HASB Heading Information

Common Name: HASP Address Space Block

Macro ID: \$HASB

DSECT Name: HASB

Owning Component: JES2 (SC1BH)

Eye-Catcher ID: HASB

Offset: 0

Length: 4

Storage Attributes: Subpool: 241 (EXT CSA)

Key: 1

SIZE: SEE LENGTH EQUATES

Size: See Length Equates

Created by: \$\$SIBEGN \$\$SSIEND (IF TEMPORARY)

Pointed to by: ASID*4 + HAVT (SEE BELOW)

Serialization: SHARED BY TCBS IN THE ADDRESS SPACE. ONE \$HASB PER ADDRESS SPACE. LOCAL LOCK IS REQUIRED TO INCREMENT USE COUNT IN \$HASXB. THIS ENSURES THAT THE CONTROL BLOCK WON'T BE FREEMAINED IF IT IS CONSIDERED TO BE TEMPORARY. IT IS NOT NECESSARY TO OBTAIN THE LOCAL LOCK TO INCREMENT A PERMANENT HASXB'S USE COUNT BECAUSE THE HASB/HASXB WILL NOT BE FREEMAINED. AFTER THE USE COUNT HAS BEEN INCREMENTED IN THE \$HASXB CONTROL BLOCK TO INDICATE THAT BOTH THE \$HASB AND \$HASXB ARE IN USE, COMPARE AND SWAPS MAY BE USED TO MODIFY FIELDS. \$\$SIBEGN INCREMENTS THE USE COUNT UPON ENTRY. THE USE COUNT IN THE \$HASXB IS FOR BOTH THE \$HASB AND THE \$HASXB.

Function: THE \$HASB IS A CONTROL BLOCK CONTAINING POINTERS TO DATA STRUCTURES RESIDING IN CSA AND A POINTER TO THE HASXB WHICH RESIDES IN THE PRIVATE AREA AND POINTS TO THE PRIVATE AREA RELATED CONTROL BLOCKS.

\$HASB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HASB	BEGINNING OF \$HASB DSECT
0	(0)	CHARACTER	4	HSBID	EYECATCHER OF \$HASB
4	(4)	ADDRESS	1	HSBVRSN	VERSION NUMBER FIELD
4	(4)	X'1'	0	HSBVNUM	"1" THE CURRENT VERSION NUMBER
5	(5)	BITSTRING	1	HSBRSVRD (3)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HSBCRSYS	CROSS SYSTEM REQUEST COUNT

Comment

This field, HSBCRSYS, must be zero for the HASB to be freed. However, it is not checked in the same way as the fields in the section below, so it is not there.

End of Comment

12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK
----	-----	---------	---	----------	--------------------------------

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>All fields encompassed by HSBCHECK must be zero for the \$SSIEND routine to free the HASB at the end of the SSI call. (Unless it's an END-OF-MEMORY call).</p>					
End of Comment					
16	(10)	ADDRESS	4	HSBSJB	ADDRESS OF FIRST SJB
20	(14)	ADDRESS	4	HSBUSER1	RESERVED FOR USER
20	(14)	X'10 00008'	0	HSBCHECK	"HSBSJB,*-HSBSJB" BEFORE HASB IS FREED THIS MUST BE 0
24	(18)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
24	(18)	X'20	0	HSBLEN	"*-HASB" LENGTH OF \$HASB DSECT

\$HASB Cross Reference

Name	Hex Offset	Hex Value
HSBCHECK	14	10 00008
HSBCRSYS	8	
HSBHASXB	C	
HSBID	0	C8C1E2C2
HSBLEN	18	20
HSBRSVRD	5	
HSBSJB	10	
HSBSTOKN	18	
HSBUSER1	14	
HSBVRNUM	4	1
HSBVRSN	4	

\$HASB Cross Reference

\$HASPEQU Programming Interface information

Programming Interface information

\$HASPEQU

End of Programming Interface information

\$HASPEQU Heading Information

Common Name: Equates for JES2
Macro ID: \$HASPEQU
DSECT Name: None
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: The \$HASPEQU macro is used to generate the register and other equates required by JES2. It also contains some executable macro in-line parameter list equates.

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X' '	0	R0	"0"
0	(0)	X'1 '	0	R1	"1"
0	(0)	X'2 '	0	R2	"2"
0	(0)	X'3 '	0	R3	"3"
0	(0)	X'4 '	0	R4	"4"
0	(0)	X'5 '	0	R5	"5"
0	(0)	X'6 '	0	R6	"6"
0	(0)	X'7 '	0	R7	"7"
0	(0)	X'8 '	0	R8	"8"
0	(0)	X'9 '	0	R9	"9"
0	(0)	X'A '	0	R10	"10"
0	(0)	X'B '	0	R11	"11"
0	(0)	X'C '	0	R12	"12"
0	(0)	X'D '	0	R13	"13"
0	(0)	X'E '	0	R14	"14"
0	(0)	X'F '	0	R15	"15" Access register definitions
0	(0)	X' '	0	AR0	"0"
0	(0)	X'1 '	0	AR1	"1"
0	(0)	X'2 '	0	AR2	"2"
0	(0)	X'3 '	0	AR3	"3"
0	(0)	X'4 '	0	AR4	"4"
0	(0)	X'5 '	0	AR5	"5"
0	(0)	X'6 '	0	AR6	"6"
0	(0)	X'7 '	0	AR7	"7"
0	(0)	X'8 '	0	AR8	"8"
0	(0)	X'9 '	0	AR9	"9"
0	(0)	X'A '	0	AR10	"10"
0	(0)	X'B '	0	AR11	"11"
0	(0)	X'C '	0	AR12	"12"
0	(0)	X'D '	0	AR13	"13"
0	(0)	X'E '	0	AR14	"14"
0	(0)	X'F '	0	AR15	"15" Floating point registers
0	(0)	X' '	0	FP0	"0"
0	(0)	X'2 '	0	FP2	"2"
0	(0)	X'4 '	0	FP4	"4"
0	(0)	X'6 '	0	FP6	"6" VALUES FIXED BY THE HARDWARE
0	(0)	X' '	0	\$PGESIZE	"4096" PROCESSOR PAGE SIZE -- 4K MISCELLANEOUS BC/BIT DEFINITIONS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X' '	0	NONE	"0" NO BITS ON, NEVER BRANCH
0	(0)	X'FF	0	FF	"255" ALL BITS ON, ALWAYS BRANCH EVENT CONTROL FIELD FLAG DEFINITIONS DEFINING JES2 DISPATCHER EVENTS FOR \$WAIT,INHIBIT=YES AND \$POSTS OF SPECIFIC PCES FOR EVENTS
0	(0)	BITSTRING	0	\$EWFPOST	"X'80" INHIBIT SPECIFIC PCE \$POST
0	(0)	BITSTRING	0	\$EWFOPER	"X'40" PROCESSOR DEACTIVATED
0	(0)	BITSTRING	0	\$EWFIO	"X'20" WAITING FOR I/O
0	(0)	BITSTRING	0	\$EWFWORK	"X'10" WAITING FOR WORK
0	(0)	BITSTRING	0	\$EWFHOLD	"X'08" WAITING FOR \$\$ COMMAND DISPATCHER RESOURCE DEFINITIONS (JES2 VALUES START AT 0 AND INCREASE WHILE USER VALUES START AT 63 AND DECREASE - SEE DOCUMENTATION IN THE \$WAIT AND \$POST MACROS)
0	(0)	X' '	0	\$DRMLLM	"0" 'Line manager resource \$POSTS'
0	(0)	X'1	0	\$DRABIT	"1" 'Wait for one dispatcher cycle'
0	(0)	X'2	0	\$DRALOC	"2" 'HOSALLOC subtask serialization'
0	(0)	X'3	0	\$DRIMAGE	"3" 'Requested/executed image load'
0	(0)	X'4	0	\$DRBUF	"4" 'Need/freed JES2 buffer'
0	(0)	X'5	0	\$DRJOT	"5" 'Need/added selectable JOEs'
0	(0)	X'6	0	\$DRJOE	"6" 'Need/freed unused JOE'
0	(0)	X'7	0	\$DRTRACK	"7" 'Need/freed spool track group'
0	(0)	X'8	0	\$DRJOB	"8" 'Need job/changed a job's status'
0	(0)	X'9	0	\$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0)	X'A	0	\$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0)	X'B	0	\$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0)	X'C	0	\$DRCKPTW	"12" 'Need/completed CKPT WRITE cycle'
0	(0)	X'D	0	\$DRCKPTL	"13" 'Lurking for CKPT READ'
0	(0)	X'E	0	\$DRCMB	"14" 'Need/freed unused CMB'
0	(0)	X'F	0	\$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0)	X'10	0	\$DRLOCK	"16" 'Need/freed a job lock'
0	(0)	X'11	0	\$DRMAIN	"17" 'Need/freed main storage'
0	(0)	X'12	0	\$DRFSS	"18" 'FSS ORDER serialization'
0	(0)	X'13	0	\$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0)	X'14	0	\$DRPURGE	"20" 'Want/added JQEs to PURGE queue'

Comment

Type 21,PURGS was deleted in Release 8

End of Comment

0	(0)	X'16	0	\$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0)	X'17	0	\$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0)	X'18	0	\$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0)	X'19	0	\$DRRMWT	"25" 'PCE waiting to be \$POSTed by resource manager'
0	(0)	X'1A	0	\$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0)	X'1B	0	\$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0)	X'1C	0	\$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0)	X'1D	0	\$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0)	X'1E	0	\$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'
0	(0)	X'1F	0	\$DRWARM	"31" 'PCE waiting for a member to warm start'
0	(0)	X'20	0	\$DRARMS	"32" 'ARM support processor'
0	(0)	X'21	0	\$DRHOMOG	"33" 'PCes waiting for JESplex version change'
0	(0)	X'22	0	\$DRWSLOK	"34" 'Warm start lock'
0	(0)	X'23	0	\$DRMFMT	"35" 'PCes waiting for SPOOL mini-format completion'
0	(0)	X'24	0	\$DRCCAN	"36" 'Cancel JOB/TSU/STC in conversion'
0	(0)	X'25	0	\$DRSPI	"37" 'PCes waiting for Sysout API requests'
0	(0)	X'26	0	\$DRBERTW	"38" 'Waiting for a free BERT'
0	(0)	X'27	0	\$DRBERTL	"39" 'Waiting for a BERT lock to free'
0	(0)	X'28	0	\$DRBREG	"40" 'PCes waiting for WLM registration requests'
0	(0)	X'29	0	\$DRDILBERT	"41" 'PCes waiting for \$DILBERT requests'
0	(0)	X'2A	0	\$DRXMITJOB	"42" 'Waiting for NJE JOB activity'
0	(0)	X'40	0	\$DRTOTAL	"64" TOTAL NUMBER OF RESOURCES

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'8	0	\$DRQUEL	"8" LENGTH OF A RESOURCE QUEUE ELMT CIRCULAR FORWARD/BACKWARD PTRS, PCEPCEA/PCEPCEB ARE CHAIN FLDS \$MSG PREFIX LENGTH EQU
0	(0)	X'2	0	\$MSGPFXL	"2" TWO BYTE PACKED DEC. MSG NO. DISPER= EQUATES FOR MESSAGES IN HASPMSG
0	(0)	BITSTRING	0	\$M064IBE	"B'10000000" IOBE is present
0	(0)	BITSTRING	0	\$M064NIB	"B'01000000" No IOBE is available
0	(0)	BITSTRING	0	\$M064SNS	"B'00100000" Sense data is available
0	(0)	BITSTRING	0	\$M064DAD	"B'00010000" DASD I/O was issued
0	(0)	BITSTRING	0	\$M068DEV	"B'10000000" PCE is a device
0	(0)	BITSTRING	0	\$M068NDV	"B'01000000" PCE is not a device
0	(0)	BITSTRING	0	\$M281ALL	"B'10000000" ALL members have I/O errors
0	(0)	BITSTRING	0	\$M281SOM	"B'01000000" Some memb have no I/O error
0	(0)	BITSTRING	0	\$M416LNG	"B'10000000" LONG FORM OF MESSAGE
0	(0)	BITSTRING	0	\$M416SHR	"B'01000000" SHORT FORM OF MESSAGE
0	(0)	BITSTRING	0	\$M458CK1	"B'10000000" CKPT1 FORM OF MESSAGE
0	(0)	BITSTRING	0	\$M458CK2	"B'01000000" CKPT2 FORM OF MESSAGE
0	(0)	BITSTRING	0	\$M478CK1	"B'10000000" One data set in use
0	(0)	BITSTRING	0	\$M478CK2	"B'01000000" Two data sets in use
0	(0)	BITSTRING	0	\$M479IO	"B'10000000" I/O ERROR
0	(0)	BITSTRING	0	\$M479SID	"B'01000000" SID=SYSID
0	(0)	BITSTRING	0	\$M479INT	"B'00100000" SID=INITIALIZATION
0	(0)	BITSTRING	0	\$M479VAL	"B'00010000" Validation error
0	(0)	BITSTRING	0	\$M607IO	"B'10000000" OUTSTANDING I/O
0	(0)	BITSTRING	0	\$M607WTO	"B'01000000" OUTSTANDING WTO ACTIVITY
0	(0)	BITSTRING	0	\$M607ACT	"B'00100000" ACTIVE PROCESSORS OR ADDRESS SPACES
0	(0)	BITSTRING	0	\$M607HLD	"B'00010000" OUTSTANDING HELD PROCESSORS
0	(0)	BITSTRING	0	\$M607LCK	"B'00001000" STC/TSU INTERNAL READER LOCKS HELD
0	(0)	BITSTRING	0	\$M607CRS	"B'00000100" OUTSTANDING CROSS SYSTEM REQUESTS
0	(0)	BITSTRING	0	\$M607SPN	"B'00000010" OUTSTANDING SPIN ACTIVITY
0	(0)	BITSTRING	0	\$M607PCE	"B'00000001" Clean withdrawal prohibited due to ended (disposed) processors
0	(0)	BITSTRING	0	\$M711CNT	"B'10000000" Count of system PC routines changed on a hot start
0	(0)	BITSTRING	0	\$M711ATT	"B'01000000" Attributes of system PC routines changed on a hot start
0	(0)	BITSTRING	0	\$M711RTN	"B'00100000" Failed to connect to AUX address space
0	(0)	BITSTRING	0	\$M291CC1	"B'10000000" CCW 1 address filled in
0	(0)	BITSTRING	0	\$M291CC2	"B'01000000" CCW 2 address filled in
0	(0)	BITSTRING	0	\$M291NCW	"B'00100000" No CCWs addresses available
0	(0)	BITSTRING	0	\$M291SNS	"B'00010000" Sense data is available HASP STATUS BIT DEFINITIONS
0	(0)	BITSTRING	0	\$QSONDA	"X'80" SHARED QUEUES ARE ON DA
0	(0)	BITSTRING	0	\$ALMSGSW	"X'40" ALL AVAILABLE FUNCTIONS MSG ISSUED
0	(0)	BITSTRING	0	\$DRAINED	"X'20" THIS SYSTEM IS DRAINED, FLAG IS ON INITIALIALLY, OFF AFTER 'NOREQ' WARM START, SET BY \$\$/\$P
0	(0)	BITSTRING	0	\$CKPTW	"X'10" CHECKPOINT WRITE REQUIRED
0	(0)	BITSTRING	0	\$INDMODE	"X'08" SYSTEM IS IN INDEPENDENT MODE
0	(0)	BITSTRING	0	\$SYSEXIT	"X'04" HASP SYSTEM IN TERMINATION PROCESS
0	(0)	BITSTRING	0	\$NPMDOWN	"X'02" Network path manager has been disabled due to error
0	(0)	BITSTRING	0	\$CKPTRSV	"X'01" CHECKPOINT IS RESERVED HASP MVS OPTIONS FLAG

Comment

 \$TKNLEN and \$TKNVERN are the length and version of the security token that is defined for RACROUTE calls with RELEASE=1.9.

End of Comment

0	(0)	X'50	0	\$TKNLEN	"80" SAF SECURITY TOKEN LENGTH
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	\$TKNVERN	"X'01" SAF SECURITY TOKEN VERSION
0	(0)	X'27	0	\$ENTYLEN	"39" LENGTH OF SECURITY ENTITY STRING

Comment					

Equates for the type of JES2 start, used in the \$WARM TYP and X024COND flag bytes.					

End of Comment					
0	(0)	BITSTRING	0	\$WARM	"X'80" SINGLE-SYSTEM WARMSTART
0	(0)	BITSTRING	0	\$HOT	"X'40" HOT START INDICATOR
0	(0)	BITSTRING	0	\$QUICK	"X'20" QUICK START INDICATOR
0	(0)	BITSTRING	0	\$CONFIG	"X'10" CONFIGURATION-WIDE WARMSTART
0	(0)	BITSTRING	0	\$ESYS	"X'08" '\$E SYS' RESTART
0	(0)	BITSTRING	0	\$COLD	"X'04" COLD START
0	(0)	BITSTRING	0	\$MVS IPL	"X'02" MVS WAS IPL'D
0	(0)	BITSTRING	0	\$COLD FMT	"X'01" COLD START WITH FORMAT
0	(0)	X'F4	0	\$WARMH D	"500" Minimum number of hundredths of seconds for minhold during warmstart HASP SUBTASK SYSTEM STATUS FLAG
0	(0)	BITSTRING	0	\$SUBERR	"B'10000000" UNRECOVERABLE SUBTASK ERROR
0	(0)	BITSTRING	0	\$SUBMULT	"B'01000000" MULTIPLE SUBTASK FAILURES
0	(0)	X' '	0	\$LRGSMFB	"32*1024" SIZE OF LARGE SMF BUFFER * D/T4245/4248 SETPRT OPTION * BIT DEFINITION * *
0	(0)	BITSTRING	0	\$PPVERIU	"X'10" UCS VERIFY BIT SPPVERIU \$RRTWA BIT DEFINITIONS
0	(0)	BITSTRING	0	\$RRTJOB	"B'10000000" JOB-LEVEL CHECKING REQ'D HASPRTAM DEFINITIONS
0	(0)	X'20	0	\$MWORKSZ	"288" SIZE OF RTAM WORK AREA ADDRESSED VIA \$MWORK -- MUST BE MULTIPLE OF 8 BYTES \$EXTP OPTION AND PARAMETER LIST DEFNS
0	(0)	X'1'	0	EXTPLCMD	"0,1" (CCW) COMMAND TO BE PERFORMED
0	(0)	X'1 00003'	0	EXTPLLEN	"1,3" LENGTH OF DATA (IF ANY) PASSED
0	(0)	X'4 00004'	0	EXTPLDAT	"4,4" STARTING ADDRESS OF DATA
0	(0)	X'8	0	EXTPLSIZ	"8" SIZE OF PARAMETER LIST
0	(0)	X' '	0	\$EXTPOPE	"0" ENTRY LIST INDEX FOR OPEN
0	(0)	X'1	0	\$EXTPGET	"1" ENTRY LIST INDEX FOR GET
0	(0)	X'2	0	\$EXTPPUT	"2" ENTRY LIST INDEX FOR PUT
0	(0)	X'3	0	\$EXTPCLO	"3" ENTRY LIST INDEX FOR CLOSE
0	(0)	X'4	0	\$EXTPNCL	"4" ENTRY LIST INDEX FOR NCLOSE
0	(0)	X'5	0	\$EXTPREA	"5" ENTRY LIST INDEX FOR READ
0	(0)	X'6	0	\$EXTPWRI	"6" ENTRY LIST INDEX FOR WRITE CSA STORAGE BLOCK PREFIX EQUATES
0	(0)	X'4'	0	\$CSBID	"0,4" CSA STOR BLK EYE CATCHER OFFSET
0	(0)	X'4	0	\$CSBSPLN	"4" CSA STOR BLK SUBP, LNGTH OFFSET
0	(0)	X'8	0	\$CSBPRFX	"8" CSA STOR BLOCK PREFIX LENGTH HASP INITIALIZATION LIMITS
0	(0)	X'A	0	\$MINBUF	"10" Minimum # of HASP buffers
0	(0)	X'7	0	\$MAXNJEQ	"7" Maximum member number for NJE tests
0	(0)	X'D0	0	\$MAXBUF	"2000" MAXIMUM NUMBER OF HASP BUFFERS
0	(0)	X'4	0	\$MINCMB	"4" Minimum # of CMBs
0	(0)	X'F	0	\$MAXCMB	"9999" Maximum number of CMBs
0	(0)	X'4	0	\$MINCMDB	"4" Minimum # of command CMBs
0	(0)	X'F	0	\$MAXCMDB	"9999" Maximum # of command CMBs
0	(0)	X'A	0	\$MINBUFEX	"10" Minimum # of CB buffers
0	(0)	X'F	0	\$MAXBUFEX	"9999" Maximum # of CB buffers
0	(0)	X'A	0	\$MINBSC	"10" Minimum # of BSC Buffers
0	(0)	X'F	0	\$MAXBSC	"9999" Maximum # of BSC buffers
0	(0)	X'A	0	\$MINVTAM	"10" Minimum # of VTAM buffers
0	(0)	X'F	0	\$MAXVTAM	"9999" Maximum # of VTAM buffers
0	(0)	X'A	0	\$MINNHB	"10" Minimum # of NHB buffers
0	(0)	X'F	0	\$MAXNHB	"9999" Maximum # of NHB buffers

\$HASPEQU Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	X'C8	'	0	\$CPRIMXT	"200" NUMBER OF BUFFERS IN THE \$CPOOL PRIMARY EXTENT
0	(0)	X'90	'	0	\$CPNHBMX	"400" Max number of NHB cells in the \$CPOOL primary extent
0	(0)	X'FD	'	0	\$MAXDA	"253" MAXIMUM NUMBER OF SPOOL VOLUMES (((\$MAXDA+31)/32*4) IS USED TO DE- FINE THE NUMBER OF BYTES NEEDED IN DECLARES FOR SPOOL MASKS. EACH 32 VOLS NEEDS ONE WORD, TIMES 4, TO GET THE LENGTH IN BYTES
0	(0)	X'FF	'	0	\$MAXTGBE	"255" MAX NUMBER OF BLOB ENTRIES
0	(0)	X'F4	'	0	\$MAXTINT	"500" MAX TIME (IN 100THS OF A SECOND) TO WAIT TO START A CKPT WRITE
0	(0)	X'F	'	0	\$MINTINT	"15" Min time (in 100th seconds) below which we will not do an intermediate write
0	(0)	X'	'	0	\$MAXTGV	"(65535+7)/8" NO. OF BYTES TO REPRESENT MAXIMUM NO. OF TRK GROUPS PER VOLUME (65535)
0	(0)	X'FE	'	0	\$MAXJQES	"65534" MAXIMUM NUMBER OF JQES
0	(0)	X'FE	'	0	\$MAXJBNO	"65534" MAXIMUM NUMBER OF JOB NUMS
0	(0)	X'64	'	0	\$MINBERT	"100" Minimum number of BERTs
0	(0)	X'F8	'	0	\$MAXBERT	"4*\$MAXJQES" Maximum number of BERTs
0	(0)	X'7F	'	0	\$MAXDSKY	"9999999" MAXIMUM NUMBER OF DS PER JOB
0	(0)	X'FF	'	0	\$MAXJOID	"99999999" MAXIMUM JOE ID NUMBER IN JQE
0	(0)	X'FF	'	0	\$MAXLNES	"32767" MAXIMUM NUMBER OF TP LINES
0	(0)	X'E7	'	0	\$MAXLOGS	"999" MAXIMUM VTAM INTERFACES INTERFACES
0	(0)	X'FF	'	0	\$MAXNODE	"32767" MAXIMUM NUMBER OF NJE NODES
0	(0)	X'D0	'	0	\$MAXRST	"2000" MAXIMUM SPECIFIABLE RESISTANCE
0	(0)	X'63	'	0	\$MAXCMPT	"99" MAXIMUM NUMBER OF CMPCTION TBLS
0	(0)	X'8	'	0	\$MAXOFFS	"8" MAXIMUM NUMBER OF OFFLOAD DEV
0	(0)	X'FF	'	0	\$MAXPRTS	"32767" MAX NUMBER OF LOCAL PRTs
0	(0)	X'63	'	0	\$MAXPUNS	"99" MAXIMUM NUMBER OF LOCAL PUNCHES
0	(0)	X'63	'	0	\$MAXRDRS	"99" MAXIMUM NUMBER OF LOCAL READERS
0	(0)	X'FF	'	0	\$MAXRJE	"32767" MAX NUMBER OF REMOTES
0	(0)	X'FF	'	0	\$MAXROUT	"32767" MAX ROUTE CODE
0	(0)	X'C8	'	0	\$MAXNMSG	"200" MAX NUMBER NOTIFY MSG BUFFS
0	(0)	X'F4	'	0	\$MAXSJFR	"500" MAX NUM SJF SERVICE REQSTS
0	(0)	X'12	'	0	\$MAXRCLN	"18" Max symbolic routecde len
0	(0)	X'7F	'	0	\$MAXIPLN	"127" Max IP-format dest length
0	(0)	X'FF	'	0	\$MAXCPPG	"32767" MAXIMUM VALUE FOR CKPTPAGE
0	(0)	X'FF	'	0	\$MAXCPLN	"32767" MAXIMUM VALUE FOR CKPTLINE
0	(0)	X'FF	'	0	\$MAXCPTM	"32767" MAXIMUM VALUE FOR CKPTSEC
0	(0)	X'10	'	0	\$MAXNPRO	"3600" MAXIMUM TIME BEFORE PRT NPRO
0	(0)	X'F	'	0	\$MAXINIT	"9999" Maximum number, initiators
0	(0)	X'8	'	0	\$MAXFORM	"8" MAXIMUM NUMBER OF PRINTER FORMS FOR WORK SELECTION
0	(0)	X'FF	'	0	\$MAXPRMD	"255" MAXIMUM NUMBER OF PRMODES DEFINED FOR THIS SYSTEM
0	(0)	X'8	'	0	\$MAXPRDV	"8" DEFAULT NUMBER OF PROCESS MODES PER DEVICE
0	(0)	X'20	'	0	\$MAXSYSN	"32" Maximum number of members
0	(0)	X'20	'	0	\$MAXSYS	"(((\$MAXSYSN+7)/8)*8" Maximum # of members forced to multiple of 8
0	(0)	X'4	'	0	\$MXSYSBY	"(\$MAXSYS)/8" Number of bytes to hold affinity mask
0	(0)	X'4	'	0	\$MAXSNML	"4" MAX SYSTEM AFFINITY NAME LENGTH
0	(0)	X'80	'	0	\$MAXSAFL	"\$MAXSYS*\$MAXSNML" Max affinity list length
0	(0)	X'8	'	0	\$MAXLCK	"8" NUMBER OF LCK CKPT ELEMENTS
0	(0)	X'32	'	0	\$MAXVRSN	"50" MAX VERSIONS IN DATA SPACE
0	(0)	X'B8	'	0	\$MAXTRC	"3000" Max trace table pages
0	(0)	BITSTRING	'	0	\$MAXTLOG	"X'7FFFFFFF" MAX TRACE LOG DATASET SIZE
0	(0)	X'1E	'	0	\$MAXSSZZ	"30" Max rest time for SJFR PCE Rolling Trace Equates
0	(0)	X'E8	'	0	\$ROTNUM	"1000" Nr of elements in JQE tbl
0	(0)	X'E8	'	0	\$ROTONUM	"1000" Nr of elements in JOE tbl
0	(0)	X'E8	'	0	\$ROTDNUM	"1000" Elements in dispatcher tbl SRVSETUP ROUTINE EQUATES
0	(0)	X'4	'	0	\$VOLMAX	"4" MAXIMUM NUMBER OF VOLUMES
0	(0)	X'6	'	0	\$VOLLEN	"6" LENGTH OF VOLUME NAME
0	(0)	X'18	'	0	\$VOLFLDL	"\$VOLMAX*\$VOLLEN" VOLUME FIELD LENGTH

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	X'20	'	0	\$VOLMSKL	"((\$MAXDA+31)/32*4)" VOLUME MASK SIZE HASP INITIALIZATION DEFAULTS
0	(0)	X'E8	'	0	\$JQEDEF	"1000" DEFAULT NUMBER OF JQE'S
0	(0)	X'64	'	0	\$CMBDEF	"100" DEFAULT NUMBER OF CMB'S
0	(0)	X'F	'	0	\$MAXJDEF	"9999" DEFAULT VALUE FOR MAX JOB#
0	(0)	X'1	'	0	\$MINJDEF	"1" DEFAULT VALUE FOR MIN JOB#
0	(0)	X'5	'	0	\$SMFDEF	"5" DEFAULT NUMBER OF SMF BUFFERS
0	(0)	X'2C	'	0	\$NPRODEF	"300" DEFAULT NPRO TIME
0	(0)	X'64	'	0	\$CKPGDEF	"100" DEFAULT CKPTPAGE VALUE
0	(0)	X'1	'	0	\$SSIRCVR	"1" NUMBER OF RECOVERABLE \$ERRORS ALLOWED IN AN SSI FUNCTION
0	(0)	X'E8	'	0	\$IOTRBGN	"1000" SPIN IOTS CREATED BEFORE REUSE
0	(0)	X'5	'	0	\$IOTRLMT	"5" MAX ATTEMPTS AT REUSE/ALLOC
0	(0)	X'E8	'	0	\$PBUFLIM	"1000" MAX ADDITIONAL PBUFS/ASID
0	(0)	X'64	'	0	\$SEGLMDF	"100" DEFAULT SEGMENT LIMIT
0	(0)	X'	'	0	\$QINDXL	"256" Length of QINDEX table HASP TRACK GROUP MAP ROUNDING AND MAX SIZE VALUES: \$TGDEF=((4096-HDPLNGTH)/2)*8 \$MAXTGS=(10000000/\$TGDEF)*\$TGDEF
0	(0)	X'A0	'	0	\$TGDEF	"16288" DEFAULT NUMBER OF TRACK GROUPS AND RESULTS IN 2 TRACK GROUP MAPS IN PAGE OF CKPT STORAGE
0	(0)	X'40	'	0	\$MAXTGS	"9935680" MAXIMUM NUMBER OF TRACK GROUPS \$CTENT VERSION NUMBER VALUES
0	(0)	X'1	'	0	TGMVRSN	"1" TGM CKPT VERSION NUMBER
0	(0)	X'1	'	0	SCQVRSN	"1" SCQ CKPT version number
0	(0)	X'1	'	0	JIXVRSN	"1" JIX CKPT VERSION NUMBER
0	(0)	X'2	'	0	PSTVRSN	"2" PST CKPT VERSION NUMBER
0	(0)	X'1	'	0	RSOVRSN	"1" RSO CKPT VERSION NUMBER ESTABLISH MVS EQUUS AND GLOBALS
0	(0)	BITSTRING		0	IECITMOD	"X'18" HASP ATTENTION INDEX

Comment

\$MAXACCT represents the maximum number of characters allowed on an MVS JOB statement accounting string. In internal format, \$MAXACCT+2 bytes are required to hold the string (a one byte counter of the number of subfields, and the one byte length of the first subfield. the length fields for the second and subsequent subfields do not require an extra byte as there was previously a one byte comma separating the subfields).

End of Comment

0	(0)	X'8F	'	0	\$MAXACCT	"143" Max number of characters allowed for accounting on an MVS JOB statement \$TRACE RECORD FORMATTING KEYS
0	(0)	X'	'	0	\$TRK000D	"0" UNLABELED DUMP FORMAT CHECKPOINT DISPOSITION
0	(0)	BITSTRING		0	\$CKPAMWS	"X'80" All member warm start in progress
0	(0)	BITSTRING		0	\$CKPSPVL	"X'40" Track group map rebuild in progress
0	(0)	BITSTRING		0	\$CKPLOBK	"X'20" OPERATOR BYPASSED LOCK

Comment

EQU X'10' RESERVED FOR FUTURE USE

End of Comment

0	(0)	BITSTRING		0	\$CKPDAMG	"X'08" CHECKPOINT READ WAS DAMAGED
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\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
\$CKPERRQ X'04' This bit used in 5.1 (cannot use in 5.2)					
End of Comment					
0	(0)	BITSTRING	0	\$CKPBLDQ	"X'02" JOB QUEUE REBUILT
Comment					
\$CKPERRJ X'01' This bit used in 5.1 (cannot use in 5.2) CHECKPOINT RECOVERY DIALOG FLAGS					
End of Comment					
0	(0)	BITSTRING	0	\$CKRTOP	"B'10000000" THIS SYSTEM HAS HIGHEST CKP
0	(0)	BITSTRING	0	\$CKRNTOP	"B'01000000" THIS SYSTEM DOES NOT HAVE HIGHEST CHECKPOINT
0	(0)	BITSTRING	0	\$CKRCKP1	"B'00100000" CKPT1 FILE IS ACTIVE
0	(0)	BITSTRING	0	\$CKRNKP1	"B'00010000" CKPT1 FILE IS NOT ACTIVE
0	(0)	BITSTRING	0	\$CKRCKP2	"B'00001000" CKPT2 FILE IS ACTIVE
0	(0)	BITSTRING	0	\$CKRNKP2	"B'00000100" CKPT2 FILE IS NOT ACTIVE
0	(0)	BITSTRING	0	\$CKRIOE	"B'00000010" PROCESSING I/O ERROR
0	(0)	BITSTRING	0	\$CKRNIOE	"B'00000001" NOT PROCESSING I/O ERROR
Comment					
THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS \$CKRIOE OR \$CKRNIOE. (MAPPED OVER \$CKRTOP AND \$CKRNTOP FOR THE HASP273 MESSAGE)					
End of Comment					
0	(0)	BITSTRING	0	\$CKRSTRT	"B'10000000" CHECKPOINT FILE BEING PLACED BACK INTO SERVICE (OPTION 7 OR 8) RESPONSE TO HASP271/272
0	(0)	BITSTRING	0	\$CKRNSTR	"B'01000000" CHECKPOINT FILE BEING ASSIGNED TO NEWCKPTN
Comment					
THESE NEXT TWO BIT DEFINITIONS MUST BE MAPPED OVER \$CKRTOP AND \$CKRNTOP FOR THE HASP282 AND HASP278 MESSAGES					
End of Comment					
0	(0)	BITSTRING	0	\$CKRDEL	"B'10000000" DELETE OPTION VALID
0	(0)	BITSTRING	0	\$CKRNDEL	"B'01000000" DELETE OPTION IS NOT VALID EXTENSION AREA MAPPING
0	(0)	X'2'	0	\$JEXTTGN	"0,2,C'H" TRACK GROUP NUMBER, MUST BE 1ST
0	(0)	X'2'	0	\$JEXTLEN	"L'\$JEXTTGN" LENGTH OF EXTENSION AREA
Comment					
EQUATES USED TO MARK THE EXTRA CONTROL BYTES TO REFLECT HOW THE PAGE WAS LAST UPDATED. ALGORITHMS IN JES2 DEPEND ON THE FIRST FOUR EQUATES RESIDING IN THE LOW NIBBLE OF THE CONTROL BYTE					
End of Comment					
0	(0)	BITSTRING	0	CKPCLCKP	"B'00000001" \$CKPT ROUTINE MARKED PAGE
0	(0)	BITSTRING	0	CKPCLRDC	"B'00000010" IN KAFTRD2, CHLOG ON OTHER
0	(0)	BITSTRING	0	CKPCLRDP	"B'00000100" IN KAFTRD2, 4K PG ON OTHER
0	(0)	BITSTRING	0	CKPCLBCL	"B'00001000" IN KBLDCHLG, IN OUR CHLOG
0	(0)	BITSTRING	0	CKPCLMRK	"B'00001111" MARKED BY HASPKAP SUBTASK (ALSO USED TO TEST LOW NIBBLE)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	CKPCLCRW	"B'1000000" PAGE UPDATED FOR CURRENT I/O
0	(0)	BITSTRING	0	CKPCLCMW	"B'0100000" PAGE UPDATED SINCE LAST PRIMARY WRITE IN THIS CYCLE
Comment					
Requests types for the CKPT on CF subtask (must be the same as those in \$CFCON)					
End of Comment					
0	(0)	X'1	'	0	CFREQ_T1IO "1" ID for track 1 I/O
0	(0)	X'2	'	0	CFREQ_READ2 "2" ID for READ2 request
0	(0)	X'3	'	0	CFREQ_WRITE "3" ID for WRITE request
0	(0)	X'4	'	0	CFREQ_LOCK "4" ID for lock request
0	(0)	X'5	'	0	CFREQ_UNLCK "5" ID for unlock request
0	(0)	X'6	'	0	CFREQ_FMT "6" ID for FORMAT request JES PROCESSING SUBPOOLS
0	(0)	X'	'	0	\$SP0 "0" General purpose subpool
0	(0)	X'4	'	0	CKPTPOOL "4" Subpool for CKC/CKB
0	(0)	X'5	'	0	BATPOOL "5" Subpool for BAT
0	(0)	X'6	'	0	BSCPOOL "6" Subpool for BSC
0	(0)	X'7	'	0	CBPOOL "7" Subpool for Control Blocks
0	(0)	X'8	'	0	HASPPool "8" Subpool for HASP Buffers
0	(0)	X'9	'	0	NATPOOL "9" Subpool for NAT
0	(0)	X'A	'	0	B32KPOOL "10" Subpool for 32K buffers
0	(0)	X'B	'	0	NMAPPOOL "11" Subpool for NMAP
0	(0)	X'C	'	0	NSAPOOL "12" Subpool for NSA
0	(0)	X'D	'	0	NTQPOOL "13" Subpool for NTQ
0	(0)	X'E	'	0	PAGEPOOL "14" Subpool for PAGE Buffers
0	(0)	X'F	'	0	PPPOOL "15" Subpool for PP Buffers
0	(0)	X'10	'	0	VTAMPOOL "16" Subpool for VTAM Buffers
0	(0)	X'11	'	0	XRQPOOL "17" Subpool for XCF requests
0	(0)	X'12	'	0	SMFPOOL "18" Subpool for SMF requests
0	(0)	X'13	'	0	CFPOOL "19" Subpool for CF data
0	(0)	X'14	'	0	CMBPOOL "20" Subpool for CMBs
0	(0)	X'15	'	0	PLXPOOL "21" Subpool for PLX dyn areas
0	(0)	X'16	'	0	HEDRPOOL "22" Subpool for NJE hdr/trlr buffers
0	(0)	X'17	'	0	TINTPOOL "23" Subpool for temporary CBs used during initialization
0	(0)	X'18	'	0	PERFPOOL "24" Subpool for performance tracking related storage
0	(0)	X'19	'	0	PCEPOOL "25" Subpool for PCEs
0	(0)	X'1A	'	0	ICEPOOL "26" Subpool for ICEs
0	(0)	X'1C	'	0	RNTPOOL "28" Subpool for RNTs
0	(0)	X'84	'	0	\$SP132 "132" Non-fetch protected private
0	(0)	X'E5	'	0	\$STSUBP "229" SUBPOOL FOR SECURITY TOKENS FETCH PROTECTED, USER KEY
0	(0)	X'E7	'	0	\$SPCSAF "231" CSA, fetch protected, user key
0	(0)	X'F1	'	0	\$ENFPPOL "241" Subpool for ENF parm lists; ENF parm lists must be in CSA EVENT TRACE FORMATTING EQU S
0	(0)	BITSTRING		0	TRCCWSP1 "X'09" WRITE-THEN-SPACE-1 CC
0	(0)	BITSTRING		0	TRCCWSP2 "X'11" WRITE-THEN-SPACE-2 CC
0	(0)	BITSTRING		0	TRCCWSP3 "X'19" WRITE-THEN-SPACE-3 CC
0	(0)	X'79	'	0	TRCLRECL "121" MAX LOGICAL RECORD LENGTH PRINTER LOG AREA LENGTHS
0	(0)	X'3A	'	0	DYNL3211 "570" SIZE OF 3211 LOG AREA
0	(0)	X'E	'	0	DYNL3800 "270" SIZE OF 3800 MDR AREA
0	(0)	X'50	'	0	DYNL3203 "592" SIZE OF 3203 LOG AREA
0	(0)	X'50	'	0	DYNL4245 "592" SIZE OF 4245 LOG AREA
0	(0)	X'	'	0	DYNL4248 "256" SIZE OF 4248 LOG AREA

\$HASPEQU Map

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

OUTPUT GROUP DISPOSITION COMMON EQUATES					

					End of Comment
0	(0)	BITSTRING	0	\$ODPURGE	"B'00010000" OUTDISP=PURGE
0	(0)	BITSTRING	0	\$ODWRITE	"B'00001000" OUTDISP=WRITE
0	(0)	BITSTRING	0	\$ODHOLD	"B'00000100" OUTDISP=HOLD
0	(0)	BITSTRING	0	\$ODKEEP	"B'00000010" OUTDISP=KEEP
0	(0)	BITSTRING	0	\$ODLEAVE	"B'00000001" OUTDISP=LEAVE
0	(0)	X'F	0	\$ODANY	"\$ODWRITE+\$ODHOLD+\$ODKEEP+\$ODLEAVE" TEST FOR OUTDISP W/O PURGE
0	(0)	X'1F	0	\$ODANYWP	"\$ODWRITE+\$ODHOLD+\$ODKEEP+\$ODLEAVE+\$ODPURGE" TEST FOR OUTDISP WITH PURGE MAPPING OF CATASTROPHIC ERROR USER ENTRY
0	(0)	X'4'	0	\$ERRCDE	"0,4" POSITION/LENGTH OF CATA ERR CODE IN TABLE
0	(0)	X'4 0002A'	0	\$ERRTEXT	"4,42" POSITION/LENGTH OF CATA ERR TEXT IN TABLE
0	(0)	X'2E	0	\$ERRENTY	"L\$ERRCDE+L\$ERRTEXT" LENGTH OF AN ENTRY IN TABLE HASP \$SCAN CALLER ID FLAGS, USERS SHOULD USE IDS FROM 255 DOWN, IF NEEDED
0	(0)	X'1	0	\$SCOPTS	"1" IROPTS HASP OPTIONS
0	(0)	X'2	0	\$SCIRPL	"2" IRPL NONE-CONSOLE STMTS
0	(0)	X'3	0	\$SCIRPLC	"3" IRPL CONSOLE STMTS
0	(0)	X'4	0	\$SCDCMDS	"4" DISPLAY COMMANDS
0	(0)	X'5	0	\$SCSCMDS	"5" SET COMMANDS
0	(0)	X'6	0	\$SCDOCMD	"6" SHORT DISPLAY FORM
0	(0)	X'7	0	\$SCSTCMD	"7" START COMMANDS
0	(0)	X'8	0	\$SCPCMDS	"8" STOP COMMANDS
0	(0)	X'9	0	\$SCDDIAL	"9" DIALOG DISPLAY FORM
0	(0)	X'A	0	\$SCSDIAL	"10" DIALOG SET FORM
0	(0)	X'B	0	\$SCECMDS	"11" RESET COMMANDS (list)
0	(0)	X'C	0	\$SCACMDS	"12" ADD COMMANDS
0	(0)	X'D	0	\$SCRCMDS	"13" DELETE COMMANDS
0	(0)	X'E	0	\$SCIDIAL	"14" DIALOG (INITIALIZATION)
0	(0)	X'F	0	\$SCLTCMD	"15" Output long display
0	(0)	X'10	0	\$SCECMDA	"16" RESET COMMANDS (single)
0	(0)	X'11	0	\$SCZCMDS	"17" HALT commands
0	(0)	X'12	0	\$SCHCMDS	"18" HOLD commands
0	(0)	X'13	0	\$SCRLCMD	"19" RELEASE commands
0	(0)	X'14	0	\$SCCCMDS	"20" CANCEL commands
0	(0)	X'15	0	\$SCTOCMD	"21" \$TO commands
0	(0)	X'16	0	\$SCCOCMD	"22" \$CO commands
0	(0)	X'17	0	\$SCPOCMD	"23" \$PO commands
0	(0)	X'18	0	\$SCOCMDS	"24" \$O command
0	(0)	X'19	0	\$SCLOCMD	"25" Output short display
0	(0)	X'1A	0	\$SCLCMDS	"26" \$L command
0	(0)	X'1B	0	\$SACTCM	"27" \$ACTIVATE command
0	(0)	X'1C	0	\$SCZAPCM	"28" \$ZAP command HASP \$SCAN WARNING MASK EQUATES
0	(0)	BITSTRING	0	\$SCWOBS	"B'10000000" WARN FOR OBSOLETE PARAMETERS
0	(0)	BITSTRING	0	\$SCWHOTS	"B'01000000" WARN FOR HOT START
0	(0)	BITSTRING	0	\$SCWIBM	"B'00111100" RESERVED FOR FUTURE USE
0	(0)	BITSTRING	0	\$SCWINST	"B'00000011" RESERVED FOR INSTALLATION HASP \$SCAN DIAGNOSTIC LEVEL TABLE EQUATE VALUES
0	(0)	X'4'	0	SDLTBADD	"0,4,C'A" ADDR OF THE KEYWORD BACKUP AREA
0	(0)	X'4	0	SDLTLEN	"4" LEN OF DIAG LVL TABLE ENTRY
0	(0)	X'A	0	SDLTNUM	"10" Number of SDLT entries (one is reserved to end the table and will never point to a backup area HASP \$SCAN EQUATES FOR INDEXING INTO THE DYNAMIC DIAGNOSTIC ERROR MESSAGES
0	(0)	X'4'	0	DIAGADDR	"0,4" ADDRESS OF THE DIAGNOSTIC TEMPLATE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'4 00001'	0	DIAGKLOC	"4,1" LEN INTO THE PHRASE WHERE OPERAND IS TO BE PLACED
0	(0)	X'5 00001'	0	DIAGKLEN	"5,1" MAX LEN OF OPERAND TO BE PLACED

Comment

Equates for dynamic tables

End of Comment

0	(0)	X'4'	0	PAIRUSER	"0,4" User table
0	(0)	X'4 00004'	0	PAIRHASP	"4,4" HASP table
0	(0)	X'8 00004'	0	PAIRDYN	"8,4" Dynamic table (pointer to cell)
0	(0)	X'C '	0	PAIRLEN	"12" Table pair length

Comment

Dynamic cell mapping

End of Comment

0	(0)	X'4'	0	DYNT EYE	"0,4,C'C" Eyecatcher
0	(0)	X'4 00004'	0	DYNTNEXT	"4,4" Pointer to next cell
0	(0)	X'8 00004'	0	DYNTTAB	"8,4" Pointer to table
0	(0)	X'C 00001'	0	DYNTTYPE	"12,1" Table type (see MTETBTYP)
0	(0)	X'10 '	0	DYNTLEN	"16" Length of dynamic table cell HASP \$SCAN EQUATES FOR INDEX INTO THE DIAGNOSTIC MSG TABLE BASE ON THE REASON CODES
0	(0)	X'4 '	0	SCNDR01	"4" PTR TO DIAGINV MESSAGE ADDR
0	(0)	X'8 '	0	SCNDR03	"SCNDR01+4" PTR TO DIAGNSP MESSAGE ADDR
0	(0)	X'C '	0	SCNDR04	"SCNDR03+4" PTR TO DIAGSSER MESSAGE ADDR
0	(0)	X'10 '	0	SCNDR05	"SCNDR04+4" PTR TO DIAGVERR MESSAGE ADDR
0	(0)	X'14 '	0	SCNDR06	"SCNDR05+4" PTR TO DIAGIVAL MESSAGE ADDR
0	(0)	X'18 '	0	SCNDR07	"SCNDR06+4" PTR TO DIAGRTYP MESSAGE ADDR
0	(0)	X'1C '	0	SCNDR08	"SCNDR07+4" PTR TO DIAGBRNG MESSAGE ADDR
0	(0)	X'20 '	0	SCNDR09	"SCNDR08+4" PTR TO DIAGSRNG MESSAGE ADDR
0	(0)	X'24 '	0	SCNDR10	"SCNDR09+4" PTR TO DIAGLRNG MESSAGE ADDR
0	(0)	X'28 '	0	SCNDR11	"SCNDR10+4" PTR TO DIAGDCOR MESSAGE ADDR
0	(0)	X'2C '	0	SCNDR12	"SCNDR11+4" PTR TO DIAGROM MESSAGE ADDR
0	(0)	X'30 '	0	SCNDR13	"SCNDR12+4" PTR TO DIAGVND MESSAGE ADDR
0	(0)	X'34 '	0	SCNDR14	"SCNDR13+4" PTR TO DIAGMLDX MESSAGE ADDR
0	(0)	X'38 '	0	SCNDR17	"SCNDR14+4" PTR TO DIAGIRTE MESSAGE ADDR
0	(0)	X'3C '	0	SCNDR18	"SCNDR17+4" PTR TO DIAGIRC MESSAGE ADDR
0	(0)	X'40 '	0	SCNDR19	"SCNDR18+4" PTR TO DIAGIACT MESSAGE ADDR
0	(0)	X'44 '	0	SCNDR21	"SCNDR19+4" PTR TO DIAGIRDV MESSAGE ADDR
0	(0)	X'48 '	0	SCNDR22	"SCNDR21+4" PTR TO DIAGNULI MESSAGE ADDR
0	(0)	X'4C '	0	SCNDR23	"SCNDR22+4" PTR TO DIAGCMT MESSAGE ADDR
0	(0)	X'50 '	0	SCNDR24	"SCNDR23+4" PTR TO DIAGGMER MESSAGE ADDR
0	(0)	X'54 '	0	SCNDR25	"SCNDR24+4" PTR TO DIAGDERR MESSAGE ADDR
0	(0)	X'58 '	0	SCNDR26	"SCNDR25+4" PTR TO DIAGABND MESSAGE ADDR
0	(0)	X'5C '	0	SCNDR27	"SCNDR26+4" PTR TO DIAGINTR MESSAGE ADDR
0	(0)	X'60 '	0	SCNDR28	"SCNDR27+4" PTR TO DIAGCBRD MESSAGE ADDR

Comment

IDS 31 - 38, 47 - 51 AND 60 - 61 RESERVED FOR \$MODCHK

End of Comment

0	(0)	X'64 '	0	SCNDR39	"SCNDR28+4" PTR TO DIAGINCM MESSAGE ADDR
0	(0)	X'68 '	0	SCNDR40	"SCNDR39+4" PTR TO DIAGMWTO MESSAGE ADDR
0	(0)	X'6C '	0	SCNDR41	"SCNDR40+4" PTR TO DIAGSPIN MESSAGE ADDR

\$HASPEQU Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
Comment						
ID 42 IS RESERVED FOR FUTURE USE.						
End of Comment						
0	(0)	X'70	'	0	SCNDR43	"SCNDR41+4" PTR TO DIAGMTTB MESSAGE ADDR
0	(0)	X'74	'	0	SCNDR44	"SCNDR43+4" PTR TO DIAGOBS MESSAGE ADDR
0	(0)	X'78	'	0	SCNDR45	"SCNDR44+4" PTR TO DIAGHOT MESSAGE ADDR
0	(0)	X'7C	'	0	SCNDR46	"SCNDR45+4" PTR TO DIAGWARN MESSAGE ADDR
0	(0)	X'80	'	0	SCNDR52	"SCNDR46+4" PTR TO DIAGNFL MESSAGE ADDR
0	(0)	X'84	'	0	SCNDR54	"SCNDR52+4" PTR TO DIAGINOD MESSAGE ADDR
0	(0)	X'88	'	0	SCNDR55	"SCNDR54+4" PTR TO DIAGACTE MESSAGE ADDR
0	(0)	X'8C	'	0	SCNDR56	"SCNDR55+4" PTR TO DIAGNFLC MESSAGE ADDR
0	(0)	X'90	'	0	SCNDR57	"SCNDR56+4" PTR TO DIAGTMO MESSAGE ADDR
0	(0)	X'94	'	0	SCNDR58	"SCNDR57+4" PTR TO DIAGGENE MESSAGE ADDR
0	(0)	X'98	'	0	SCNDR59	"SCNDR58+4" PTR TO DIAGIAER MESSAGE ADDR
Comment						
THIS SPACE IS RESERVED FOR REASON CODE 60 FOR \$MODCHK THIS SPACE IS RESERVED FOR REASON CODE 61 FOR \$MODCHK						
End of Comment						
0	(0)	X'9C	'	0	SCNDR62	"SCNDR59+4" PTR TO DIAGCONV MSG ADDR
0	(0)	X'A0	'	0	SCNDR63	"SCNDR62+4" PTR TO DIAGFCST MSG ADDR
0	(0)	X'A4	'	0	SCNDR64	"SCNDR63+4" PTR TO DIAGNOPM MSG ADDR
0	(0)	X'A8	'	0	SCNDR65	"SCNDR64+4" PTR TO DIAGUNSD MSG ADDR
0	(0)	X'AC	'	0	SCNDR66	"SCNDR65+4" PTR TO DIAGNXST MSG ADDR
0	(0)	X'B0	'	0	SCNDR67	"SCNDR66+4" PTR TO DIAGFUDF MSG ADDR
0	(0)	X'B4	'	0	SCNDR68	"SCNDR67+4" PTR TO DIAGSSEL MSG ADDR
0	(0)	X'B8	'	0	SCNDR69	"SCNDR68+4" PTR TO DIAGDUAL MSG ADDR
0	(0)	X'BC	'	0	SCNDR70	"SCNDR69+4" PTR TO DIAGVVAL MSG ADDR
0	(0)	X'C0	'	0	SCNDR71	"SCNDR70+4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4	'	0	SCNDR72	"SCNDR71+4" PTR TO DIAGRJER MSG ADDR
0	(0)	X'C8	'	0	SCNDR73	"SCNDR72+4" PTR TO DIAGLVL MSG ADDR
0	(0)	X'CC	'	0	SCNDR74	"SCNDR73+4" Ptr to DIAGCKPT msg addr
0	(0)	X'D0	'	0	SCNDR75	"SCNDR74+4" Ptr to DIAGPLX msg addr
0	(0)	X'D4	'	0	SCNDR76	"SCNDR75+4" PTR TO DIAGFLST MSG ADDR
0	(0)	X'D8	'	0	SCNDR77	"SCNDR76+4" PTR TO DIAGFLRQ MSG ADDR
0	(0)	X'DC	'	0	SCNDR78	"SCNDR77+4" PTR TO DIAGMULJ MSG ADDR
0	(0)	X'E0	'	0	SCNDR79	"SCNDR78+4" PTR TO DIAGPSCN MSG ADDR
0	(0)	X'E4	'	0	SCNDR80	"SCNDR79+4" PTR TO DIAGPSC2 MSG ADDR
0	(0)	X'E8	'	0	SCNDR81	"SCNDR80+4" PTR TO DIAGCAUT MSG ADDR
0	(0)	X'EC	'	0	SCNDR82	"SCNDR81+4" PTR TO DIAGFIKY MSG ADDR
0	(0)	X'F0	'	0	SCNDR83	"SCNDR82+4" PTR TO DIAGFIDL MSG ADDR
0	(0)	X'F4	'	0	SCNDR84	"SCNDR83+4" PTR TO DIAGBUSY MSG ADDR
0	(0)	X'F8	'	0	SCNDR85	"SCNDR84+4" PTR TO DIAGPROT MSG ADDR
0	(0)	X'FC	'	0	SCNDR86	"SCNDR85+4" PTR TO DIAGNOSP MSG ADDR
0	(0)	X'	'	0	SCNDR87	"SCNDR86+4" PTR TO DIAGGTLT MSG ADDR
0	(0)	X'4	'	0	SCNDR88	"SCNDR87+4" PTR TO DIAGRCRG MSG ADDR
0	(0)	X'8	'	0	SCNDR89	"SCNDR88+4" PTR TO DIAGNOCN MSG ADDR
0	(0)	X'C	'	0	SCNDR90	"SCNDR89+4" PTR TO DIAGSCH MSG ADDR HASP599 BLDMSG Parm list mapping
0	(0)	X'4'		0	\$599PIT	"0,4" PIT address
0	(0)	X'4 00004'		0	\$599SQD	"4,4" SQD Return Code
0	(0)	X'8 00004'		0	\$599XINI	"8,4" XINITST return code
0	(0)	X'C		0	\$599LEN	"12" Length of work area HASP446 BLDMSG Parm list mapping (keep in synch with \$CKEMIGR macro in HASPIRDA)
0	(0)	X'9 00001'		0	\$446MVER	"9,1" Checkpoint master version
0	(0)	X'A 00008'		0	\$446CVER	"10,8" Checkpoint cold start vsn.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JOE/Writer Exclude List mapping. Be sure to update HASMJWEL if this mapping changes.					
End of Comment					
0	(0)	X'4'	0	\$JWEPTR	"0,4,C'A" ADDRESS OF NEXT ELEMENT
0	(0)	X'4 00008'	0	\$JWENUM	"4,8,C'F" NUMBER OF WRITER EXCLUDED
0	(0)	X'C 00003'	0	\$JWEDVID	"12,3,C'C" DEVICE ID VALUE
0	(0)	X'F 00001'	0	\$JWEFLAG	"15,1,C'B" Flag byte
0	(0)	BITSTRING	0	\$JWELONG	"B'10000000" \$JWENUM 8 bytes (only first 4 bytes valid if \$JWELONG is off)
0	(0)	BITSTRING	0	\$JWEBULK	"B'01000000" JOE has been processed by current SAPI bulk modify request
0	(0)	X'10	0	\$JWELEN	"16" LEN OF JWEL TABLE ELEMENT

Comment

JWELTBL Anchor Equates
 Offset 0 (\$JWEPTR) is the address of the first JWEL for the corresponding JOE
 Offset 4 (\$JWECRTM) is the time stamp of the JOE creation. If this time stamp and the JOECRTME do not match, then it is known that the JWEL chain is obsolete.

EQU 0,4,C'A' ADDRESS OF THE FIRST ELEMENT

End of Comment					
0	(0)	X'1'	0	\$JWEFLG1	"0,1,C'B" Flag bit in JWELTBL
0	(0)	X'4 00004'	0	\$JWECRTM	"4,4,C'X" JOE creation time
0	(0)	X'8	0	\$JWETBLL	"8" Length of JWEL table anchor \$JWEFLG1 EQUATES
0	(0)	BITSTRING	0	\$JW1NCLR	"B'10000000" DO NOT CLEAR JWEL ELEMENTS

Comment

EQU B'01111111' Do not attempt to use other

End of Comment

Comment

HAMSVC OPERATION CODES

End of Comment					
0	(0)	X'6F	0	HAMSVC	"111" SVC 111 INTERFACE TO HASPAM
0	(0)	X'	0	HSVCEOBG	"0" END-OF-BLOCK ON A GET OPERATION
0	(0)	X'4	0	HSVCEOBP	"4" END-OF-BLOCK ON A PUT OPERATION
0	(0)	X'8	0	HSVCIRD	"8" INTERNAL READER PUT OPERATION
0	(0)	X'C	0	HSVCPNT	"12" POINT OPERATION PROCESSING
0	(0)	X'10	0	HSVCSRB	"16" UNWRITTEN BUFFER PROCESSING
0	(0)	X'14	0	HSVCENDR	"20" ENDREQ OPERATION PROCESSING
0	(0)	X'18	0	HSVCOUPL	"24" OUTPUT LIM EXCESSION PROCESSING
0	(0)	X'20	0	HSVCGUPD	"32" GET-UPDATE OPERATION PROCESSING
0	(0)	X'24	0	HSVCPUPD	"36" PUT-UPDATE OPERATION PROCESSING
0	(0)	X'28	0	HSVCXBM	"40" EXEC BATCH MONITOR PROCESSING
0	(0)	X'2C	0	HSVCGTCL	"44" TRACK-CELL DESPOOL PROCESSING

\$HASPEQU Map

Offsets

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

Constants used to process the performance data table in HASPTABS (used for the \$D PERFDATA command)					

End of Comment					
0	(0)	X'8'	0	PRFDNAME	"0,8,C'C'" Subscript type name
0	(0)	X'8 00001'	0	PRFDIND	"8,1,C'X'" Indicator for subscript
0	(0)	X'1 '	0	PRFDINTS	"1" INITSTAT subscript
0	(0)	X'2 '	0	PRFDQSUS	"2" QSUSE subscript
0	(0)	X'3 '	0	PRFDPCEs	"3" PCESTAT subscript
0	(0)	X'4 '	0	PRFDSAMP	"4" SAMPDATA subscript
0	(0)	X'5 '	0	PRFDCPUS	"5" CPUSTAT subscript
0	(0)	X'6 '	0	PRFDEVNT	"6" EVENTS subscript
0	(0)	X'C '	0	PRFDLEN	"12" Length of table entry

Comment

The following fields define the data area returned from XCFMSTAT. This data area is always 4096 in size. The first 2 words are the count of active 'NOT OUR MAS' members and the second is the number of active 'IN OUR MAS' members. For the 'NOT OUR MAS' members, an array of member names and reason they are not thought to be our MAS is provided.

End of Comment					
0	(0)	X' '	0	XCFMSIZE	"4096" Size of the data area
0	(0)	X'4'	0	XCFMTHEM	"0,4,C'F'" Number of active members in our group and not in our MAS
0	(0)	X'4 00004'	0	XCFMUS	"4,4,C'F'" Number of active members in our group and our MAS
0	(0)	X'8 00012'	0	XCFMLIST	"8,18,C'X'" First 'NOT US' member data
0	(0)	X'10'	0	XCFMMEMN	"0,16,C'C'" XCF member name
0	(0)	X'10 00001'	0	XCFMMEMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11 00001'	0	XCFMMEMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'4 '	0	XCFMRSJ2	"4" Not JES2
0	(0)	X'8 '	0	XCFMRSNM	"8" Incorrect member name
0	(0)	X'C '	0	XCFMRSCS	"12" Different cold start

Comment

The following fields define the data area passed to \$BLDMSG to build the HASP791 message.

End of Comment					
0	(0)	X'4'	0	M791NAME	"0,4" Member name
0	(0)	X'4 00008'	0	M791GRP	"4,8" XCF GROUP name
0	(0)	X'C 00008'	0	M791PLX	"12,8" XCF SYSPLEX name
0	(0)	X'14 00008'	0	M791PXID	"20,8" XCF SYSPLEX id
0	(0)	X'1C '	0	M791LEN	"28" Entry length

Offsets

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

The following fields define the data area passed to \$BLDMSG to build the HASP710 message.

End of Comment

0	(0)	X'5'	0	M710ENT	"0,5,C'X'" Table entry (1 per member)
0	(0)	X'4'	0	M710MEM	"0,4,C'C'" Member name
0	(0)	X'4 00001'	0	M710RSN	"4,1,C'X'" Reason code
0	(0)	X'1	0	M710UP	"1" Member is up level
0	(0)	X'2	0	M710DOWN	"2" Member is down level HASP MODULE DIRECTORY ENTRY
0	(0)	X'8'	0	MAPNAME	"0,8" MODULE NAME
0	(0)	X'8 00004'	0	MAPADDR	"8,4" MODULE ADDRESS
0	(0)	X'8 00004'	0	MAPMITA	"8,4" MIT ADDRESS
0	(0)	X'C 00004'	0	MAPBASE	"12,4" ALT MOD BASE FOR REP FACILITY
0	(0)	X'10	0	MAPENTL	"16" MODMAP ENTRY LENGTH
0	(0)	X'10 00008'	0	TMAPLMOD	"16,8" Load module name, in \$SCAN temporary MODMAP only
0	(0)	X'18 00004'	0	TMAPADDC	"24,4" Address check value for dup name/addr in temp MODMAP
0	(0)	X'1C	0	TMAPENTL	"28" Temporary MODMAP entry len TAPE LABEL EQUATES FOR OFFLOADS
0	(0)	BITSTRING	0	\$LABNL	"X'01'" NL - NON-LABELED
0	(0)	BITSTRING	0	\$LABSL	"X'02'" SL - STANDARD LABEL
0	(0)	BITSTRING	0	\$LABNSL	"X'04'" NSL - NON-STANDARD LABEL
0	(0)	BITSTRING	0	\$LABSUL	"X'0A'" SUL - STANDARD USER LABEL
0	(0)	BITSTRING	0	\$LABBLP	"X'10'" BLP - BYPASS LABEL PROCESS
0	(0)	BITSTRING	0	\$LABAL	"X'40'" AL - AMERICAN NATIONAL STD
0	(0)	BITSTRING	0	\$LABAUL	"X'48'" AUL - AMERICAN NATIONAL STD USER LABEL MISCELLANEOUS DYNALLOC EQUATES
0	(0)	BITSTRING	0	\$DYNLOC	"X'1708'" LOCATE FAILURE REASON CODE
0	(0)	BITSTRING	0	\$DYNNEW	"X'04'" DISP=NEW TEXT VALUE Miscellaneous WLM Equates
0	(0)	X'4C	0	\$HOURPLUS	"61*60" One hour plus (61 minutes)

Comment

WAIT ELEMENT MAPPING

End of Comment

0	(0)	X'4'	0	WTCHAIN	"0,4" CHAIN FIELD (HDR IS IN CCTIRWT)
0	(0)	X'4 00004'	0	WTUNECB	"4,4" ECB FOR UNALLOCATE TO POST
0	(0)	X'8 00004'	0	WTXMECB	"8,4" ECB POINTER FOR XMPOST
0	(0)	X'C 00004'	0	WTASCBPT	"12,4" ASCB POINTER FOR XMPOST
0	(0)	X'10 00004'	0	WTERRET	"16,4" ERRET POINTER FOR XMPOST
0	(0)	X'14 00004'	0	WTECBL1	"20,4" ECBLIST1 - POINTER TO CANCEL ECB
0	(0)	X'18 00004'	0	WTECBL2	"24,4" ECBLIST2 - POINTER TO ABOVE ECB

Comment

\$GETWORK table element mapping

End of Comment

0	(0)	X'2'	0	GTWKTSIZ	"0,2" Size of work area
0	(0)	X'2 00001'	0	GTWKTPID	"2,1" Pool id
0	(0)	X'3 00001'	0	GTWKFLG	"3,1" Storage location flag
0	(0)	X'20	0	GTWKANY	"\$GTWKLOC" Pool LOC=ANY
0	(0)	X'10	0	GTWKRO	"\$GTWKRO" Pool is read only
0	(0)	X'30	0	GTWKDIS	"GTWKANY+GTWKRO" Pool discriminates
0	(0)	X'4 00004'	0	GTWKTNXT	"4,4" Address of next available work area
0	(0)	X'8 00004'	0	GTWKTCEL	"8,4" Number of cells obtained
0	(0)	X'C 00004'	0	GTWKTUSE	"12,4" Number of cells in use

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'10	0	GTWKTESZ	"16" Size of table entry
Comment					
INLINE PARMLIST EQUATES GENERALIZED INLINE PARAMETER LIST EQUAS					
End of Comment					
0	(0)	X'1	0	\$ILPSIZE	"0,1" OFFSET TO SIZE OF INLINE PARAMETER LIST (1 BYTE)
0	(0)	X'1 00001'	0	\$ILPFLG1	"1,1" OFFSET TO GENERAL FLAG BYTE 1
0	(0)	X'2 00001'	0	\$ILPFLG2	"2,1" OFFSET TO GENERAL FLAG BYTE 2
0	(0)	X'3 00001'	0	\$ILPFLG3	"3,1" OFFSET TO GENERAL FLAG BYTE 3
Comment					
SPECIFIC INLINE PARMLIST EQUATES \$#GET MACRO OPTION FLAGS					
End of Comment					
0	(0)	BITSTRING	0	\$GTHAVNO	"B'10000000" NO JOE RETURNED
0	(0)	BITSTRING	0	\$GTCHNNO	"B'01000000" NO CHAINING REQUIRED
0	(0)	BITSTRING	0	\$GTIOTYS	"B'00100000" RETURN THE IOT TO CALLER
0	(0)	BITSTRING	0	\$GTNET	"B'00010000" NETWORK QUEUE
0	(0)	BITSTRING	0	\$GTWRKSL	"B'00001000" USE WORK SELECTION
0	(0)	BITSTRING	0	\$GTWSP	"B'00000100" WSP in R1, not DCT
0	(0)	BITSTRING	0	\$GTNOSAF	"B'00000010" No SAF call
0	(0)	BITSTRING	0	\$GTCOUNT	"B'00000001" Count lines/pages/bytes
0	(0)	X'2	0	\$GTPARML	"2" \$#GET Parameter list length \$#POST MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$PSTMASP	"B'10000000" RESET JOE'S JOTPOST FLAG
0	(0)	X'	0	\$PSTJOE	"0" TYPE=JOE \$#POST CALL
0	(0)	X'4	0	\$PSTJQE	"4" TYPE=JQE \$#POST CALL
0	(0)	X'8	0	\$PSTXMIT	"8" TYPE=XMIT \$#POST CALL
0	(0)	X'C	0	\$PSTMSG	"12" TYPE=MSG \$#POST CALL \$#REM MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$REMPURG	"B'10000000" PURGE THE SPIN IOT TRACKS
Comment					
REMWAIT EQU B'01000000' Not available for use due to coexistence with SP510					
End of Comment					
0	(0)	BITSTRING	0	\$REMLOCK	"B'00100000" Caller has job lock
0	(0)	BITSTRING	0	\$REMKPJQ	"B'00010000" JQE must not be purged even if last JOE is being REMed \$BLDTGB MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$BTGBMTR	"B'10000000" ID=MTTR WAS SPECIFIED
0	(0)	BITSTRING	0	\$BTGBTGM	"B'01000000" ID=TGM WAS SPECIFIED \$SJOBIT MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$SJITEMP	"B'10000000" TEMPORARY SJOB REQUESTED
0	(0)	BITSTRING	0	\$SJIFREE	"B'01000000" FREE SJOB REQUESTED
0	(0)	BITSTRING	0	\$SJINSJB	"B'00100000" NO SJB REQUIRED
0	(0)	BITSTRING	0	\$SJIINIT	"B'00010000" INIT SJOB REQUESTED
0	(0)	BITSTRING	0	\$SJIGNYC	"B'00001000" UNCONDITIONAL GET SJOB \$QJIX MACRO ACTION FLAGSS
0	(0)	BITSTRING	0	\$JIXGET	"B'10000000" FLAG FOR ALLOCATE JOB#
0	(0)	BITSTRING	0	\$JIXFREE	"B'01000000" FLAG FOR DEALLOCATE JOB#
0	(0)	BITSTRING	0	\$JIXSWAP	"B'00100000" FLAG FOR SWAP JOB NUMBER
0	(0)	BITSTRING	0	\$JIXFOMT	"B'00010000" FLAG FOR INITIALIZE JIX
0	(0)	BITSTRING	0	\$JIXVERI	"B'00001000" FLAG FOR VERIFY JIX
0	(0)	BITSTRING	0	\$JIXWYES	"B'00000001" \$WAIT IS REQUESTED FOR NEW JOB#
0	(0)	BITSTRING	0	\$JIXWNO	"B'00000000" NO \$WAIT REQUESTED FOR NEW JOB# \$CHECK MACRO OPTION FLAGS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	\$CHECINH	"B'10000000" INHIBIT=YES WAS SPECIFIED
0	(0)	BITSTRING	0	\$CHECNWA	"B'01000000" WAIT=NO was specified \$CKPALOC MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$CKAOLD	"B'10000000" OLD=YES WAS SPECIFIED
0	(0)	BITSTRING	0	\$CKANEW	"B'01000000" NEW=YES WAS SPECIFIED
0	(0)	BITSTRING	0	\$CKADEF	"B'00100000" NEW=DEFER was specified \$CKPT MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$CKPPOST	"B'10000000" \$POST CKPT
0	(0)	BITSTRING	0	\$CKPUNK	"B'01000000" Unknown ID \$DCBDYN MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$BDYNATT	"B'10000000" DCB ATTACH REQUEST
0	(0)	BITSTRING	0	\$BDYNDET	"B'01000000" DCB DETACH REQUEST \$DCTDYN MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$DDYNATT	"B'10000000" DCT ATTACH REQUEST
0	(0)	BITSTRING	0	\$DDYNFND	"B'01000000" DCT FIND REQUEST \$DTEDYN MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$DTEPARM	"B'10000000" PARM PARMETER SPECIFIED
0	(0)	BITSTRING	0	\$DTEPECB	"B'01000000" ECB TYPE WAIT SPECIFIED
0	(0)	BITSTRING	0	\$DTEPXCB	"B'00100000" XECB TYPE WAIT SPECIFIED \$EXCP MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$EXCPVR	"B'10000000" I/O VIA EXCPVR INDICATOR
0	(0)	BITSTRING	0	\$EXCPWT	"B'01000000" \$WAIT FOR I/O TO COMPLETE
0	(0)	BITSTRING	0	\$EXCPMT	"B'00100000" Validate MTRR \$FRECB MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$FCMBCNT	"B'10000000" BUMP CMB COUNT \$FREEBUF MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$FBUFMLT	"B'10000000" FREE MULTIPLE BUFFERS \$GETBUF MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$GBUFWT	"B'10000000" INDICATE \$WAIT ALLOWED \$GETSMFB MACRO OPTIONS FLAGS
0	(0)	BITSTRING	0	\$GSMFBWT	"B'10000000" INDICATE \$WAIT ALLOWED
0	(0)	BITSTRING	0	\$GSMFBLG	"B'01000000" INDICATE LARGE SMF BUFFER SPECIFIED \$GETWORK MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$GTWKCDN	"B'10000000" ERRET=, CONDITIONAL ENTRY
0	(0)	BITSTRING	0	\$GTWKWAT	"B'01000000" WAIT=YES, \$WAIT FOR MAIN

Comment

 Ensure that characterizing bits (ones that differentiate otherwise equal pools in the getwork table) are defined in the same way here as they in the GETPOOL equates in the \$GETWORK routine.

End of Comment

0	(0)	BITSTRING	0	\$GTWKLOC	"B'00100000" LOC=ANY was specified
0	(0)	BITSTRING	0	\$GTWKRO	"B'00010000" Pool is read only

Comment

 End of pool discriminates

- \$MODCHK MACRO OPTION AND TEST FLAGS

End of Comment

0	(0)	BITSTRING	0	\$MCMMSG	"B'10000000" MESSAGE=YES SPECIFIED
0	(0)	X'2	0	\$MCBYTES	"2" NUMBER OF BYTES FOR TEST FLAGS \$MCBYTES*8 MUST BE LARGER THAN OR EQUAL TO \$MCNTTEST
0	(0)	X'8	0	\$MCNTTEST	"8" NUMBER OF TESTS NOW DEFINED
		....		\$MCRMD24	"B'1000000000000000" MODULE RESIDES BELOW 16MEG LINE
		....		\$MCCOMMN	"B'0100000000000000" MODULE IN COMMON STORAGE

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ....		\$MCMIT	"B'0010000000000000" MODULE LARGE ENOUGH FOR MIT, MIT ID VALID, MITETBL IN MODULE
		.... ....		\$MCVERS	"B'0001000000000000" HCT VERSION = VERSION IN MIT
		.... ....		\$MCNAME	"B'0000100000000000" MODULE NAME = NAME IN MIT
		.... ....		\$MCPROPX	"B'0000010000000000" PROPAGATE EXIT POINTS TO XIT
		.... ....		\$MCERSLVX	"B'0000001000000000" RESOLVE EXIT RTN ADDRS TO XRT
		.... ....		\$MCTABL	"B'0000000100000000" PROCESS DYNAMIC TABLES - \$MODLOAD MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$MLMSGY	"B'10000000" ISSUE DIAGNOSTIC MESSAGE
0	(0)	BITSTRING	0	\$MLJ2MOD	"B'01000000" LOAD A JES2 LOAD MODULE
0	(0)	BITSTRING	0	\$MLDIRL	"B'00100000" DIRECTED LOAD REQUEST
0	(0)	BITSTRING	0	\$MLDLPA	"B'00010000" SEARCH FOR LPA MODULE
0	(0)	BITSTRING	0	\$MLMSGI	"B'00001000" Issue diagnostic message if the module is found but has other errors \$PBLOCK MACRO OPTIONS FLAGS
0	(0)	BITSTRING	0	\$PBLKSLT	"B'10000000" SLANT WAS SPECIFIED
0	(0)	BITSTRING	0	\$PBLKCTR	"B'01000000" CENTER WAS SPECIFIED \$PCEDYN MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$PDYNAT	"B'10000000" PCE ATTACH REQUEST
0	(0)	BITSTRING	0	\$PDYNDT	"B'01000000" PCE DETACH REQUEST
0	(0)	BITSTRING	0	\$PDYNDTT	"B'00100000" PCE DETACH TEST REQUEST
0	(0)	BITSTRING	0	\$PDYNALT	"B'00010000" Alter PCEs defined
0	(0)	BITSTRING	0	\$PDYNPCE	"B'00001000" R1 INPUT IS A PCE ADDR
0	(0)	BITSTRING	0	\$PDYNTAB	"B'00000100" R1 INPUT IS A PTAB ADDR
0	(0)	BITSTRING	0	\$PDYNDCT	"B'00000010" R1 INPUT IS A DCT ADDR PSOFRELK Service routine EQUs COMFRELK Service routine EQUs
0	(0)	X' '	0	LEAVE_JOES_BUSY	"0" Don't unbusy any JOEs
0	(0)	X'1 '	0	UNBUSY_JOES	"1" Unbusy JOEs
0	(0)	X'2 '	0	DONOT_UNLOCK_QJE	"2" Unbusy JOEs, but do not free QJE lock (valid only for PSOFRELK) \$PGSRVC MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$PGSRVRL	"B'10000000" RELEASE SPECIFIED
0	(0)	BITSTRING	0	\$PGSFIX	"B'01000000" FIX SPECIFIED
0	(0)	BITSTRING	0	\$PGSFREE	"B'00100000" FREE SPECIFIED
0	(0)	BITSTRING	0	\$PGSRPSL	"B'00010000" PSL (PAGE SERV LIST) PASSED
0	(0)	BITSTRING	0	\$PGSPRO	"B'00001000" PROTECT specified
0	(0)	BITSTRING	0	\$PGSUPRO	"B'00000100" UNPROTECT specified \$QGET MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$QGTLSTC	"B'10000000" \$OJTWSC SPECIFIED ON \$QGET ... RUN \$XEQ AND CLASS LIST QUEUES
0	(0)	BITSTRING	0	\$QGTLST	"B'01000000" \$OJTWS SPECIFIED ON \$QGET RUN CLASS LIST QUEUES
0	(0)	BITSTRING	0	\$QGTINWS	"B'00100000" \$INWS SPECIFIED ON \$QGET RUN CLASS LIST QUEUES
0	(0)	BITSTRING	0	\$QGTWLMQ	"B'00010000" \$INWLM SPECIFIED ON \$QGET RUN WLM QUEUES
0	(0)	X'68 '	0	\$QWALEN	"360" Length of the \$QGET wrkarea \$QMOD MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$LVALONE	"B'10000000" Don't reset job busy bits
0	(0)	BITSTRING	0	\$QSNPCHG	"B'01000000" Disallow phase change
0	(0)	BITSTRING	0	\$NPRICHG	"B'00100000" Do not change priority
0	(0)	BITSTRING	0	\$QMDKEEP	"B'00010000" Keep artificial QJE RACROUTE REASON CODES
0	(0)	BITSTRING	0	RACDSECL	"X'24" SECLABEL NOT ACCESSIBLE \$RESERVE MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$RESVWT	"B'10000000" \$WAIT FOR RESERVE TO COMPLETE \$ROLL macro parameter list
0	(0)	X'1 00001'	0	\$ROLLSRV	"1,1" Trace caller Service ID
0	(0)	X'2 00002'	0	\$ROLLOFF	"2,2" HCT offset of Trace Tbl addr
0	(0)	X'4 '	0	\$ROLLLEN	"4" Length of parameter list
		.... ....		\$ROLJQEI	"X'200" CTRACE format ID for QJEs
		.... ....		\$ROLJOEI	"X'300" CTRACE format ID for JOEs
		.... ....		\$ROLDSPI	"X'400" CTRACE format ID for DISPs \$SCAND PARAMETER LIST FLAG BITS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	\$\$SCNDDBK	"B'10000000" BREAK OPTION REQUESTED
0	(0)	BITSTRING	0	\$\$SCNDDBL	"B'01000000" DEBLANKING OPTION REQUESTED
0	(0)	BITSTRING	0	\$\$SCNDDMK	"B'00100000" MARK TEXT FOR BACKOUT
0	(0)	BITSTRING	0	\$\$SCNDDCR	"B'00010000" CRLF was requested
0	(0)	BITSTRING	0	\$\$SCNDNBN	"B'00001000" Disallow break on next display at this level
0	(0)	BITSTRING	0	\$\$SCNDNUM	"B'00000100" CONV=NUM was specified
0	(0)	BITSTRING	0	\$\$SCNDHEX	"B'00000010" CONV=HEX was specified \$\$SDUMP MACRO
OPTION FLAGS					
0	(0)	BITSTRING	0	\$\$SDHOME	"B'10000000" DUMP HOME ADDRESS SPACE
0	(0)	BITSTRING	0	\$\$SDAPPND	"B'01000000" APPEND PASSED TITLE TO DEFAULT
0	(0)	BITSTRING	0	\$\$SDDEFT	"B'00100000" GENERATE ONLY DEFAULT TITLE
0	(0)	BITSTRING	0	\$\$SDRETRN	"B'00010000" IF SDUMP FAILS, JUST RETURN
0	(0)	BITSTRING	0	\$\$SDWAIT	"B'00001000" IF SDUMP FAILS, WTOR, MVS WAIT
0	(0)	BITSTRING	0	\$\$SDXSYS	"B'00000100" Dump other MAS members \$SEAS MACRO
FUNCODE VALUES SEATABL (HASPNUC) ENTRIES					
0	(0)	X'1	0	\$\$SEANJES	"0" NOT VALID FOR CODER=JES2
0	(0)	X'1	0	\$\$SEAINIT	"\$SEANJES+1" INITIALIZE SECURITY ENVIRON
0	(0)	X'2	0	\$\$SEAVERC	"\$SEAINIT+1" SECURITY ENVIRON CREATE
0	(0)	X'3	0	\$\$SEAVERD	"\$SEAVERC+1" SECURITY ENVIRON DELETE
0	(0)	X'4	0	\$\$SEAXTRT	"\$SEAVERD+1" ENVIRON EXTRACT
0	(0)	X'5	0	\$\$SEASIC	"\$SEAXTRT+1" SYSIN DATA SET CREATE
0	(0)	X'6	0	\$\$SEASOC	"\$SEASIC+1" SYSOUT DATA SET CREATE
0	(0)	X'7	0	\$\$SEASIP	"\$SEASOC+1" SYSIN DATA SET OPEN
0	(0)	X'8	0	\$\$SEASOP	"\$SEASIP+1" SYSOUT DATA SET OPEN
0	(0)	X'9	0	\$\$SEAPSO	"\$SEASOP+1" PSO DATA SET OPEN
0	(0)	X'A	0	\$\$SEAPSS	"\$SEAPSO+1" PSO DATA SET SELECT
0	(0)	X'B	0	\$\$SEATCAN	"\$SEAPSS+1" TSO CANCEL
0	(0)	X'C	0	\$\$SEACMD	"\$SEATCAN+1" COMMAND AUTHORIZATION
0	(0)	X'D	0	\$\$SEAPRT	"\$SEACMD+1" PRINTER DATA SET SELECT
0	(0)	X'E	0	\$\$SEADEL	"\$SEAPRT+1" DATA SET PURGE
0	(0)	X'F	0	\$\$SEANUSE	"\$SEADEL+1" NOTIFY USER TOKEN EXTRACT
0	(0)	X'10	0	\$\$SEATBLD	"\$SEANUSE+1" TOKEN BUILD
0	(0)	X'11	0	\$\$SEARJES	"\$SEATBLD+1" RJE SIGNON
0	(0)	X'12	0	\$\$SEADEVA	"\$SEARJES+1" DEVICE AUTHORIZATION
0	(0)	X'13	0	\$\$SEANJEA	"\$SEADEVA+1" NJE SYSOUT DS AUTHORIZATION
0	(0)	X'14	0	\$\$SEAREXT	"\$SEANJEA+1" REVERIFY TOKEN EXTRACT
0	(0)	X'15	0	\$\$SEARRT	"\$SEAREXT+1" RESERVED
0	(0)	X'16	0	\$\$SEANEWS	"\$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17	0	\$\$SEANWBL	"\$SEANEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18	0	\$\$SEAVERS	"\$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19	0	\$\$SEAAUD	"\$SEAVERS+1" Audit for job in error
0	(0)	X'1A	0	\$\$SEADCHK	"\$SEAAUD+1" \$DESTCHK AUTH call
0	(0)	X'1B	0	\$\$SEATSOC	"\$SEADCHK+1" TRACE SYSOUT DS CREATE
0	(0)	X'1C	0	\$\$SEASSOC	"\$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D	0	\$\$SEANSOC	"\$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E	0	\$\$SEASOX	"\$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F	0	\$\$SEANJEV	"\$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20	0	\$\$SEAJOX	"\$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21	0	\$\$SEASPBC	"\$SEAJOX+1" RESERVED
0	(0)	X'22	0	\$\$SEASPBO	"\$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23	0	\$\$SEASFS	"\$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24	0	\$\$SEASSWM	"\$SEASFS+1" SWM Modify ALTER AUTH
0	(0)	X'25	0	\$\$SEASAPI	"\$SEASSWM+1" Sysout API

Comment

If you add a new FUNCODE here then be sure to update the following line accordingly.
(and also update the SEATBL in HASPNUC)

End of Comment

0	(0)	X'25	0	\$\$SEAUSED	"\$SEASAPI" Highest FUNCODE used
0	(0)	X'FF	0	\$\$SEAMAX	"255" MAXIMUM SEAS FUNCODE \$SEAS RETURN CODE VALUES

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'1	0	\$SEAK	"0" \$SEAS RC=0
0	(0)	X'4	0	\$SEAND	"4" \$SEAS RC=4
0	(0)	X'8	0	\$SEAFAIL	"8" \$SEAS RC=8
0	(0)	X'C	0	\$SEANSTO	"12" \$SEAS RC=12 \$STMTLOG MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$STMT	"B'10000000" STATEMENT SHOULD BE LOGGED
0	(0)	BITSTRING	0	\$STMTCOM	"B'01000000" DIAGNOSTIC IS A COMMENT
0	(0)	BITSTRING	0	\$STMTWAR	"B'00100000" DIAGNOSTIC IS A WARNING
0	(0)	BITSTRING	0	\$STMTERR	"B'00010000" DIAGNOSTIC IS AN ERROR MESSAGE \$TGMSET PARAMETER EQUATES
0	(0)	BITSTRING	0	\$TGCNTYS	"B'10000000" COUNT=YES, UPDATE DAS COUNTS
0	(0)	BITSTRING	0	\$TGTTST	"B'00100000" TYPE=TEST, TEST THE BIT ONLY
0	(0)	BITSTRING	0	\$TGTPSET	"B'00010000" TYPE=SET, SET THE BIT ONLY
0	(0)	X'30	0	\$TGTTSET	"\$TGTTST+\$TGTPSET" TYPE=TESTSET, TEST AND SET BIT
0	(0)	BITSTRING	0	\$TGQSYES	"B'00001000" QSUSE=YES, GET THE QSUSE
0	(0)	BITSTRING	0	\$TGSETON	"B'00000100" SET=ON TURN BIT ON IN MAP \$TTIMER MACRO OPTION FLAGS
0	(0)	BITSTRING	0	\$TIMETST	"B'10000000" TEST TIME INTERVAL \$WSSCAN DEVICE TYPE INDICATOR
0	(0)	BITSTRING	0	\$WSFRJE	"B'10000000" WS PROCESSING FOR REMOTE
0	(0)	BITSTRING	0	\$WSJSREC	"B'01000000" WS PROCESSING FOR RECEIVERS HIGH ORDER BIT ON
0	(0)	BITSTRING	0	\$EQUHBIT	"B'10000000" TURN ON HIGH ORDER BIT AUDSAF LOGST indicator
0	(0)	X'4	0	\$AUDIO	"4" I/O error during purge
0	(0)	X'8	0	\$AUDLOST	"8" Lost output during restart
0	(0)	X'C	0	\$AUDDEL	"12" Job deleted during restart
0	(0)	X'10	0	\$AUDMOVE	"16" Job lost during spool move
0	(0)	X'14	0	\$AUDINER	"20" Job had error in input
0	(0)	X'18	0	\$AUDSUB	"24" Subtask error during purge

Comment

Reason Code Equates for Main Task \$ERROR calls

End of Comment

0	(0)	X'4	0	\$L01R004	"4" Message too long for command area.
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Comment

Reason code equates for \$ERROR (0F7 ABENDs) in the user environment

End of Comment

0	(0)	X'60	0	\$ERRC096	"96" SJF SCANSWB FAILED IN ALLOC
0	(0)	X'64	0	\$ERRC100	"100" INVALID GROUPING STRINGS OBJECT
0	(0)	X'68	0	\$ERRC104	"104" SWBTUREQ RETRIEVE SERVICE FAILED IN \$GASSIGN SERVICE
0	(0)	X'6C	0	\$ERRC108	"108" INVALID STORAGE BLOCK POINTER IN GROUPING STRINGS OBJECT
0	(0)	X'70	0	\$ERRC112	"112" SJF KEYLIST SERVICE FAILED IN GROUPING KEYS SERVICE
0	(0)	X'74	0	\$ERRC116	"116" UNEXPECTED NUMBER OF SWBIT BUFFERS PASSED TO GRPASGN ROUTINE
0	(0)	X'78	0	\$ERRC120	"120" ENTERED \$SSIEND WITH \$ESTAEs OUTSTANDING
0	(0)	X'80	0	\$ERRC128	"128" NOT ALL PROTECTED BUFFERS HAVE BEEN \$FREEBUFed
0	(0)	X'84	0	\$ERRC132	"132" ATTEMPTED TO FREE A TRE IN THE \$GETHP SERVICE
0	(0)	X'88	0	\$ERRC136	"136" LOOP IN THE CPOOL CHAIN IN THE \$CRETSAV SERVICE
0	(0)	X'8C	0	\$ERRC140	"140" TRIED TO INITIALIZE TRE WHEN CELL IS NOT A TRE IN GETTRE

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	X'90	'	0	\$ERRC144	"144" ERROR RETURN FROM MVS ENQ DURING TRACE PROCESSING
0	(0)	X'94	'	0	\$ERRC148	"148" SVC111 TRUNCATE UNPROTECTED BUFFER FAILED IN HFCLTRNC
0	(0)	X'98	'	0	\$ERRC152	"152" ERROR DETECTED BY HASCRQUE
0	(0)	X'9C	'	0	\$ERRC156	"156" INCORRECT \$\$POST RESOURCE
0	(0)	X'A0	'	0	\$ERRC160	"160" Temporary PBUF pointers are inconsistent
0	(0)	X'A4	'	0	\$ERRC164	"164" An attempt was made to ENQ on the SVJ lock, but an unexpected RC was received
0	(0)	X'A8	'	0	\$ERRC168	"168" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'AC	'	0	\$ERRC172	"172" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'B0	'	0	\$ERRC176	"176" The SJB is not on the queue pointed to by SJBQUEUE.
0	(0)	X'B4	'	0	\$ERRC180	"180" The SJB is not on the queue
0	(0)	X'B8	'	0	\$ERRC184	"184" Channel end appendage requested re-drive after an unrecoverable error
0	(0)	X'BC	'	0	\$ERRC188	"188" An error was found during SJB rebuild processing.
0	(0)	X'C0	'	0	\$ERRC192	"192" A caller of \$\$SBRQ did not hold the SVJ lock.
0	(0)	X'C4	'	0	\$ERRC196	"196" An invalid SAPID pointer was passed in the SSS2 SSOB extension
0	(0)	X'C8	'	0	\$ERRC200	"200" Fields that should be zeros in the SSS2 SSOB extension are not
0	(0)	X'CC	'	0	\$ERRC204	"204" SJF Request error on GETDS/SAPI request
0	(0)	X'D4	'	0	\$ERRC212	"212" \$CPOOL ACTION=GET failed to get specified cell
0	(0)	X'D8	'	0	\$ERRC216	"216" \$CPOOL ACTION=FREE failed to free specified cell
0	(0)	X'DC	'	0	\$ERRC220	"220" \$PSO not valid

Comment

Reason Codes for \$CF1 Abends detected by assembler code. Note that the reason codes detected by PLX code are defined in \$HASPEQP.

End of Comment

0	(0)	X'4	'	0	\$CF1R004	"4" Could not read track 1
0	(0)	X'8	'	0	\$CF1R008	"8" Could not format ckpt
0	(0)	X'C	'	0	\$CF1R012	"12" Could not release lock

Comment

Reason codes 16-32 are defined in \$HASPEQP

End of Comment

0	(0)	X'24	'	0	\$CF1R036	"36" Could not write track 1
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Comment

Reason Code Equates for CONVCON check of out-of-line area

End of Comment

0	(0)	X'	'	0	\$AIDOK	"0" Area ID is okay
0	(0)	X'4	'	0	\$AIDUSED	"4" Area ID defined but used
0	(0)	X'8	'	0	\$AIDUTRK	"8" Area ID in use by track cmd
0	(0)	X'C	'	0	\$AIDNDEF	"12" Area ID not defined
0	(0)	X'10	'	0	\$AIDNVAL	"16" Invalid area ID syntax

Comment

JOB TRANSMITTER MISCELLANEOUS EQUATES

End of Comment

0	(0)	BITSTRING		0	SRCBJH	"X'C0" JOB HEADER SRCB
0	(0)	BITSTRING		0	SRCBDSh	"X'E0" DATA SET HEADER SRCB

\$HASPEQU Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	SRCBJT	"X'D0" JOB TRAILER SRCB
Comment					
MISCELLANEOUS EQUATES					
End of Comment					
0	(0)	BITSTRING	0	SRCBFLAG	"B'10000000" FLAG BIT ALWAYS ON IN SRCB'S
0	(0)	BITSTRING	0	SRCBCCTL	"B'00110000" CARRIAGE CONTROL FLAGS
0	(0)	BITSTRING	0	SRCBPAGE	"B'00110000" PAGE CARRIAGR CONTROL FLAG
0	(0)	BITSTRING	0	SRCBANSI	"B'00100000" ANSI CARRIAGE CONTROL
0	(0)	BITSTRING	0	SRCBMCH	"B'00010000" MACHINE CARRIAGE CONTROL
0	(0)	X'A0	0	REGANSI	"SRCBFLAG+SRCBANSI" ANSI CARRIAGE CONTROL SRCB
0	(0)	BITSTRING	0	SRCBSPAN	"B'00001100" SPANNED RECORD
0	(0)	BITSTRING	0	SRCB1ST	"B'00001000" SPANNED FIRST SEGMENT
0	(0)	BITSTRING	0	SRCBMID	"B'00000100" SPANNED MIDDLE SEGMENT
0	(0)	BITSTRING	0	SRCBLAST	"B'00001100" SPANNED LAST SEGMENT
0	(0)	X'88	0	SPAN1ST	"SRCBFLAG+SRCB1ST" SPANNED FIRST SEGMENT SRCB
0	(0)	X'84	0	SPANMID	"SRCBFLAG+SRCBMID" SPANNED MIDDLE SEGMENT SRCB
0	(0)	X'8C	0	SPANLAST	"SRCBFLAG+SRCBLAST" SPANNED LAST SEGMENT SRCB
0	(0)	BITSTRING	0	ENQHAVIT	"X'08" ENQ RETURN CODE - ENQ HELD
Comment					
Equates for the system affinity token					
End of Comment					
0	(0)	X'1	0	\$AFTMASK	"0,1" One byte portion of entire system affinity mask
0	(0)	X'1 00002'	0	\$AFTOFF	"1,2" Offset within complete mask of the one byte portion
0	(0)	X'3	0	\$AFTOKEN	"L'\$AFTMASK+L'\$AFTOFF" Length of a sysaff token
Comment					
Equates for IXLCONN error processing					
These equates are referenced in CFALOC (where they are set when the error conditions are detected) and in PRE536 (to convert the bit setting into more meaningful text).					
End of Comment					
		....		\$CONER01	"B'10000000000000000000000000000000"
		....		\$CONER02	"B'01000000000000000000000000000000"
		....		\$CONER03	"B'00100000000000000000000000000000"
		....		\$CONER04	"B'00010000000000000000000000000000"
		....		\$CONER05	"B'00001000000000000000000000000000"
		....		\$CONER06	"B'00000100000000000000000000000000"
		....		\$CONER07	"B'00000010000000000000000000000000"
		....		\$CONER08	"B'00000001000000000000000000000000"
		....		\$CONER09	"B'00000000100000000000000000000000"
		....		\$CONER10	"B'00000000010000000000000000000000"
		....		\$CONER11	"B'00000000001000000000000000000000"
		....		\$CONER12	"B'00000000000100000000000000000000"
		....		\$CONER13	"B'00000000000010000000000000000000"
Comment					
Equates for PLX Dynamic area CPOOLS					
End of Comment					
0	(0)	X'14	0	\$PLXPCEL	"20" Primary cell count
0	(0)	X'14	0	\$PLXSCEL	"20" Secondary cell count

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>JECL validity Equates. Each JECL verb (e.g. OUTPUT, JOBPARM, ROUTE) and a subset of the operands for some of the verbs will have equates here. The value of each equate will be 0-255. These equates will be used to index into a \$JECMAX byte vector. The values at the point in the vector will be used to determine if the verb (or operand) is valid in its context. The name of each equate will be in the form: \$JECvvo where vv is the verb (see examples below) and oo is the operand for that verb Make sure that \$JECMAX is always at least one greater than the highest index defined.</p>					
End of Comment					
0	(0)	X' '	0	\$JECDE	"0" DEL
0	(0)	X'1 '	0	\$JECEO	"1" EOF
0	(0)	X'2 '	0	\$JECPU	"2" PURGE
0	(0)	X'3 '	0	\$JECJP	"3" JOBPARM
0	(0)	X'4 '	0	\$JECMS	"4" MESSAGE
0	(0)	X'5 '	0	\$JECNA	"5" NETACCT
0	(0)	X'6 '	0	\$JECNO	"6" NOTIFY
0	(0)	X'7 '	0	\$JECOU	"7" OUTPUT
0	(0)	X'8 '	0	\$JECPR	"8" PRIORITY
0	(0)	X'9 '	0	\$JECRO	"9" ROUTE
0	(0)	X'A '	0	\$JECSC	"10" SCAN
0	(0)	X'B '	0	\$JECSE	"11" SETUP
0	(0)	X'C '	0	\$JECXQ	"12" XEQ
0	(0)	X'D '	0	\$JECXM	"13" XMIT
0	(0)	X'E '	0	\$JECNV	"14" Invalid JECL Statement
0	(0)	X'F '	0	\$JECOC	"15" \$ (operator command)
Comment					
<p>----- JOBPARM operands -----</p>					
End of Comment					
0	(0)	X'1E '	0	\$JECJPSA	"30" SYSAFF
0	(0)	X'1F '	0	\$JECJPRE	"31" RESTART
Comment					
<p>----- ROUTE operands -----</p>					
End of Comment					
0	(0)	X'C '	0	\$JECROXQ	"\$JECXQ" ROUTE XEQ equiv to XEQ
Comment					
<p>----- Update \$JECMAX if the maximum index value changes. \$JECMAX is one greater than the maximum index. -----</p>					
End of Comment					

\$HASPEQU Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'20	0	\$JECMAX	"32" Maximum index value

Comment

Use the following equates in the vector elements to indicate whether a particular verb or operand is allowed (i.e. is "OK").

End of Comment

0	(0)	X'1	0	\$JECOK	"0" Verb or Operand is OK
0	(0)	X'4	0	\$JECNOK	"4" Verb or Operand is not OK

Comment

The following equates define offsets into the header area of the parameter list for the IPADDR processing routine HASJIDST in HASCSJFS.

End of Comment

0	(0)	X'2'	0	IPOUTLEN	"0,2" Offset of output area len
0	(0)	X'2 00002'	0	IPCALLER	"2,2" Offset of caller type
0	(0)	X'4 00004'	0	IPWJOE	"4,4" Offset of work-JOE address
0	(0)	X'4 00008'	0	IPNODE	"IPWJOE,8" Offset of input node name
0	(0)	X'4 00004'	0	IPRETC	"IPWJOE,4" Offset of return code
0	(0)	X'8 00004'	0	IPWJOEA	"8,4" Offset of work-JOE ALET
0	(0)	X'C 00004'	0	IPCJOE	"12,4" Offset of char-JOE address
0	(0)	X'C 00008'	0	\$IPUSER	"IPCJOE,8" Offset of input userid
0	(0)	X'10 00004'	0	IPCJOEA	"16,4" Offset of char-JOE ALET
0	(0)	X'14 00004'	0	IPEYE	"20,4" Offset of eye-catcher
0	(0)	X'18	0	IPTUOUT	"24" Offset of TU output area

Comment

Checkpoint-related equates.

\$PRWTHSH and \$PRWRATE are used by the KPRIMW routine in HASPCKPT to determine when a primary write is needed. The lower value (\$PRWTHSH) is used after the READ2 phase, while the higher value (\$PRWRATE) is used at all other times. The intent of the lower limit is to force a primary write at the beginning of the checkpoint cycle if we are getting close to the actual write limit, rather than waiting until we are in the middle of the checkpoint cycle.

End of Comment

0	(0)	X'8	0	\$PRWTHSH	"8" READ2 primary write threshold
0	(0)	X'A	0	\$PRWRATE	"10" Primary write limit

Comment

JES2 release management Equates

In order to manage the Homogeneity/Heterogeneity of a JESplex, it is required that each JES2 deliverable (beginning with SP 5.1.0) have a non-zero monotonic increasing association. Each new combination of VRM (Version Release Modification) will have an equated value here.

End of Comment

0	(0)	X'5	0	\$JES2510	"5" JES2 SP 5.1.0
0	(0)	X'A	0	\$JES2520	"10" JES2 SP 5.2.0

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	X'F	'	0	\$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14	'	0	\$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19	'	0	\$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E	'	0	\$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23	'	0	\$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28	'	0	\$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D	'	0	\$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'2D	'	0	\$JES2HI	"\$JES2210" The highest compatible JES2 version

Comment

JES2 product level / service level equates
 All product levels supported in multi-access spool
 with this release MUST have a \$J2Pxxx equate
 defined. When a release is no longer supported
 in a MAS, its \$J2Pxxx equate should be deleted
 so that obsolete \$LEVEL invocations can be
 identified.

These equates must be equal to the &J2PLVL
 global variable at that release level as defined
 in \$MODULE/\$HASPGBL.

Releases that can not live with the current level
 in a MAS

Dropped as of OS/390 Release 10

J2P510 EQU 24 JES2 SP 5.1.0

J2P520 EQU 25 JES2 SP 5.2.0

J2P110 EQU 26 JES2 OS/390 release 1

J2P130 EQU 27 JES2 OS/390 release 3

End of Comment

0	(0)	X'1C	'	0	\$J2P240	"28" JES2 OS/390 release 4
0	(0)	X'1D	'	0	\$J2P250	"29" JES2 OS/390 release 5
0	(0)	X'1E	'	0	\$J2P270	"30" JES2 OS/390 release 7
0	(0)	X'1F	'	0	\$J2P280	"31" JES2 OS/390 release 8
0	(0)	X'20	'	0	\$J2P210	"32" JES2 OS/390 release 10

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
\$AFTMASK	0	1		\$CHECNWA	0	40
\$AFTOFF	0	1	00002	\$CKADEF	0	20
\$AFTOKEN	0	3		\$CKANEW	0	40
\$AIDNDEF	0	C		\$CKAOLD	0	80
\$AIDNVAL	0	10		\$CKPAMWS	0	80
\$AIDOK	0			\$CKPBLDQ	0	2
\$AIDUSED	0	4		\$CKPDAMG	0	8
\$AIDUTRK	0	8		\$CKPGDEF	0	64
\$ALMSGSW	0	40		\$CKPLOKB	0	20
\$AUDDEL	0	C		\$CKPPOST	0	80
\$AUDINER	0	14		\$CKPSPVL	0	40
\$AUDIO	0	4		\$CKPTRSV	0	1
\$AUDLOST	0	8		\$CKPTW	0	10
\$AUDMOVE	0	10		\$CKPUNK	0	40
\$AUDSUB	0	18		\$CKRCKP1	0	20
\$BDYNATT	0	80		\$CKRCKP2	0	8
\$BDYNDET	0	40		\$CKRDEL	0	80
\$BTGBMTR	0	80		\$CKRIOE	0	2
\$BTGBTGM	0	40		\$CKRNDEL	0	40
\$CF1R004	0	4		\$CKRNIOE	0	1
\$CF1R008	0	8		\$CKRNKP1	0	10
\$CF1R012	0	C		\$CKRNKP2	0	4
\$CF1R036	0	24		\$CKRNSTR	0	40
\$CHECINH	0	80		\$CKRNTOP	0	40

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$CKRSTRT	0	80	\$DRTOTAL	0	40
\$CKRTOP	0	80	\$DRTRACK	0	7
\$CMBDEF	0	64	\$DRUNIT	0	9
\$COLD	0	4	\$DRWARM	0	1F
\$COLDFMT	0	1	\$DRWSLOK	0	22
\$CONER01	0		\$DRXMITJOB	0	2A
\$CONER02	0		\$DTEPARM	0	80
\$CONER03	0		\$DTEPECB	0	40
\$CONER04	0		\$DTEPCB	0	20
\$CONER05	0		\$DYNLOCF	0	8
\$CONER06	0		\$DYNNEW	0	4
\$CONER07	0		\$ENFPPOL	0	F1
\$CONER08	0		\$ENTYLEN	0	27
\$CONER09	0		\$EQUHBIT	0	80
\$CONER10	0		\$ERRCDE	0	4
\$CONER11	0		\$ERRC096	0	60
\$CONER12	0		\$ERRC100	0	64
\$CONER13	0		\$ERRC104	0	68
\$CONFIG	0	10	\$ERRC108	0	6C
\$CPNHBMX	0	90	\$ERRC112	0	70
\$CPRIMXT	0	C8	\$ERRC116	0	74
\$CSBID	0	4	\$ERRC120	0	78
\$CSBPRFX	0	8	\$ERRC128	0	80
\$CSBSPLN	0	4	\$ERRC132	0	84
\$DDYNATT	0	80	\$ERRC136	0	88
\$DDYNFND	0	40	\$ERRC140	0	8C
\$DRABIT	0	1	\$ERRC144	0	90
\$DRAINED	0	20	\$ERRC148	0	94
\$DRALOC	0	2	\$ERRC152	0	98
\$DRARMS	0	20	\$ERRC156	0	9C
\$DRBERTL	0	27	\$ERRC160	0	A0
\$DRBERTW	0	26	\$ERRC164	0	A4
\$DRBREG	0	28	\$ERRC168	0	A8
\$DRBUF	0	4	\$ERRC172	0	AC
\$DRCCAN	0	24	\$ERRC176	0	B0
\$DRCKPT	0	A	\$ERRC180	0	B4
\$DRCKPTL	0	D	\$ERRC184	0	B8
\$DRCKPTP	0	B	\$ERRC188	0	BC
\$DRCKPTW	0	C	\$ERRC192	0	C0
\$DRCMB	0	E	\$ERRC196	0	C4
\$DRCNVT	0	16	\$ERRC200	0	C8
\$DRDILBERT	0	29	\$ERRC204	0	CC
\$DRFSS	0	12	\$ERRC212	0	D4
\$DRGENL	0	1C	\$ERRC216	0	D8
\$DRHOMOG	0	21	\$ERRC220	0	DC
\$DRHOPE	0	17	\$ERRENTY	0	2E
\$DRIMAGE	0	3	\$ERRTEXT	0	4
\$DRJCMD	0	1E	\$ESYS	0	8
\$DRJOB	0	8	\$EWFHOLD	0	8
\$DRJOE	0	6	\$EWFIO	0	20
\$DRJOT	0	5	\$EWFOPER	0	40
\$DRLOCK	0	10	\$EWFPOST	0	80
\$DRMAIN	0	11	\$EWFWORK	0	10
\$DRMFMT	0	23	\$EXCPMT	0	20
\$DRMLLM	0		\$EXCPVR	0	80
\$DRNEWS	0	1B	\$EXCPWT	0	40
\$DRPCETM	0	18	\$EXTPCLO	0	3
\$DRPSO	0	13	\$EXTPGET	0	1
\$DRPURGE	0	14	\$EXTPNCL	0	4
\$DRQUEL	0	8	\$EXTPOPE	0	
\$DRRMWT	0	19	\$EXTPPUT	0	2
\$DRSMF	0	F	\$EXTPREA	0	5
\$DRSPI	0	25	\$EXTPWRI	0	6
\$DRSPIN	0	1D	\$FBUFMLT	0	80
\$DRSTAC	0	1A	\$FCMBCNT	0	80

0002A

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value	
\$GBUFWT	0	80	\$JIXWNO	0		
\$GSMFBLG	0	40	\$JIXWYES	0	1	
\$GSMFBWT	0	80	\$JQEDEF	0	E8	
\$GTCHNNO	0	40	\$JWEBULK	0	40	
\$GTCCOUNT	0	1	\$JWECRTM	0	4	00004
\$GTHAVNO	0	80	\$JWEDVID	0	C	00003
\$GTIOTYS	0	20	\$JWEFLAG	0	F	00001
\$GTNET	0	10	\$JWEFLG1	0	1	
\$GTNOSAF	0	2	\$JWELEN	0	10	
\$GTPARML	0	2	\$JWELONG	0	80	
\$GTWKCND	0	80	\$JWENUM	0	4	00008
\$GTWKLOC	0	20	\$JWEPTR	0	4	
\$GTWKRO	0	10	\$JWETBLL	0	8	
\$GTWKWAT	0	40	\$JW1NCLR	0	80	
\$GTWRKSL	0	8	\$J2P210	0	20	
\$GTWSP	0	4	\$J2P240	0	1C	
\$HOT	0	40	\$J2P250	0	1D	
\$HOURLPLUS	0	4C	\$J2P270	0	1E	
\$ILPFLG1	0	1	\$J2P280	0	1F	
\$ILPFLG2	0	2	\$LABAL	0	40	
\$ILPFLG3	0	3	\$LABAUL	0	48	
\$ILPSIZE	0	1	\$LABBLP	0	10	
\$INDMODE	0	8	\$LABNL	0	1	
\$IOTRBGN	0	E8	\$LABNSL	0	4	
\$IOTRLMT	0	5	\$LABSL	0	2	
\$IPUSER	0	C	\$LABSUL	0	A	
\$JECDE	0		\$LRGSMFB	0		
\$JECEO	0	1	\$LVALONE	0	80	
\$JECJP	0	3	\$L01R004	0	4	
\$JECJPRE	0	1F	\$MAXACCT	0	8F	
\$JECJPSA	0	1E	\$MAXBERT	0	F8	
\$JECMAX	0	20	\$MAXBSC	0	F	
\$JECMS	0	4	\$MAXBUF	0	D0	
\$JECNA	0	5	\$MAXBUFX	0	F	
\$JECNO	0	6	\$MAXCMB	0	F	
\$JECNOK	0	4	\$MAXCMDB	0	F	
\$JECNV	0	E	\$MAXCMPT	0	63	
\$JECOC	0	F	\$MAXCPLN	0	FF	
\$JECOK	0		\$MAXCPPG	0	FF	
\$JECOU	0	7	\$MAXCPTM	0	FF	
\$JECPR	0	8	\$MAXDA	0	FD	
\$JECPU	0	2	\$MAXDSKY	0	7F	
\$JECRO	0	9	\$MAXFORM	0	8	
\$JECROXQ	0	C	\$MAXINIT	0	F	
\$JECSC	0	A	\$MAXIPLN	0	7F	
\$JECSE	0	B	\$MAXJBNO	0	FE	
\$JECXM	0	D	\$MAXJDEF	0	F	
\$JECXQ	0	C	\$MAXJOID	0	FF	
\$JES2HI	0	2D	\$MAXJQES	0	FE	
\$JES2110	0	F	\$MAXLCK	0	8	
\$JES2130	0	14	\$MAXLNES	0	FF	
\$JES2210	0	2D	\$MAXLOGS	0	E7	
\$JES2240	0	19	\$MAXNHB	0	F	
\$JES2250	0	1E	\$MAXNJEQ	0	7	
\$JES2270	0	23	\$MAXNMSG	0	C8	
\$JES2280	0	28	\$MAXNODE	0	FF	
\$JES2510	0	5	\$MAXNPRO	0	10	
\$JES2520	0	A	\$MAXOFFS	0	8	
\$JEXTLEN	0	2	\$MAXPRDV	0	8	
\$JEXTTGN	0	2	\$MAXPRMD	0	FF	
\$JIXFOMT	0	10	\$MAXPRTS	0	FF	
\$JIXFREE	0	40	\$MAXPUNS	0	63	
\$JIXGET	0	80	\$MAXRCLN	0	12	
\$JIXSWAP	0	20	\$MAXRDRS	0	63	
\$JIXVERI	0	8	\$MAXRJE	0	FF	

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$MAXROUT	0	FF	\$M479IO	0	80
\$MAXRST	0	D0	\$M479SID	0	40
\$MAXSAFL	0	80	\$M479VAL	0	10
\$MAXSJFR	0	F4	\$M607ACT	0	20
\$MAXSNML	0	4	\$M607CRS	0	4
\$MAXSSZZ	0	1E	\$M607HLD	0	10
\$MAXSYS	0	20	\$M607IO	0	80
\$MAXSYSN	0	20	\$M607LCK	0	8
\$MAXTGBE	0	FF	\$M607PCE	0	1
\$MAXTGS	0	40	\$M607SPN	0	2
\$MAXTGV	0		\$M607WTO	0	40
\$MAXTINT	0	F4	\$M711ATT	0	40
\$MAXTLOG	0	FF	\$M711CNT	0	80
\$MAXTRC	0	B8	\$M711RTN	0	20
\$MAXVRSN	0	32	\$NPMDOWN	0	2
\$MAXVTAM	0	F	\$NPRICHG	0	20
\$MCBYTES	0	2	\$NPRODEF	0	2C
\$MCCOMMN	0		\$ODANY	0	F
\$MCMIT	0		\$ODANYWP	0	1F
\$MCMMSG	0	80	\$ODHOLD	0	4
\$MCNAME	0		\$ODKEEP	0	2
\$MCNTEST	0	8	\$ODLEAVE	0	1
\$MCPRPX	0		\$ODPURGE	0	10
\$MCRMD24	0		\$ODWRITE	0	8
\$MCRSLVX	0		\$PBLKCTR	0	40
\$MCTABL	0		\$PBLKSLT	0	80
\$MCMVERS	0		\$PBUFLIM	0	E8
\$MINBERT	0	64	\$PDYNALT	0	10
\$MINBSC	0	A	\$PDYNAT	0	80
\$MINBUF	0	A	\$PDYNDCT	0	2
\$MINBUFX	0	A	\$PDYNDT	0	40
\$MINCMB	0	4	\$PDYNDTT	0	20
\$MINCMDDB	0	4	\$PDYNPCE	0	8
\$MINJDEF	0	1	\$PDYNTAB	0	4
\$MINNHBB	0	A	\$PGESIZE	0	
\$MINTINT	0	F	\$PGSFIX	0	40
\$MINVTAM	0	A	\$PGSFREE	0	20
\$MLDIRL	0	20	\$PGSPRO	0	8
\$MLDLPA	0	10	\$PGSRPSL	0	10
\$MLJ2MOD	0	40	\$PGSRVRL	0	80
\$MLMSGI	0	8	\$PGSUPRO	0	4
\$MLMSGY	0	80	\$PLXPCEL	0	14
\$MSGPFXL	0	2	\$PLXSCEL	0	14
\$MVS IPL	0	2	\$PPVERIU	0	10
\$MWORKSZ	0	20	\$PRWRATE	0	A
\$MXSYSBY	0	4	\$PRWTHSH	0	8
\$M064DAD	0	10	\$PSTJOE	0	
\$M064IBE	0	80	\$PSTJQE	0	4
\$M064NIB	0	40	\$PSTMASP	0	80
\$M064SNS	0	20	\$PSTMSG	0	C
\$M068DEV	0	80	\$PSTXMIT	0	8
\$M068NDV	0	40	\$QGTINWS	0	20
\$M281ALL	0	80	\$QGTLST	0	40
\$M281SOM	0	40	\$QGTLSTC	0	80
\$M291CC1	0	80	\$QGTWLMQ	0	10
\$M291CC2	0	40	\$QINDXL	0	
\$M291NCW	0	20	\$QMDKEEP	0	10
\$M291SNS	0	10	\$QSNPCHG	0	40
\$M416LNG	0	80	\$QSONDA	0	80
\$M416SHR	0	40	\$QUICK	0	20
\$M458CK1	0	80	\$QWALEN	0	68
\$M458CK2	0	40	\$REMKPJQ	0	10
\$M478CK1	0	80	\$REMLCK	0	20
\$M478CK2	0	40	\$REMPURG	0	80
\$M479INT	0	20	\$RESVWT	0	80

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$ROLDSPI	0		\$SEANEWS	0	16
\$ROLJOEI	0		\$SEANJEA	0	13
\$ROLJQEI	0		\$SEANJES	0	
\$ROLLEN	0	4	\$SEANJEV	0	1F
\$ROLLOFF	0	2	\$SEANSOC	0	1D
\$ROLLSRV	0	1	\$SEANSTO	0	C
\$ROTDNUM	0	E8	\$SEANUSE	0	F
\$ROTONUM	0	E8	\$SEANWBL	0	17
\$ROTQNUM	0	E8	\$SEAOK	0	
\$RRRTJOB	0	80	\$SEAPRT	0	D
\$SCACMDS	0	C	\$SEAPSO	0	9
\$SCACTCM	0	1B	\$SEAPSS	0	A
\$SCCCMDS	0	14	\$SEAREXT	0	14
\$SCCOCMD	0	16	\$SEARJES	0	11
\$SCDCMDS	0	4	\$SEARRT	0	15
\$SCDDIAL	0	9	\$SEASAPI	0	25
\$SCDOCMD	0	6	\$SEASFS	0	23
\$SCECMDA	0	10	\$SEASIC	0	5
\$SCECMDS	0	B	\$SEASIP	0	7
\$SCHCMDS	0	12	\$SEASOC	0	6
\$SCIDIAL	0	E	\$SEASOP	0	8
\$SCIRPL	0	2	\$SEASOX	0	1E
\$SCIRPLC	0	3	\$SEASPBC	0	21
\$SCLCMDS	0	1A	\$SEASPBO	0	22
\$SCLOCMD	0	19	\$SEASSOC	0	1C
\$SCLTCMD	0	F	\$SEASSWM	0	24
\$SCNDDBK	0	80	\$SEATBLD	0	10
\$SCNDDBL	0	40	\$SEATCAN	0	B
\$SCNDDCR	0	10	\$SEATSOC	0	1B
\$SCNDDMK	0	20	\$SEAUSED	0	25
\$SCNDHEX	0	2	\$SEAVERC	0	2
\$SCNDNBN	0	8	\$SEAVERD	0	3
\$SCNDNUM	0	4	\$SEAVERS	0	18
\$SCOCMDS	0	18	\$SEAXTRT	0	4
\$SCOPTS	0	1	\$SEGLMDF	0	64
\$SCPCMDS	0	8	\$SJIFREE	0	40
\$SCPOCMD	0	17	\$SJIGNYC	0	8
\$SCRCMDS	0	D	\$SJINIT	0	10
\$SCRLCMD	0	13	\$SJINSJB	0	20
\$SCSCMDS	0	5	\$SJITEMP	0	80
\$SCSDIAL	0	A	\$SMFDEF	0	5
\$SCSTCMD	0	7	\$SPCSAF	0	E7
\$SCTOCMD	0	15	\$SP0	0	
\$SCWHOTS	0	40	\$SP132	0	84
\$SCWIBM	0	3C	\$SSIRCVR	0	1
\$SCWINST	0	3	\$STMT	0	80
\$SCWOBS	0	80	\$STMTCOM	0	40
\$SCZAPCM	0	1C	\$STMTERR	0	10
\$SCZCMDS	0	11	\$STMTWAR	0	20
\$SDAPPND	0	40	\$STSUBP	0	E5
\$SDDEFT	0	20	\$SUBERR	0	80
\$SDHOME	0	80	\$SUBMULT	0	40
\$SDRETRN	0	10	\$SYSEXIT	0	4
\$SDWAIT	0	8	\$TGCNTYS	0	80
\$SDXSYS	0	4	\$TGDEF	0	A0
\$SEAAUD	0	19	\$TGQSYES	0	8
\$SEACMD	0	C	\$TGSETON	0	4
\$SEADCHK	0	1A	\$TGTPSET	0	10
\$SEADEL	0	E	\$TGTTST	0	20
\$SEADEVA	0	12	\$TGTTSET	0	30
\$SEAFAIL	0	8	\$TIMETST	0	80
\$SEAINIT	0	1	\$TKNLEN	0	50
\$SEAJOX	0	20	\$TKNVERN	0	1
\$SEAMAX	0	FF	\$TRK000D	0	
\$SEAND	0	4	\$VOLFLDL	0	18

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$VOLLEN	0	6	EXTPLCMD	0	1
\$VOLMAX	0	4	EXTPLDAT	0	4
\$VOLMSKL	0	20	EXTPLLEN	0	1
\$WARM	0	80	EXTPLSIZ	0	8
\$WARMHD	0	F4	FF	0	FF
\$WSFRJE	0	80	FP0	0	
\$WSJSREC	0	40	FP2	0	2
\$446CVER	0	A	FP4	0	4
\$446MVER	0	9	FP6	0	6
\$599LEN	0	C	GTWKDIS	0	30
\$599PIT	0	4	GTWKRO	0	10
\$599SQD	0	4	GTWKTANY	0	20
\$599XINI	0	8	GTWKTCEL	0	8
AR0	0		GTWKTESZ	0	10
AR1	0	1	GTWKTFLG	0	3
AR10	0	A	GTWKTNXT	0	4
AR11	0	B	GTWKTPID	0	2
AR12	0	C	GTWKTSIZ	0	2
AR13	0	D	GTWKTUSE	0	C
AR14	0	E	HAMSVC	0	6F
AR15	0	F	HASPOOL	0	8
AR2	0	2	HEDRPOOL	0	16
AR3	0	3	HSVCEHDR	0	14
AR4	0	4	HSVCEOBG	0	
AR5	0	5	HSVCEOBP	0	4
AR6	0	6	HSVCGTCL	0	2C
AR7	0	7	HSVCGUPD	0	20
AR8	0	8	HSVCIIRD	0	8
AR9	0	9	HSVCOUHL	0	18
BATPOOL	0	5	HSVCPNT	0	C
BSCPOOL	0	6	HSVCPUPD	0	24
B32KPOOL	0	A	HSVCSRIB	0	10
CBPOOL	0	7	HSVCSXBM	0	28
CFPOOL	0	13	ICEPOOL	0	1A
CFREQ_FMT	0	6	IECITMOD	0	18
CFREQ_LOCK	0	4	IPCALLER	0	2
CFREQ_READ2	0	2	IPCJOE	0	C
CFREQ_T1IO	0	1	IPCJOEA	0	10
CFREQ_UNLCK	0	5	IPEYE	0	14
CFREQ_WRITE	0	3	IPNODE	0	4
CKPCLBCL	0	8	IPOUTLEN	0	2
CKPCLCKP	0	1	IPRETC	0	4
CKPCLCMW	0	40	IPTUOUT	0	18
CKPCLCRW	0	80	IPWJOE	0	4
CKPCLMRK	0	F	IPWJOEA	0	8
CKPCLRDC	0	2	JIXVRSN	0	1
CKPCLRDP	0	4	LEAVE_JOES_BUSY		
CKPTPOOL	0	4		0	
CMBPOOL	0	14	MAPADDR	0	8
DIAGADDR	0	4	MAPBASE	0	C
DIAGKLEN	0	5	MAPENTL	0	10
DIAGKLOC	0	4	MAPMITA	0	8
DONOT_UNLOCK_JQE			MAPNAME	0	8
	0	2	M710DOWN	0	2
DYNL3203	0	50	M710ENT	0	5
DYNL3211	0	3A	M710MEM	0	4
DYNL3800	0	E	M710RSN	0	4
DYNL4245	0	50	M710UP	0	1
DYNL4248	0		M791GRP	0	4
DYNT EYE	0	4	M791LEN	0	1C
DYNTLEN	0	10	M791NAME	0	4
DYNTNEXT	0	4	M791PLX	0	C
DYNTTAB	0	8	M791PXID	0	14
DYNTTYPE	0	C	NATPOOL	0	9
ENQHAVIT	0	8	NMAPPOOL	0	B

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NONE	0		SCNDR28	0	60
NSAPool	0	C	SCNDR39	0	64
NTQPool	0	D	SCNDR40	0	68
PAGEPool	0	E	SCNDR41	0	6C
PAIRDYN	0	8	00004	0	70
PAIRHASP	0	4	00004	0	74
PAIRLEN	0	C	SCNDR45	0	78
PAIRUSER	0	4	SCNDR46	0	7C
PCEPool	0	19	SCNDR52	0	80
PERFPool	0	18	SCNDR54	0	84
PLXPool	0	15	SCNDR55	0	88
PPPool	0	F	SCNDR56	0	8C
PRFDCPUS	0	5	SCNDR57	0	90
PRFDEVNT	0	6	SCNDR58	0	94
PRFDIND	0	8	00001	0	98
PRFDINTS	0	1	SCNDR62	0	9C
PRFDLEN	0	C	SCNDR63	0	A0
PRFDNAME	0	8	SCNDR64	0	A4
PRFDPCES	0	3	SCNDR65	0	A8
PRFDQSUS	0	2	SCNDR66	0	AC
PRFDSAMP	0	4	SCNDR67	0	B0
PSTVRSN	0	2	SCNDR68	0	B4
RACDSECL	0	24	SCNDR69	0	B8
REGANSI	0	A0	SCNDR70	0	BC
RNTPool	0	1C	SCNDR71	0	C0
RSOVRSN	0	1	SCNDR72	0	C4
R0	0		SCNDR73	0	C8
R1	0	1	SCNDR74	0	CC
R10	0	A	SCNDR75	0	D0
R11	0	B	SCNDR76	0	D4
R12	0	C	SCNDR77	0	D8
R13	0	D	SCNDR78	0	DC
R14	0	E	SCNDR79	0	E0
R15	0	F	SCNDR80	0	E4
R2	0	2	SCNDR81	0	E8
R3	0	3	SCNDR82	0	EC
R4	0	4	SCNDR83	0	F0
R5	0	5	SCNDR84	0	F4
R6	0	6	SCNDR85	0	F8
R7	0	7	SCNDR86	0	FC
R8	0	8	SCNDR87	0	
R9	0	9	SCNDR88	0	4
SCNDR01	0	4	SCNDR89	0	8
SCNDR03	0	8	SCNDR90	0	C
SCNDR04	0	C	SCQVRSN	0	1
SCNDR05	0	10	SDLTBADD	0	4
SCNDR06	0	14	SDLTLEN	0	4
SCNDR07	0	18	SDLTNUM	0	A
SCNDR08	0	1C	SMFPool	0	12
SCNDR09	0	20	SPANLAST	0	8C
SCNDR10	0	24	SPANMID	0	84
SCNDR11	0	28	SPAN1ST	0	88
SCNDR12	0	2C	SRCBANSI	0	20
SCNDR13	0	30	SRCBCCTL	0	30
SCNDR14	0	34	SRCBDSH	0	E0
SCNDR17	0	38	SRCBFLAG	0	80
SCNDR18	0	3C	SRCBJH	0	C0
SCNDR19	0	40	SRCBJT	0	D0
SCNDR21	0	44	SRCBLAST	0	C
SCNDR22	0	48	SRCBMCH	0	10
SCNDR23	0	4C	SRCBMID	0	4
SCNDR24	0	50	SRCBPAGE	0	30
SCNDR25	0	54	SRCBSPAN	0	C
SCNDR26	0	58	SRCB1ST	0	8
SCNDR27	0	5C	TGMVRSN	0	1

\$HASPEQU Cross Reference

Name	Hex Offset	Hex Value	
TINTPOOL	0	17	
TMAPADD	0	18	00004
TMAPENTL	0	1C	
TMAPLMOD	0	10	00008
TRCCWSP1	0	9	
TRCCWSP2	0	11	
TRCCWSP3	0	19	
TRCLRECL	0	79	
UNBUSY_JOES	0	1	
VTAMPOOL	0	10	
WTASCBPT	0	C	00004
WTCHAIN	0	4	
WTECBL1	0	14	00004
WTECBL2	0	18	00004
WTERRET	0	10	00004
WTUNECB	0	4	00004
WTXMECB	0	8	00004
XCFMLIST	0	8	00012
XCFMEMF	0	11	00001
XCFMEMN	0	10	
XCFMEMR	0	10	00001
XCFMRSCS	0	C	
XCFMRSJ2	0	4	
XCFMRSNM	0	8	
XCFMSIZE	0		
XCFMTHM	0	4	
XCFMUS	0	4	00004
XRQPOOL	0	11	

\$HASXB Programming Interface information

Programming Interface information

\$HASXB

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

- HXBDSB
- HXBSAPID
- HXBWRKSP

End of Programming Interface information

\$HASXB Heading Information

Common Name: HASP address space extension block
Macro ID: \$HASXB
DSECT Name: HASXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HSXB
Offset: HXBID-HASXB
Length: L'HXBID

Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private address space represented by the \$HASXB.

Size: See HXBLEN
Created by: \$SSIBEGN routine
Pointed to by: HSBHASXB field of the \$HASB data area
Serialization: Shared by TCBs in the address space. The local lock is required to increment the use count in the \$HASXB. This ensures that the control block won't be freed if it is considered to be temporary. It is not necessary to obtain the local lock to increment a permanent HASXB's use count because the HASB/HASXB will not be freed. After the use count has been incremented in the \$HASXB control block to indicate that both the \$HASB and \$HASXB are in use, compare and swaps may be used to modify fields. \$SSIBEGN increments the use count upon entry. The use count in the \$HASXB is for both the \$HASB and the \$HASXB. Compare and swap is still needed to update the use count even with the local lock because the local lock is not obtained when decrementing the use count in \$SSIEND for permanent HASB/HASXBs. The use of compare and swap is not needed for the system HASB/HASXB count because it is never updated without the local lock.

Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist for the life of the address space. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request. The HASXB contains the information that is needed only in the user address space. The HASB contains the information that needs to be shared between the user and the subsystem address spaces.

\$HASXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HASXB	BEGINNING OF HASXB DSECT
0	(0)	CHARACTER	4	HXBID	EYECATCHER OF HASXB
4	(4)	ADDRESS	1	HXBVRSN	VERSION NUMBER FIELD
4	(4)	X'2	0	HXBVRNUM	"2" CURRENT VERSION OF HASXB
5	(5)	BITSTRING	1	HXBFLAG1	STATUS FLAG 1
5	(5)	BITSTRING	0	HXB1PERM	"B'10000000" PERMANENT HASB/HASXB CHAIN
5	(5)	BITSTRING	0	HXB1SYS	"B'01000000" SYSTEM HASB/HASXB CHAIN
5	(5)	BITSTRING	0	HXB1REQ	"B'00100000" A Request Jobld call was made from this addr space
5	(5)	BITSTRING	0	HXB1B32K	"B'00010000" B32K cell pool created
6	(6)	BITSTRING	1	HXBRSVRD (2)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HXBUSECT	COUNT OF USERS OF THIS HSXB
12	(C)	SIGNED	4	HXBINTRD	COUNT OF BCP-ALLOCATED INTERNAL READERS
16	(10)	ADDRESS	4	HXBTR	ADDRESS OF FIRST TRE ON CHAIN
20	(14)	ADDRESS	4	HXBWRKSP	ADDRESS OF WORK SPACE
24	(18)	ADDRESS	4	HXBUSER1	RESERVED FOR USER
28	(1C)	SIGNED	4	HXBRSVD1	RESERVED FOR FUTURE USE
32	(20)	ADDRESS	4	HXBCTCB	TCB address to use with STORAGE OBTAIN
36	(24)	ADDRESS	4	HXBINDEX	Address of CPINDEX table
40	(28)	ADDRESS	4	HXBALIDX	Address of ALINDEX table
44	(2C)	ADDRESS	4	HXBDSB	Chain of LOCAL DSBs
48	(30)	SIGNED	4	HXBSAPIA	ALET of SAPID queue for this address space
52	(34)	ADDRESS	4	HXBSJIOB	Permanent SJIOB used for \$SIGIO processing
56	(38)	ADDRESS	4	HXBDCB	Address of local DCB
60	(3C)	ADDRESS	4	HXBDEB	Address of local DEB

Comment

SPOOL I/O vector
 This vector anchors the BAT control blocks for this address space. There is one entry for every possible SPOOL volume.

End of Comment

64	(40)	ADDRESS	4	HXBBATV (0)	SPOOL I/O vector
64	(40)	DBL WORD	8	(0)	Alignment
64	(40)	X'40	0	HXBLEN	**-"HASXB" LENGTH OF HASXB DSECT

\$HASXB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HXBALIDX	28		HXB1PERM	5	80
HXBBATV	40		HXB1REQ	5	20
HXBINDEX	24		HXB1SYS	5	40
HXBCTCB	20				
HXBDCB	38				
HXBDEB	3C				
HXBDSB	2C				
HXBFLAG1	5				
HXBID	0	C8E2E7C2			
HXBINTRD	C				
HXBLEN	40	40			
HXBRSVD1	1C				
HXBRSVRD	6				
HXBSAPIA	30				
HXBSJIOB	34				
HXBTR	10				
HXBUSECT	8				
HXBUSER1	18				
HXBVRNUM	4	2			
HXBVRSN	4				
HXBWRKSP	14				
HXB1B32K	5	10			

\$HASXB Cross Reference

\$HCCT Programming Interface information

Programming Interface information

\$HCCT

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

- CCTASYNC
- CCTAUXCB
- CCTBMAP
- CCTCBRT
- CCTCKPTP
- CCTCOMM
- CCTDSB
- CCTDSINR
- CCTECF
- CCTHTCBA
- CCTJOB
- CCTMLLM
- CCTOFFM
- CCTPCEPE
- CCTPJCLQ
- CCTRCP
- CCTRCPQ
- CCTSAPIQ
- CCTSCIDS
- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

End of Programming Interface information

\$HCCT Heading Information

Common Name: HASP Common-storage Communication Table
Macro ID: \$HCCT
DSECT Name: HCCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'HCCT'
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4

Storage Attributes: Subpool: 228
Key: 1
Residency: Virtual and real storage are below 16M, in CSA. The storage is fixed in memory. Below 16M because it contains an extended ECB.

Size: See the CCTLEN equate (plus an 8 byte prefix)

Created by: Initialization of a JES2 subsystem address space, except for a 'hot start' initialization (the HCCT in CSA is just re-located in that case).

Pointed to by:

- The SSCTSUS2 field of the MVS SSCVT control block for the defined JES2 subsystem.
- General register 11 when executing code in the 'USER' execution environment.
- The \$HCCT field of the JES2 \$HCT control block.
- The HFCTHCCT field of each JES2 \$HFCT control block.
- The SDBHCCT field of each JES2 \$\$SDB control block.
- The RIDHCCT field of each JES2 internal reader \$DCT control block.
- The address word in the module entry labeled MAPHCCT in the JES2 \$MODMAP control block.

Serialization:

- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized via the JES2 Job Communications Queues (JCQ) logical lock.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by MVS resource ENQ.
- Fields might be serialized by the LOCAL/CMS locks.

Function: The HCCT is the central common storage control block for a JES2 subsystem. It can be located from the MVS control blocks defining the subsystems. It, in turn, points to the major control block in the JES2 address space (\$HCT), those for application address spaces (\$HAVT, \$HASBs), those for FSS address spaces (\$FSSCBs), etc.

The HCCT also contains or points to most data used for communication between address spaces, whether for direct support of application requests for subsystem service (e.g. executing jobs, creating and writing to SYSOUT datasets), for JES2 subsystem utilities (e.g. its \$TRACE facility), or for other purposes. It also is the central location for any information that must be useable when JES2 experiences an outage, or that must be preserved across such an outage until a 'hot start' is performed.

The HCCT is used most importantly by the JES2 subsystem interface (SSI) function routines, which include all of the MVS/JES2 interactions in support of job execution and SYSOUT/SYSIN datasets.

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCCT	
0	(0)	X'9	0	CCTVRNUM	"9" HCCT version equate
0	(0)	ADDRESS	1	CCTVRSN	CONTROL BLOCK VERSION
1	(1)	BITSTRING	7		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	CCTOFSTB	Address of offset table, at HCCT offset +8
12	(C)	ADDRESS	4	CCTLMT1	Address of first CSA LMT, if any
16	(10)	CHARACTER	8	CCTPVRSN	Copy of HCT \$VERSION. Permanently set to 'SP 5.3.0' (Do not remove)

Comment

DEFINE CONSTANTS. MOVED FROM THE \$HCT IN HASPIRMA.

End of Comment

24	(18)	CHARACTER	32	CCTBLNKS	32 CHARACTERS OF BLANKS
56	(38)	BITSTRING	64	CCTZEROS	64 CHARACTERS OF HEX ZERO
56	(38)	X'38	0	CCTZERO	"CCTZEROS" Alternate name for CCTZEROS
120	(78)	SIGNED	4	CCTNEG1	FULLWORD OF X'FF'S
120	(78)	X'78	0	CCTALLFF	"CCTNEG1" ALTERNATE NAME FOR CCTNEG1
124	(7C)	SIGNED	4	CCTF1	FULLWORD CONSTANT 1
124	(7C)	X'7E 00002'	0	CCTH1	"CCTF1+2,2,C'H" HALFWORD CONSTANT 1
128	(80)	SIGNED	4	CCTF2	FULLWORD CONSTANT 2
128	(80)	X'82 00002'	0	CCTH2	"CCTF2+2,2,C'H" HALFWORD CONSTANT 2
132	(84)	SIGNED	4	CCTF4	FULLWORD CONSTANT 4
132	(84)	X'86 00002'	0	CCTH4	"CCTF4+2,2,C'H" HALFWORD CONSTANT 4
136	(88)	SIGNED	4	CCTF6	FULLWORD CONSTANT 6
136	(88)	X'8A 00002'	0	CCTH6	"CCTF6+2,2,C'H" HALFWORD CONSTANT 6
140	(8C)	SIGNED	4	CCTF8	FULLWORD CONSTANT 8
140	(8C)	X'8E 00002'	0	CCTH8	"CCTF8+2,2,C'H" HALFWORD CONSTANT 8
144	(90)	SIGNED	4	CCTF12	FULLWORD CONSTANT 12
144	(90)	X'92 00002'	0	CCTH12	"CCTF12+2,2,C'H" HALFWORD CONSTANT 12
148	(94)	SIGNED	4	CCTF16	FULLWORD CONSTANT 16
148	(94)	X'96 00002'	0	CCTH16	"CCTF16+2,2,C'H" HALFWORD CONSTANT 16
152	(98)	SIGNED	4	CCTF255	FULLWORD CONSTANT 255
152	(98)	X'9A 00002'	0	CCTH255	"CCTF255+2,2,C'H" HALFWORD CONSTANT 255
152	(98)	X'98	0	CCT000F	"CCTF255" Fullword X'000000FF'
156	(9C)	SIGNED	4	CCTF4096	FULLWORD CONSTANT 4096
156	(9C)	X'9E 00002'	0	CCTH4096	"CCTF4096+2,2,C'H" HALFWORD CONSTANT 4096
160	(A0)	BITSTRING	4	CCTOFFF	FULLWORD THREE BYTE MASK
164	(A4)	BITSTRING	4	CCT7FFF	FULLWORD HIGH BIT OFF MASK
164	(A4)	X'A4	0	CCTFMAX	"CCT7FFF" Fullword largest + number
164	(A4)	X'A4 00002'	0	CCTHMAX	"CCT7FFF,2,C'H" Halfword largest + number
168	(A8)	ADDRESS	4	CCTBADA (16)	BAD value

Comment

SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.

End of Comment

232	(E8)	ADDRESS	1	CCTJSPLL	Length of JESSPOOL class
233	(E9)	CHARACTER	8	CCTJSPLV	JESSPOOL class
233	(E9)	X'E8 00009'	0	CCTJSPL	"CCTJSPLL,-CCTJSPLL,C'X" JESSPOOL SAF class
241	(F1)	BITSTRING	3		Reserved for future use

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
COMMUNICATION CONTROL FIELDS					
End of Comment					
244	(F4)	ADDRESS	4	CCTSSVT	SUBSYSTEM VECTOR TABLE ADDRESS
248	(F8)	ADDRESS	4	CCTCADDR	ADDR OF COMMON STORAGE ADDR TBL
252	(FC)	ADDRESS	4	CCTCTABS	Addr of CPOOL tables
256	(100)	ADDRESS	4	CCTCPIDX	Addr of CSA CPOOL index
260	(104)	ADDRESS	4	CCTHCT	ADDRESS OF HASP HCT
264	(108)	ADDRESS	4	CCTHTCBA	JES2 MAIN-TASK TCB ADDRESS
268	(10C)	BITSTRING	8	CCTJSTKN	TOKEN of the JES2 addrspc, unique for this MVS IPL, see CCTASCB for ASCB addr
276	(114)	ADDRESS	4	CCTAMVEC	VECTOR TABLE FOR SVC111 INTERFACE
280	(118)	ADDRESS	4		
284	(11C)	ADDRESS	4	CCTSSCT	ADDRESS OF SSCT
288	(120)	ADDRESS	4	CCTKAC	ADDRESS OF KAC CONTROL BLOCK
292	(124)	ADDRESS	4	CCTSCIDS	ADDR CKPT SCID CONTROL BLCK
296	(128)	ADDRESS	4	CCTHAVT	JES2 ADR SPACE VECTOR TABLE
300	(12C)	ADDRESS	4	CCTHASP	HASP CONDITION = 0 - STILL UP = -1 - ABENDED OR ABENDING = +1 - \$PJES2 ACCEPTED
300	(12C)	X'1	0	CCTPJES2	"1" \$PJES2 accepted
300	(12C)	BITSTRING	0	CCTHOTST	"X'80" Hot Start Indicated
300	(12C)	BITSTRING	0	CCTABEND	"X'FFFFFF" JES2 has abended
304	(130)	BITSTRING	1	CCTSTUS	SUBSYSTEM STATUS BYTE
304	(130)	BITSTRING	0	CCTSTUSP	"X'80" THIS IS THE PRIMARY SUBSYSTEM
304	(130)	BITSTRING	0	CCTSTUST	"X'40" HASP TERMINATION COMPLETE
304	(130)	BITSTRING	0	CCTSTUSR	"X'20" HASP IS RESTARTING
304	(130)	BITSTRING	0	CCTSMVFN	"X'10" Spool fencing active
304	(130)	BITSTRING	0	CCTSTIRV	"X'08" CHKPT DEVICE RESERVED BY INIT
304	(130)	BITSTRING	0	CCTSTPJF	"X'04" \$PJES2,ABEND,FORCE ISSUED
Comment					
EQU X'02' RESERVED FOR FUTURE USE					
End of Comment					
304	(130)	BITSTRING	0	CCTSTRPL	"X'01" A RE-IPL IS REQUIRED
305	(131)	BITSTRING	1	CCTTSLOK	TSU ABEND INTERLOCK FLAG
306	(132)	CHARACTER	1	CCTCOMCH	JES2 Command character (OS/390 command input)
307	(133)	BITSTRING	1	CCTDSTFL	USERDEST flags - see HCT field \$DESTFLG
308	(134)	CHARACTER	4	CCTSID	Alphanumeric member name
312	(138)	CHARACTER	8	CCTMVSNM	MVS system name
320	(140)	DBL WORD	8	CCTJ2WAT	Time of last main task wait
328	(148)	DBL WORD	8	CCTJ2DSP	Time of last main task post
336	(150)	ADDRESS	4	CCTRBGN	IOT REUSE START THRESHOLD
340	(154)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
344	(158)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE
348	(15C)	ADDRESS	4	CCTINXTB	ADDRESS OF REASON INDEXTABLE
352	(160)	ADDRESS	4	CCTQINDX	Address of Que Index table
356	(164)	ADDRESS	4	CCTXMAQ	Address of XMAQENTs (XCF member status table)
360	(168)	ADDRESS	4	CCTRCPCQ	Remote Console Processor FIFO CSA CMB queue
364	(16C)	BITSTRING	0	CCTMEMUP	Copy of XMAMEMUP (members that HASPXCF considers up)
364	(16C)	ADDRESS	4	(4)	Reserved for future use
Comment					
USER COMMON STORAGE FIELDS.					
End of Comment					
380	(17C)	ADDRESS	4	CCTCUCT	COMMON USER COMMUNICATION TABLE
384	(180)	ADDRESS	4	CCTUCADD	ADDR OF USER COMMON ADDR TABLE
388	(184)	ADDRESS	4	CCTUSER1	USER FIELD ONE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
392	(188)	ADDRESS	4	CCTUSER2	USER FIELD TWO
396	(18C)	ADDRESS	4	CCTUSER3	USER FIELD THREE
400	(190)	ADDRESS	4	CCTUSER4	USER FIELD FOUR

Comment

THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO. EACH ELEMENT IS CURRENTLY 8 BYTES LONG. SIMILIAR FIELDS ALSO EXIST IN THE \$HCT AND THE \$SJXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE \$HCT AND \$SJXB ARE ALSO UPDATED. DO NOT DELETE ANY RESERVED FIELDS IN HERE EITHER.

End of Comment

404	(194)	ADDRESS	4	CCTEST1 (0)	FIRST ESTIMATED COUNT TABLE
404	(194)	SIGNED	8	(0)	NEXT 8 BYTES MUST BE TOGETHER
404	(194)	ADDRESS	4	CCTPGINT	EST PAGE MSG INTERVAL
408	(198)	ADDRESS	1		EXECUTION PAGE OPTION
409	(199)	ADDRESS	3		RESERVED
412	(19C)	SIGNED	8	(0)	NEXT 8 BYTES MUST BE TOGETHER
412	(19C)	ADDRESS	4	CCTOTINT	EST BYTE MSG INTERVAL
416	(1A0)	ADDRESS	1		EXECUTION BYTE OPTION
417	(1A1)	ADDRESS	3		RESERVED
420	(1A4)	SIGNED	8	(0)	NEXT 8 BYTES MUST BE TOGETHER
420	(1A4)	ADDRESS	4	CCTLNINT	EST LINE MSG INTERVAL
424	(1A8)	ADDRESS	1		EXECUTION LINE OPTION
425	(1A9)	ADDRESS	3		RESERVED
428	(1AC)	SIGNED	8	(0)	NEXT 8 BYTES MUST BE TOGETHER
428	(1AC)	ADDRESS	4	CCTPUINT	EST CARD MSG INTERVAL
432	(1B0)	ADDRESS	1		EXECUTION PUNCHED CARD OPTION
433	(1B1)	ADDRESS	3		RESERVED
436	(1B4)	SIGNED	8	(0)	NEXT 8 BYTES MUST BE TOGETHER
436	(1B4)	ADDRESS	4	CCTTMINT	XEQ TIME MSG INTERVAL
440	(1B8)	ADDRESS	1	CCTTIMOP	EXECUTION TIME OPTION
441	(1B9)	ADDRESS	3		RESERVED

Comment

END OF THE ESTIMATED COUNT FIELDS

End of Comment

444	(1BC)	ADDRESS	3	CCTTO (0)	OWN NODE INFORMATION
444	(1BC)	ADDRESS	2	CCTTONOD	OWN NODE ID (BINARY)
446	(1BE)	ADDRESS	1	CCTTOQUL	OWN NODE SYSTEM ID (EBCDIC)
447	(1BF)	CHARACTER	9	CCTNDE (0)	Node name and length
447	(1BF)	BITSTRING	1	CCTNDENL	Actual length of node name
448	(1C0)	CHARACTER	8	CCTNDENM	NODE NAME
456	(1C8)	ADDRESS	2	CCTNONOD	MAXIMUM NODE NUMBER
458	(1CA)	ADDRESS	2	CCTRUT	HIGHEST DEFINED RJE
460	(1CC)	ADDRESS	4	CCTRRT	ADDR OF RMT ROUTING EQUIV TABLE
464	(1D0)	ADDRESS	4	CCTRDT	ADDRESS OF REMOTE DESTINATION TABLE
468	(1D4)	ADDRESS	4	CCTRDTF	FREE RDT ENTRY STACK
472	(1D8)	ADDRESS	4	CCTRDTB	FIRST RDB (RDT BLOCK)
476	(1DC)	ADDRESS	4	CCTBATMD	Address of the BATCH internal reader model DCT
480	(1E0)	ADDRESS	4	CCTSTCMD	Address of the STC internal reader model DCT
484	(1E4)	ADDRESS	4	CCTTSOMD	Address of the TSO internal reader model DCT
488	(1E8)	ADDRESS	4	CCTIRDRS	ADDRESS OF FIRST INTRDR DCT
492	(1EC)	ADDRESS	4	CCTBATRD	Address of first BATCH- capable internal reader DCT
496	(1F0)	ADDRESS	4	CCTSTCRD	Address of first STC- capable internal reader DCT
500	(1F4)	ADDRESS	4	CCTTSORD	Address of first TSO- capable internal reader DCT
504	(1F8)	ADDRESS	4	CCTIRWT	INTRDR WAIT ELEMENT CHAIN HEADER
508	(1FC)	ADDRESS	4	CCTXITA	ADDRESS OF XIT TABLE
512	(200)	ADDRESS	4	CCTXRTA	ADDRESS OF XRT TABLE

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
516	(204)	ADDRESS	2	CCTNINRS	INTRDR RDINUM + 2 (FOR STC/TSU) (THIS IS THE ACTUAL NUMBER OF CSA DCTS, AND MATCHES \$NUMINRS)
518	(206)	ADDRESS	2	CCTRDINM	Number of Batch-capable internal reader DCTs
520	(208)	ADDRESS	2	CCTSTCNM	Number of STC-capable internal reader DCTs
522	(20A)	ADDRESS	2	CCTTSONM	Number of TSO-capable internal reader DCTs
524	(20C)	BITSTRING	1	CCTFLAG1	FLAG BYTE
524	(20C)	BITSTRING	0	CCT1PRDF	"B'01000000" PREFIX DEFINED
524	(20C)	BITSTRING	0	CCT1SSYS	"B'00100000" CONDEF SCOPE=SYSTEM
524	(20C)	BITSTRING	0	CCT1SSYP	"B'00010000" CONDEF SCOPE=SYSPLEX
524	(20C)	BITSTRING	0	CCT1CKWI	"B'00001000" Coupling facility write is in progress
524	(20C)	BITSTRING	0	CCT1PJSA	"B'00000100" \$PJES2,ABEND issued
524	(20C)	BITSTRING	0	CCT1PJAC	"B'00000010" \$PJES2,ABEND seen
525	(20D)	BITSTRING	1	CCTFLAG2	Flag byte #2 For proper serialization updates to this field should be done via an OIL/NIL.
525	(20D)	BITSTRING	0	CCT2IRDR	"B'10000000" Internal readers can be allocated
525	(20D)	BITSTRING	0	CCT2BATR	"B'01000000" Internal readers can be used to submit BATCH jobs
525	(20D)	BITSTRING	0	CCT2PITC	"B'00100000" PIT(s) with no SJB need to be cleaned up
525	(20D)	BITSTRING	0	CCT2CRCF	"B'00010000" CKPT RECONFIG is pending or is in progress
525	(20D)	BITSTRING	0	CCT2OPRQ	"B'00001000" Operator requested CKPT reconfiguration
525	(20D)	BITSTRING	0	CCT2SAPI	"B'00000100" SAPID scan needed
525	(20D)	BITSTRING	0	CCT2USJB	"B'00000010" One or more SJBs have unspun IOTs to be processed
526	(20E)	BITSTRING	1	CCTDEBUG	Debug options (\$DEBGOPS)
527	(20F)	BITSTRING	1	CCTRSV1	Reserved for future use
528	(210)	SIGNED	4	(0)	ALIGN HFAME'S
528	(210)	CHARACTER	0	CCTCKPT1	CKPT1 HFAME
528	(210)	CHARACTER	0	CCTCKPT2	CKPT2 HFAME
528	(210)	SIGNED	4	CCTSEGLM	SEGMENT LIMIT FOR A GIVEN SYSOUT DATA SET
532	(214)	SIGNED	4	CCTSPLCL	MAX SPECIAL LOCAL ROUTE

Comment

CONSOLE SERVICE ELEMENTS

End of Comment

536	(218)	BITSTRING	4	CCTCKCON	Console ID for operator requested CKPT reconfig.
540	(21C)	SIGNED	4	CCTDOM86	DOM ID for HASP086
544	(220)	ADDRESS	4	CCTCOMMQ	COMMAND PROCESSOR QUEUE
548	(224)	ADDRESS	4	CCTCOMCT	CMBS RESERVED FOR COMMANDS
552	(228)	SIGNED	4	CCTNMCUR	Current number notify CMBs
556	(22C)	SIGNED	4	CCTNMMAX	Maximum no.of notify CMBs
560	(230)	SIGNED	4	CCTNMFAL	No. of NOTIFY failures
564	(234)	ADDRESS	4	CCTINFO	Addr of installation info for version SSI call
568	(238)	ADDRESS	4	CCTSINFO	Addr of system information for version SSI call
572	(23C)	ADDRESS	4	(3)	Reserved for future use

Comment

CROSS-SYSTEM REQUESTS CONTROL INFORMATION. THIS MUST BE MAINTAINED WITH COMPARE AND SWAP. NEW CROSS-SYSTEM REQUESTS ACCEPTED INDICATOR AND COUNT OF CROSS SYSTEM SERVICE REQUESTS (SPOOL DATA SET BROWSE AND JOB INFORMATION SERVICES). INITIALIZED BY HASPIRMA.

End of Comment

584	(248)	DBL WORD	8	CCTXSYS (0)	DOUBLE WORD FOR CDS
584	(248)	BITSTRING	3		RESERVED FOR IBM USE
587	(24B)	BITSTRING	1	CCTXSYSF	CROSS-SYSTEM REQUESTS ACCEPTED FLAG
587	(24B)	BITSTRING	0	CCTNXSYS	"X'01" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
588	(24C)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S
Comment					
<p>\$\$POST ELEMENTS -- REQUESTS FOR PCE SERVICE These post elements match order of PCEs listen in HCT. Any change made here must also be reflected in HCT.</p>					
End of Comment					
592	(250)	DBL WORD	8	CCTECF (0)	ECF FIELD FOR \$\$POST, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE \$POSTED
592	(250)	ADDRESS	4	CCTPCEPE (0)	START OF PCE \$\$POST ELEMENTS
592	(250)	BITSTRING	1	CCTCOMM	\$COMMPCE - COMMANDS
593	(251)	BITSTRING	1	CCTJOB	\$EXECPCPE - XEQ SERVICES
593	(251)	BITSTRING	0	CCTJOBPF	"X'80" Job post flag
594	(252)	BITSTRING	1	CCTASYNC	\$ASYNPCE - ASYNCH I/O
595	(253)	BITSTRING	1	CCTXSTIM	\$XTIMPCE - TIME EXCESSION
596	(254)	BITSTRING	1	CCTTIMER	\$TIMEPCE - STIMER
597	(255)	BITSTRING	1	CCTTRPCE	\$TRCPCE - EVENT TRACE LOG
598	(256)	BITSTRING	1	CCTSPOOL	\$SPOLPCE - SPOOL
599	(257)	BITSTRING	1	CCTMLLM	\$MLLMPCE - LINE MANAGER
600	(258)	BITSTRING	1	CCTOFFM	\$SOMPCE - SPOOL OFFLOAD
601	(259)	BITSTRING	1	CCTCKPTP	\$CKPTPCE - CHECKPOINT
602	(25A)	BITSTRING	1	CCTRCPC	\$MCONPCE -Remote Console
603	(25B)	BITSTRING	1	CCTSSPCE	\$SFSPCE -Schedulr Service
604	(25C)	BITSTRING	1	CCTENFP	\$ENFPCE - ENF LISTEN PCE
604	(25C)	X'D	0	CCTPCENO	** -CCTPCEPE" NUMBER OF PCE \$\$POST ELMTS
605	(25D)	BITSTRING	3	CCTPCEFL	Reserved - fill to boundry
608	(260)	ADDRESS	4	CCTDCTMD	STORAGE FOR IRDCT MODELS
Comment					
<p>----- DECLARE THE MAJOR NAME AND FIELD TO HOLD THIS SUBSYSTEM'S NAME FOR ENQ/DEQ USE OF THE CSA CELL FIELDS. -----</p>					
End of Comment					
612	(264)	CHARACTER	8	CCTQNAM (0)	QNAME FOR ALL HASP ENQS
612	(264)	CHARACTER	4		'SYSZ'
Comment					
<p>----- NEXT THREE FIELDS MUST BE KEPT TOGETHER FOR USE WITH RACROUTE -----</p>					
End of Comment					
616	(268)	CHARACTER	8	CCTSNV (0)	JES NAME AND VERSION
616	(268)	CHARACTER	4	CCTSSNM	NAME OF SUBSYSTEM
620	(26C)	CHARACTER	4	CCTSSVS	VERSION, RELEASE, MOD
624	(270)	BITSTRING	1	CCTSSNML	HOLDS ACTUAL LENGTH OF SUBSYSTEM NAME IN CCTSSNM FIELD
625	(271)	BITSTRING	1	(3)	Reserved for future use
Comment					
<p>CHAINING FIELD FOR THE CSA CELL SERVICES. \$GETCEL AND \$FRECEL IN HASCLINK. ALSO, THE CELL STORAGE ALLOCATED AND CELL STORAGE ALLOCATED BUT NOT IN USE FIELDS.</p>					
End of Comment					
628	(274)	ADDRESS	4	CCTCSACH	CSA CELL CHAIN HEADER

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
632	(278)	SIGNED	4	CCTCALLC	CSA ALLOCATED CELL STORAGE
636	(27C)	SIGNED	4	CCTCFREE	CSA FREE CELL STORAGE
Comment					
----- MINOR RESOURCE NAME FOR INTERNAL READER RESOURCE -----					
End of Comment					
640	(280)	CHARACTER	8	CCTDRSC	Minor name for internal reader resource
Comment					
----- Minor resource name for ENQ/DEQ of SVJ Lock -----					
End of Comment					
648	(288)	CHARACTER	8	CCTSVJLK	RNAME name for SVJ lock resource
Comment					
----- Minor resource name for ENQ/DEQ of SAPID lock -----					
End of Comment					
656	(290)	CHARACTER	8	CCTSAPLK	RNAME name for SAPID lock resource
Comment					
<p>Communication queues and WAIT/POST elements for main task communication with user address spaces.</p> <p>-----</p> <p>Cross-memory POST parameter list for use by \$\$POST. The ECB address actually points to a piece of fixed CSA containing the ECB, CCTPOSTW, and CCTBLANKs.</p> <p>-----</p> <p>CTPOSTE POST - , POST word 1 = main task ECB addr ASCB= - , POST word 2 = JES2 ASCB addr ERRET=CCTBR14 POST word 3 = CCTBR14 ECBKEY=YES POST word 4 = Key of ECB MACDATE 07/02/90</p>					
End of Comment					
664	(298)	ADDRESS	4	CCTPOSTE	. 1ST WORD - ECB ADDRESS
668	(29C)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
672	(2A0)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
676	(2A4)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
676	(2A4)	X'98	0	CCTHECBA	"CCTPOSTE" ADDRESS OF MAIN HASP ECB
676	(2A4)	X'9C 00004'	0	CCTASCB	"CCTPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
676	(2A4)	X'A4 00001'	0	CCTHECBK	"CCTPOSTE+12,1" Storage key of HASP ECB
676	(2A4)	X'4	0	CCTPOSTW	"4" OFFSET TO \$\$POST WORK INDICATOR
676	(2A4)	X'8	0	CCTBLANK	"8" 48 FIXED BLANKS
676	(2A4)	X'38	0	CCTFIXL	"4+1+3+48" LENGTH OF FIXED CSA SPACE
680	(2A8)	SIGNED	4	(0)	Align CCTCGECB
680	(2A8)	BITSTRING	1	CCTCGECB	CSA general ECB/XECB

Offsets

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

The SJB job communication queues.					

HASCSRJB is dependent on any SJB queue that could be a valid value for the SJBQUEUE field in the SJB to be between CCTSJBB and CCTSJBE.					
End of Comment					
680	(2A8)	ADDRESS	4	CCTSJBB (0)	Beginning of SJB queues <----
680	(2A8)	ADDRESS	4	CCTJPCLS	SJBS PENDING JOB-BY-CLASS I
684	(2AC)	ADDRESS	4	CCTJPWLM	SJBS PENDING WLM init I
688	(2B0)	ADDRESS	4	CCTJPNUM	SJBS PENDING JOB-BY-NUMBER I
692	(2B4)	ADDRESS	4	CCTJXCLS	SJBS EXECUTING JOB-BY-CLASS I
696	(2B8)	ADDRESS	4	CCTJXNUM	SJBS EXECUTING JOB-BY-NUMBER I
700	(2BC)	ADDRESS	4	CCTJTERM	SJBS WITH JOBS TO TERMINATE I
704	(2C0)	ADDRESS	4	CCTJRENQ	SJBS WITH JOBS TO RE-ENQUEUE I
708	(2C4)	ADDRESS	4	CCTSJBE (0)	End of SJB queues <----
Comment					

The CCTSFLG bits are serialized by OIL and NIL compare and swap logic.					
The code in HASPJOS is dependent on CCTSFLG being the first byte in CCTSWORD.					

End of Comment					
708	(2C4)	SIGNED	4	CCTSWORD (0)	Set up for CS of CCTSFLG <-I
708	(2C4)	BITSTRING	1	CCTSFLG	SJB Recovery flags <-I
708	(2C4)	BITSTRING	0	CCTSJBR	"B'10000000" The SJB queues have been rebuilt - post ext writers
708	(2C4)	BITSTRING	0	CCTWPOS	"B'01000000" The XWTRPOST code in HASPJOS is posting the ext writers
Comment					

EQU B'00111111' RESERVED for future use					
THE CCTTRIDS BYTES SERVE A DUAL PURPOSE. THE TRACE ID BIT DEFINITIONS START WITH BIT 0 AND USE INCREASING BIT NUMBERS WHILE THE SSI FUNCTION BIT DEFINITIONS START AT BIT 7 AND USE DECREASING BIT NUMBERS. UNUSED BITS IN THE MIDDLE ARE RESERVED FOR FUTURE USE. SEE THE CCTTRIDS BIT DEFINITIONS NEAR THE BOTTOM OF THE \$HCCT MACRO FOR FURTHER DETAILS.					
End of Comment					
709	(2C5)	BITSTRING	1	(2)	RESERVED FOR FUTURE USE
711	(2C7)	BITSTRING	1	CCTTRFLG	TRACE FACILITY FLAG BYTE
711	(2C7)	BITSTRING	0	CCTTRACT	"B'10000000" EVENT TRACING ACTIVATED
711	(2C7)	BITSTRING	0	CCTTRLOG	"B'01000000" EVENT TRACE LOG ACTIVE
712	(2C8)	BITSTRING	256	CCTTRIDS	TRACE/SSI BYTE TABLE
712	(2C8)	X'C9 00001'	0	CCTTIDTB	"CCTTRIDS+1,1,C'X" TRACE ID=1-255. (ID=0 IS USED INTERNALLY FOR DISCARDING)
712	(2C8)	BITSTRING	0	CCTTRDEF	"B'10000000" TRACE ID IS DEFINED
712	(2C8)	BITSTRING	0	CCTTRDON	"B'01000000" TRACE ID IS BEING TRACED
712	(2C8)	BITSTRING	0	CCTSSION	"B'00000001" SSI FUNCTION BEING TRACED
968	(3C8)	SIGNED	4	(0)	ENSURE CCTTRBTH IS ON FULLWORD
968	(3C8)	SIGNED	8	CCTTRBTH (0)	NEXT TWO FIELDS STAY TOGETHER
968	(3C8)	ADDRESS	4	CCTTRTBL	ADDRESS OF CURRENT TRACE TABLE
972	(3CC)	ADDRESS	4	CCTTRLGG	ADDR OF TABLE BEING LOGGED
976	(3D0)	ADDRESS	4	CCTTRPLG	ADDR OF PREVIOUS LOG TABLE

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
980	(3D4)	SIGNED	4	CCTTRSIZ	TRACE TABLE SIZE (IN BYTES)
984	(3D8)	ADDRESS	4		RESERVED FOR FUTURE USE
992	(3E0)	DBL WORD	8	CCTTRTOT (0)	NEXT TWO FIELDS ARE CDS
992	(3E0)	SIGNED	4	CCTTRRLC	COUNT OF RECENT DISCARDS
996	(3E4)	SIGNED	4	CCTTRCTL	COUNT OF TOTAL DISCARDS
1000	(3E8)	SIGNED	4	CCTTRCUR	COUNT OF CURRENT TRACE TABLES
1004	(3EC)	SIGNED	4	CCTTRNEW	COUNT OF TARGET TRACE TABLES
1008	(3F0)	SIGNED	4	CCTTRFRE	COUNT OF FREE TRACE TABLES
1012	(3F4)	ADDRESS	4	CCTDM654	ADDRESS OF DOMID FOR 654 MSG
1016	(3F8)	SIGNED	4	CCTTM654	TIME THE 654 MSG WAS ISSUED
1020	(3FC)	ADDRESS	2	CCTTRCPG	TRACEDEF PAGES PARAMETER
1022	(3FE)	ADDRESS	2	CCTTRCWP	HASP050 WARNING PERCENTAGE
1024	(400)	SIGNED	4	CCTTRLGS	TRACE LOG SPIN SIZE, IN LINES
1028	(404)	CHARACTER	1	CCTTRCLS	TRACE LOG SYSOUT CLASS
1029	(405)	ADDRESS	3		RESERVED FOR FUTURE USE

Comment

MISCELLANEOUS SERVICE QUEUES, ADDRESSES AND COUNTS

End of Comment

1032	(408)	ADDRESS	4	CCTAUXCB	Addr of AUX AS Work area
1036	(40C)	ADDRESS	4	CCTETDEF	Common PC routines ETDEFs
1040	(410)	SIGNED	4	CCTSLSX	JES2's system LX
1044	(414)	ADDRESS	4	CCTXASCB	AUX address space ASCB
1048	(418)	ADDRESS	4	CCTCBRT	\$CATBERT pointer
1052	(41C)	ADDRESS	4	CCTBMAPS	BERT translation maps
1056	(420)	SIGNED	4	CCTSLKST	Number of times \$SJBLOCK was stolen - update using CS logic
1060	(424)	SIGNED	4	CCTSLKUS	Number of times \$SJBLOCK was usurped - update using CS logic
1064	(428)	DBL WORD	8	CCTTSCS	SJBS FOR CANCEL/STATUS
1072	(430)	DBL WORD	8	CCTSCPND	CANCEL/STATUS PENDING QUEUE FOR MAIN TASK USE ONLY
1080	(438)	DBL WORD	8	CCTPSOQ	SJBS FOR PROCESS SYSOUT
1088	(440)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1092	(444)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1096	(448)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1100	(44C)	ADDRESS	4	CCTPRGQ	PURGED PSO QUEUE
1104	(450)	DBL WORD	8	CCTPSOFF	PSO FIFO QUEUE
1112	(458)	DBL WORD	8	CCTPSPND	PENDING PSO QUEUE - FOR USE BY THE MAIN TASK ONLY
1120	(460)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1120	(460)	ADDRESS	4	CCT1SAP	Address of first SAPIID in | the SAPIID data space |
1124	(464)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1128	(468)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPIID
1132	(46C)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1136	(470)	ADDRESS	4	CCTIOERR	SPOOL PROCESSOR I/O ERROR QUEUE
1140	(474)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue

Comment

Following fields contain the queue heads and counts for resource management of Scheduler Facility Service SFRBs acquired in ECSA. The CCTSFREQ/CCTSSRCT fields are serialized using CDS and must be kept in a doubleword.

End of Comment

1144	(478)	DBL WORD	8	CCTSFREQ (0)	Scheduler Facility Request Q
1144	(478)	ADDRESS	4		Request queue header
1148	(47C)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1152	(480)	ADDRESS	4	CCTSFPNQ	Scheduler Facility Pending Q
1156	(484)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1160	(488)	ADDRESS	4	CCTSFPRQ	Scheduler Facility Process Q

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1164	(48C)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1168	(490)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1172	(494)	BITSTRING	1	CCTSSSTAT	Status flag for Sched.Serv
1172	(494)	BITSTRING	0	CCTSSDWN	"B'10000000" Scheduler PCE disabled
1172	(494)	BITSTRING	0	CCTSSDIS	"B'01000000" Scheduler PCE disabling
1173	(495)	ADDRESS	3		Reserved for future IBM use
1176	(498)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN
1180	(49C)	ADDRESS	4	CCTTOKA	Address of JES2 token
1184	(4A0)	ADDRESS	4	CCTPIT	ADDR OF FIRST INITIATOR PIT
1188	(4A4)	ADDRESS	2	CCTPITNM	NUMBER OF PITS IN CSA
1190	(4A6)	ADDRESS	2	(3)	RESERVED FOR FUTURE USE

Comment

SPOOL DATA MANAGEMENT

End of Comment

1196	(4AC)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR \$STRAK AND \$TRACK
1200	(4B0)	ADDRESS	4	CCTPddb1	OFFSET WITHIN IOT OF 1ST Pddb
1204	(4B4)	ADDRESS	4	CCTTGAEI	TGAE AREA LENGTH FOR A NON-SPIN PRIMARY ALLOCATION IOT
1208	(4B8)	ADDRESS	2	CCTBFSIZ	SPOOL BUFFER SIZE
1210	(4BA)	SIGNED	2	CCTNSPL	Max number of spool volumes
1210	(4BA)	X'BB 00001'	0	CCTNSPB	"CCTNSPL+1,1" allowed (one byte version)
1212	(4BC)	ADDRESS	1	CCTRINCR	RECORD ALTERNATION PARAMETER
1213	(4BD)	ADDRESS	1	CCTTKCEL	TRAKCELL SIZE IN BUFFERS
1214	(4BE)	SIGNED	2		Reserved for future use
1216	(4C0)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance
1216	(4C0)	BITSTRING	0	CCTMTSPL	SPOOLS WHICH HAVE SPACE
1216	(4C0)	BITSTRING	0	CCTSPLAF	Spools with affinity for this member
1216	(4C0)	BITSTRING	0	CCTVBLOB	Spools with space in the BLOB
1216	(4C0)	ADDRESS	4	CCTDAS1	ADDRESS OF FIRST DAS
1220	(4C4)	BITSTRING	12	CCTTGBA (0)	TGB VALUES FOR BLOB
1220	(4C4)	ADDRESS	4	CCTTGBF	FIRST TGB ENTRY ADDRESS
1224	(4C8)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
1228	(4CC)	ADDRESS	4	CCTTGBL	Last TGB entry
1232	(4D0)	ADDRESS	4	CCTKBYTS	THOUSANDS OF BYTES OF SPOOL
1236	(4D4)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER
1237	(4D5)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
1238	(4D6)	ADDRESS	2		RESERVED FOR FUTURE USE
1240	(4D8)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
1240	(4D8)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB
1244	(4DC)	ADDRESS	4	CCTTGECB	TGB REQUEST ECB

Comment

RETURN CONTROL ELEMENTS

End of Comment

1250	(4E2)	ADDRESS	2		RESERVED FOR FUTURE USE
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Comment

MAIN TASK AUTHORIZATION INDEX FOR CROSS MEMORY

End of Comment

1252	(4E4)	SIGNED	4	CCTAXL (0)	AUTHORIZATION INDEX (AX) LIST
1252	(4E4)	SIGNED	2	CCTAXN	NUMBER OF AXS REQUESTED
1254	(4E6)	SIGNED	2	CCTAXV	VALUE (AX) RETURNED BY AXRES

\$HCCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
DATA BLOCKS					
End of Comment					
1216	(4C0)	X'C0	0	CCTDCB	*** SYS1.HASPACE DCB
1256	(4E8)	ADDRESS	4	(3)	12-BYTE MEAT OF DCB
1268	(4F4)	ADDRESS	4	CCTDEB	ADDR OF JES2 DIRECT ACCESS DEB
Comment					
SWB MANAGEMENT					
End of Comment					
1272	(4F8)	ADDRESS	4	CCTKEYTB	ADDRESS OF KEYLIST TABLE
1280	(500)	DBL WORD	8	CCTJDVT	SJF JDVT NAME
Comment					
GENERIC GROUPING KEY LISTS.					
End of Comment					
1288	(508)	SIGNED	2	CCTGGDKN	NUMBER OF GROUPING KEYS FOR SYSTEM-DEFAULT JDVT
1290	(50A)	CHARACTER	2	CCTGGRSV	RESERVED FOR FUTURE USE
1292	(50C)	ADDRESS	4	CCTGGDKL	ADDRESS OF KEY LIST FOR SYSTEM-DEFAULT JDVT
1296	(510)	ADDRESS	4	CCTGGDKB	ADDRESS OF KEY LIST BLOCK FOR SYSTEM-DEFAULT JDVT
1300	(514)	ADDRESS	4	CCTGGFKB	ADDRESS OF KEY LIST BLOCK FOR FIRST NON-DEFAULT JDVT
1304	(518)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
1308	(51C)	ADDRESS	4	CCTPJCLQ	Address of main task queue header for PJCL requests
Comment					
Data space control block (DSB) anchors					
End of Comment					
1312	(520)	ADDRESS	4	CCTDSB	Anchor for all JES2 DSBs
1316	(524)	ADDRESS	4	CCTDSINR	ADDR OF DATASPACE BLOCK FOR INTERNAL READER PROTECTED BUFFER DATASPACE
Comment					
Routine addresses for the MVS callable services.					
End of Comment					
1320	(528)	ADDRESS	4	CCTCPLB	MVS CPOOL BUILD ROUTINE
1324	(52C)	ADDRESS	4	CCTCPLX	MVS CPOOL EXPAND ROUTINE
1328	(530)	ADDRESS	4	CCTCPLF	MVS CPOOL FREE ROUTINE
1332	(534)	ADDRESS	4	CCTCPLG	MVS CPOOL GET ROUTINE
1336	(538)	ADDRESS	4	CCTCPLM	MVS CPOOL MODIFY ROUTINE
1340	(53C)	ADDRESS	4	CCTCPLQC	MVS CPOOL QUERY CELL RTN
1344	(540)	ADDRESS	4	CCTCPLQX	MVS CPOOL QUERY EXTENT RTN
1348	(544)	ADDRESS	4	CCTCPLQP	MVS CPOOL QUERY POOL RTN
1352	(548)	ADDRESS	4	CCTNTRC	MVS NAME/TOKEN Create rtn
1356	(54C)	ADDRESS	4	CCTNTRT	MVS NAME/TOKEN Retrieve rtn
1360	(550)	ADDRESS	4	CCTNTDL	MVS NAME/TOKEN Delete rtn
1364	(554)	SIGNED	4	(4)	RESERVED FOR FUTURE USE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
XCF Group token					
End of Comment					
1380	(564)	ADDRESS	4	CCTIXVT	XCF Group token
1384	(568)	CHARACTER	8	CCTGPNM	XCF group name
1392	(570)	ADDRESS	4	CCTSDADR (0)	Address of ECB extension with bits on indicating initialized
1396	(574)	SIGNED	4	CCTSDECX (0)	ECB Extension for \$EXCP <-- issued in USER environ. | that uses a \$SDB |
1400	(578)	ADDRESS	4	CCTSDPEX	"V(HAMPSTER)" EXCP Post Exit address in | USER environment <--
1404	(57C)	ADDRESS	4	CCTSCATP	Pointer to SCAT
Comment					

Keep the EBCDIC level and binary product/service levels together.					

End of Comment					
1408	(580)	BITSTRING	10	CCTJES2_LEVEL (0)	<---+ Level information
1408	(580)	CHARACTER	8	CCTLEVEL	| OS V.R.M, product version | of JES2, copy of \$LEVEL, | pointed to by SSCTSUSE
1416	(588)	ADDRESS	1	CCTPLVL	| Binary product level
1417	(589)	ADDRESS	1	CCTSLVL	<---+ Binary service level
1418	(58A)	BITSTRING	14		Reserved for future use
Comment					
Queue heads for ENF LISTEN Event processor.					
End of Comment					
1432	(598)	ADDRESS	4	CCTENFLF	LIFO stack of \$EVTs
1436	(59C)	ADDRESS	4	CCTENFFF	FIFO queue of \$EVTs
Comment					
Each time a structure available ENF is received, the JES2 listen exit increments this count. This is used to determine when structures become available for processing.					
End of Comment					
1440	(5A0)	SIGNED	4	CCTXESEV	Structure avail ENF count
Comment					
Patch space for code that uses R11 addressability to the HCCT, and the SYSOUT Class Attribute Table (SCAT). These should be the last HCCT fields.					
End of Comment					
1444	(5A4)	SIGNED	4		Reserved
1448	(5A8)	DBL WORD	8	(0)	
1448	(5A8)	BITSTRING	256	CCTPATCH (2)	Patch spc for R11-HCCT code

\$HCCT Cross Reference

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

Comment					

Use the address in CCTSCATP to reference the SCAT rather than doing a LA of CCTSCAT. This helps to prevent massive reassemblies of modules if the length of \$HCCT is changed in an APAR.					

End of Comment					
1960	(7A8)	SIGNED	2	CCTSCAT (0)	SYSOUT CLASS ATTRIBUTE TABLE
1960	(7A8)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
1960	(7A8)	X' '	0	CCTSTLEN	**_CCTSCAT" LENGTH OF SCAT TABLE
1960	(7A8)	ADDRESS	2	(0)	Force asmbly error if SCAT not last
1960	(7A8)	X'A8 '	0	CCTLEN	**_HCCT" LENGTH OF HCCT

\$HCCT Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value	
CCTABEND	12C	FF		CCTDCTMD	260		
CCTALLFF	78	78		CCTDEB	4F4		
CCTAMVEC	114			CCTDEBUG	20E		
CCTASCB	2A4	9C	00004	CCTDM654	3F4		
CCTASYNC	252	0		CCTDOM86	21C		
CCTAUXCB	408			CCTDSB	520		
CCTAXL	4E4			CCTDSINR	524		
CCTAXN	4E4			CCTDSTFL	133	0	
CCTAXV	4E6			CCTECF	250		
CCTBADA	A8			CCTELCMB	518		
CCTBATMD	1DC			CCTENFFF	59C		
CCTBATRD	1EC			CCTENFLF	598		
CCTBFSIZ	4B8			CCTENFLF	598		
CCTBLANK	2A4	8		CCTENFP	25C	0	
CCTBLNKS	18	40404040		CCTEST1	194		
CCTBMAPS	41C			CCTETDEF	40C		
CCTCADDR	F8			CCTEXTBL	158		
CCTCALLC	278	0		CCTFIFOQ	444		
CCTCBRT	418			CCTFIXL	2A4	38	
CCTCFREE	27C	0		CCTFLAG1	20C	0	
CCTCGECB	2A8			CCTFLAG2	20D	0	
CCTCKCON	218			CCTFMAX	A4	A4	
CCTCKPTP	259	0		CCTFNCNT	4D5	0	
CCTCKPT1	210			CCTFSSCB	498		
CCTCKPT2	210			CCTF1	7C	1	
CCTCOMCH	132	40		CCTF12	90	C	
CCTCOMCT	224			CCTF16	94	10	
CCTCOMM	250	0		CCTF2	80	2	
CCTCOMMQ	220			CCTF255	98	FF	
CCTCPIDX	100			CCTF4	84	4	
CCTCPLB	528			CCTF4096	9C	1000	
CCTCPLF	530			CCTF6	88	6	
CCTCPLG	534			CCTF8	8C	8	
CCTCPLM	538			CCTGGDKB	510		
CCTCPLQC	53C			CCTGGDKL	50C		
CCTCPLQP	544			CCTGGDKN	508		
CCTCPLQX	540			CCTGGFKB	514		
CCTCPLX	52C			CCTGGRSV	50A		
CCTCSACH	274			CCTGPNM	568		
CCTCTABS	FC			CCTHASP	12C		
CCTCUCT	17C			CCTHAVT	128		
CCTDAS1	4C0			CCTHCT	104		
CCTDCB	4C0	C0		CCTHECBA	2A4	98	
				CCTHECBK	2A4	A4	00001

\$HCCT Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
CCTHMAX	A4	A4	00002	CCTOFSTB	8	
CCTHOTST	12C	80		CCTOTINT	19C	
CCTHTCBA	108			CCTPATCH	5A8	0
CCTH1	7C	7E	00002	CCTPCEFL	25D	0
CCTH12	90	92	00002	CCTPCENO	25C	D
CCTH16	94	96	00002	CCTPCEPE	250	
CCTH2	80	82	00002	CCTPDDB1	4B0	
CCTH255	98	9A	00002	CCTPGINT	194	
CCTH4	84	86	00002	CCTPIT	4A0	
CCTH4096	9C	9E	00002	CCTPITNM	4A4	0
CCTH6	88	8A	00002	CCTPJCLQ	51C	
CCTH8	8C	8E	00002	CCTPJES2	12C	1
CCTIINFO	234			CCTPLVL	588	
CCTINXTB	15C			CCTPOSTE	298	
CCTIOERR	470			CCTPOSTW	2A4	4
CCTIRDRS	1E8			CCTPRGQ	44C	
CCTIRWT	1F8			CCTPSOFF	450	0
CCTIXVT	564			CCTPSOQ	438	0
CCTJDVT	500			CCTPSPND	458	0
CCTJES2_LEVEL				CCTPUINT	1AC	
	580			CCTPVRSN	10	
CCTJOB	251	0		CCTQINDX	160	
CCTJOBPF	251	80		CCTQNAM	264	
CCTJPCLS	2A8			CCTRBGN	150	
CCTJPNUM	2B0			CCTRCP	25A	0
CCTJPWLM	2AC			CCTRCPCQ	168	
CCTJRENQ	2C0			CCTRDINM	206	0
CCTJSPL	E9	E8	00009	CCTRDRSC	280	C9D5E3D9
CCTJSPLL	E8			CCTRDT	1D0	
CCTJSPLV	E9	D1C5E2E2		CCTRDTB	1D8	
CCTJSTKN	10C	0		CCTRDTF	1D4	
CCTJTERM	2BC			CCTRINCR	4BC	
CCTJXCLS	2B4			CCTRLMT	154	
CCTJXNUM	2B8			CCTROUT	1CA	0
CCTJ2DSP	148	0		CCTRRT	1CC	
CCTJ2WAT	140	0		CCTRSV1	20F	
CCTKAC	120			CCTSAPIQ	46C	
CCTKBYTS	4D0			CCTSAPLK	290	E2C1D7C9
CCTKEYTB	4F8			CCTSCAT	7A8	
CCTLEN	7A8	A8		CCTSCATP	57C	
CCTLEVEL	580			CCTSCIDS	124	
CCTLMT1	C			CCTSCPND	430	0
CCTLNINT	1A4			CCTSDADR	570	
CCTMEMUP	16C			CCTSDECX	574	
CCTMLLM	257	0		CCTSDPEX	578	
CCTMTSPL	4C0			CCTSEGLM	210	
CCTMVSNM	138	40404040		CCTSFLG	2C4	0
CCTNDE	1BF			CCTSFPNQ	480	
CCTNDENL	1BF	0		CCTSFPQ	488	
CCTNDENM	1C0			CCTSREQ	478	
CCTNEG1	78	FFFFFFFF		CCTSID	134	40404040
CCTNINRS	204	0		CCTSINFO	238	
CCTNMCUR	228			CCTSJBB	2A8	
CCTNMFAL	230			CCTSJBE	2C4	
CCTNMMAX	22C			CCTSJBR	2C4	80
CCTNONOD	1C8	0		CCTSJWEL	468	0
CCTNOUSQ	474			CCTSLKST	420	0
CCTNQCNT	4D4	0		CCTSLKUS	424	0
CCTNSPB	4BA	BB	00001	CCTSLVL	589	
CCTNSPL	4BA	0		CCTSMVFN	130	10
CCTNTCR	548			CCTSNV	268	
CCTNTDL	550			CCTSPINC	448	0
CCTNTRT	54C			CCTSPIOT	440	
CCTNXSYS	24B	1		CCTSPLAF	4C0	
CCTOFFM	258	0		CCTSPCLL	214	

\$HCCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CCTSPPOOL	256	0	CCTTRRLC	3E0	
CCTSRCH	4AC		CCTTRSIZ	3D4	
CCTSSCT	11C		CCTTRTBL	3C8	
CCTSSDIS	494	40	CCTTRTOT	3E0	
CCTSSDWN	494	80	CCTTSCS	428	0
CCTSSION	2C8	1	CCTTSLOK	131	0
CCTSSMAX	490		CCTTSOMD	1E4	
CCTSSNCT	484		CCTTSOINM	20A	0
CCTSSNM	268	5C5C5C5C	CCTTSORD	1F4	
CCTSSNML	270	0	CCTUCADD	180	
CCTSSPCE	25B	0	CCTUSER1	184	
CCTSSPCT	48C		CCTUSER2	188	
CCTSSRCT	47C		CCTUSER3	18C	
CCTSSSTAT	494	0	CCTUSER4	190	
CCTSSVS	26C	5C5C5C5C	CCTVBLOB	4C0	
CCTSSVT	F4		CCTVRNUM	0	9
CCTSTCMD	1E0		CCTVRSN	0	
CCTSTCNM	208	0	CCTWPOS	2C4	40
CCTSTCRD	1F0		CCTXASCB	414	
CCTSTIRV	130	8	CCTXESEV	5A0	
CCTSTLEN	7A8		CCTXITA	1FC	
CCTSTPJF	130	4	CCTXMAQ	164	
CCTSTRPL	130	1	CCTXRTA	200	
CCTSTUS	130	0	CCTXSTIM	253	0
CCTSTUSP	130	80	CCTXSYS	248	
CCTSTUSR	130	20	CCTXSYSF	24B	0
CCTSTUST	130	40	CCTXSYSN	24C	0
CCTSVJLK	288	E2E5D140	CCTZERO	38	38
CCTSWORD	2C4		CCTZEROS	38	0
CCTSYSXLX	410	0	CCT0FFF	A0	FFFFFF
CCTTGAEL	4B4		CCT000F	98	98
CCTTGASC	4D8		CCT1CKWI	20C	8
CCTTGABA	4C4		CCT1PJAC	20C	2
CCTTGBF	4C4		CCT1PJSA	20C	4
CCTTGBL	4CC		CCT1PRDF	20C	40
CCTTGBS	4C8		CCT1SAP	460	
CCTTGECB	4DC		CCT1SAPC	464	0
CCTTIDTB	2C8	C9	CCT1SSYP	20C	10
CCTTIMER	254	0	CCT1SSYS	20C	20
CCTTIMOP	1B8		CCT2BATR	20D	40
CCTTKCEL	4BD		CCT2CRCF	20D	10
CCTTMINT	1B4		CCT2IRDR	20D	80
CCTTM654	3F8		CCT2OPRQ	20D	8
CCTTO	1BC		CCT2PITC	20D	20
CCTTOKA	49C		CCT2SAPI	20D	4
CCTTONOD	1BC	0	CCT2USJB	20D	2
CCTTOQUL	1BE		CCT7FFF	A4	7FFFFFFF
CCTTRACT	2C7	80			
CCTTRBTH	3C8				
CCTTRCLS	404				
CCTTRCPG	3FC				
CCTTRCTL	3E4				
CCTTRCUR	3E8				
CCTTRCWP	3FE				
CCTTRDEF	2C8	80			
CCTTRDON	2C8	40			
CCTTRFLG	2C7	0			
CCTTRFRE	3F0				
CCTTRIDS	2C8	0			
CCTTRLGG	3CC				
CCTTRLGS	400				
CCTTRLOG	2C7	40			
CCTTRNEW	3EC				
CCTTRPCE	255	0			
CCTTRPLG	3D0				

\$HCT Programming Interface information

Programming Interface information

\$HCT

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

- \$BERTPTR
- \$CALCUR
- \$CALONE
- \$CHLOG
- \$CHLOGLN
- \$CKC
- \$CKG1
- \$CKG2
- \$CKPTFG1
- \$CKPTFG2
- \$CKPTFG3
- \$CKPTFG4
- \$CKPTFG5
- \$CKPTFLG
- \$CKPTIO
- \$CKPTPTR
- \$CKRECN
- \$CKW
- \$CLCB
- \$CTLB
- \$CTLBIO
- \$CTLBX
- \$CURPCE
- \$DILHEAD
- \$DILPCE
- \$DILTAIL
- \$DRQUES
- \$ECBEXTN
- \$EXTECBQ
- \$FIXCHLG
- \$FIXLIST
- \$HASCB
- \$HASPDCB
- \$HASPECB
- \$HASPECF
- \$HASPRB
- \$JQXPTR
- \$KITPTR
- \$LCKPTR
- \$MASECF
- \$MASTER
- \$MASTERI
- \$MASTERL
- \$MLLMECF
- \$MSTRID
- \$MSTRVER
- \$MSTRVRN
- \$MVSDISP
- \$MVSWAIT
- \$NWECEB
- \$PCELAST
- \$PCEORG
- \$READY
- \$READYF
- \$READYL
- \$SPIPCE
- \$SPLCNT
- \$TBLNUM
- \$TGBAD
- \$TGMADDR
- \$TGMAP
- \$TGMHEAD
- \$VERSACT
- \$VERSINI
- \$VERSKPT
- \$VERSSTT
- \$WCHECK
- \$XECBQ
- \$XECBQF
- \$XECBQL

End of Programming Interface information

\$HCT Heading Information

Common Name: HASP Communication Table
Macro ID: \$HCT
DSECT Name: HCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MIT entry for HASPNUC ('MIT HASPNUC ')
Offset: HASPCT-HCT
Length: 12

Storage Attributes: Subpool: The subpool of the HASJES20 load module.
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space. The storage is page fixed.

Size: See HCTLEN

Created by: The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.

Pointed to by:

- As one of the key JES2 control blocks for processing from the JES2 address space, the HCT address is usually in general purpose register 11 in the assembly environments known as JES2 and SUBTASK.
- The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT.
- The HCT is at the front of the HASJES20 load module so the module storage address in the MVS CDE for HASJES20 points to the HCT.
- The CCTHCT field of the HCCT common storage control block points to the HCT.
- The DTEHCT field in each JES2 subtask's DTE control block points to the HCT.
- The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.

Serialization:

- Serialization depends on the field in question.
- Fields might be serialized via Compare-and-swap.
- Fields might be serialized implicitly, by being changeable only by the JES2 main task.
- Fields might be serialized by the LOCAL/CMS locks.
- Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor.
- Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues (\$QSUSE).
- Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a \$WAIT).

Function: The \$HCT is the major JES2 control block when executing code which was generated in the JES2 or subtask assembly environment. Register 11 will normally point to this control block in those environments.

The \$HCT contains routine addresses, pointers to data structures, constants, work areas, fields which contain current values for various types of parameters, a checkpointed section, patch space, Etc..

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCT	, HASP Communications Table
0	(0)	BITSTRING	0		HASPNUC Module Info Table
0	(0)	CHARACTER	8	\$VERSION	Obsolete. Permanently set to SP 5.3.0 (Do not remove)
8	(8)	CHARACTER	8	\$UVERS	Installation version of the JES2 product defined when HASPNUC was assembled
16	(10)	CHARACTER	1	\$MACVERS	SP version of MVS maclibs used to assemble HASPNUC
17	(11)	ADDRESS	1		RESERVED FOR FUTURE USE
18	(12)	ADDRESS	2	\$SAVEBOF	Offset to \$SAVEBEG (used by IPCS logic)
Comment					
Pointer to HASP module directory and LMT anchors					
End of Comment					
20	(14)	ADDRESS	4	\$HASPMPAP	"V(\$REPTABL)" HASP MODULE DIRECTORY ADDRESS
24	(18)	ADDRESS	4	\$LMT1	Addr of 1st Pvt LMT, if any
28	(1C)	ADDRESS	4	\$LMT1C	Addr of 1st CSA LMT, if any
32	(20)	ADDRESS	4	\$LMTPBOT	Addr of bot'm PVT LMT entry
Comment					
WAIT ELEMENTS, EACH SET MUST STAY TOGETHER					
End of Comment					
36	(24)	ADDRESS	4	\$HASPECB	ADDR OF HASP EVENT CONTROL BLK
40	(28)	SIGNED	4	\$ECBEXTN (0)	ECB EXTENSION FOR POST
44	(2C)	ADDRESS	4	\$DSPXITA	"V(HASPPXIT)" EXIT DISPATCHING
48	(30)	SIGNED	4	\$XFRECBX (0)	ECB EXTENSION FOR SPOOL OFFLOAD
52	(34)	ADDRESS	4	\$POSTEXA	"V(\$POSTEX)" DECB'S .. SPECIFIES POST EXIT
56	(38)	SIGNED	4	\$XCPECBX (0)	ECB EXTENSION FOR \$EXCP
60	(3C)	ADDRESS	4	\$EXCPEXA	"V(\$IOPSTEX)" EXCP POST EXIT
64	(40)	ADDRESS	4	\$NWEBC	ECB FOR MISCELLANEOUS USES OF MVS ASYNCHRONOUS SERVICES BY PCES THAT WON'T WAIT ON IT (PAGEFIX)
Comment					
ENTRIES TO HASP UNIT SERVICES					
End of Comment					
68	(44)	ADDRESS	4	\$GETDEVA	"V(\$GETUNIT)" ENTRY TO HASP UNIT 'GET' ROUTINE
72	(48)	ADDRESS	4	\$FREDEVA	"V(\$FREUNIT)" ENTRY TO HASP UNIT 'FREE' RTN
76	(4C)	ADDRESS	4	\$GETUCBA	"V(\$GETUCBS)" ENTRY TO OBTAIN UCB ADDRESS
80	(50)	ADDRESS	4	\$FREUCBA	"V(\$FREUCBS)" ENTRY TO FREE STORAGE FOR UPL
84	(54)	ADDRESS	4	\$DYNADDR	"V(\$DYN)" DYNAMIC ALLOCATE/UNALLOCATE
Comment					
Addresses of Remote Work Lookup tables					
End of Comment					
88	(58)	ADDRESS	4	\$RWL	"V(HASPRWL)" Address of table
92	(5C)	ADDRESS	4	\$RWLRDRS	"V(HASPRWLR)" Remote reader sub-table
96	(60)	ADDRESS	4	\$RWLPRTS	"V(HASPRWLP)" Remote printer sub-table
100	(64)	ADDRESS	4	\$RWLPUNS	"V(HASPRWLU)" Remote punch sub-table

\$HCT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ENTRIES TO MISCELLANEOUS SERVICE ROUTINES					
End of Comment					
104	(68)	ADDRESS	4	\$JCAN	"V(\$JCANR)" ENTRY TO JOB CANCEL ROUTINE
108	(6C)	ADDRESS	4	\$BFRBLD	"V(\$BFRBLDR)" ENTRY TO BUFFER BUILD ROUTINE
112	(70)	ADDRESS	4	\$COMMQTP	QUEUE OF CMBS FROM RDR/RTAM
Comment					
ENTRIES TO DIRECT ACCESS SPACE SERVICES					
End of Comment					
116	(74)	ADDRESS	4	\$BLDTGBA	"V(\$BLDTGB)" ENTRY TO BLDTGB ROUTINE
120	(78)	ADDRESS	4	\$TGMSETA	"V(\$TGMSET)" ENTRY TO TGMSET ROUTINE
124	(7C)	ADDRESS	4	\$TRACK	"V(\$TRACKR)" ENTRY TO TRACK ALLOCATION ROUTINE
Comment					
ENTRIES TO HASP CONSOLE SERVICES					
End of Comment					
128	(80)	ADDRESS	4	\$WTO	"V(\$WTOR)" ENTRY TO \$WTO ROUTINE
132	(84)	ADDRESS	4	\$WTOC	"V(\$WTOCR)" ENTRY TO \$WTO WITH CMB ROUTINE
136	(88)	ADDRESS	4	\$DOM	"V(\$DOMR)" ENTRY TO HASP DOM ROUTINE
140	(8C)	ADDRESS	4	\$FRECMB	"V(\$FRECMBR)" ENTRY TO FREE CMB ROUTINE
Comment					
ENTRIES TO HASP INPUT/OUTPUT SERVICES					
End of Comment					
144	(90)	ADDRESS	4	\$EXCPA	"V(\$EXCP)" ENTRY TO EXCP ROUTINE
148	(94)	ADDRESS	4	\$EXTP	"V(\$HASPEXTP)" ENTRY TO RTAM SERVICE ROUTINES
Comment					
ENTRIES TO HASP SMF BUFFER SERVICES					
End of Comment					
152	(98)	ADDRESS	4	\$QUESMFA	"V(\$QUESMFB)" ENTRY TO QUEUE SMF BUFFER
156	(9C)	ADDRESS	4	\$GETSMFA	"V(\$GETSMFB)" ENTRY TO 'GET' SMF BUFFER
Comment					
ENTRIES TO HASP INTERVAL TIMER SERVICES					
End of Comment					
160	(A0)	ADDRESS	4	\$STIMERA	"V(\$STIMER)" ENTRY TO HASP SET TIMER ROUTINE
164	(A4)	ADDRESS	4	\$TTIMERA	"V(\$TTIMER)" ENTRY TO HASP TEST TIMER ROUTINE
Comment					
ENTRIES TO HASP ERROR SERVICES					
End of Comment					
168	(A8)	ADDRESS	4	\$IOERROR	"V(\$IOERRTN)" ENTRY TO I/O ERROR LOGGING RTN
172	(AC)	ADDRESS	4	\$SDUMPR	"V(\$SDUMP)" ENTRY TO SVC DUMP ROUTINE
176	(B0)	ADDRESS	4	\$DISTERR	"V(\$DSTERR)" ENTRY TO DISASTROUS ERROR RTN
180	(B4)	ADDRESS	4	\$STABNDA	"V(\$STABEND)" ENTRY TO SUBTASK ESTAE RTN

Offsets

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

ENTRIES TO HASP WITHDRAWL SERVICES

End of Comment

184	(B8)	ADDRESS	4	\$HEXITA	"V(\$HEXIT)" ENTRY FROM COMMAND PROCESSOR
188	(BC)	ADDRESS	4	\$HEXTINT	"V(\$HEXTINIT)" ENTRY FROM HASP ENTRY POINT RTN

Comment

ENTRIES TO HASP CELL AND LOCK SERVICES

End of Comment

192	(C0)	ADDRESS	4	\$GETLOK	"V(\$GETLOKR)" ENTRY TO GET LOCK ROUTINE
196	(C4)	ADDRESS	4	\$FRELOK	"V(\$FRELOKR)" ENTRY TO FREE LOCK ROUTINE
200	(C8)	ADDRESS	4	\$GETJLOC	"V(\$GETJLOK)" ENTRY TO GET JOB LOCK ROUTINE
204	(CC)	ADDRESS	4	\$FREJLOC	"V(\$FREJLOK)" ENTRY TO FREE JOB LOCK ROUTINE

Comment

ENTRIES TO SAVE AREA SERVICES

End of Comment

208	(D0)	ADDRESS	4	\$RETSAVA	"V(\$RETSAVE)" ENTRY TO SAVE AREA FREE ROUTINE
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Comment

ENTRIES TO EXTP SERVICES

End of Comment

212	(D4)	ADDRESS	4	\$REQBUF	"V(\$HASPRBUF)" Entry to requeue buffers and request ckpt
216	(D8)	BITSTRING	8	\$REQBUFN	Entry to requeue buffers without requesting ckpt
220	(DC)	ADDRESS	4	(7)	Reserved for future use
248	(F8)	ADDRESS	4	\$TJEVTOK	Thread JOE Exclusion List data space ALET
252	(FC)	ADDRESS	4	\$SAPTOK	SAPID data space ALET
256	(100)	ADDRESS	4	\$DILHEAD	Address of first queued DWA element
260	(104)	ADDRESS	4	\$DILTAIL	Address of last queued DWA element
264	(108)	ADDRESS	4	\$ACTRNUM	Number of entries in RSO
268	(10C)	ADDRESS	4	\$JIXJNUM	Number of entries in JIX

Comment

ENTRIES FOR INSTALLATION EXIT, TABLE EXTENSION SERVICES

End of Comment

272	(110)	ADDRESS	4	\$JESEFFA	"V(\$JESEFF)" ADDRESS OF JES2 EXIT EFFECTOR
276	(114)	ADDRESS	4	\$PRPUSRV	"V(\$PRPUXSRV)" ADDRESS OF PRPU EXIT SERVICES
280	(118)	ADDRESS	4	\$MCT	"V(\$MCTABLE)" ADDR HASP MASTER CONTROL TABLE
284	(11C)	ADDRESS	4		Reserved for future use
288	(120)	ADDRESS	4	\$UCT	"V(\$USERCT)" ADDR USER COMMUNICATION TABLE
292	(124)	ADDRESS	4	\$SXADDR	"V(\$SXADDR)" SXADDR address
296	(128)	ADDRESS	4	\$DIAGTBL	"V(\$SCNDIAGT)" ENTRY TO DIAGNOSTIC MSGS TABLE

Comment

Entries for MVS Service Routines

End of Comment

300	(12C)	ADDRESS	4	\$MSGXTR	WPL message extract routine
304	(130)	ADDRESS	4	\$SYMBM	Symbol translation Service

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
CHAIN HEADS (ORIGIN AND LAST) FOR ALL DTES					
End of Comment					
308	(134)	ADDRESS	4	\$DTEORG	ORIGIN DTE ADDR (DTENEXT CHAIN)
312	(138)	ADDRESS	4	\$DTELAST	LAST DTE ADDR (DTEPREV CHAIN)
Comment					
SUBTASK 'TYPE' POINTERS INTO THE DTENEXT CHAIN. NOTE THAT THESE POINTERS ARE ZERO IF NO SUBTASK FOR THAT 'TYPE' IS CURRENTLY ATTACHED.					
End of Comment					
316	(13C)	ADDRESS	4	\$DTEIMAG	IMAGE DTE(S) (HASPIMAG)
320	(140)	ADDRESS	4	\$DTEALOC	ALLOCATE DTE (HOSALLOC)
324	(144)	ADDRESS	4	\$DTESPOL	SPOOL DTE(S) (HOSPOOL)
328	(148)	ADDRESS	4	\$DTESMF	SMF DTE (HASPACCT)
332	(14C)	ADDRESS	4	\$DTEVTM	VTAM DTE (HASPVTAM)
336	(150)	ADDRESS	4	\$DTEWTO	WTO DTE (HASPWTO)
340	(154)	ADDRESS	4	\$DTECNVT	CONVERT DTE(S) (HOSCNVT)
344	(158)	ADDRESS	4	\$DTEOFF	OFFLOAD DTE(S) (HASPOFF)
348	(15C)	ADDRESS	4	\$DTECKVR	VERSCOPY DTE (HASPCKVR)
352	(160)	ADDRESS	4	\$DTECKCF	CKPTONCF DTE (HASPCKCF)
356	(164)	ADDRESS	4	\$DTEGSUB	GENERAL DTE(S) (HASPSUBS)
Comment					
SPECIAL DTE POINTERS					
End of Comment					
360	(168)	ADDRESS	4	\$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
Comment					
ERROR STACK POINTERS FOR RECOVERY OPTIONS					
End of Comment					
364	(16C)	ADDRESS	4	\$MAINSTK	"V(STKMAIN)" ADDR OF MAIN TASK ERROR STACK
368	(170)	ADDRESS	4	\$DSTRSTK	"V(STKDSTR)" ADDR OF \$DISTERR ERROR STACK
372	(174)	ADDRESS	4	\$STERSTK	"V(STKSUBT)" SUBTASK ERROR STACK ORIGIN, SUBTASK STACKS ARE CONTIGUOUS.
Comment					
HASP CONTROL BLOCK DIRECTORY					
End of Comment					
376	(178)	ADDRESS	4	\$ACTABLE	ADDR OF AUTOMATIC COMMAND TABLE
380	(17C)	ADDRESS	4	\$APPLTBL	ADDRESS NJE/SNA APPLICATION TBL
384	(180)	ADDRESS	4	\$AQSE	Addr of this sys's QSE
388	(184)	ADDRESS	4	\$ASYNCQ	ADDR ASYNC I/O COMPLETION QUEUE
392	(188)	ADDRESS	4	\$ASYPCIQ	ADDRESS OF ASYNC PCIE EXEC QUE
396	(18C)	ADDRESS	4	\$BERTPTR	Address of BERT CTENT
400	(190)	ADDRESS	4	\$BITSONA	"V(\$BITSON)" ADDR OF TBL BITS ON IN A BYTE
404	(194)	ADDRESS	4	\$BUSYQUE	ADDRESS OF COMM TASK INPUT QUE
408	(198)	ADDRESS	4	\$BUSYRQ	ADDR REMOTE CONSOLE BUSY QUEUE
412	(19C)	ADDRESS	4	\$CALONE	ADDR FIRST CH LOG ADDR LIST
416	(1A0)	ADDRESS	4	\$CALCUR	ADDR CRNT CH LOG ADDR LIST
420	(1A4)	ADDRESS	4	\$CATPTR	Addr of private CATs (not valid when CATs in CKPT)
424	(1A8)	ADDRESS	4	\$CHLOG	ADDRESS OF THE CHANGE LOG
428	(1AC)	ADDRESS	4	\$CKG1	ADDRESS OF CKPT1 CKGPARG

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
432	(1B0)	ADDRESS	4	\$CKG2	ADDRESS OF CKPT2 CKGPAR
436	(1B4)	ADDRESS	4	\$CKBCRNT	ADDRESS OF CURRENT CKB
440	(1B8)	ADDRESS	4	\$CKC	ADDRESS OF CKPT CCW PACKETS
444	(1BC)	ADDRESS	4	\$CKPTIO	ADDRESS OF CHECKPOINT I/O AREA
448	(1C0)	ADDRESS	4	\$CKPTPTR	ADDRESS OF 1ST 4K CKPT RECORD
452	(1C4)	ADDRESS	4	\$CLCB	ADDRESS CH LOG CNTL BYTES
456	(1C8)	ADDRESS	4	\$CKPTQHD	CKPT work queue head
460	(1CC)	ADDRESS	4	\$CKW	ADDRESS OF CKPT WORK AREA
464	(1D0)	ADDRESS	4	\$COMEXTN	ADDR OF COMM EXTENDED AREA
468	(1D4)	ADDRESS	4	\$COMMQUE	ADDR COMMAND PROCESSOR WORK Q
472	(1D8)	ADDRESS	4	\$CONWKQ	ADDRESS OF COMM TASK WORK QUEUE
476	(1DC)	ADDRESS	4	\$CPTMAP	ADDR OF CPT QUICK INDEX
480	(1E0)	ADDRESS	4	\$CPTPOOL	ADDRESS OF FIRST HASP CPT
484	(1E4)	ADDRESS	4	\$CTLB	ADDR OF CKPT CNTRL BYTES
488	(1E8)	ADDRESS	4	\$CTLBIO	ADDR OF CKPT I/O CNTRL BYTES
492	(1EC)	ADDRESS	4	\$CTLBX	ADDR OF EXTRA CKPT CNTRL BYTES
496	(1F0)	ADDRESS	4	\$DADEBAD	ADDRESS HASP DIRECT ACCESS DEB
500	(1F4)	ADDRESS	4	\$DASAREA	Addr of DAS header
504	(1F8)	ADDRESS	4	\$DASFRST	Addr of first DAS
508	(1FC)	ADDRESS	4	\$DASEXT	ADDRESS OF DAS EXT AREA
512	(200)	ADDRESS	4	\$DOMQUE	ADDRESS OF CMBS AWAITING ACTION
516	(204)	ADDRESS	4	\$DOMQUEA	ADDR CMBS DESTINED FOR \$DOMQUE
520	(208)	BITSTRING	0	\$EMEMAFF	AFFINITY MASK FOR RESET
520	(208)	ADDRESS	4	\$FIXCHLG	ADDR CHANGE LOG FIXED LIST
524	(20C)	ADDRESS	4	\$FIXLIST	ADDR FIXED LIST TABLE FOR KITS
528	(210)	ADDRESS	4	\$XMASADR	ADDR of Cross MAS XCF CB
532	(214)	ADDRESS	4	\$GTWKTAB	"V(GTWKTABL)" ADDRESS OF GETWORK TABLE
536	(218)	ADDRESS	4	\$GETWRKA	"V(\$GETWORK)" Addr of GETWORK routine
540	(21C)	ADDRESS	4	\$HASCB	ADDRESS OF HASP ASCB
544	(220)	ADDRESS	4	\$HASPDCB	ADDR OF HASP DIRECT ACCESS DCB
548	(224)	ADDRESS	4	\$HASPRB	ADDR OF HASP RB
552	(228)	ADDRESS	4	\$HASPTCB	ADDR OF HASP TASK CONTROL BLOCK
556	(22C)	ADDRESS	4	\$HFAM	ADDR OF HASP FILE ALLOC MAP
560	(230)	ADDRESS	4	\$ICELOST	ADDR OF Frozen ICE queue
564	(234)	ADDRESS	4	\$#INDEXA	"V(\$#INDEX)" ADDR OF SYSOUT CLS QUEUE INDEX
568	(238)	ADDRESS	4	\$INIWARM	Addr of INIWARM passed from HASPIR* to HASPWARM
572	(23C)	ADDRESS	4	\$JESACCT	ADDR OF JES2-TO-NET ACCT TABLE
576	(240)	ADDRESS	4	\$JESTOKA	ADDR OF JES2 SECURITY TOKEN
580	(244)	ADDRESS	4	\$JNEW	ADDR MOST RECENT JESNEWS CB
584	(248)	ADDRESS	4	\$JNTPTR	ADDR OF HASP JOB NUMBER TABLE
588	(24C)	ADDRESS	4	\$JOBQBUF	ADDR OF HASP JOB QUEUE BUFFER
592	(250)	ADDRESS	4	\$JOBQPTR	ADDR OF HASP JOB QUEUE ORIGIN
596	(254)	ADDRESS	4	\$JOTABLE	ADDRESS OF HASP JOT ORIGIN
600	(258)	ADDRESS	4	\$JOTPOST	ADDRESS OF JOTPOST MAP
604	(25C)	ADDRESS	4	\$JQEEXT	ADDRESS OF EXTENSION AREA
608	(260)	ADDRESS	4	\$JQXPTR	Addr of HASP JQX CTENT
612	(264)	ADDRESS	4	\$JWELTBL	ADDR OF JOE/WRITER EXCLUDE LIST TABLE
616	(268)	ADDRESS	4	\$JWEHAVT	ADDR OF ADDRESS SPACE VECTOR TABLE TO CONTAIN WRITER ID NUM
620	(26C)	ADDRESS	4	\$KITPTR	ADDRESS OF HASP KIT ORIGIN
624	(270)	ADDRESS	4	\$LCKPTR	ADDRESS OF HASP LOAD CKPT TABLE
628	(274)	ADDRESS	4	\$LSPTR	Pointer to main JES2 linkage stack for main task
632	(278)	ADDRESS	4	\$MASTER	ADDRESS OF MASTER CKPT AREA
636	(27C)	ADDRESS	4	\$MASTERI	ADDRESS OF MSTR CKP I/O AREA
640	(280)	ADDRESS	4	\$MCONMSG	ADDR REMOTE CONSOLE MSG QUEUE
644	(284)	ADDRESS	4	\$MWORK	ADDR OF RTAM GENERAL WORK AREA
648	(288)	ADDRESS	4	\$NETACCT	ADDR OF NET-TO-JES2 ACCT TABLE
652	(28C)	ADDRESS	4	\$NITABLE	ADDR OF NODE INFORMATION TABLE
656	(290)	ADDRESS	4	\$NUCFIXD	"V(\$FIXEND)" ADDR OF NUC PAGEFIXED AREA END
660	(294)	ADDRESS	4	\$PADDR	"V(PADDR)" ADDR OF PRIVATE RTN LIST
664	(298)	ADDRESS	4	\$PCT	Addr Path Manager Comm tabl
668	(29C)	ADDRESS	4	\$PERFCB	Performance data anchor CB
672	(2A0)	ADDRESS	4	\$PRFDATA	"V(PRFTABLE)" Addr of PRFDATA subscripts
676	(2A4)	ADDRESS	4	\$PITABLE	ADDR HASP PARTITION INFO TABLE

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
680	(2A8)	ADDRESS	4	\$PRMDTBL	ADDRESS OF PRMODE TABLE
684	(2AC)	CHARACTER	8	\$HASPPRM	INITIALIZATION PARMs DD NAME
692	(2B4)	ADDRESS	4	\$PSLIST	ADDR OF PAGE SERVICE LIST
696	(2B8)	ADDRESS	4	\$QINDEXA	"V(\$QINDEX)" ADDR OF JOB CLASS QUEUE INDEX
700	(2BC)	ADDRESS	4	\$QSE1	ADDRESS OF 1ST HASP QSE
704	(2C0)	ADDRESS	4	\$RATABLE	ADDR OF REMOTE ATTRIBUTE TABLE
708	(2C4)	ADDRESS	4	\$RPLCOMQ	Addr of SNA/RPL compl queue
712	(2C8)	ADDRESS	4	\$RMTSON	ADDRESS OF REMOTE SIGN-ON TABLE
716	(2CC)	ADDRESS	4	\$RTIMTAB	"V(\$TIMETAB)" ADDR ESTIMATED TIME PRIO TABLE

Comment

The following 2 fields must be kept together

End of Comment

720	(2D0)	ADDRESS	4	\$SAVAREA	--+ Addr next available general I save area
724	(2D4)	ADDRESS	4	\$SAVEARS	--+ Addr next available access register save area
728	(2D8)	ADDRESS	4	\$SFWA	ADDR OF SWBTU FUNCTIONS WORK AREA (\$SFW)
732	(2DC)	ADDRESS	4	\$SCQADDR	Address SCQ CTENT
736	(2E0)	ADDRESS	4	\$SCT	Address of Spin Comm Table
740	(2E4)	ADDRESS	4	\$SMFBUSY	ADDR SMF BUFFER QUEUED FOR I/O
744	(2E8)	ADDRESS	4	\$SPOOLQ	BAD TRACK GROUPS TO FORMAT QUES
748	(2EC)	ADDRESS	4	\$STWORK	ADDR OF SUBTASK WORK AREA
752	(2F0)	ADDRESS	4	\$HCCT	HASP COMMON COMMUNICATION TABLE
756	(2F4)	ADDRESS	4	\$STQEACTION	ADDR OF 1ST ACTIVE STQE
760	(2F8)	ADDRESS	4	\$BADTRTG	Addr of TG map specified via BADTRACK statements
764	(2FC)	ADDRESS	4	\$BSCCHEQ	ADDR OF BSC channel end Q
768	(300)	ADDRESS	4	\$TQEQE	ADDR OF HASP TIMER Q ELEMENT Q
772	(304)	ADDRESS	4	\$TRGENER	"V(TRGENER)" Generic translate table
776	(308)	ADDRESS	4	\$VLOGQUE	VTAM OPEN/CLOSE ACB SUBTASK QUE
780	(30C)	ADDRESS	4	\$WLMDATA	Addr of WLM data bundle
784	(310)	ADDRESS	4	\$WSAPTR	ADDR OF WORK SELECTION AREA
788	(314)	ADDRESS	4	\$XFRACV	ADDRESS OF 1ST ACTIVE XFR DCT
792	(318)	ADDRESS	4	\$XFRBEND	ADDR OF XFR BUFFER COMPLETION Q
796	(31C)	ADDRESS	4	\$XFRDEND	ADDR OF XFR DCT SUBTASK COMP Q
800	(320)	ADDRESS	4	\$XITADDR	ADDR OF EXIT INFO TABLE (XIT)
804	(324)	SIGNED	4	\$PLXDYNI	CPOOL ID for PLX dynamic areas

Comment

Keep the EBCDIC level and binary product/service levels together.

End of Comment

808	(328)	BITSTRING	10	\$JES2_LEVEL (0)	Level information
808	(328)	CHARACTER	8	\$LEVEL	Version of the JES2 macros used to assemble HASPNUC <--+
816	(330)	ADDRESS	1	\$PLVL	Binary product level I
817	(331)	ADDRESS	1	\$SLVL	Binary service level <--+
818	(332)	ADDRESS	2	(0)	Ensure product level is defined correctly
818	(332)	SIGNED	2		Reserved for future use

Comment

JECL validity vectors

End of Comment

820	(334)	ADDRESS	4	\$STCJECL	Addr STC JECL validity tbl
824	(338)	ADDRESS	4	\$TSUJECL	Addr TSU JECL validity tbl
828	(33C)	ADDRESS	4	\$JOBJECL	Addr JOB JECL validity tbl

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
TRACK GROUP MAP TABLE					
End of Comment					
832	(340)	SIGNED	4	\$TGMADDR (0)	ADDR HEADER OF TRACK GROUP
832	(340)	ADDRESS	4	\$TGMHEAD	HEADER OF TGM GROUP
836	(344)	ADDRESS	4	\$TGMAP	ADDR OF MASTER TRACK GROUP MAP
840	(348)	ADDRESS	4	\$TGBAD	ADDR OF BAD TRACK GROUP MAP
840	(348)	X'2	0	\$TBLNUM	"(*-\$TGMAP)/4" CALCULATE NUMBER IN TGM TABLE
844	(34C)	ADDRESS	4	\$TGRADDR	Addr checkpointed BLOB
844	(34C)	X'28	0	\$TGRHDR	"40" Length of BLOB header
Comment					
RESERVED AREA FOR USER FIELDS					
End of Comment					
848	(350)	ADDRESS	4	\$UPADDR	ADDR OR USER PRIVATE ADD TABLE
852	(354)	ADDRESS	4	\$USXADDR	USXADDR address
856	(358)	ADDRESS	4	\$USER1	RESERVED FOR USER
860	(35C)	ADDRESS	4	\$USER2	RESERVED FOR USER
864	(360)	ADDRESS	4	\$USER3	RESERVED FOR USER
868	(364)	ADDRESS	2	\$USER4	RESERVED FOR USER
870	(366)	ADDRESS	2	\$USER5	RESERVED FOR USER
Comment					
HASP OPERATING CONSTRAINTS					
End of Comment					
872	(368)	SIGNED	2	\$PPBSIZE	Size of the PCE Perf block
874	(36A)	ADDRESS	2	\$NUMCPTS	NUMBER OF CPTS
876	(36C)	ADDRESS	4	\$PRIOUT	"V(\$OUTTAB)" OUTPUT PRIORITY TABLE
880	(370)	ADDRESS	4	\$SYNCTOL	TOD CLOCK SYNC ERROR TOLERANCE
888	(378)	DBL WORD	8	\$CKPTLEV	LEVEL NUMBER OF CKPT DATA
888	(378)	X'78 00008'	0	\$CKPTLVP	"\$CKPTLEV,8,C'C" Define character version of field since PLX and the offset table don't handle doublewords well
888	(378)	X'7C 00004'	0	\$CKLEVNM	"\$CKPTLEV+4,4,C'F" Fullword level for messages and CTLB comparisons
896	(380)	SIGNED	4	\$CKOLDLV	Original checkpoint level # for JOTPOST comparison
900	(384)	SIGNED	4	\$TOTCKSZ	Size of the checkpoint data set in 4K pages
904	(388)	ADDRESS	4	\$DELAYTM	MODEL 20 DELAY TIME
908	(38C)	SIGNED	2	\$KITNUM	NUM KITS PRESENT IN SYSTEM
910	(38E)	SIGNED	2	\$WARMACT	Nr of active warmstart PCEs
912	(390)	SIGNED	4	\$LOCKOUT	LOCKOUT WARN TIME, SECS/100
916	(394)	SIGNED	4	\$MINHOLD	MINIMUM HOLD TIME, SECS/100
920	(398)	SIGNED	4	\$ORIGMHD	Original minhold (used to restore \$MINHOLD after all warmstart PCEs have gone dormant)
924	(39C)	ADDRESS	4	\$MAXINT	MAX INT FOR CKPTW, SECS/100
928	(3A0)	SIGNED	4	\$MINDORM	MINIMUM DORMANT TIME, SECS/100
932	(3A4)	SIGNED	4	\$MAXDORM	MAXIMUM DORMANT TIME, SECS/100
936	(3A8)	ADDRESS	4	\$DDSEGLM	SEGLIM VALUE
940	(3AC)	ADDRESS	2	\$MAXDELT	MAXIMUM MESSAGE DELAY TIME
942	(3AE)	ADDRESS	2	\$MAXMSGQ	MAXIMUM MSGS TO QUEUE ON SPOOL
944	(3B0)	ADDRESS	2	\$NUMPATH	NUMBER OF PATHS PER NIT
946	(3B2)	ADDRESS	2	\$MAXHOP	MAXIMUM NJE HOP COUNT
948	(3B4)	ADDRESS	2	\$AUTOINV	SNA AUTOLOGON SCAN INTERVAL
950	(3B6)	ADDRESS	2	\$NUMAUTO	NUMBER OF AUTOLOGON REMOTES
952	(3B8)	SIGNED	4	\$NUMGCRE	Number of MGCRES HASPCOMM is processing in a subtask

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
\$OPTSTAT INITIALIZATION OPTION DEFINITIONS \$OPTSTAT IS PART OF SMF RECORD 43					
End of Comment					
956	(3BC)	BITSTRING	1	\$OPTSTAT (0)	HASP Init Options (Use BL1 so offset table will be satisfied, but you need AL1 to assign initial value to the byte)
956	(3BC)	BITSTRING	0	\$OPTFMT	"B'10000000" FORMAT-- FORCE FORMAT OPTION (OPP IS NOFMT = DEFAULT)
956	(3BC)	BITSTRING	0	\$OPTCOLD	"B'01000000" COLD -- COLD START OPTION (OPP IS WARM = DEFAULT)
956	(3BC)	BITSTRING	0	\$OPTREQ	"B'00100000" REQ -- REQUEST OPTION = DEFAULT (OPPOSITE IS NOREQ)
956	(3BC)	BITSTRING	0	\$OPTLIST	"B'00010000" LIST -- HASPPARM LIST = DEFAULT (OPPOSITE IS NOLIST)
956	(3BC)	BITSTRING	0	\$OPTLOG	"B'00001000" LOG -- HASPPARM LOG = DEFAULT (OPPOSITE IS NOLOG)
956	(3BC)	BITSTRING	0	\$OPTCONS	"B'00000010" CONSOLE- CONSOLE OPTION
956	(3BC)	BITSTRING	0	\$OPTQWIK	"B'00000001" QUICK-- NON-ALL-SYSTEMS WARM START (FMT/COLD MUST BE OFF)
956	(3BC)	X'38	0	\$OPTSTD	"\$OPTREQ+\$OPTLIST+\$OPTLOG" DEFAULTS = NOFMT, WARM, REQ, LIST, LOG
Comment					
\$OPTSTA1 MORE INITIALIZATION OPTION DEFINITIONS CKPTN OPTION SETS THE FOLLOWING BITS IN \$OPTSTA1 \$OP1SPEC \$OP1CKPT DEFAULT 0 0 CKPT1 1 0 CKPT2 1 1					
End of Comment					
957	(3BD)	BITSTRING	3	\$OPTSTA1 (0)	MORE INIT OPTIONS
957	(3BD)	BITSTRING	0	\$OP1SPEC	"B'10000000" CKPTN -- READ FROM A SPECIFIC DATA SET
957	(3BD)	BITSTRING	0	\$OP1CKPT	"B'01000000" CKPTN -- WHICH CKPT TO READ FROM FIRST
957	(3BD)	BITSTRING	0	\$OP1PJS2	"B'00100000" \$PJES2 - TERMINATE JES2 OPT
957	(3BD)	BITSTRING	0	\$OP1SVAL	"B'00010000" Do spool validation
957	(3BD)	BITSTRING	0	\$OP1SFCE	"B'00001000" Whether spool validation done or not was a forced condition
957	(3BD)	BITSTRING	0	\$OP1UNAC	"B'00000100" UNACTIVATE system
Comment					
EQU B'00000010' RESERVED EQU B'00000001' RESERVED					
End of Comment					
957	(3BD)	X' '	0	\$OPT1STD	"0" Default is no SPOOL validation
958	(3BE)	BITSTRING	3	\$RUNOPTS (0)	JES2 RUN OPTIONS
958	(3BE)	BITSTRING	0	\$PRTYOUT	"X'04" OUTPUT card 'PRTY=' option
958	(3BE)	BITSTRING	0	\$PRIOOPT	"X'02" PRIORITY card option
958	(3BE)	BITSTRING	0	\$PRTYJOB	"X'01" Job card 'PRTY=' option
959	(3BF)	ADDRESS	1	\$PRTOPTS	PRINT OPTIONS
959	(3BF)	BITSTRING	0	\$PRTBOPT	"X'80" Local print dbl-buffering option
959	(3BF)	BITSTRING	0	\$PUNBOPT	"X'40" Local punch dbl-buffering option
959	(3BF)	BITSTRING	0	\$RPRBOPT	"X'20" Remote print dbl-buffering option
959	(3BF)	BITSTRING	0	\$RPUBOPT	"X'10" Remote punch dbl-buffering option
959	(3BF)	BITSTRING	0	\$PRTRANS	"X'08" Print translate option
959	(3BF)	BITSTRING	0	\$DMNDSET	"X'04" Specify demand setup option
959	(3BF)	BITSTRING	0	\$USERSET	"X'02" Specify user setup option

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
959	(3BF)	BITSTRING	0	\$CREATE	"X'01" JOE create time updated only at create time
960	(3C0)	ADDRESS	1	\$RJEOPPTS	HASP REMOTE JOB ENTRY OPTIONS
960	(3C0)	BITSTRING	0	\$ADDSYNS	"X'80" Additional synchronous idles option
961	(3C1)	ADDRESS	1	\$RJOB OPT	JOB CARD SCAN OPTION FLAG
961	(3C1)	BITSTRING	0	\$ACTIGN	"B'10000000" Job account information is ignored
961	(3C1)	BITSTRING	0	\$ACTREQ	"B'01000000" Job account information is required
961	(3C1)	BITSTRING	0	\$JCLERR	"B'00100000" Terminate job if JCL scan error
962	(3C2)	ADDRESS	1	\$LINECT	MAXIMUM LINES PER PAGE
963	(3C3)	ADDRESS	1	\$NJEOPPTS	HASP NJE OPTIONS
963	(3C3)	BITSTRING	0	\$MAILMSG	"B'10000000" ISSUE MAIL NOTIFY MSG
964	(3C4)	SIGNED	4		Reserved for future use
968	(3C8)	ADDRESS	2		Reserved for future use
970	(3CA)	ADDRESS	1	\$SPVLRSN	Reason code for forced spool validation
970	(3CA)	X'1	0	\$SPV1QER	"1" Forced on, queue error
970	(3CA)	X'2	0	\$SPV1VAL	"2" Forced on, prior error
970	(3CA)	X'3	0	\$SPV1OPT	"3" Forced on, init option
970	(3CA)	X'4	0	\$SPV1SPL	"4" Forced off, missing spools

Comment

\$DEBUG Option Definitions

End of Comment					
971	(3CB)	BITSTRING	1	\$DEBGOPS (0)	DEBUG option flag \$DEBGOPS bit definitions
971	(3CB)	BITSTRING	0	\$DBGBERT	"B'10000000" BERT debug support
971	(3CB)	BITSTRING	0	\$DBGCKPT	"B'01000000" CKPT debug support
971	(3CB)	BITSTRING	0	\$DBGVERS	"B'00100000" VERSION debug support
971	(3CB)	BITSTRING	0	\$DBGAPPC	"B'00010000" APPLCOPY debug support
971	(3CB)	BITSTRING	0	\$DBGSTRG	"B'00001000" STORAGE debug support
971	(3CB)	BITSTRING	0	\$DBGMISC	"B'00000100" MISC debug support (Miscellaneous)
971	(3CB)	BITSTRING	0	\$DBGSYMR	"B'00000010" SYMREC debug option
971	(3CB)	BITSTRING	0	\$DBGSAF	"B'00000001" SECURITY debug option
971	(3CB)	X'	0	\$DBGALL	"FF"

Comment

ESTIMATED COUNT FIELDS DEFAULTS, MAPPED BY THE \$EST MACRO

End of Comment					
972	(3CC)	ADDRESS	4	\$EST1 (0)	FIRST ESTIMATED COUNT TABLE
972	(3CC)	X'5	0	\$ESTCNT	"5" NUMBER OF ESTIMATED CNT TABLES
972	(3CC)	ADDRESS	4	\$ESTPAGE	
972	(3CC)	X'8	0	\$ESTPG9L	"8" 9'S LIMIT FOR ESTNUM
984	(3D8)	ADDRESS	4	\$ESTBYTE	
984	(3D8)	X'6	0	\$ESTMX9L	"6" 9'S LIMIT FOR ESTNUM
996	(3E4)	ADDRESS	4	\$ESTLNCT	
996	(3E4)	X'6	0	\$ESTLN9L	"6" 9'S LIMIT FOR ESTNUM
1008	(3F0)	ADDRESS	4	\$ESTPUN	
1008	(3F0)	X'8	0	\$ESTPN9L	"8" 9'S LIMIT FOR ESTNUM
1020	(3FC)	ADDRESS	4	\$ESTIME	
1020	(3FC)	X'4	0	\$ESTIM9L	"4" 9'S LIMIT FOR ESTNUM

Comment

Values for buffer management - limits, thresholds, free counts, wait counts, etc.

End of Comment					
1032	(408)	SIGNED	2	\$NUMBSC	HASP BSC BUFFER LIMIT
1034	(40A)	SIGNED	2	\$BSCPRCT	BSC BUF THRESHOLD PERCENT
1036	(40C)	SIGNED	2	\$BSCCLIM	Old BSC buffer limit used by \$T to calc free count
1038	(40E)	SIGNED	2	\$BSCFREC	Free BSC buffer count
1040	(410)	SIGNED	2	\$BSCWBF	Number of BSC buffers being \$WAITed for
1042	(412)	SIGNED	2	\$BSCNWBFB	Number of non-wait requests for BSC buffers

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1044	(414)	SIGNED	2	\$BSCLGRQ	Largest unfulfilled request for BSC buffers
1046	(416)	SIGNED	2	\$NUMBUF	HASP BUFFER LIMIT
1048	(418)	SIGNED	2	\$BUFPRCT	BUFFER THRESHOLD PERCENTAGE
1050	(41A)	SIGNED	2	\$BUFLIM	Old HASP buffer limit used by \$T to calc free count
1052	(41C)	SIGNED	2	\$LBFREC	Free LBUF buffer count
1054	(41E)	SIGNED	2	\$BUFWBF	Number of HASP buffers being \$WAITed for
1056	(420)	SIGNED	2	\$BUFNWBF	Number of non-wait requests for HASP buffers
1058	(422)	SIGNED	2	\$BUFLGRQ	Largest unfulfilled request for HASP buffers
1060	(424)	SIGNED	2	\$NUMBUF	Control Block buffer limit
1062	(426)	SIGNED	2	\$BFXPRCT	CB THRESHOLD PERCENTAGE
1064	(428)	SIGNED	2	\$BUFXLIM	Old CB buffer limit used by \$T to calc free count
1066	(42A)	SIGNED	2	\$LBFREC	Free XBUF buffer count
1068	(42C)	SIGNED	2	\$BFXWBF	Number of CB buffers being \$WAITed for
1070	(42E)	SIGNED	2	\$BFXNWBF	Number of non-wait requests for CB buffers
1072	(430)	SIGNED	2	\$BFXLGRQ	Largest unfulfilled request for CB buffers
1074	(432)	SIGNED	2	\$NUMVTAM	HASP VTAM BUFFER LIMIT
1076	(434)	SIGNED	2	\$VTMPRCT	VTAM BUF THRESHOLD PERCENT
1078	(436)	SIGNED	2	\$VTMLIM	Old VTAM buffer limit used by \$T to calc free count
1080	(438)	SIGNED	2	\$VTMFREC	Free VTAM buffer count
1082	(43A)	SIGNED	2	\$VTMWBF	Number of VTAM buffers being \$WAITed for
1084	(43C)	SIGNED	2	\$VTMNWBF	Number of non-wait requests for VTAM buffers
1086	(43E)	SIGNED	2	\$VTMLGRQ	Largest unfulfilled request for VTAM buffers
1088	(440)	SIGNED	2	\$NUMNHB	HASP NHB buffer limit
1090	(442)	SIGNED	2	\$NHBPRCT	NHB BUF threshold percent
1092	(444)	SIGNED	2	\$NHBLIM	Old NHB buffer limit used by \$T to calc free count
1094	(446)	SIGNED	2	\$NHBFREC	Free NHB count
1096	(448)	SIGNED	2	\$NHBWBF	Number of NHB buffers being \$WAITed for
1098	(44A)	SIGNED	2	\$NHBNWBF	Number of non-wait requests for NHB buffers
1100	(44C)	SIGNED	2	\$NHBGRQ	Largest unfulfilled request for NHB buffers
1102	(44E)	ADDRESS	2		Reserved
1104	(450)	SIGNED	2	\$MAXSESS	MAXIMUM NUMBER OF SESSIONS
1106	(452)	ADDRESS	2	\$ICEPRCT	Threshold of ICES

Comment

 ICE free count must be in the second half of a fullword for use by compare and swap logic. \$ICEFREC is defined in the second half of the word which also contains \$ICELIM, which is the old (not actual) count of ICES.

End of Comment

1108	(454)	SIGNED	4	(0)	
1108	(454)	SIGNED	2	\$ICELIM	(OLD) count of ICES
1110	(456)	SIGNED	2	\$ICEFREC	Free count of ICES
1112	(458)	SIGNED	2	\$ICEFRZC	Number of frozen ICES
1114	(45A)	ADDRESS	2		Reserved
1116	(45C)	ADDRESS	2	\$NUMCMD	HASP CMBs for commands (default set in IRPL)
1118	(45E)	ADDRESS	2	\$NUMCMB	HASP CONSOLE MESSAGE BUFFERS
1120	(460)	ADDRESS	2	\$CMBPRCT	CMB THRESHOLD PERCENTAGE
1122	(462)	SIGNED	2	\$CMBLIM	Old CMB limit used by \$T to calculate free count

Comment

 CMB free count must be in the second half of a fullword for use by compare and swap logic. \$CMBFRER is a fullword with the first half reserved, and \$CMBFREC in the second half.

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1124	(464)	SIGNED	4	(0)	Force fullword alignment and reserve first half
1124	(464)	SIGNED	2		
1126	(466)	ADDRESS	2	\$CMBFREC	COUNT OF FREE CMBS
1128	(468)	ADDRESS	2	\$NMSGPRC	Notify msg threshold perct
1130	(46A)	ADDRESS	2		Reserved
1132	(46C)	SIGNED	4	\$NMSGNUM	Current # of notify buffers
1136	(470)	SIGNED	4	\$NMSGFRE	Free Notify msg buf count
1140	(474)	ADDRESS	2	\$DISPCNT	PASS NUMBER THROUGH DISPATCHER CODE W/O RUNNING OUT OF WORK
1142	(476)	ADDRESS	2	\$DISPACE	PACING VALUE (EFFECTS HOW OFTEN CERTAIN DISPATCHER FUNCTIONS ARE DONE IN A BUSY SYSTEM.
1144	(478)	ADDRESS	2	\$NUMSMFB	NUMBER OF HASP SMF BUFFERS
1146	(47A)	ADDRESS	2	\$SMFPRCT	SMF BUFFER THRESHOLD PERCENTAGE
1150	(47E)	ADDRESS	2	\$SMFFREC	COUNT OF FREE SMF BUFFERS
1152	(480)	ADDRESS	2		Reserved
1154	(482)	ADDRESS	2	\$TGFSIZE	NO. OF BUFFERS PER TRACK GROUP
1156	(484)	ADDRESS	2	\$TTBPRCT	TRACE TABLE THRESHOLD PERCENT (ONLY ACCURATE DURING THRESHOLD PROCESS, CCTTRCWP FIELD ALWAYS CORRECT
1158	(486)	ADDRESS	2		Reserved
1160	(488)	SIGNED	2	\$VERSNUM	NUMBER OF CKPT VERSIONS
1162	(48A)	SIGNED	2	\$VERSFRE	NUMBER CKPT VERS FREE
1164	(48C)	SIGNED	2	\$VERSWRN	USAGE THRESHLD FOR WTO WRN
1166	(48E)	BITSTRING	3	\$VERSSTT (0)	VERSIONING STATUS
1166	(48E)	BITSTRING	0	\$VERSACT	"B'10000000" ACTIVE
1166	(48E)	BITSTRING	0	\$VERSKPT	"B'00100000" SUSPENDED
1166	(48E)	BITSTRING	0	\$VERSINI	"B'00010000" INITIALIZING
1167	(48F)	ADDRESS	1	\$SPINACT	Count of active SPIN PCEs
1168	(490)	SIGNED	4	\$MAXVUSE	Max Number versions in use
1172	(494)	SIGNED	4	\$MAXFAIL	SEQUENCE FAIL COUNT
1176	(498)	SIGNED	4	\$NUMFAIL	TOTAL FAIL COUNT
1180	(49C)	ADDRESS	1	\$NOPRCCW	MAXIMUM CCW'S USED BY PRINT
1181	(49D)	ADDRESS	1	\$NOPUCCW	MAXIMUM CCW'S USED BY PUNCH
1182	(49E)	ADDRESS	1	\$SEPPAGE	Separator page options
1182	(49E)	BITSTRING	0	\$LSEPNON	"B'10000000" Local sep size of NONE
1182	(49E)	BITSTRING	0	\$LSEPHAF	"B'01000000" Local sep size of HALF
1182	(49E)	BITSTRING	0	\$LSEPFUL	"B'00100000" Local sep size of FULL
1182	(49E)	BITSTRING	0	\$LSEPDBL	"B'00010000" Local sep size of DOUBLE
1182	(49E)	BITSTRING	0	\$RSEPNON	"B'00001000" Remote sep size of NONE
1182	(49E)	BITSTRING	0	\$RSEPHAF	"B'00000100" Remote sep size of HALF
1182	(49E)	BITSTRING	0	\$RSEPFUL	"B'00000010" Remote sep size of FULL
1182	(49E)	BITSTRING	0	\$RSEPDBL	"B'00000001" Remote sep size of DOUBLE
1183	(49F)	ADDRESS	1		Reserved
1184	(4A0)	SIGNED	4	\$CKCSIZE	SIZE OF GETMAINED CKC AREA
1188	(4A4)	ADDRESS	4	\$RSRVCKG	CKG OF RESERVED CKPT DS
1192	(4A8)	CHARACTER	44	\$DSNSPOL	DATA SET NME FOR SPOOL DATA SET

Comment

TABLE FOR HASP497 DOM ID

End of Comment

1236	(4D4)	ADDRESS	4	\$DOMID1 (0)	DOMID TABLE HEADER
1236	(4D4)	ADDRESS	4	\$ERDM497	DOMID MSG497 (ERROR CORRECTION)
1240	(4D8)	ADDRESS	4	\$RBDM497	DOMID MSG497 (REBUILD)
1240	(4D8)	X'2	0	\$DOMIDN	"(*-\$DOMID1)/4" NUMBER OF TABLE ENTRIES
1244	(4DC)	ADDRESS	4	\$SCLPEND	Address of \$SJ service classes pending dereg.
1248	(4E0)	BITSTRING	1	\$PRTOPT2 (0)	Additional Print Opts
1248	(4E0)	BITSTRING	0	\$PRTCALL	"B'10000000" All chnls are new pages
1249	(4E1)	CHARACTER	1	\$CCOMCHR	HASP COMMAND ID CHAR (OS INPUT)
1250	(4E2)	CHARACTER	1	\$RCOMCHR	HASP COMMAND ID CHAR (RDR/RMT)
1251	(4E3)	BITSTRING	1	\$PRFXFLG	PREFIX FLAG
1251	(4E3)	BITSTRING	0	\$SCOPSYS	"B'00100000" SCOPE=SYSTEM - DEFAULT
1251	(4E3)	BITSTRING	0	\$SCOPSPL	"B'00010000" SCOPE=SYSPLEX

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1252	(4E4)	SIGNED	4	(0)	ALIGN FOR CL INSTRUCTIONS
1252	(4E4)	CHARACTER	8	\$STDFORM	STANDARD FORMS ID
1260	(4EC)	CHARACTER	4	\$PRTFCB	STANDARD FCB IMAGE ID
1264	(4F0)	CHARACTER	4	\$PRTUCS	STANDARD UCS IMAGE ID
1268	(4F4)	CHARACTER	4	\$NIPFCB	3800 INSTALLATION FCB DEFAULT
1272	(4F8)	CHARACTER	4	\$NIPUCS	3800 INSTALLATION UCS DEFAULT
1276	(4FC)	CHARACTER	4	\$NIPFLSH	3800 INSTALLATION FLASH FRAME DFT
1280	(500)	ADDRESS	2	\$RMTNUM	Highest Allowed Remote
1282	(502)	ADDRESS	2		Reserved for future use
1284	(504)	ADDRESS	2	\$MLBFSIZ	HASP MULTI-LEAVING BUFFER SIZE
1286	(506)	ADDRESS	2	\$BFSZBSC	HASP BSC RJE Buffer Size
1288	(508)	ADDRESS	2	\$BFSZSNA	HASP SNA RJE BUFFER SIZE
1290	(50A)	ADDRESS	2	\$BFSZPP	HASP Print/Punch buf size
1292	(50C)	SIGNED	2		Reserved for future use
1294	(50E)	ADDRESS	1	\$STIMASK	SPOOL OFFLOAD I/O MGR SCAN MASK
1294	(50E)	BITSTRING	0	\$STIMBUF	"B'10000000" \$STIMASK BIT FOR BUFFER SCAN
1294	(50E)	BITSTRING	0	\$STIMTIM	"B'01000000" \$STIMASK BIT FOR TIMER SCAN
1294	(50E)	BITSTRING	0	\$STIMDCT	"B'00100000" \$STIMASK BIT FOR DCT SCAN
1294	(50E)	BITSTRING	0	\$STIMSBT	"B'00010000" \$STIMASK BIT FOR SUB-TASK SCAN
1295	(50F)	ADDRESS	1	\$SPOLMSG	MAX SPOOL BUFFERS FOR MSGS/RMT
1296	(510)	ADDRESS	1	\$BSPGCT	PAGES BETWEEN BSP TABLE ENTRIES
1297	(511)	ADDRESS	1	\$BSPNTE	BSP TABLE ENTRIES
1298	(512)	ADDRESS	2	\$BSPSIZ	BSP TABLE SIZE
1300	(514)	ADDRESS	1	\$JCOPYLM	OUTPUT JOB COPY LIMIT
1301	(515)	CHARACTER	1	\$CCOMCH	TEMP FOR \$T PREFIX CHAR
1302	(516)	ADDRESS	2	\$HTDIST	2770/2780 HORIZONTAL TAB SPACING
1304	(518)	ADDRESS	2	\$NUMACE	NUMBER OF AUTOMATIC CMD ELEMENTS
1306	(51A)	ADDRESS	2	\$MAXPART	MAXIMUM ACTIVE BATCH INITIATORS
1308	(51C)	ADDRESS	1	\$SPOFERR	SPOOL OFFLOAD ERROR THRESHOLD
1309	(51D)	CHARACTER	1	\$RDRAREA	CMD REDIRECT AREA DEFAULT
1310	(51E)	BITSTRING	2		Reserved
1312	(520)	ADDRESS	4	\$TRTIME	TRACE TABLE TRUNCATION TIME
1316	(524)	ADDRESS	2	\$LIRCT	CKPT LOST INTERRUPT RETRY CT
1318	(526)	BITSTRING	2		Reserved
1320	(528)	ADDRESS	2	\$RETRYCT	CKPT I/O ERROR RETRY CTR
1322	(52A)	ADDRESS	2	\$SCANPDL	LENGTH USED FOR \$SCAN PARAMETER DISPLAYS (INIT, COMMANDS)
1324	(52C)	SIGNED	4	\$SCANMDL	MAXIMUM DISPLAY LINES FOR \$SCAN CALLS FOR INIT AND CMDS FROM NJE, RJE, OR MCS WITHOUT L=CCA
1328	(530)	ADDRESS	4	\$CTBADA (16)	BAD value
1392	(570)	ADDRESS	4	\$ROTJQE	Addr JQE Rolling Trace Tbl
1396	(574)	ADDRESS	4	\$ROTJOE	Addr JOE Rolling Trace Tbl
1400	(578)	ADDRESS	4	\$ROTDISP	Dispatcher rolling trace tb

Comment

GENERAL WORK AREA FOR USE BY MAIN TASK

End of Comment

1408	(580)	DBL WORD	8	(0)	ALIGN \$SCANXWA
1408	(580)	CHARACTER	12	\$SCANXWA	WORK AREA FOR HASPSXIT, PASSING DATA BETWEEN PRE/POST EXITS, STABS
1408	(580)	CHARACTER	0		ASSURE SUFFICIENT \$DEST LENGTH

Comment

Remap \$SCANXWA for use in HASP581 message

End of Comment

1408	(580)	CHARACTER	8	\$M581DVN	Logical device name
1416	(588)	SIGNED	4	\$M581RC	DYNALLOC return code
1420	(58C)	BITSTRING	2	\$M581ERR	DYNALLOC error code

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1422	(58E)	BITSTRING	2	\$M581INF	DYNALLOC info code
1424	(590)	BITSTRING	1	\$M581FLG	Flags for HASP581 msg
1424	(590)	BITSTRING	0	\$M581FGF	"B'10000000" - \$GETWORK failed for DAIRFAIL parm list
1424	(590)	BITSTRING	0	\$M581FL1	"B'01000000" - DAIRFAIL formatted text (level 1) to display
1424	(590)	BITSTRING	0	\$M581FL2	"B'00100000" - DAIRFAIL formatted text (level 2) to display
1424	(590)	BITSTRING	0	\$M581FNT	"B'00010000" - No formatted text (needed to ensure a non-zero DISPER= byte)

Comment

 Remap \$SCANXWA for us by \$D/\$T PCE command

End of Comment

1408	(580)	SIGNED	2	\$DPCEDEF	Number of PCEs defined
1410	(582)	SIGNED	2	\$DPCEALC	Number of PCEs allocated
1412	(584)	SIGNED	2	\$DPCEEND	Number of PCEs ENDED
1416	(588)	SIGNED	4	\$DPCEACT	\$ACTIVE count for PCEs
1420	(58C)	BITSTRING	1	\$DPCEFLG	Flag byte
1420	(58C)	BITSTRING	0	\$DPCETON	"B'10000000" Trace on flag
1420	(58C)	BITSTRING	0	\$DPCETOF	"B'01000000" Trace off flag
1420	(58C)	BITSTRING	0	\$DPCECMD	"B'00000001" Trace modified
1420	(58C)	X'C0	0	\$DPCEMIX	"\$DPCETON+\$DPCETOF" Trace mixed
1420	(58C)	X'81	0	\$DPCEMIX	"\$DPCETON+\$DPCECMD" Trace set on
1420	(58C)	X'41	0	\$DPCEMIX	"\$DPCETOF+\$DPCECMD" Trace set OFF
1420	(58C)	X'D	0	\$DPCELEN	**-\$DPCEDEF" Length of work area
1432	(598)	DBL WORD	8	\$GENWORK (0)	GENERAL WORK AREA FOR MAIN TASK

Comment

THIS AREA IS USED BY HASPSCAN AND HASPSXIT AS A WORK AREA

End of Comment

1432	(598)	BITSTRING	24	\$SCNDL24	WORK AREA FOR \$SCAN SERVICE
1432	(598)	X'98 00008'	0	\$SCNDWKA	"\$GENWORK+00,08,C'D" WORK AREA FOR \$SCAN SERVICE
1432	(598)	X'A0 00008'	0	\$SCNDWKB	"\$GENWORK+08,08,C'D" WORK AREA FOR \$SCAN SERVICE
1432	(598)	X'A8 00008'	0	\$SCNDWKC	"\$GENWORK+16,08,C'X" WORK AREA FOR \$SCAN SERVICE
1432	(598)	X'98 00010'	0	\$SCNDL16	"\$GENWORK+00,16,C'X" WORK AREA FOR \$SCAN SERVICE

Comment

THIS WORK AREA IS USED BY THE SRVPRSCN ROUTINE IN HASPSERV TO PROCESS A \$TDEVN COMMAND OR A PRINT/PUNCH INITIALIZATION STATEMENT

End of Comment

1432	(598)	BITSTRING	8	\$PRMDSAV	SAVE AREA FOR PRMODE OPERAND
1440	(5A0)	BITSTRING	0	\$PRMDINX	PRMODE INDEX LIST FROM DCT
1440	(5A0)	BITSTRING	1	\$PRMDFLG	PRMODE FLAG BYTE
1440	(5A0)	BITSTRING	0	\$PRMDEND	"B'10000000" END OF OPERAND FOUND
1440	(5A0)	X'9	0	\$PRMDWKL	**-\$GENWORK" LENGTH OF PRMODE SCAN WORK AREA

Comment

THIS WORK AREA IS USED BY THE \$DTEDYN SERVICE ROUTINE FOR THE MVS ATTACH MACRO PARAMETER LIST

End of Comment

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE 11/11/91					
End of Comment					
1432	(598)	SIGNED	4	\$DTELSTF (0)	
1432	(598)	ADDRESS	4		DE OR EPLOC ADDRESS
1436	(59C)	ADDRESS	4		DCB ADDRESS
1440	(5A0)	ADDRESS	4		NEW FORMAT + ECB ADDR
1444	(5A4)	ADDRESS	4		GSPL OR GSPV
1448	(5A8)	ADDRESS	4		SHSPV OR SHSPL
1452	(5AC)	ADDRESS	4		EXIT ROUTINE ADDRESS
1456	(5B0)	ADDRESS	2		DPMOD VALUE
1458	(5B2)	ADDRESS	1		LPMOD VALUE
1459	(5B3)	ADDRESS	1		STATUS BYTE
1460	(5B4)	ADDRESS	4	(2)	EP NAME SPACE
1468	(5BC)	ADDRESS	4		ADDRESS OF JSCB
1472	(5C0)	ADDRESS	4		(E)STAI PARM LIST
1476	(5C4)	ADDRESS	4		EXIT ADDRESS
1480	(5C8)	ADDRESS	4		TASKLIB
1484	(5CC)	ADDRESS	1		FLAG BYTE
1485	(5CD)	ADDRESS	1		TASK ID
1486	(5CE)	ADDRESS	2		PARM LIST LENGTH
1488	(5D0)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
1492	(5D4)	ADDRESS	1		SET FLAGS
1493	(5D5)	ADDRESS	1		SET UP FORMAT NUMBER
1494	(5D6)	BITSTRING	10		RESERVED BYTES FOR FUTURE
1494	(5D6)	X'98 00048'	0	\$DTELIST	"\$DTELSTF,*-\$DTELSTF" EQUATE FOR BASE AND LENGTH

Comment

This work area is used by the \$SCAN facility to build certain variations of the \$HASP003 message

End of Comment					
1432	(598)	SIGNED	4	\$SCANWKA (0)	
1432	(598)	BITSTRING	0		List of diagnostic levels
1432	(598)	CHARACTER	100		Work area
1532	(5FC)	X'64	0	\$GENWRKL	**-\$GENWORK"

Comment

This work area is used by anyone that might have to reference the entire system affinity mask

End of Comment					
1432	(598)	BITSTRING	0	\$GENSYS	Sys affinity work area

Comment

PROCESSOR DEPENDENT FLAG BYTES

End of Comment					
1532	(5FC)	BITSTRING	3	\$PROCESS (0)	General process flg
1532	(5FC)	X'3	0	\$PROCDFT	"\$RASSIGN+\$ECKTRMJ" Flags on by default
1532	(5FC)	BITSTRING	0	\$PRONWS	"B'10000000" JNEW CB being updated
1532	(5FC)	BITSTRING	0	\$SPINJQE	"B'01000000" JQE added to \$SPIN queue
1532	(5FC)	BITSTRING	0	\$PRSCNWB	"B'00100000" Bypass \$SCAN FILTER=WB optimization
1532	(5FC)	BITSTRING	0	\$PRODISP	"B'00010000" Processors have been ended (disposed)
1532	(5FC)	BITSTRING	0	\$ARMVR	"B'00001000" Verification of ARM registrations required
1532	(5FC)	BITSTRING	0	\$RASSIGN	"B'00000010" Assign original job number, even if outside JOBDEF RANGE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1532	(5FC)	BITSTRING	0	\$INTRDCB	"B'00000100" Use DCB attributes associated with INTRDR for SYSIN data sets. See comment for RID1UDCB in \$DCT.
1532	(5FC)	BITSTRING	0	\$ECKTRMJ	"B'00000001" Remote Member Jettison flag - \$ECKPTLOCK done whenever a member fails
1533	(5FD)	BITSTRING	1	\$MCONFIG1	REMOTE CONSOLE PROCESSOR FLAG
1533	(5FD)	BITSTRING	0	\$MCONACT	"X'80" Remote console has output activity
1533	(5FD)	BITSTRING	0	\$MCONWAT	"X'40" Remote console waiting for jobqueue
1533	(5FD)	BITSTRING	0	\$MCONNPM	"X'20" Network path manager busy
1533	(5FD)	BITSTRING	0	\$MCONWPM	"X'10" Console waiting on path manager
1534	(5FE)	BITSTRING	1	\$COMMFG1	COMMAND PROCESSOR FLAG
1534	(5FE)	BITSTRING	0	\$COMMDWN	"X'80" XEQ/CKPT/SPIN Shutdown complete
1534	(5FE)	BITSTRING	0	\$COMMWAT	"X'40" HASPCOMM waiting for checkpoint
1534	(5FE)	BITSTRING	0	\$COMMABT	"X'20" Command being aborted
1535	(5FF)	BITSTRING	1	\$EXECFG1	EXECUTION PROCESSOR FLAG
1535	(5FF)	BITSTRING	0	\$EXECDWN	"X'80" XEQ shutdown complete
1535	(5FF)	BITSTRING	0	\$EXECSPN	"X'40" XEQ is ready for SPIN to do its final processing
1536	(600)	BITSTRING	1	\$CKPTFG1 (0)	Ckpt Processor flag
1536	(600)	X'39	0	\$CK1DFLT	"\$CKPTDPY+\$CKPTLDP+\$CKPTTMD+\$CKPTDPS" CKPTDEF DEFAULT: MODE=DUPLEX,DUPLEX=ON
1536	(600)	BITSTRING	0	\$CKPTDWN	"B'10000000" XEQ,CKPT SHUTDOWN COMPLETE
1536	(600)	BITSTRING	0	\$CKPTMSG	"B'01000000" Do not issue HASP479 msg
1536	(600)	BITSTRING	0	\$CKPTTMD	"B'00100000" TELLS SCAN WE'RE IN DPLX MD
1536	(600)	BITSTRING	0	\$CKPTDPS	"B'00010000" INDICATES SET TO DUPLEX ON
1536	(600)	BITSTRING	0	\$CKPTDPY	"B'00001000" INDICATES IN DUPLEX MODE
1536	(600)	BITSTRING	0	\$CKPTTEK	"B'00000100" \$T'D NEWCKPTN FIELD
1536	(600)	BITSTRING	0	\$CKPTPRI	"B'00000010" INDICATES PRIO AGING USED
1536	(600)	BITSTRING	0	\$CKPTLDP	"B'00000001" INDICATES DUPLEXING LOCALLY
1537	(601)	BITSTRING	1	\$CKPTFG2	Checkpoint processor flag
1537	(601)	BITSTRING	0	\$CK2LOCK	"B'10000000" LOCKING OPERATION
1537	(601)	BITSTRING	0	\$CK2READ	"B'01000000" READ OPERATION
1537	(601)	BITSTRING	0	\$CK2WRT	"B'00100000" WRITE OPERATION
1537	(601)	BITSTRING	0	\$CK2FMT	"B'00010000" FORMAT OPERATION
1537	(601)	BITSTRING	0	\$CK2DIAG	"B'00001000" We're in the dialog
1537	(601)	BITSTRING	0	\$CK2LOKD	"B'00000100" CKPT LOCK IS HELD
1537	(601)	BITSTRING	0	\$CK2PRIM	"B'00000010" PRIMARY CKPT OPERATION
1537	(601)	BITSTRING	0	\$CK2INIT	"B'00000001" INITIALIZATION OPERATION
1538	(602)	BITSTRING	1	\$CKPTFG3	CHECKPOINT PROCESSOR FLAG

Comment

EQU B'10000000' Reserved for future use

End of Comment

1538	(602)	BITSTRING	0	\$CK3BYLK	"B'01000000" CKPT lock msg bypassed
1538	(602)	BITSTRING	0	\$CK3CHLG	"B'00100000" BUILDING CH LOG PACKETS
1538	(602)	BITSTRING	0	\$CK34KPG	"B'00010000" BUILDING 4K PAGE PACKETS
1538	(602)	BITSTRING	0	\$CK3WTCP	"B'00001000" CKPT2 IS WRITE CHECKPOINT
1538	(602)	BITSTRING	0	\$CK3RDCP	"B'00000100" CKPT2 IS READ CHECKPOINT
1538	(602)	BITSTRING	0	\$CK3NMEM	"B'00000010" \$CKPT RAN OUT OF MEMORY

Comment

EQU B'00000001' RESERVED FOR FUTURE USE

End of Comment

1539	(603)	BITSTRING	1	\$CKPTFG4	CHECKPOINT PROCESSOR FLAG
1539	(603)	BITSTRING	0	\$CK4ECOP	"B'10000000" EXTRA COPY OF CKPT REQ
1539	(603)	BITSTRING	0	\$CK4ECSA	"B'01000000" EXTRA COPY IS IN ECSA
1539	(603)	BITSTRING	0	\$CK4OPVY	"B'00100000" Request to change OPVERIFY to YES
1539	(603)	BITSTRING	0	\$CK4OPVN	"B'00010000" Request to change OPVERIFY to NO
1539	(603)	BITSTRING	0	\$CK4OPRQ	"B'00001000" Work bit for \$SCAN to set operator request
1539	(603)	BITSTRING	0	\$CK4HRVS	"B'00000100" Hardware reserve or CF lock
1539	(603)	BITSTRING	0	\$CK4CKPC	"B'00000010" CKPT size was changed via operator command

\$HCT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1539	(603)	BITSTRING	0	\$CK4CFAB	"B'00000001" CF subtask ABENDED and cannot find CKG to post
1540	(604)	BITSTRING	1	\$TRCFG1	TRACE LOG PROCESSOR FLAG
1540	(604)	BITSTRING	0	\$TRCDWN	"B'00000001" Tell XEQ of trace log shutdown

Comment

 \$CKPTLOC is used in combination with \$CKPTUPD to determine if the CKPT data set size (the size of a CTENT) has changed. Every time the size is altered \$CKPTUPD is incremented. If \$CKPTLOC is not the same as \$CKPTUPD, then an update has occurred and the CKPT control blocks need to be updated.

End of Comment

1541	(605)	BITSTRING	1	\$CKPTLOC	Local copy of \$CKPTUPD
1542	(606)	BITSTRING	1	\$CKPTFG5	Checkpoint flag
1542	(606)	BITSTRING	0	\$CK5QSUS	"B'10000000" PCE obtained the queues
1543	(607)	BITSTRING	1		Reserved

Comment

MISCELLANEOUS HASP CONTROL FIELDS

End of Comment

1544	(608)	ADDRESS	4	\$MSAVE (5)	RTAM NON-REENTRANT REG SAVE AREA
1568	(620)	DBL WORD	8	\$POSTSAV (4)	Save area for \$POST et al

Comment

Work area used very early during JES2 initialization. These fields are not used once HASPIRA (HASPINIT) gets control.

End of Comment

1568	(620)	X'8 00008'	0	\$STARTTM	"\$MSAVE,8" STCK time at label HASP
1568	(620)	X'10 00008'	0	\$STARTCP	"\$MSAVE+8,8" CPU time at label HASP
1600	(640)	SIGNED	4	\$GETWKS V (8)	SAVE AREA FOR \$GET/\$RETWORK
1600	(640)	X'44 00004'	0	\$GETWKS F	"\$GETWKS V+4,4" \$GETWKS V R15 SLOT
1600	(640)	X'4C 00004'	0	\$GETWKS 1	"\$GETWKS V+12,4" \$GETWKS V R1 SLOT
1600	(640)	X'50 00004'	0	\$GETWKS 2	"\$GETWKS V+16,4" \$GETWKS V R2 SLOT
1600	(640)	X'40 00020'	0	\$CKPTSAV	"\$GETWKS V,4*8" SAVE AREA FOR \$CKPT
1600	(640)	X'50 00004'	0	\$CKPTSR 0	"\$CKPTSAV+16,4" \$CKPTSAV R0 SLOT
1600	(640)	X'54 00004'	0	\$CKPTSR 1	"\$CKPTSAV+20,4" \$CKPTSAV R1 slot
1632	(660)	DBL WORD	8	\$DOUBLE	JES2 MAIN-TASK SCRATCH WORK AREA
1640	(668)	DBL WORD	8	\$DWORK	JES2 MAIN-TASK SCRATCH WORK AREA
1648	(670)	DBL WORD	8	\$DWORK 2	JES2 MAIN-TASK SCRATCH WRK AREA
1648	(670)	X'60 00010'	0	\$WORK 16	"\$DOUBLE,16,C'X" JES2 MAIN-TASK 16 BYTE AREA
1648	(670)	X'60 00018'	0	\$WORK 24	"\$DOUBLE,24,C'X" JES2 MAIN-TASK 24 BYTE AREA
1656	(678)	BITSTRING	1	\$JOEWRKA	WORK A FOR ADDING JOES TO Q
1657	(679)	BITSTRING	3		Reserved for future use
1660	(67C)	SIGNED	4	(0)	Ensure fullword alignment
1660	(67C)	BITSTRING	0	\$SPMSKWA	SPOOL MASK WORK AREA
1660	(67C)	CHARACTER	8	\$BLANKS	8 CHARACTERS OF BLANKS
1672	(688)	DBL WORD	8	\$ZEROS	8 CHARACTERS OF HEX ZERO
1672	(688)	X'88	0	\$ZEROES	"\$ZEROS" ALTERNATE NAME FOR \$ZEROS
1672	(688)	X'88	0	\$ZERO	"\$ZEROS" Another name for \$ZEROS
1680	(690)	BITSTRING	4	\$ZEROFF F	QUEUE ELEMENT CHAIN MASK
1680	(690)	X'90	0	\$OFF F	"\$ZEROFF F" ALTERNATE NAME FOR \$ZEROFF F
1684	(694)	BITSTRING	4	\$000 F	INDEX ELEMENT MASK
1688	(698)	BITSTRING	4	\$ALLFF S	FULLWORD OF X'FF'S
1688	(698)	X'98	0	\$MINUS 1	"\$ALLFF S" ALTERNATE NAME FOR \$ALLFF S

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1692	(69C)	BITSTRING	4	\$MINUS2	CONSTANT -2
1692	(69C)	BITSTRING	0	\$WSUSER	"X'80" WS USER CRITERION INDICATION
1696	(6A0)	BITSTRING	4	\$WSBITOF	USED TO TURN USER ID BIT OFF
1700	(6A4)	BITSTRING	8	\$MAXDBLE	MAX POSITIVE NUMBER IN DOUBLEWORD
1700	(6A4)	X'A4 00004'	0	\$MAXFULL	"\$MAXDBLE,4" MAX POSITIVE NUMBER IN FULLWORD
1700	(6A4)	X'A4 00002'	0	\$MAXHALF	"\$MAXDBLE,2" MAX POSITIVE NUMBER IN HALFWORD
1700	(6A4)	X'A4 00002'	0	\$7FFF	"\$MAXDBLE,2" HIGH BIT OFF MASK
1700	(6A4)	X'A4 00004'	0	\$HIBITOF	"\$MAXDBLE,4" FULL WORD HI-ORDER BIT MASK
1708	(6AC)	SIGNED	4	\$F1	FULLWORD CONSTANT 1
1708	(6AC)	X'AE 00002'	0	\$H1	"\$F1+2,2,C'H" HALFWORD CONSTANT 1
1712	(6B0)	SIGNED	4	\$F2	FULLWORD CONSTANT 2
1712	(6B0)	X'B2 00002'	0	\$H2	"\$F2+2,2,C'H" HALFWORD CONSTANT 2
1716	(6B4)	SIGNED	4	\$F4	FULLWORD CONSTANT 4
1716	(6B4)	X'B6 00002'	0	\$H4	"\$F4+2,2,C'H" HALFWORD CONSTANT 4
1720	(6B8)	SIGNED	4	\$F6	FULLWORD CONSTANT 6
1720	(6B8)	X'BA 00002'	0	\$H6	"\$F6+2,2,C'H" HALFWORD CONSTANT 6
1724	(6BC)	SIGNED	4	\$F8	FULLWORD CONSTANT 8
1724	(6BC)	X'BE 00002'	0	\$H8	"\$F8+2,2,C'H" HALFWORD CONSTANT 8
1728	(6C0)	SIGNED	4	\$F255	FULLWORD CONSTANT 255
1728	(6C0)	X'C2 00002'	0	\$H255	"\$F255+2,2,C'H" HALFWORD CONSTANT 255
1732	(6C4)	SIGNED	4	\$F4096	FULLWORD CONSTANT 4096
1732	(6C4)	X'C6 00002'	0	\$H4096	"\$F4096+2,2,C'H" HALFWORD CONSTANT 4096
1736	(6C8)	SIGNED	4	\$HIBITON (0)	FULL WORD HI-ORDER BIT MASK
1736	(6C8)	X'DC	0	\$HEXTRAN	"*-C'0" HEXADECIMAL-TO-EBCDIC
1740	(6CC)	CHARACTER	16		TRANSLATE TABLE
1756	(6DC)	BITSTRING	1	\$CTLBFFS (0)	X'FF's to test cntl bytes

Comment

SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.

End of Comment

1756	(6DC)	ADDRESS	1	\$JSPLL	Length of JESSPOOL class
1757	(6DD)	CHARACTER	8	\$JSPLV	JESSPOOL class
1757	(6DD)	X'DC 00009'	0	\$JSPL	"\$JSPLL,*-\$JSPLL,C'X" JESSPOOL SAF class
1768	(6E8)	SIGNED	4	(0)	Ensure alignment
1768	(6E8)	DBL WORD	8	\$CLOCK	LAST INTERVAL TIMER CLOCK VALUE
1776	(6F0)	DBL WORD	8	\$MVSWAIT	STCK Time of MVS WAIT
1784	(6F8)	DBL WORD	8	\$MVSDISP	STCK Time when JES2 is dispatched from MVS WAIT
1792	(700)	ADDRESS	4	\$REGSAVC (18)	NON-REENTRANT REG. SAVE AREA
1792	(700)	X'8 00004'	0	\$REGSAVE	"\$REGSAVC+2*4,4" NON-REENTRANT REG SAVE AREA (16 WORDS-NOTE OVERLAY DEFINITION)
1864	(748)	ADDRESS	1	\$PSWSAVE	NON-REENTRANT PSW CC SAVE BYTE
1865	(749)	ADDRESS	1	\$PSWMODE	Non-reentrant PSW ASC save byte (copied from PSVMODE)
1872	(750)	BITSTRING	10		Reserved

\$HCT Map

Offsets

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

The \$XCFFLG1 and \$XCFFLG2 flags indicate the states of the automatic restart function. \$XCFFLG1 can only be modified in the main task. \$XCFFLG1 is manipulated by SCAN which can return the field to a previous state. This is done via the method SCAN uses to backup the storage that it is modifying (see \$SCANB macro). \$XCFFLG2 is modified when JESXCF has failed. The \$XCF1STR flag indicates a request to start the automatic restart function (AUTOESYS=ON by the operator). The \$XCF1STP flag indicates a request to stop the automatic restart function (AUTOESYS=OFF by the operator). The \$XCF1NXC in the off state indicates that the automatic restart function is active (ON). The \$XCF1NXC in the on state indicates that the automatic restart function is inactive (OFF). The \$XCF1ERR flag on indicates that the main task XCF function or the group exit has had an error. With the \$XCF1ERR flag set, the display for MASDEF will show AUTOESYS=FAILED. The \$XCF2ERR flag on indicates that the group exit has had an error. The \$XCF1NRS indicates that RESTART=NO was selected on the MASDEF statement. The \$XCF1NRS flag off will indicate that RESTART=YES was chosen.

End of Comment

1882	(75A)	ADDRESS	1	\$XCFFLG1	XCF status flags
1882	(75A)	BITSTRING	0	\$XCF1NAR	"B'10000000" Request no auto restart
1882	(75A)	BITSTRING	0	\$XCF1NRS	"B'01000000" No XCF restart from this member
1882	(75A)	BITSTRING	0	\$XCF1ERR	"B'00100000" XCF environment failed
1882	(75A)	BITSTRING	0	\$XCF1STR	"B'00010000" Request to set AUTOESYS on
1882	(75A)	BITSTRING	0	\$XCF1STP	"B'00001000" Request to set AUTOESYS off
1882	(75A)	BITSTRING	0	\$XCF1SGO	"B'00000100" An MVS has left the Sysplex
1882	(75A)	BITSTRING	0	\$XCF1MUD	"B'00000010" A member has changed state
1883	(75B)	ADDRESS	1	\$XCFFLG2	JESXCF status flag
1883	(75B)	BITSTRING	0	\$XCF2ERR	"B'10000000" JESXCF environment failed
1884	(75C)	ADDRESS	4	\$XCFIXVT	JESXCF Group token this is a copy of the \$HCCT field CCTIXVT
1888	(760)	SIGNED	4	\$TOTCKRN	Total number of 4K records in the checkpoint (this includes the checkpoint records, master record and change log)

Comment

Save area (PCE prefix) used by the JES2 dispatcher, JES2 initialization, STAM and JES2 termination. The initialization PCE id is placed in the work area so that if a \$WAIT with MVSWAIT=PCEINTID is done, an MVS wait will be performed (rather than a call to the dispatcher with this work area).

End of Comment

1892	(764)	SIGNED	4	(0)	ENSURE FULLWORD BOUNDARY
1892	(764)	BITSTRING	1	\$DISPSAV	DISPATCHER SAVE AREA
1892	(764)	ADDRESS	1	(2)	Set initialization PCE
1896	(768)	SIGNED	4	\$CKPTOAC	TOKEN CURRENT CKPT I/O
1900	(76C)	SIGNED	4	\$CKPTONX	TOKEN NEXT SCHED CKPT I/O
1904	(770)	DBL WORD	8	\$SIDTIME	TOD OF LAST CKPT FOR THIS SYSTEM

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1912	(778)	CHARACTER	0	\$\$SID	Member name (SMF) for this member
1912	(778)	ADDRESS	4	\$\$OWNNIT	ADDR OF THIS SYSTEM'S NIT ENTRY
1916	(77C)	CHARACTER	8	\$\$SNV (0)	JES NAME AND VERSION
1916	(77C)	CHARACTER	4	\$\$SSNM	NAME OF SUBSYSTEM
1920	(780)	CHARACTER	4	\$\$SSVS	VERSION, RELEASE, MOD
1924	(784)	ADDRESS	3	\$\$SYSID (0)	SYSTEM IDENTIFICATION
1924	(784)	ADDRESS	2	\$\$OWNNODE	NUMBER OF THIS NODE
1926	(786)	ADDRESS	1	\$\$SIDBUSY	SYSTEM ID OF THIS NODE
1928	(788)	SIGNED	2	\$\$CHLOGSZ	SIZE THIS SYSTEMS CH LOG
1930	(78A)	ADDRESS	1	\$\$SUBTASK	HASP SUBTASK SYSTEM STATUS
1931	(78B)	ADDRESS	1	\$\$STATUS	HASP SYSTEM STATUS
1932	(78C)	ADDRESS	4	\$\$IOTPDDB	OFFSET WITHIN IOT OF 1ST PDDB
1936	(790)	ADDRESS	4	\$\$CYLMAPL	DIRECT ACCESS ALLOCATION MAP LEN
1940	(794)	SIGNED	2	\$\$TGAELEN	TRACK GROUP ALLOC AREA LENGTH FOR NON-SPIN PRIMARY ALLOC IOT'S
1942	(796)	SIGNED	2	\$\$TGAENUM	NUMBER OF TGAE'S IN PRIMARY ALLOC IOT (MIN 50) - RESET TO ACTUAL VALUE DURING INITIALIZATION
1944	(798)	ADDRESS	4	\$\$AFFLEN	Number of bytes needed to hold system affinity bits
1944	(798)	X'9A 00002'	0	\$\$AFFLENH	"\$AFFLEN+2,2" Halfword of SYSAFF bytes
1944	(798)	X'4	0	\$\$CTLBLEN	"L'\$CKLEVMN" Size of the control byte entries CTLB's and CLCB's
1948	(79C)	BITSTRING	1	\$\$STATUS1 (0)	More HASP status flags

Comment

If a \$PJES2,ABEND is issued and a coupling facility checkpoint write is still active, COMM will issue the HASP552 message and wait for a post from CKPT to indicate the write is done. This bit will be set by COMM when CKPT is NOT to wait for XEQ processing to finish before posting COMM that checkpoint processing is complete.

End of Comment

1948	(79C)	BITSTRING	0	\$\$SDWNFST	"B'10000000" Shut down fast. CKPT don't wait for XEQ
1948	(79C)	BITSTRING	0	\$\$JINITIP	"B'01000000" JES2 initialization is in progress
1948	(79C)	BITSTRING	0	\$\$ST1PJTM	"B'00100000" \$PJES2,TERM issued
1948	(79C)	BITSTRING	0	\$\$WRMDONE	"B'00010000" Warm start completed
1948	(79C)	BITSTRING	0	\$\$STOPXEQ	"B'00001000" \$P XEQ issued
1948	(79C)	BITSTRING	0	\$\$CATMAX	"B'00000100" CAT max JOBS has been newly reached or has been \$T'ed
1948	(79C)	BITSTRING	0	\$\$WLMDIFF	"B'00000010" This member at WLM Service definition different from JESplex level
1948	(79C)	BITSTRING	0	\$\$WLMRGOK	"B'00000001" Force registration of all queues successful
1949	(79D)	BITSTRING	1	\$\$STATUS2	More HASP status flags
1949	(79D)	BITSTRING	0	\$\$BRTCLN	"B'10000000" PREBERTs owned by ABENDED PCEs exist
1949	(79D)	BITSTRING	0	\$\$XEQINT	"B'01000000" Call \$CATJCNT to initialize CATCURJ (xeq) class cnt
1950	(79E)	SIGNED	2	\$\$CTLBLNH (0)	Size of cntl bytes
1952	(7A0)	BITSTRING	1		Reserved for future IBM use
1953	(7A1)	BITSTRING	0	\$\$AFFINTY	Our system affinity token
1953	(7A1)	BITSTRING	4		Reserved for future IBM use
1960	(7A8)	ADDRESS	4	\$\$MAXREST	Max resistance of a path
1964	(7AC)	ADDRESS	2	\$\$NODREST	RESISTANCE OF THIS NODE
1966	(7AE)	ADDRESS	2	\$\$NODETOL	PATH RESISTANCE TOLERANCE
1968	(7B0)	ADDRESS	2	\$\$NITESIZ	SIZE OF NIT ELEMENT
1970	(7B2)	BITSTRING	1	\$\$MASPOST	CROSS-SYSTEM POST FLAG BYTES
1971	(7B3)	BITSTRING	1	\$\$PCEPOST	\$\$POST FLAG BYTE
1971	(7B3)	BITSTRING	0	\$\$PCEASYN	"B'10000000" ASYNCH POST FLAG BIT
1972	(7B4)	ADDRESS	2	\$\$BUFLENG	HASP IN-CORE BUFFER SIZE
1974	(7B6)	ADDRESS	2	\$\$SONWORK	SIGN-ON WORK SPACE
1976	(7B8)	ADDRESS	4	\$\$ACTIVE	COUNT OF ACTIVE FUNCTIONS
1980	(7BC)	ADDRESS	4	\$\$ACTVFSS	COUNT OF ACTIVE FSS'S
1984	(7C0)	BITSTRING	8	\$\$SJFJDVT	DEFAULT JDVT NAME

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1992	(7C8)	BITSTRING	8	\$MSKNODE	MASK NODE NUMBER (MDCTNODE)
2000	(7D0)	ADDRESS	4	\$ERRTRCA	"V(HASPTRCA)" TERM/RECOVERY CONTROL AREA
2004	(7D4)	SIGNED	4	\$HETOKEN	HASP MAIN TASK ESTAE TOKEN
2008	(7D8)	ADDRESS	2		RESERVED FOR FUTURE USE
2010	(7DA)	SIGNED	2	\$RECVCNT	NUMBER OF PCES IN RECOVERY
2012	(7DC)	ADDRESS	4	\$ERRERPL	ADDR OF ERPL IF \$ERROR, ELSE 0
2016	(7E0)	SIGNED	4	\$ERRREGS (3)	REGS 15, 0, 1 BEFORE \$ERROR
2016	(7E0)	X'E4 00004'	0	\$ERRREG0	"\$ERRREGS+4,4" REG 0 SLOT IN \$ERRREGS
2028	(7EC)	SIGNED	4	\$ERRCODE	CATASTROPHIC ERROR REASON CODE
2032	(7F0)	ADDRESS	2	\$EXCPCT	ACTIVE HASP I/O COUNT
2034	(7F2)	ADDRESS	1	\$XWTRFLG	EXTERNAL WRITERS FLAG
2034	(7F2)	BITSTRING	0	\$XWTRACT	"B'10000000" POST XWTR ACTIVE
2035	(7F3)	ADDRESS	1	\$MAXCMCT	MAXIMUM CONSOLE MESSAGE COUNT
2036	(7F4)	ADDRESS	4	\$FSETIM	TIME INTERVAL FOR ERROR ASSUMED FOR FSS/FSA/ORDERS (5 MINUTES)
2040	(7F8)	ADDRESS	4	\$RBFADDR	ADDR FOR TERM AS FAILING ADDR AT OUR RB LEVEL, IF NON-ZERO REGS ARE \$REGSAVE/\$CURPCE (NOT SDWA)
2044	(7FC)	BITSTRING	1	\$WARMTYP	Warmstart type descriptor FLAG.

Comment

WARM EQU X'80' Single-member warmstart
HOT EQU X'40' Hot start indicator
QUICK EQU X'20' Quick start indicator
CONFIG EQU X'10' All-member warmstart
ESYS EQU X'08' \$E MEMBER(x) warmstart
COLD EQU X'04' Cold start
MVS IPL EQU X'02' MVS was IPLed
COLDFMT EQU X'01' Cold start with format

End of Comment

2045	(7FD)	BITSTRING	1	\$BRTDTYP	\$DOGBERT working value for BERT type
2046	(7FE)	ADDRESS	2	\$XWTRCNT	CNT OF XWTRS WAITING ON JOT
2048	(800)	SIGNED	4	\$WRMINIT (0)	# OF USER REQUESTED WARM PCES
2048	(800)	SIGNED	2	\$WRMREG	# OF PCES FOR REGULAR WARMSTART
2050	(802)	SIGNED	2	\$WRMESYS	# OF PCES FOR \$E SYS RESTART
2052	(804)	ADDRESS	4	\$ERDOMID	DOM id for \$HASP400 message
2056	(808)	ADDRESS	4	\$ACCMBAD	CMB ADDRESS FOR HASP601 MESSAGE
2060	(80C)	ADDRESS	4	\$NDDOMID	MESSAGE ID FOR HASP607 MSG
2064	(810)	ADDRESS	4	\$SDCMBAD	CMB ADDRESS FOR HASP623 MESSAGE
2068	(814)	ADDRESS	4	\$PBELST	List of PREBERTs
2072	(818)	ADDRESS	2	\$PITNUM	NUMBER OF PITS FOR SCANTAB (\$MAXINIT, LATER \$MAXPART)
2074	(81A)	ADDRESS	2	\$NITECNT	COUNT OF NIT ENTRIES FOR SCANTAB, (\$MAXNODE, LATER \$NUMNODE)
2076	(81C)	ADDRESS	4	\$BRTFREC	Free BERT count (accurate only during thrshld proc)

Comment

HASP DEVICE CONTROL TABLE CHAIN POINTERS AND RELATED FIELDS. LOCAL/LINE/LOGON DCTS ARE CHAINED IN \$DCTPOOL USING THE DCTCHAIN FIELD. ALL OTHER DCTS ARE CHAINED IN \$DCTPOL2 USING DCTCHAIN. OTHER DCT CHAINING IS AS COMMENTED BELOW AND IN THE \$DCT MACRO PROLOG.

End of Comment

2080	(820)	ADDRESS	4	\$DCTPOOL	FIRST HASP DCT IN LOCAL DEVICE, LINE, AND LOGON CHAIN
2084	(824)	ADDRESS	4	\$DCTPOL2	FIRST HASP DCT IN CHAIN OF ALL OTHER DCTS
2088	(828)	ADDRESS	4	\$RDRDCT	FIRST LOCAL READER DCT ADDR
2092	(82C)	ADDRESS	4	\$INRDCT	FIRST INTRDR DCT ADDR (CSA)
2096	(830)	ADDRESS	4	\$PRTDCT	FIRST LOCAL PRINTER DCT ADDR
2100	(834)	ADDRESS	4	\$PUNDCT	FIRST LOCAL PUNCH DCT ADDR
2104	(838)	ADDRESS	4	\$ROUTDCT	FIRST NJE ROUTE DCT ADDR

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2108	(83C)	ADDRESS	4	\$LNEDCT	FIRST LINE DCT ADDR
2112	(840)	ADDRESS	4	\$MLNEDCT	FIRST MAS LINE DCT ADDR
2116	(844)	ADDRESS	4	\$LOGNDCT	FIRST LOGON DCT ADDR
2120	(848)	ADDRESS	4	\$XEQDCT	First Request-Job-ID/internal job DCT
2124	(84C)	ADDRESS	4	\$NETLDCT	First network xmitter/ receiver DCT
2128	(850)	ADDRESS	4	\$NETDCTS	FIRST FREE NETWORK DCT GROUP ADDR, GROUP CHAIN PTR = DCTDCB, IN-GROUP CHAIN = MDCTDCT
2132	(854)	ADDRESS	4	\$RMTDCTS	RMT RDR/PRPU DCTS, DCTCHAIN CONNCTS ALL (R1 RDRS/PRTS/PUNS, R2, ETC), IN-RMT VIA RATRDCT/MDCTDCT
2136	(858)	ADDRESS	4	\$OLDDCTS	Chain of unused DCTs that are eligible for reuse (these are not in any other chain of DCTs)
2140	(85C)	ADDRESS	4	\$OFFDCT	FIRST OFFLOAD DCT ADDRESS, TRANSMITTERS/RECEIVERS ARE CHAINED OFF THESE DCTS WITH XDCTDCT
2144	(860)	ADDRESS	4	\$OJRDCT	FIRST OFF.JR DCT ADDRESS
2148	(864)	ADDRESS	4	\$OSRDCT	FIRST OFF.SR DCT ADDRESS
2152	(868)	ADDRESS	4	\$OJTDCT	FIRST OFF.JT DCT ADDRESS
2156	(86C)	ADDRESS	4	\$OSTDCT	FIRST OFF.ST DCT ADDRESS

Comment

Pointers to active (not drained) DCTs

End of Comment

2160	(870)	ADDRESS	4	\$NJEADCT	Network SYSOUT xmitter DCTs
2164	(874)	ADDRESS	4	\$OFFADCT	Spl offload xmitter DCTs
2168	(878)	ADDRESS	4	\$LCLADCT	Local printer/punch DCTs

Comment

DCT COUNT FIELDS FOR DEVICES THAT DO NOT CORRESPOND WITH PROCESSORS (PCES) ON A ONE-FOR-ONE BASIS.

End of Comment

2172	(87C)	SIGNED	2	\$NUMLNES	NUMBER OF NJE/RJE LINES
2174	(87E)	SIGNED	2	\$NUMMLNE	NUMBER OF MAS LINES
2176	(880)	SIGNED	2	\$NETLNES	NUMBER OF NETWORK LINES
2178	(882)	SIGNED	2	\$NUMLOGS	NUMBER OF LOGON DCTS
2180	(884)	SIGNED	2	\$NUMOFFS	NUMBER OF OFFLOAD DEVICE DCTS
2182	(886)	ADDRESS	4	\$NUMLDEV (0)	Sub-device counts
2182	(886)	ADDRESS	1	\$NUMNJT	JOB XMITTERS PER NETLNE
2183	(887)	ADDRESS	1	\$NUMNJR	JOB RECEIVERS PER NETLNE
2184	(888)	ADDRESS	1	\$NUMNST	SYSOUT XMITTERS PER NETLNE
2185	(889)	ADDRESS	1	\$NUMNSR	SYSOUT RECEIVERS PER NETLNE

Comment

THE HASP PROCESSOR CONTROL ELEMENT (PCE) CHAIN POINTERS AND COUNT FIELDS. EACH SUBSECTION IS MAPPED USING THE OFFSETS PROVIDED BELOW. THE PCE TABLE (\$PCETAB) ENTRIES IN HASPTABS CONTAIN HCT OFFSETS TO THESE FIELDS. EACH PCE CHAIN POINTER POINTS TO THE FIRST PCE OF THAT PCE TYPE IN THE HASP PCE CHAIN, OR IS ZERO TO INDICATE NO PCES. EACH PAIR OF PCE COUNTS REPRESENTS THE NUMBER OF PCES OF THAT TYPE THAT IS 'DEFINED', E.G. THE NUMBER OF DEVICES (DCTS) DEFINED, AND THE NUMBER FOR WHICH PCES ARE CURRENTLY EXISTING, RESPECTIVELY. THE FIRST SETS OF FIELDS MUST BE TOGETHER BECAUSE OF THE \$HCCT MAPPING AND IT'S USE BY \$\$POST.

End of Comment

2185	(889)	X'8	0	\$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH
2185	(889)	X'4	0	\$PCEHCTP	"0,4" PCE POINTER

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2185	(889)	X'4 00004'	0	\$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2185	(889)	X'2'	0	\$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2185	(889)	X'2 00002'	0	\$PCEHCTA	"2,2" ALLOCATED PROCESSOR COUNT

Comment

SPECIAL PROCESSORS, MAPPING MUST MATCH CCTPCEPE ORDER

End of Comment

2188	(88C)	SIGNED	4	\$POSTELS (0)	START OF PCE ELEMENTS
2188	(88C)	ADDRESS	4	\$COMMPCE	COMMAND PROCESSOR
2192	(890)	SIGNED	2	\$NUMCOMM	
2196	(894)	ADDRESS	4	\$EXECPCPE	EXECUTION PROCESSOR
2200	(898)	SIGNED	2	\$NUMEXEC	
2204	(89C)	ADDRESS	4	\$ASYNPCE	ASYN I/O PROCESSOR
2208	(8A0)	SIGNED	2	\$NUMASYN	
2212	(8A4)	ADDRESS	4	\$XTIMPCE	TIME EXCESSION PROCESSOR
2216	(8A8)	SIGNED	2	\$NUMXTIM	
2220	(8AC)	ADDRESS	4	\$TIMEPCE	STIMER/TTIMER PROCESSOR
2224	(8B0)	SIGNED	2	\$NUMTIMR	
2228	(8B4)	ADDRESS	4	\$TRCPCE	EVENT TRACE LOG PROCESSOR
2232	(8B8)	SIGNED	2	\$NUMEVTL	
2236	(8BC)	ADDRESS	4	\$SPOLPCE	SPOOL MANAGER PROCESSOR
2240	(8C0)	SIGNED	2	\$NUMSPOL	
2244	(8C4)	ADDRESS	4	\$MLLMPCE	LINE MANAGER PROCESSOR
2248	(8C8)	SIGNED	2	\$NUMMLLM	
2252	(8CC)	ADDRESS	4	\$SOMPCE	SPOOL OFFLOAD PROCESSOR
2256	(8D0)	SIGNED	2	\$NUMSOM	
2260	(8D4)	ADDRESS	4	\$CKTPPCE	CHECKPOINT PROCESSOR
2264	(8D8)	SIGNED	2	\$NUMCKPT	
2268	(8DC)	ADDRESS	4	\$MCONPCE	REMOTE CONSOLE PROCESSOR
2272	(8E0)	SIGNED	2	\$NUMMCON	
2276	(8E4)	ADDRESS	4	\$SFSPCE	SCHEDULER FACILITY SRV PCE
2280	(8E8)	SIGNED	2	\$NUMSFS	
2284	(8EC)	ADDRESS	4	\$ENFPCE	ENF LISTEN Processor
2288	(8F0)	SIGNED	2	\$NUMENF	

Comment

END OF COMMON HCCT MAPPING

End of Comment

2292	(8F4)	ADDRESS	4	\$RDRPCE	LOCAL READERS
2296	(8F8)	SIGNED	2	\$NUMRDRS	
2300	(8FC)	ADDRESS	4	\$INRPCE	INTERNAL READERS
2304	(900)	SIGNED	2	\$NUMINRS	
2308	(904)	ADDRESS	4	\$TPRDPCE	RJE READERS
2312	(908)	SIGNED	2	\$NUMTPRD	
2316	(90C)	ADDRESS	4	\$JCLPCE	CONVERSION PROCESSOR
2320	(910)	SIGNED	2	\$NUMCNVT	
2324	(914)	ADDRESS	4	\$PSOPCE	PSO PROCESSORS
2328	(918)	SIGNED	2	\$NUMPSO	
2332	(91C)	ADDRESS	4	\$OUTPCE	OUTPUT PROCESSOR
2336	(920)	SIGNED	2	\$NUMOUT	
2340	(924)	ADDRESS	4	\$PRTPCE	LOCAL PRINTERS
2344	(928)	SIGNED	2	\$NUMPRTS	
2348	(92C)	ADDRESS	4	\$TPPRPCE	RJE PRINTERS
2352	(930)	SIGNED	2	\$NUMTPPR	
2356	(934)	ADDRESS	4	\$PUNPCE	LOCAL PUNCHES
2360	(938)	SIGNED	2	\$NUMPUNS	
2364	(93C)	ADDRESS	4	\$TPPUPCE	RJE PUNCHES
2368	(940)	SIGNED	2	\$NUMTPPU	
2372	(944)	ADDRESS	4	\$PURGPCE	PURGE PROCESSORS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2376	(948)	SIGNED	2	\$NUMPURG	
2380	(94C)	ADDRESS	4	\$PRTYPCE	PRIORITY AGING PROCESSOR
2384	(950)	SIGNED	2	\$NUMPRTY	
2388	(954)	ADDRESS	4	\$PRYOPCE	OUTPUT PRIO AGING PROCESSOR
2392	(958)	SIGNED	2	\$NUMPRYO	
2396	(95C)	ADDRESS	4	\$WARMPCPE	WARM START PROCESSORS
2400	(960)	SIGNED	2	\$NUMWARM	
2400	(960)	X'4	0	\$WARMCNT	"4" Number of \$E SYS warmstart PCes after init complete
2404	(964)	ADDRESS	4	\$NJTPCE	NJE JOB TRANSMITTERS
2408	(968)	SIGNED	2	\$NUMNJTS	
2412	(96C)	ADDRESS	4	\$OJTPCE	OFFLOAD JOB TRANSMITTERS
2416	(970)	SIGNED	2	\$NUMOJTS	
2420	(974)	ADDRESS	4	\$NJRPCE	NJE JOB RECEIVERS
2424	(978)	SIGNED	2	\$NUMNJRS	
2428	(97C)	ADDRESS	4	\$OJRPCE	OFFLOAD JOB RECEIVERS
2432	(980)	SIGNED	2	\$NUMOJRS	
2436	(984)	ADDRESS	4	\$NSTPCE	NJE SYSOUT TRANSMITTERS
2440	(988)	SIGNED	2	\$NUMNSTS	
2444	(98C)	ADDRESS	4	\$OSTPCE	OFFLOAD SYSOUT TRANSMITTERS
2448	(990)	SIGNED	2	\$NUMOSTS	
2452	(994)	ADDRESS	4	\$NSRPCE	NJE SYSOUT RECEIVERS
2456	(998)	SIGNED	2	\$NUMNSRS	
2460	(99C)	ADDRESS	4	\$OSRPCE	OFFLOAD SYSOUT RECEIVERS
2464	(9A0)	SIGNED	2	\$NUMOSRS	
2468	(9A4)	ADDRESS	4	\$NPMPCE	NETWORK PATH MANAGER
2472	(9A8)	SIGNED	2	\$NUMNPM	
2476	(9AC)	ADDRESS	4	\$NRRPCE	NJE ROUTE RECEIVER
2480	(9B0)	SIGNED	2	\$NUMNRR	
2484	(9B4)	ADDRESS	4	\$NRTPCE	NJR ROUTE TRANSMITTER
2488	(9B8)	SIGNED	2	\$NUMNRT	
2492	(9BC)	ADDRESS	4	\$RESMPCE	RESOURCE MANAGER
2496	(9C0)	SIGNED	2	\$NUMRESM	
2500	(9C4)	ADDRESS	4	\$STACPCE	STATUS/CANCEL PROCESSOR
2504	(9C8)	SIGNED	2	\$NUMSTAC	
2508	(9CC)	ADDRESS	4	\$SPINPCE	SPIN PROCESSOR
2512	(9D0)	SIGNED	2	\$NUMSPIN	
2516	(9D4)	ADDRESS	4	\$FCLPCE	FSS CLEANUP ON EOM PCES
2520	(9D8)	SIGNED	2	\$NUMFCL	
2524	(9DC)	ADDRESS	4	\$JCMDPCE	Job command processor
2528	(9E0)	SIGNED	2	\$NUMJCMD	
2532	(9E4)	ADDRESS	4	\$XCFPCE	COUPLING PROCESSOR
2536	(9E8)	SIGNED	2	\$NUMXCF	
2540	(9EC)	ADDRESS	4	\$XCMPCE	XCF Command processor
2544	(9F0)	SIGNED	2	\$NUMXCM	
2548	(9F4)	ADDRESS	4	\$ARMPCE	ARM SUPPORT PROCESSOR
2552	(9F8)	SIGNED	2	\$NUMARM	
2556	(9FC)	ADDRESS	4	\$SNFPCE	SPOOL Management Processor
2560	(A00)	SIGNED	2	\$NUMSNF	
2564	(A04)	ADDRESS	4	\$SPIPCE	Sysout API Processor
2568	(A08)	SIGNED	2	\$NUMSPI	
2572	(A0C)	ADDRESS	4	\$DILPCE	Do It Later Processor
2576	(A10)	SIGNED	2	\$NUMDIL	
2576	(A10)	X'C	0	\$POSTLST	**-\$PCEHCTE" ADDR OF LAST PCE ELEMENT
2580	(A14)	BITSTRING	16	\$RSV3 (0)	RESERVED FOR FUTURE IBM USE

Comment

HASP PROCESSOR CONTROL ELEMENT DISPATCHER FIELDS

End of Comment

2596	(A24)	ADDRESS	4	\$PCEORG	ADDRESS OF FIRST PCE
2600	(A28)	ADDRESS	4	\$CEURLAST	ADDRESS OF LAST PCE
2604	(A2C)	ADDRESS	4	\$PCURPCE	ADDRESS OF CURRENT PCE (IF ANY)
2608	(A30)	DBL WORD	8	(0)	ALIGN DISPATCHER ECF FIELDS

\$HCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2608	(A30)	BITSTRING	0	\$HASPECF	MASTER EVENT CONTROL FIELD, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE POSTED
2608	(A30)	BITSTRING	0	\$MASECF	CROSS-SYSTEM EVENT CONTROL FIELD, RESOURCES \$POSTED IN THIS ECF WILL BE PROPAGATED TO OTHER MEMBERS
2608	(A30)	BITSTRING	1	\$MLLMCEF	LINE MGR ECF, IF BIT IS 1 LINE MGR SHOULD BE \$POSTED IF SAME \$HASPECF FLAG \$POSTED AND \$DRMLLM IS ON

Comment

PROCESSOR QUEUES

There are 2 queues of \$XECBs in JES2. The first is the queue of \$XECBs that have been \$WAITed on. This is a double threaded queue with \$XECBQF pointing to the first element and \$XECBQL pointing to the last. This queue has both converted and unconverted \$XECBs on it. The second queue is the queue of converted \$XECBs that have been posted. \$XECBs are added out of the MVS POST exit and removed by the main task. This is a single threaded stack pointed to by \$EXTECBQ. Note: a \$XECB can only be placed on this queue if it is currently being \$WAITED on (it is on the \$XECBQF). To ensure this a CDS is used in JES2's MVS POST exit. This requires the 3 pointers to be arranged with the POSTED queue chain fields be between the 2 waited on chain fields. Do not change the order of these fields.

End of Comment

2608	(A30)	BITSTRING	0	\$XECBQ (0)	Queue head of all \$XECBs currently defined to JES2 dispatcher (serialized by JES2 main task)
2608	(A30)	ADDRESS	4	\$XECBQF	1st \$XECB on chain
2612	(A34)	ADDRESS	4	\$EXTECBQ	QUEUE HEAD OF XECBS FOR PCES TO BE DISPATCHED.
2616	(A38)	ADDRESS	4	\$XECBQL	Last \$XECB on chain
2620	(A3C)	ADDRESS	4	\$DRQUES	DISPATCHER RESOURCE WAIT QUEUES, DOUBLE WORDS, FORWARD/BACKWARD POINTERS FOR CIRCULAR QUEUES
2624	(A40)	SIGNED	4	\$READY (0)	PCES READY FOR DISPATCH
2624	(A40)	ADDRESS	4	\$READYF	First \$PCE on queue
2628	(A44)	ADDRESS	4	\$READYL	Last \$PCE on queue

Comment

ALL VARIABLE LOCATED BETWEEN \$SAVEBEG AND \$SAVEEND WILL BE REGULARLY CHECKPOINTED BY JES2 AND WILL BE RESTORED ON ANY WARM START OF JES2.

End of Comment

2632	(A48)	SIGNED	4	\$SAVEBEG (0)	BEGINNING OF SAVE AREA
2632	(A48)	CHARACTER	4	\$MSTRID	MASTER RECORD EYECATCHER
2636	(A4C)	SIGNED	4	\$MASTERL	CHECKPOINT MASTER RCD LEN

Comment

New \$MSTRVER values require a change to the \$SCANTAB for \$ACTIVATE/\$D ACTIVATE.

End of Comment

2640	(A50)	ADDRESS	1	\$MSTRVER	Master record version
2640	(A50)	X'6	0	\$MSTRVRN	"6" Pre-OS 240 version #
2640	(A50)	X'7	0	\$MSTRVR4	"7" OS 240 - OS 310 version #

Offsets

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

When the size of the checkpoint is updated, the count in \$CKPTUPD is updated. If the count in the master record does not match the count on the local member (\$CKPTLOC), then the checkpoint has been updated.

End of Comment

2641	(A51)	BITSTRING	1	\$CKPTUPD	CKPT update pending mask
2642	(A52)	SIGNED	2	\$MSTHCTL (0)	Length of CKPT HCT area
2644	(A54)	ADDRESS	4	\$SCHLOGLN	LENGTH USED PART CH LOG
2648	(A58)	SIGNED	2	\$CKRECN	NUMBER OF 4K CHECKPNT RECS
2650	(A5A)	SIGNED	1	\$WCHECK	CKPT WRITE-CHECK-RCD Value
2651	(A5B)	BITSTRING	1	\$CKPTFLG	CHECKPOINT DISPOSITION
2652	(A5C)	BITSTRING	8	\$CKPUSER	CHECKPOINTED USER FIELD
2660	(A64)	BITSTRING	4	\$NEWSJQE	OFFSET OF JES2-NEWS JQE OR ZERO
2664	(A68)	BITSTRING	4	\$NEWSIOT	MTTR OF JES2-NEWS IOT, OR 0
2668	(A6C)	BITSTRING	2	\$NEWSCLV	Level of current NEWS (one matching IOT in \$NEWSIOT)
2670	(A6E)	BITSTRING	2	\$NEWSLVL	Level number of news data set being created (same as \$NEWSCVL if none being created)
2672	(A70)	ADDRESS	2	\$QSELEN	Length of a QSE
2674	(A72)	ADDRESS	2	\$JQEFREC	COUNT OF FREE JQE
2676	(A74)	ADDRESS	4	\$JQFREE	OFFSET OF FIRST FREE JQE

Comment

\$JQHEADS through \$QRBOLD (including the equate \$QRBBDTY must remain together.
The scanning of the job queues depends on this.

End of Comment

2680	(A78)	ADDRESS	4	\$JQHEADS (47)	HEADS - ACTIVE JOB QUEUE CHAINS
2680	(A78)	X'4	0	\$JQHEADL	"4" LENGTH OF JOB QUE HEAD ENTRY
2680	(A78)	X'2F	0	\$JQTYPES	"(*-\$JQHEADS)/\$JQHEADL" NUMBER OF JOB QUEUES
2680	(A78)	X'90	0	\$JQCLSSZ	"36*\$JQHEADL" NUMBER OF EXEC JOB CLASS QUEUES
2868	(B34)	ADDRESS	4	\$QRBOLD	Job Rebuild Queue head
2868	(B34)	X'30	0	\$QRBBDTY	"(*-\$JQHEADS)/\$JQHEADL" Number of job queues including rebuild queue
2872	(B38)	SIGNED	2	\$REBLDS	Total number of job/output rebuilds since last cold or all member warm start
2874	(B3A)	SIGNED	2	\$KITNUM2	Num KITS in the checkpoint
2876	(B3C)	SIGNED	2	\$JQELEN	TOTAL LENGTH OF A JQE
2878	(B3E)	SIGNED	2	\$JQEMSKL	LENGTH-1 OF JQE SPLS USED MASK
2880	(B40)	SIGNED	2	\$JQEEXFR	OFFSET TO POSSIBLE FREE EXTENSION AREA IN MASTER RECORD
2882	(B42)	SIGNED	2	\$MAXESZ	MAXIMUM SIZE OF EXTENSION

\$HCT Map

Offsets

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

 \$HASP355 and some \$HASP050 resources have a sysplex scope and need to be CKPTed. Here we maintain the member id of the JES that has issued the message for each resource. Also the threshold for each resource is maintained here. The time stamp for the HASP355 message is saved for comparison within the sysplex. Any new \$HASP050 resources with a sysplex scope must have a SYSID and threshold percent pair, such as the ones below, added somewhere in the checkpointed portion of the HCT. Also the list of resources to be dealt with on a restart must be updated in HASPIRDA.

End of Comment

2884	(B44)	SIGNED	2	\$RSCTABL (0)	Starting point of member ids and threshold values
2884	(B44)	BITSTRING	1	\$JQSYSID	SYSID for JQE message
2885	(B45)	ADDRESS	2	\$JQEPRCT	JQE threshold percentage
2887	(B47)	BITSTRING	1	\$JOSYSID	SYSID for JOE message
2888	(B48)	ADDRESS	2	\$JOEPRCT	JOE threshold percentage
2890	(B4A)	BITSTRING	1	\$JNSYSID	SYSID for JOB num message
2891	(B4B)	ADDRESS	2	\$JNOPRCT	JOB NUM threshold percent
2893	(B4D)	BITSTRING	1	\$TGSYSID	SYSID for TRK GRP message
2894	(B4E)	ADDRESS	2	\$TGPRCT	TRK GRP threshold percent
2896	(B50)	SIGNED	4	\$SPFTIME	Time HASP355 message issued
2900	(B54)	ADDRESS	4	\$LASNIFF (0)	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)
2900	(B54)	SIGNED	1	\$LASNIFM	Last extent sniffed
2901	(B55)	SIGNED	2	\$LASNIFO	Last offset sniffed within extent
2903	(B57)	BITSTRING	1	\$LASNIFB	Last bit sniffed within byte
2904	(B58)	BITSTRING	0	\$RSOCLDP	RSO cleaned up for mem mask
2904	(B58)	SIGNED	4		Used in 5.1 for \$TGLOST
2908	(B5C)	SIGNED	4	\$SCQJQE	OFFSET OF SHRD COMM QUEUE JQE
2912	(B60)	BITSTRING	0	\$SPLEXST	BIT MSK OF EXISTNG SPLS
2912	(B60)	BITSTRING	0	\$SPLSLCT	SPLS ABLE TO SELECT WRK
2912	(B60)	BITSTRING	1	\$SPLINAC	MASK OF INACTIVE SPOOLS

Comment

\$TGALLOC = \$TGTOTAL-\$TGFFREE The number of track groups in use for all active spool volumes.
 Note: track groups assigned to the BLOB are considered allocated for purposes of this count
 \$TGTOTAL = Number of track groups on STATUS=ACTIVE spool volumes.
 \$TGDEFND = Number of track groups associated with any spool volume.
 \$TGFFREE = Number of track groups available for allocation (on STATUS=ACTIVE spool volumes.)
 Note: track groups assigned to the BLOB are not considered free for purposes of this count
 \$NUMTG = Initialization Statement number of track groups in the system (size of TGM).

End of Comment

2912	(B60)	ADDRESS	4	\$TGALLOC	NUM OF AVAILABLE TGS ALLOCATED
2916	(B64)	ADDRESS	4	\$TGTOTAL	TOTAL NUMBER OF AVAILABLE TGS
2920	(B68)	ADDRESS	4	\$TGDEFND	NUMBER OF DEFINED TGS
2924	(B6C)	ADDRESS	4	\$TGFFREE	FREE TG COUNT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2928	(B70)	ADDRESS	2	\$QSEMAX	Number of members possible
2930	(B72)	ADDRESS	2	\$QSENDEF	NUMBER OF DEFINED SYSTEMS
2932	(B74)	ADDRESS	4	\$KBYTES	THOUSANDS OF BYTES ON SPOOL
2936	(B78)	SIGNED	4	\$DASWRKQ	OFFSET OF 1ST DAS ON DAS WORK Q
2940	(B7C)	SIGNED	4	\$DASTRKQ	OFFSET OF 1ST DAS REP. IN TGM
2944	(B80)	SIGNED	4	\$DATAKEY	MASTER PERIPHERAL DATA SET KEY
2948	(B84)	CHARACTER	4	\$HASPID	CHECKPOINT RECORD IDENTIFICATION
2952	(B88)	CHARACTER	8	\$NDENAME	Node name

Comment

The following 2 fields are used for \$HASP050 processing

End of Comment

2960	(B90)	BITSTRING	1	\$BTSYSID	SYSID for BERT message
2961	(B91)	ADDRESS	2	\$BRTPRCT	BERT threshold percentage
2963	(B93)	BITSTRING	1	\$FNCCNT	Number of volumes to fence a job to
2964	(B94)	SIGNED	4	\$ZAPTIME	Time last ZAPJOB executed
2968	(B98)	ADDRESS	4	(3)	Reserved for future use

Comment

 The next two fields represent the highest and lowest VRM (Version, Release, Modification) JES2s active in the JESplex. See the \$JES2xxx equates in \$HASPEQU.

End of Comment

2980	(BA4)	SIGNED	2	\$MASVER (0)	Versions active in JESplex
2980	(BA4)	SIGNED	1	\$HIGHVER (0)	Highest active JES2
2981	(BA5)	SIGNED	1	\$LOWVER (0)	Lowest active JES2
2982	(BA6)	ADDRESS	2	\$PRIRATE	PRIORITY AGING RATE
2984	(BA8)	ADDRESS	1	\$PRIHIGH	JOB PRIORITY AGING UPPER
2985	(BA9)	ADDRESS	1	\$PRILOW	AND LOWER LIMITS
2986	(BAA)	ADDRESS	2	\$PRORATE	OUTPUT PRIORITY AGING RATE
2988	(BAC)	ADDRESS	2	\$PRTYOHI	OUTPUT PRIORITY AGING UPPER
2990	(BAE)	ADDRESS	2	\$PRTYOLO	AND LOWER LIMITS
2992	(BB0)	BITSTRING	1	\$FLAG1	Checkpointed flag byte
2992	(BB0)	BITSTRING	0	\$UNSPUN	"B'01000000" UNPROC SPIN IOTS QUEUED
2992	(BB0)	BITSTRING	0	\$NONSHR	"B'01000000" NON-SHARED SPOOLS ALLOWED
2992	(BB0)	BITSTRING	0	\$MASACTV	"B'00100000" SPECIFIES MORE THAN ONE RUNNING SYSTEM FOR MAS AND IS SET EVERY CHECKPOINT CYCLE
2992	(BB0)	BITSTRING	0	\$MVFENCE	"B'00010000" SPOOL FENCING (MINIMUM NUMBER OF VOLUMES PER JOB) IN EFFECT
2992	(BB0)	BITSTRING	0	\$EXECDUP	"B'00001000" Duplicate job checking is suppressed
2992	(BB0)	BITSTRING	0	\$CNVTWEE	"B'00000100" Indicates the converter should wait for EXCL ENQs
2992	(BB0)	BITSTRING	0	\$BRDCST	"B'00000010" SHARED BROADCAST BEING USED
2992	(BB0)	BITSTRING	0	\$PRUNSP	"B'00000001" PROCESSING UNSPUN OUTPUT
2993	(BB1)	BITSTRING	1	\$FLAG2 (0)	2nd ckpointed flag byte
2993	(BB1)	BITSTRING	0	\$WTBSYJO	"B'10000000" AN OUTPUT PROCESSOR IS WAITING AVAILABILITY OF A BUSY JOE
2993	(BB1)	BITSTRING	0	\$CF1VOL	"B'01000000" MAS knows CKPT1 is volatile
2993	(BB1)	BITSTRING	0	\$CF2VOL	"B'00100000" MAS knows CKPT2 is volatile
2993	(BB1)	BITSTRING	0	\$CKOPVER	"B'00010000" CKPTDEF OPVERIFY=YES

\$HCT Map

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

\$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.					

End of Comment					
2994	(BB2)	SIGNED	2	\$CKPCTPW	Count of checkpoint writes
2996	(BB4)	SIGNED	4	\$OPSPJNO	LAST JOB IN JIX EXAMINED FOR UNSPUN WORK
3000	(BB8)	SIGNED	2	\$CLRECN	NUMBER OF 4K RECS IN CH LG
Comment					
COLD START INFORMATION - VERSION, SYSID, DATE, TIME					
End of Comment					
3002	(BBA)	CHARACTER	5	\$COLDJSN	NAME OF JOB ENTRY SUBSYSTEM
3007	(BBF)	CHARACTER	8	\$COLDVSN	VERSION OF JES2
3015	(BC7)	CHARACTER	11	\$COLDJSP	
3026	(BD2)	CHARACTER	4	\$COLDSID	SMF SYSID FOLLOWED BY A SPACE
3031	(BD7)	ADDRESS	3		RESERVED FOR FUTURE USE
3036	(BDC)	SIGNED	4	\$COLDDTM (2)	DATE AND TIME STAMP IN 'TIME BIN' FORMAT
3044	(BE4)	SIGNED	4	\$LASTCLD	STCK time of cold start
3048	(BE8)	SIGNED	4	\$LASTSPV	STCK time of last track group map rebuild
3052	(BEC)	CHARACTER	4	\$SPVMNAM	Member name of system doing spool validation
3056	(BF0)	SIGNED	4	\$LASTAMW	STCK time of last all member warm start
3060	(BF4)	CHARACTER	4	\$AMWMMNAM	Member name of system doing all member warm start
Comment					
THE FOLLOWING FIELDS ARE USED FOR CHECKPOINT VERIFICATION DURING A WARM START OF JES2					
End of Comment					
3064	(BF8)	SIGNED	2	\$CWWSFLD (0)	STARTING POINT FOR VERIFICATION OF FIELDS CHANGED ONLY BY COLD OR CONFIGURATION-WIDE WARM START
3064	(BF8)	ADDRESS	2	\$NUMNODE	MAXIMUM NUMBER OF NODES
3066	(BFA)	CHARACTER	5	\$SPOOL	SPOOL VOLUME PREFIX
3071	(BFF)	SIGNED	1	\$SPLLEN	NUMBER-1 OF CHARS OF \$SPOOL
3072	(C00)	SIGNED	2	\$SPOLNUM	NUMBER OF SPOOL VOLUMES
3072	(C00)	X'1 00001'	0	\$SPLNUMB	"\$SPOLNUM+1,1" ALLOWED (ONE BYTE VERSION)
3074	(C02)	ADDRESS	2	\$BUFSIZE	HASP BUFFER SIZE
3076	(C04)	ADDRESS	2	\$MAXJOBS	MAX NUMBER OF JOBS IN SYSTEM
3080	(C08)	ADDRESS	4	\$NUMJOES	NUMBER OF JOB OUTPUT ELEMENTS
3084	(C0C)	ADDRESS	2	\$NODEID	NUMBER OF THIS NODE
3086	(C0E)	ADDRESS	1	\$RECINCR	RECORD ALTERNATION PARAMETER
3087	(C0F)	ADDRESS	1	\$TCELSIZ	NBR OF BUFFERS IN A TRAKCELL
3088	(C10)	ADDRESS	4	\$NUMTG	TOTAL NUMBER OF TRACK GROUPS
3092	(C14)	BITSTRING	1	\$DESTFLG	USERDEST flag
3092	(C14)	BITSTRING	0	\$DESTNNN	"B'10000000" Nnnnn is a userid
3092	(C14)	BITSTRING	0	\$DESTRNN	"B'01000000" Rnnnn is a userid
3092	(C14)	BITSTRING	0	\$DESTRMN	"B'00100000" RMnnnn is a userid
3092	(C14)	BITSTRING	0	\$DESTRMT	"B'00010000" RMTnnnn is a userid
3092	(C14)	BITSTRING	0	\$DESTUNN	"B'00001000" Unnnn is a userid
3092	(C14)	BITSTRING	0	\$DESTDLC	"B'00000100" Display 'LOCAL.' if userid (only set in HCCT)
3092	(C14)	BITSTRING	0	\$DESTNNR	"B'00000010" DEST=userid is not allowed; Must use nodename.userid
3093	(C15)	ADDRESS	3		Reserved for future use
3096	(C18)	SIGNED	4	\$BERTNUM	Number of BERTs
3100	(C1C)	ADDRESS	4		Reserved for future use

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3104	(C20)	CHARACTER	8	\$XCFGPNM	XCF Group Name
3112	(C28)	SIGNED	4	\$SAVEEND (0)	END OF SAVE AREA
3112	(C28)	X'F8 00030'	0	\$CWWSVER	"\$CWWSFLD,*-\$CWWSFLD" END OF COLD/CWWS VER FIELDS
3112	(C28)	X'E0 '	0	\$SAVELEN	"\$SAVEEND-\$SAVEBEG" LENGTH OF SAVE AREA
Comment					
HASP R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S () HALFWORDS, NOT ZEROS, IN THIS AREA.					
End of Comment					
3112	(C28)	X'D8 '	0	\$HCTPSZ	"4096-(*-HCT)"
3112	(C28)	BITSTRING	1	\$PATCHSP (0)	DEFINE PATCH SPACE
3112	(C28)	X' '	0	\$HCTLEN	**"-HCT" LENGTH OF ENTIRE HCT

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$#INDEXA	234		\$BSCLGRQ	414	0
\$ACCMBAD	808		\$BSCLIM	40C	0
\$ACTABLE	178		\$BSCNWBFB	412	0
\$ACTIGN	3C1	80	\$BSCPRCT	40A	50
\$ACTIVE	7B8		\$BSCWBF	410	0
\$ACTREQ	3C1	40	\$BSPGCT	510	
\$ACTRNUM	108		\$BSPNTE	511	
\$ACTVFSS	7BC		\$BSPSIZ	512	1C
\$ADDSYNS	3C0	80	\$BTSYSID	B90	0
\$AFFINTY	7A1		\$BUFLENG	7B4	0
\$AFFLEN	798		\$BUFLGRQ	422	0
\$AFFLENH	798	9A 00002	\$BUFLIM	41A	0
\$ALLFFS	698	FFFFFFFF	\$BUFNWBFB	420	0
\$AMWMNAM	BF4	40404040	\$BUFPRCT	418	50
\$APPLTBL	17C		\$BUFSIZE	C02	F98
\$AQSE	180		\$BUFWBF	41E	0
\$ARMPCE	9F4		\$BUFXLIM	428	0
\$ARMVR	5FC	8	\$BUSYQUE	194	
\$ASYNCO	184		\$BUSYRQ	198	
\$ASYNPCE	89C		\$CALCUR	1A0	
\$ASYPCIQ	188		\$CALONE	19C	
\$AUTOINV	3B4		\$CATMAX	79C	4
\$BADTRTG	2F8		\$CATPTR	1A4	
\$BERTNUM	C18	0	\$CCOMCH	515	5B
\$BERTPTR	18C		\$CCOMCHR	4E1	5B
\$BFRBLD	6C		\$CF1VOL	BB1	40
\$BFSZBSC	506	208	\$CF2VOL	BB1	20
\$BFSZPP	50A	0	\$CHLOG	1A8	
\$BFSZSNA	508	190	\$CHLOGLN	A54	
\$BFXLGRQ	430	0	\$CHLOGSZ	788	0
\$BFXNWBFB	42E	0	\$CKBCRNT	1B4	
\$BFXPRCT	426	50	\$CKC	1B8	
\$BFXWBF	42C	0	\$CKCSIZE	4A0	0
\$BITSONA	190		\$CKG1	1AC	
\$BLANKS	67C	40404040	\$CKG2	1B0	
\$BLDTGBA	74		\$CKLEVM	378	7C 00004
\$BRDCST	BB0	2	\$CKOLDLV	380	
\$BRTCLN	79D	80	\$CKOPVER	BB1	10
\$BRDTYP	7FD	0	\$CKPCTPW	BB2	0
\$BRTFREC	81C		\$CKPTDPS	600	10
\$BRTPRCT	B91		\$CKPTDPY	600	8
\$BSCCHEQ	2FC		\$CKPTDWN	600	80
\$BSCFREC	40E	0	\$CKPTFG1	600	39

\$HCT Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value	
\$CKPTFG2	601	0		\$COMMFG1	5FE	0	
\$CKPTFG3	602	0		\$COMMPC	88C		
\$CKPTFG4	603	0		\$COMMQTP	70		
\$CKPTFG5	606	0		\$COMMQUE	1D4		
\$CKPTFLG	A5B	0		\$COMMWAT	5FE	40	
\$CKPTIO	1BC			\$CONWKQ	1D8		
\$CKPTLDP	600	1		\$CPTMAP	1DC		
\$CKPTLEV	378	0		\$CPTPOOL	1E0		
\$CKPTLOC	605	0		\$CREATE	3BF	1	
\$CKPTLVP	378	78	00008	\$CTBADA	530		
\$CKPTMSG	600	40		\$CTLB	1E4		
\$CKPTOAC	768			\$CTLBFFS	6DC		
\$CKPTONX	76C			\$CTLBIO	1E8		
\$CKPTPCE	8D4			\$CTLBLEN	798	4	
\$CKPTPRI	600	2		\$CTLBLNH	79E	4	
\$CKPTPTR	1C0			\$CTLBX	1EC		
\$CKPTQHD	1C8			\$CURPCE	A2C		
\$CKPTSAV	640	40	00020	\$CWWSFLD	BF8		
\$CKPTSR0	640	50	00004	\$CWWSVER	C28	F8	00030
\$CKPTSR1	640	54	00004	\$CYLMAPL	790		
\$CKPTTEK	600	4		\$DADEBAD	1F0		
\$CKPTTMD	600	20		\$DASAREA	1F4		
\$CKPTUPD	A51	0		\$DASEXT	1FC		
\$CKPUSER	A5C	0		\$DASFRST	1F8		
\$CKRECN	A58	0		\$DASTRKQ	B7C	0	
\$CKW	1CC			\$DASWRKQ	B78	0	
\$CK1DFLT	600	39		\$DATAKEY	B80	0	
\$CK2DIAG	601	8		\$DBGALL	3CB		
\$CK2FMT	601	10		\$DBGAPPC	3CB	10	
\$CK2INIT	601	1		\$DBGBERT	3CB	80	
\$CK2LOCK	601	80		\$DBGCKPT	3CB	40	
\$CK2LOKD	601	4		\$DBGMISC	3CB	4	
\$CK2PRIM	601	2		\$DBGSAF	3CB	1	
\$CK2READ	601	40		\$DBGSTRG	3CB	8	
\$CK2WRT	601	20		\$DBGSYMR	3CB	2	
\$CK3BYLK	602	40		\$DBGVERS	3CB	20	
\$CK3CHLG	602	20		\$DCTPOL2	824		
\$CK3NMEM	602	2		\$DCTPOOL	820		
\$CK3RDCP	602	4		\$DDSEGLM	3A8		
\$CK3WTCP	602	8		\$DEBGOPS	3CB	80	
\$CK34KPG	602	10		\$DELAYTM	388		
\$CK4CFAB	603	1		\$DESTDLC	C14	4	
\$CK4CKPC	603	2		\$DESTFLG	C14	0	
\$CK4ECOP	603	80		\$DESTNNN	C14	80	
\$CK4ECSA	603	40		\$DESTNNR	C14	2	
\$CK4HRSV	603	4		\$DESTRMN	C14	20	
\$CK4OPRQ	603	8		\$DESTRMT	C14	10	
\$CK4OPVN	603	10		\$DESTRNN	C14	40	
\$CK4OPVY	603	20		\$DESTUNN	C14	8	
\$CK5QSUS	606	80		\$DIAGTBL	128		
\$CLCB	1C4			\$DILHEAD	100		
\$CLOCK	6E8	0		\$DILPCE	A0C		
\$CLRECN	BB8	0		\$DILTAL	104		
\$CMBFRE	466	0		\$DISPACE	476	A	
\$CMBLIM	462	0		\$DISPCNT	474	0	
\$CMBPRCT	460			\$DISPSAV	764		
\$CNVTWEE	BB0	4		\$DISTERR	B0		
\$COLDDTM	BDC	0		\$DMNDSET	3BF	4	
\$COLDJSN	BBA	D1C5E2F2		\$DOM	88		
\$COLDJSP	BC7	40C3D6D3		\$DOMIDN	4D8	2	
\$COLDSID	BD2			\$DOMID1	4D4		
\$COLDVSN	BBF	40404040		\$DOMQUE	200		
\$COMEXTN	1D0			\$DOMQUEA	204		
\$COMMABT	5FE	20		\$DOUBLE	660	0	
\$COMMMDWN	5FE	80		\$DPCEACT	588		

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value		
\$DPCEALC	582		\$EXTP	94			
\$DPCEDEF	580		\$FCLPCE	9D4			
\$DPCEEND	584		\$FIXCHLG	208			
\$DPCEFLG	58C		\$FIXLIST	20C			
\$DPCELEN	58C	D	\$FLAG1	BB0	0		
\$DP CETMD	58C	1	\$FLAG2	BB1	10		
\$DP CETMX	58C	C0	\$FNCCNT	B93	0		
\$DP CETOF	58C	40	\$FRECMB	8C			
\$DP CETON	58C	80	\$FREDEVA	48			
\$DP CETSF	58C	41	\$FREJLOC	CC			
\$DP CETSO	58C	81	\$FRELOK	C4			
\$DRQUES	A3C		\$FREUCBA	50			
\$DSNSPOL	4A8	E2E8E2F1	\$FSSETIM	7F4			
\$DSPXITA	2C		\$F1	6AC	1		
\$DSTRSTK	170		\$F2	6B0	2		
\$DTEALOC	140		\$F255	6C0	FF		
\$DTECKCF	160		\$F4	6B4	4		
\$DTECKVR	15C		\$F4096	6C4	1000		
\$DTECNVT	154		\$F6	6B8	6		
\$DTEGSUB	164		\$F8	6BC	8		
\$DTEIMAG	13C		\$GENSYS	598			
\$DTELAST	138		\$GENWORK	598			
\$DTELIST	5D6	98	00048	\$GENWRKL	5FC	64	
\$DTELSTF	598		\$GETDEVA	44			
\$DTEOFF	158		\$GETJLOC	C8			
\$DTEORG	134		\$GETLOK	C0			
\$DTESMF	148		\$GETSMFA	9C			
\$DTESPOL	144		\$GETUCBA	4C			
\$DTEVTM	14C		\$GETWKSF	640	44	00004	
\$DTEWTO	150		\$GETWKS SV	640	0		
\$DWORK	668	0	\$GETWKS1	640	4C	00004	
\$DWORK2	670	0	\$GETWKS2	640	50	00004	
\$DYNADDR	54		\$GETWRKA	218			
\$ECBEXTN	28	1800000	\$GTWKTAB	214			
\$ECKTRMJ	5FC	1	\$HASC B	21C			
\$EMEMAFF	208		\$HASPDCB	220			
\$ENFPCE	8EC		\$HASPECB	24			
\$ERDM497	4D4		\$HASPECF	A30			
\$ERDOMID	804		\$HASPID	B84	D1C5E2F2		
\$ERRCODE	7EC	0	\$HASP MAP	14			
\$ERRERPL	7DC		\$HASPPRM	2AC	C8C1E2D7		
\$ERRREGS	7E0		\$HASPRB	224			
\$ERRREG0	7E0	E4	00004	\$HASPTCB	228		
\$ERRTRCA	7D0		\$HCCT	2F0			
\$ESTBYTE	3D8		\$HCTLEN	C28			
\$ESTIME	3FC		\$HCTPSZ	C28	D8		
\$ESTIM9L	3FC	4	\$HETOKEN	7D4	0		
\$ESTLNCT	3E4		\$HEXITA	B8			
\$ESTLN9L	3E4	6	\$HEXTINT	BC			
\$ESTMX9L	3D8	6	\$HEXTRAN	6C8	DC		
\$ESTPAGE	3CC		\$HFAM	22C			
\$ESTPG9L	3CC	8	\$HIBITOF	6A4	A4	00004	
\$ESTPN9L	3F0	8	\$HIBITON	6C8	80000000		
\$ESTPUN	3F0		\$HIGHVER	BA4	0		
\$ESTTCNT	3CC	5	\$HTDIST	516	A		
\$EST1	3CC		\$H1	6AC	AE	00002	
\$EXCPA	90		\$H2	6B0	B2	00002	
\$EXCPCT	7F0	0	\$H255	6C0	C2	00002	
\$EXCPEXA	3C		\$H4	6B4	B6	00002	
\$EXECDUP	BB0	8	\$H4096	6C4	C6	00002	
\$EXECDWN	5FF	80	\$H6	6B8	BA	00002	
\$EXECFG1	5FF	0	\$H8	6BC	BE	00002	
\$EXECPCE	894		\$ICEFREC	456	0		
\$EXECSPN	5FF	40	\$ICEFRZC	458	0		
\$EXTECBQ	A34		\$ICELIM	454	0		

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$ICELOST	230		\$LCKPTR	270	
\$ICEPRCT	452	50	\$LCLADCT	878	
\$IMAGE	168		\$LEVEL	328	40404040
\$INIWARM	238		\$LINECT	3C2	
\$INRDCT	82C		\$LIRCT	524	1
\$INRPCE	8FC		\$LMTPBOT	20	
\$INTRDCB	5FC	4	\$LMT1	18	
\$IOERROR	A8		\$LMT1C	1C	
\$IOTPDDB	78C		\$LNEDCT	83C	
\$JCAN	68		\$LOCKOUT	390	3E8
\$JCLERR	3C1	20	\$LOGNDCT	844	
\$JCLPCE	90C		\$LOWVER	BA5	0
\$JCMDPCE	9DC		\$LSEPDBL	49E	10
\$JCOPYLM	514		\$LSEPFUL	49E	20
\$JESACCT	23C		\$LSEPHAF	49E	40
\$JESEFFA	110		\$LSEPNON	49E	80
\$JESTOKA	240		\$LSPTR	274	
\$JES2_LEVEL	328		\$MACVERS	10	40
\$JINITIP	79C	40	\$MAILMSG	3C3	80
\$JIXJNUM	10C		\$MAINSTK	16C	
\$JNEW	244		\$MASACTV	BB0	20
\$JNOPRCT	B4B		\$MASECF	A30	
\$JNSYSID	B4A	0	\$MASPOST	7B2	0
\$JNTPTR	248		\$MASTER	278	
\$JOBQECL	33C		\$MASTERI	27C	
\$JOBQBUF	24C		\$MASTERL	A4C	0
\$JOBQPTR	250		\$MASVER	BA4	
\$JOEPRCT	B48		\$MAXCMCT	7F3	
\$JOEWRKA	678		\$MAXDBLE	6A4	7FFFFFFF
\$JOSYSID	B47	0	\$MAXDELT	3AC	78
\$JOTABLE	254		\$MAXDORM	3A4	1F4
\$JOTPOST	258		\$MAXEXSZ	B42	FA0
\$JQCLSSZ	A78	90	\$MAXFAIL	494	0
\$JQEEXFR	B40	0	\$MAXFULL	6A4	A4 00004
\$JQEEXT	25C		\$MAXHALF	6A4	A4 00002
\$JQEFREC	A72	0	\$MAXHOP	3B2	0
\$JQELEN	B3C	0	\$MAXINT	39C	
\$JQEMSKL	B3E	3	\$MAXJOBS	C04	0
\$JQEPRCT	B45		\$MAXMSGQ	3AE	C8
\$JQFREE	A74		\$MAXPART	51A	3
\$JQHEADL	A78	4	\$MAXREST	7A8	
\$JQHEADS	A78		\$MAXSESS	450	FFFF
\$JQRBDTY	B34	30	\$MAXVUSE	490	0
\$JQRBLD	B34		\$MCONACT	5FD	80
\$JQSYSID	B44	0	\$MCONFG1	5FD	0
\$JQYPES	A78	2F	\$MCONMSG	280	
\$JQXPTR	260		\$MCONNPM	5FD	20
\$JSPL	6DD	DC 00009	\$MCONPCE	8DC	
\$JSPLL	6DC		\$MCONWAT	5FD	40
\$JSPLV	6DD	D1C5E2E2	\$MCONWPM	5FD	10
\$JWEHAVT	268		\$MCT	118	
\$JWELTBL	264		\$MINDORM	3A0	64
\$KBYTES	B74		\$MINHOLD	394	5F5E0FF
\$KITNUM	38C		\$MINUS1	698	98
\$KITNUM2	B3A	0	\$MINUS2	69C	FFFFFFFE
\$KITPTR	26C		\$MLBFSIZ	504	190
\$LASNIFB	B57	0	\$MLLMCEF	A30	
\$LASNIFF	B54		\$MLLMPCE	8C4	
\$LASNIFM	B54	0	\$MLNEDCT	840	
\$LASNIFO	B55	0	\$MSAVE	608	
\$LASTAMW	BF0	0	\$MSGXTR	12C	
\$LASTCLD	BE4	0	\$MSKNODE	7C8	80402010
\$LASTSPV	BE8	0	\$MSTHCTL	A52	1E0
\$LBFREC	41C	0	\$MSTRID	A48	D4E2E3D9
\$LBFREC	42A	0	\$MSTRVER	A50	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$MSTRVRN	A50	6	\$NUMCMDS	45C	0
\$MSTRVR4	A50	7	\$NUMCNVT	910	20000
\$MVFENCE	BB0	10	\$NUMCOMM	890	10000
\$MVSDISP	6F8		\$NUMCPTS	36A	0
\$MVSWAIT	6F0		\$NUMDIL	A10	70000
\$MWORK	284		\$NUMENF	8F0	10000
\$M581DVN	580		\$NUMEVTL	8B8	10000
\$M581ERR	58C		\$NUMEXEC	898	10000
\$M581FGF	590	80	\$NUMFAIL	498	0
\$M581FLG	590		\$NUMFCL	9D8	10000
\$M581FL1	590	40	\$NUMGCRE	3B8	0
\$M581FL2	590	20	\$NUMINRS	900	20000
\$M581FNT	590	10	\$NUMJCMD	9E0	10000
\$M581INF	58E		\$NUMJOES	C08	
\$M581RC	588		\$NUMLDEV	886	
\$NDDOMID	80C		\$NUMLNES	87C	0
\$NDENAME	B88	40404040	\$NUMLOGS	882	0
\$NETACCT	288		\$NUMMCON	8E0	10000
\$NETDCTS	850		\$NUMMLLM	8C8	10000
\$NETLDCT	84C		\$NUMMLNE	87E	0
\$NETLNES	880	0	\$NUMNHB	440	FFFF
\$NEWSCLV	A6C	0	\$NUMNJR	887	
\$NEWSIOT	A68	0	\$NUMNJRS	978	0
\$NEWSJQE	A64	0	\$NUMNJT	886	
\$NEWSLVL	A6E	0	\$NUMNJTS	968	0
\$NHBFREC	446	0	\$NUMNODE	BF8	1
\$NHBLGRQ	44C	0	\$NUMNPM	9A8	10000
\$NHBLIM	444	0	\$NUMNRR	9B0	0
\$NHBNWBF	44A	0	\$NUMNRT	9B8	0
\$NHBPRICT	442	50	\$NUMNSR	889	
\$NHBWBF	448	0	\$NUMNSRS	998	0
\$NIPFCB	4F4	5C5C5C5C	\$NUMNST	888	
\$NIPFLSH	4FC	5C5C5C5C	\$NUMNSTS	988	0
\$NIPUCS	4F8	C7C6F1F0	\$NUMOFFS	884	0
\$NITABLE	28C		\$NUMOJRS	980	0
\$NITECNT	81A	0	\$NUMOJTS	970	0
\$NITESIZ	7B0	0	\$NUMOSRS	9A0	0
\$NJEADCT	870		\$NUMOSTS	990	0
\$NJEOPIS	3C3		\$NUMOUT	920	20000
\$NJRICE	974		\$NUMPATH	3B0	1
\$NJTPCE	964		\$NUMPRTS	928	0
\$NMSGFRE	470	0	\$NUMPRTY	950	10000
\$NMSGNUM	46C	0	\$NUMPRYO	958	10000
\$NMSGPRC	468		\$NUMPSO	918	20000
\$NODEID	C0C	1	\$NUMPUNS	938	0
\$NODETOL	7AE	0	\$NUMPURG	948	20000
\$NODREST	7AC	64	\$NUMRDRS	8F8	0
\$NONSHR	BB0	40	\$NUMRESM	9C0	10000
\$NOPRCCW	49C		\$NUMSFS	8E8	10000
\$NOPUCCW	49D		\$NUMSMFB	478	0
\$NPMPCE	9A4		\$NUMSNF	A00	10000
\$NRRPCE	9AC		\$NUMSOM	8D0	10000
\$NRTICE	9B4		\$NUMSPI	A08	20000
\$NSRPCE	994		\$NUMSPIN	9D0	30000
\$NSTICE	984		\$NUMSPOL	8C0	10000
\$NUCFIXD	290		\$NUMSTAC	9C8	20000
\$NUMACE	518	14	\$NUMTG	C10	
\$NUMARM	9F8	10000	\$NUMTIMR	8B0	10000
\$NUMASYN	8A0	10000	\$NUMTPPR	930	0
\$NUMAUTO	3B6	0	\$NUMTPPU	940	0
\$NUMBSC	408	FFFF	\$NUMTPRD	908	0
\$NUMBUF	416	FFFF	\$NUMVTAM	432	FFFF
\$NUMBUFX	424	FFFF	\$NUMWARM	960	10000
\$NUMCKPT	8D8	10000	\$NUMXCF	9E8	10000
\$NUMCMBS	45E	0	\$NUMXCM	9F0	10000

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$NUMXTIM	8A8	10000	\$PRMDEND	5A0	80
\$NWECEB	40		\$PRMDFLG	5A0	
\$OFFADCT	874		\$PRMDINX	5A0	
\$OFFDCT	85C		\$PRMDSAV	598	
\$OJRDCT	860		\$PRMDTBL	2A8	
\$OJRPCE	97C		\$PRMDWKL	5A0	9
\$OJTDCT	868		\$PROCDFT	5FC	3
\$OJTPCE	96C		\$PROCESS	5FC	3
\$OLDDCTS	858		\$PRODISP	5FC	10
\$OPSPJNO	BB4	0	\$PRONEWS	5FC	80
\$OPTCOLD	3BC	40	\$PRORATE	BAA	0
\$OPTCONS	3BC	2	\$PRPUSRV	114	
\$OPTFMT	3BC	80	\$PRSCNWB	5FC	20
\$OPTLIST	3BC	10	\$PRTBOPT	3BF	80
\$OPTLOG	3BC	8	\$PRTCALL	4E0	80
\$OPTQWIK	3BC	1	\$PRTDCT	830	
\$OPTREQ	3BC	20	\$PRTFCB	4EC	F6404040
\$OPTSTAT	3BC	38	\$PRTOPTS	3BF	
\$OPTSTA1	3BD	0	\$PRTOPT2	4E0	80
\$OPTSTD	3BC	38	\$PRTPCE	924	
\$OPT1STD	3BD		\$PRTRANS	3BF	8
\$OP1CKPT	3BD	40	\$PRTUCS	4F0	F0404040
\$OP1PJS2	3BD	20	\$PRTYJOB	3BE	1
\$OP1SFCE	3BD	8	\$PRTYOHI	BAC	FF0
\$OP1SPEC	3BD	80	\$PRTYOLO	BAE	0
\$OP1SVAL	3BD	10	\$PRTYOUT	3BE	4
\$OP1UNAC	3BD	4	\$PRTYPCE	94C	
\$ORIGMHD	398	0	\$PRUNSP	BB0	1
\$OSRDCT	864		\$PRYOPCE	954	
\$OSRPCE	99C		\$PSLIST	2B4	
\$OSTDCT	86C		\$PSOPCE	914	
\$OSTPCE	98C		\$PSWMODE	749	
\$OUTPCE	91C		\$PSWSAVE	748	
\$OWNNIT	778		\$PUNBOPT	3BF	40
\$OWNNODE	784	1	\$PUNDCT	834	
\$PADDR	294		\$PUNPCE	934	
\$PATCHSP	C28	0	\$PURGPCE	944	
\$PBELST	814		\$QINDEXA	2B8	
\$PCEASYN	7B3	80	\$QSELEN	A70	0
\$PCEHCTA	889	2	\$QSEMAX	B70	0
\$PCEHCTC	889	4	\$QSENDEF	B72	1
\$PCEHCTD	889	2	\$QSE1	2BC	
\$PCEHCTE	889	8	\$QUESMFA	98	
\$PCEHCTP	889	4	\$RASSIGN	5FC	2
\$PCELAST	A28		\$RATABLE	2C0	
\$PCEORG	A24		\$RBDM497	4D8	
\$PCEPOST	7B3	0	\$RBFADDR	7F8	
\$PCT	298		\$RCOMCHR	4E2	5B
\$PERFCB	29C		\$RDRAREA	51D	E9
\$PITABLE	2A4		\$RDRDCT	828	
\$PITNUM	818	0	\$RDRPCE	8F4	
\$PLVL	330		\$READY	A40	
\$PLXDYNI	324	0	\$READYF	A40	
\$POSTELS	88C		\$READYL	A44	
\$POSTEXA	34		\$REBLDS	B38	0
\$POSTLST	A10	C	\$RECINCR	C0E	
\$POSTSAV	620	0	\$REVCNT	7DA	0
\$PPBSIZE	368		\$REGSAVC	700	
\$PRFDATA	2A0		\$REGSAVE	700	8 00004
\$PRFXFLG	4E3	20	\$REQBUF	D4	
\$PRIHIGH	BA8		\$REQBUFN	D8	80000000
\$PRILOW	BA9		\$RESMPCE	9BC	
\$PRIOOPT	3BE	2	\$RETRYCT	528	2
\$PRIOUT	36C		\$RETSAVA	D0	
\$PRIRATE	BA6	0	\$RJEOPTS	3C0	

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$RJOB OPT	3C1		\$SPFTIME	B50	0
\$RMTDCTS	854		\$SPINACT	48F	
\$RMTNUM	500	0	\$SPINJQE	5FC	40
\$RMTSON	2C8		\$SPINPCE	9CC	
\$ROTDISP	578		\$SPIPCE	A04	
\$ROTJOE	574		\$SPLEXST	B60	
\$ROTJQE	570		\$SPLINAC	B60	
\$ROUTDCT	838		\$SPLEN	BFF	
\$RPLCOMQ	2C4		\$SPLNUMB	C00	1 00001
\$RRRBOPT	3BF	20	\$SPLSLCT	B60	
\$RPUBOPT	3BF	10	\$SPMSKWA	67C	
\$RSCTABL	B44		\$SPOFERR	51C	
\$RSEPDBL	49E	1	\$SPOLMSG	50F	
\$RSEPFUL	49E	2	\$SPOLNUM	C00	20
\$RSEPHAF	49E	4	\$SPOLPCE	8BC	
\$RSEPNON	49E	8	\$SPOOL	BFA	E2D7D6D6
\$RSOCLDP	B58		\$SPOOLQ	2E8	
\$RSRVCKG	4A4		\$SPVLR SN	3CA	
\$RSV3	A14	0	\$SPVMNAM	BEC	40404040
\$RTIMTAB	2CC		\$SPV1OPT	3CA	3
\$RUNOPTS	3BE	2	\$SPV1QER	3CA	1
\$RWL	58		\$SPV1SPL	3CA	4
\$RWLPRTS	60		\$SPV1VAL	3CA	2
\$RWLPUNS	64		\$SSNM	77C	5C5C5C5C
\$RWLRDRS	5C		\$SSVS	780	5C5C5C5C
\$SAPTOK	FC		\$STABNDA	B4	
\$SAVAREA	2D0		\$STACPCE	9C4	
\$SAVEARS	2D4		\$STARTCP	620	10 00008
\$SAVEBEG	A48		\$STARTTM	620	8 00008
\$SAVEBOF	12		\$STATUS	78B	
\$SAVEEND	C28		\$STATUS1	79C	40
\$SAVELEN	C28	E0	\$STATUS2	79D	0
\$SCANMDL	52C	64	\$STCJECL	334	
\$SCANPDL	52A	40	\$STDFORM	4E4	E2E3C440
\$SCANWKA	598		\$STERSTK	174	
\$SCANXWA	580	40404040	\$STIMASK	50E	
\$SCLPEND	4DC		\$STIMBUF	50E	80
\$SCNDL16	598	98 00010	\$STIMDCT	50E	20
\$SCNDL24	598		\$STIMERA	A0	
\$SCNDWKA	598	98 00008	\$STIMSBT	50E	10
\$SCNDWKB	598	A0 00008	\$STIMTIM	50E	40
\$SCNDWKC	598	A8 00008	\$STOPXEQ	79C	8
\$SCOPSPL	4E3	10	\$STQEA CT	2F4	
\$SCOP SYS	4E3	20	\$STWORK	2EC	
\$SCQADDR	2DC		\$ST1PJTM	79C	20
\$SCQJQE	B5C	0	\$SUBTASK	78A	
\$SCT	2E0		\$SXADDR	124	
\$SDCMBAD	810		\$SYMBM	130	
\$SDUMPR	AC		\$SYNCTOL	370	
\$SDWNFST	79C	80	\$SYSID	784	
\$SEPPAGE	49E		\$TBLNUM	348	2
\$SFSPCE	8E4		\$TCELSIZ	C0F	
\$SFWA	2D8		\$TGAEL EN	794	0
\$SID	778		\$TGAENUM	796	32
\$SIDBUSY	786		\$TGALLOC	B60	
\$SIDTIME	770	0	\$TGBAD	348	
\$SJJDVT	7C0	0	\$TGDEFND	B68	
\$SLVL	331		\$TGFREE	B6C	
\$SMFBUSY	2E4		\$TGMADDR	340	
\$SMFFREC	47E	0	\$TGMAP	344	
\$SMFPRCT	47A		\$TGMHEAD	340	
\$SNFPCE	9FC		\$TGMSETA	78	
\$SNV	77C		\$TGPRCT	B4E	
\$SOMPCE	8CC		\$TGRADDR	34C	
\$SONWORK	7B6	0	\$TGRHDR	34C	28

\$HCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$TGFSIZE	482	1E	\$WTOC	84	
\$TGSYSID	B4D	0	\$XCFFLG1	75A	
\$TGTOTAL	B64		\$XCFFLG2	75B	
\$TIMEPCE	8AC		\$XCFCGPNM	C20	40404040
\$TJEVTOK	F8		\$XCFIXVT	75C	
\$TOTCKRN	760		\$XCFCPCE	9E4	
\$TOTCKSZ	384		\$XCF1ERR	75A	20
\$TPPPPCE	92C		\$XCF1MUD	75A	2
\$TPPUPCE	93C		\$XCF1NAR	75A	80
\$TPRDPCE	904		\$XCF1NRS	75A	40
\$TQEQUE	300		\$XCF1SGO	75A	4
\$TRACK	7C		\$XCF1STP	75A	8
\$TRCDWN	604	1	\$XCF1STR	75A	10
\$TRCFG1	604	0	\$XCF2ERR	75B	80
\$TRCPCE	8B4		\$XCMPCE	9EC	
\$TRGENER	304		\$XCPECBX	38	1800000
\$TRTIME	520		\$XECBQ	A30	
\$TSUJECL	338		\$XECBQF	A30	
\$TTBPRCT	484		\$XECBQL	A38	
\$TTIMERA	A4		\$XEQDCT	848	
\$UCT	120		\$XEQINT	79D	40
\$UNSPUN	BB0	80	\$XFRACTV	314	
\$UPADDR	350		\$XFRBEND	318	
\$USERSET	3BF	2	\$XFRDEND	31C	
\$USER1	358		\$XFRECBX	30	1800000
\$USER2	35C		\$XITADDR	320	
\$USER3	360		\$XMASADR	210	
\$USER4	364	0	\$XTIMPCE	8A4	
\$USER5	366	0	\$XWTRACT	7F2	80
\$USXADDR	354		\$XWTRCNT	7FE	0
\$UVERS	8	40404040	\$XWTRFLG	7F2	
\$VERSACT	48E	80	\$ZAPTIME	B94	0
\$VERSFRE	48A	0	\$ZERO	688	88
\$VERSINI	48E	10	\$ZEROES	688	88
\$VERSION	0	40404040	\$ZEROFFF	690	FFFFFF
\$VERSKPT	48E	20	\$ZEROS	688	0
\$VERSNUM	488	0	\$0FFF	690	90
\$VERSSTT	48E	10	\$000F	694	FF
\$VERSWRN	48C	50	\$7FFF	6A4	A4
\$VLOGQUE	308				00002
\$VTMFREC	438	0			
\$VTMLGRQ	43E	0			
\$VTMLIM	436	0			
\$VTMNWBF	43C	0			
\$VTMPRCT	434	50			
\$VTMWBF	43A	0			
\$WARMACT	38E	0			
\$WARMCNT	960	4			
\$WARMPCE	95C				
\$WARMTYP	7FC				
\$WCHECK	A5A	0			
\$WLMDATA	30C				
\$WLMDIFF	79C	2			
\$WLMRGOK	79C	1			
\$WORK16	670	60			00010
\$WORK24	670	60			00018
\$WRMDONE	79C	10			
\$WRMESYS	802	1			
\$WRMINIT	800				
\$WRMREG	800	1			
\$WSAPTR	310				
\$WSBITOF	6A0	7F			
\$WSUSER	69C	80			
\$WTBSYJO	BB1	80			
\$WTO	80				

\$HFAM Programming Interface information

Programming Interface information

\$HFAM

End of Programming Interface information

\$HFAM Heading Information

Common Name: HASP File Allocation Map
Macro ID: \$HFAM
DSECT Name: HFAM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HFAM
 Offset: HFAMID-HFAM
 Length: L'HFAMID

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

Size: See HFAMLEN

Created by: JES2 Initialization

Pointed to by: \$HFAM field of the \$HCT data area

Serialization: The JES2 Checkpoint data set lock (\$QSUSE) is used.
 NOTE: This is a checkpointed control block and part of check record. Any change to this control block will be reflected across systems.

Function: This dsect is used to map file identification and use information about the two checkpoint data sets and their backups (NEWCKPTS). For the mapping of the individual entries, see the \$HFAME control block.

\$HFAM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HFAM	HASP FILE ALLOCATION MAP
0	(0)	CHARACTER	308	HFAMREC (0)	Offset table needs hard coded length
0	(0)	CHARACTER	4	HFAMID	HFAM EYE CATCHER
4	(4)	ADDRESS	1	HFAMVER	CONTROL BLOCK VERSION NUMBER
4	(4)	X'3 '	0	HFAMVERN	"03" CONTROL BLOCK VER. NUMBER
5	(5)	BITSTRING	1	HFAMLSYS	System # of last system to update the ckpt.(\$SIDBUSY)
6	(6)	BITSTRING	1	HFAMFLAG	FLAG BYTE
6	(6)	BITSTRING	0	HFAMDPLX	"B'10000000" 0 - COMPLEX IS IN DUAL MODE 1 - COMPLEX IS IN DUPLEX MODE
6	(6)	BITSTRING	0	HFAMIDSN	"B'01000000" IGNORE DSN/VOL IN HFAMES
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HFAMCSTR (2)	COLD START TIME STAMP
16	(10)	SIGNED	4	HFAMUSR1	RESERVED FOR USER
20	(14)	CHARACTER	0	HFAMCKP1	DATA SET SPEC FOR CHECKPOINT 1
20	(14)	CHARACTER	0	HFAMCKP2	DATA SET SPEC FOR CHECKPOINT 2
20	(14)	CHARACTER	0	HFAMCKN1	DATA SET SPEC FOR NEW CKPT1
20	(14)	CHARACTER	1	HFAMCKN2	DATA SET SPEC FOR NEW CKPT2
20	(14)	X'14 '	0	HFAMLEN	"*-HFAM" LENGTH OF HFAM
20	(14)	ADDRESS	2	(0)	Ensure hardcoded value
20	(14)	ADDRESS	2	(0)	is accurate

\$HFAM Cross Reference

Name	Hex Offset	Hex Value
HFAMCKN1	14	
HFAMCKN2	14	
HFAMCKP1	14	
HFAMCKP2	14	
HFAMCSTR	8	
HFAMDPLX	6	80
HFAMFLAG	6	
HFAMID	0	C8C6C1D4
HFAMIDSN	6	40
HFAMLEN	14	14
HFAMLSYS	5	
HFAMREC	0	
HFAMUSR1	10	
HFAMVER	4	
HFAMVERN	4	3

\$HFAM Cross Reference

\$HFAME Programming Interface information

Programming Interface information

\$HFAME

End of Programming Interface information

\$HFAME Heading Information

Common Name: HASP File Allocation Map Entry
Macro ID: \$HFAME
DSECT Name: HFE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: See \$HFAM control block, or \$HCCT control block, or \$CKPRECV control block.
Size: See HFELEN
Created by: See \$HFAM control block, or \$HCCT control block, or \$CKPRECV control block.
Pointed to by: HFAMCKP1 field of the \$HFAM data area
 HFAMCKP2 field of the \$HFAM data area
 HFAMCKN1 field of the \$HFAM data area
 HFAMCKN2 field of the \$HFAM data area
 CCTCKPT1 field of the \$HCCT data area
 CCTCKPT2 field of the \$HCCT data area
 CKRHFAME field of the \$CKPRECV data area
 Various fields in the processor work areas and parameter lists.
Serialization: None required
Function: This dsect maps the entry for one file in the HASP File Allocation Map (HFAM). See \$HFAM control block for more information.

\$HFAME Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HFE	HASP FILE ALOC MAP ELEMENT
Comment					
HFEDSVOL IS USED AS RNAME FOR RESERVE/DEQ MACROS. DO NOT CHANGE THE ORDER OF VOLSER AND DSNAME.					
End of Comment					
0	(0)	CHARACTER	0	HFESPEC (0)	Data set spec
0	(0)	CHARACTER	0	HFEDASD (0)	Data set volser and dsn (Used as RNAME when ckpt is on DASD)
0	(0)	CHARACTER	6	HFEVOL	VOL SERIAL NUMBER OF DS
6	(6)	CHARACTER	44	HFEDSN	NAME OF DATA SET
50	(32)	CHARACTER	16	HFESTR	XES Structure name
66	(42)	BITSTRING	1	HFEFLAG1	FLAG BYTE FOR DATA SET
66	(42)	BITSTRING	0	HFE1INUS	"B'10000000" DATA SET IN USE
66	(42)	BITSTRING	0	HFE1DASD	"B'01000000" Checkpoint is on DASD
66	(42)	BITSTRING	0	HFE1CF	"B'00100000" Checkpoint is on CF
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
68	(44)	SIGNED	4	HFEUSER1	RESERVED FOR USER
68	(44)	X'48	0	HFELEN	**"-HFE" LENGTH OF HFAME

\$HFAME Cross Reference

Name	Hex Offset	Hex Value
HFEDASD	0	
HFEDSN	6	
HFEFLAG1	42	
HFELEN	44	48
HFESPEC	0	
HFESTR	32	
HFEUSER1	44	
HFEVOL	0	
HFE1CF	42	20
HFE1DASD	42	40
HFE1INUS	42	80

\$HFAME Cross Reference

\$HFCT Programming Interface information

Programming Interface information

\$HFCT

End of Programming Interface information

\$HFCT Heading Information

Common Name: HASP FSS Communication Table
Macro ID: \$HFCT
DSECT Name: HFCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MIT entry for HASPFSSM ('MIT HASPFSSM')
 Offset: 0
 Length: 12

Storage Attributes: Subpool: The subpool of the HASPFSSM load module.
 Key: 1
 Residency: Virtual and real storage are below 16M, in the private storage of an FSS address space.

Size: See the HFCTLEN equate.

Created by: The HASPFSSM load module is loaded during an FSS CONNECT request through the Functional Subsystem Interface (FSI). The HFCT is part of HASPFSSM.

Pointed to by:

- As one of the key JES2 control blocks for processing from an FSS address space, the HFCT address is usually in general purpose register 11 in the assembly environment known as FSS.
- Label HASPFCT in HASPFSSM, defined as an external symbol for code in the HASPFSSM load module, is the address of the HFCT.
- The HFCT is at the front of the HASPFSSM load module so the module storage address in the MVS CDE for HASPFSSM (if one exists) points to the HFCT.
- The FSSHFC field of the FSS's FSSCB common storage control block points to the FSS's HFCT.

Serialization: The HFCT is loaded and altered during an FSS CONNECT FSI request. From that point in time on, multiple tasks may be executing under the FSS and its Functional Subsystem Applications (FSAs). The HFCT fields are read-only, or used with compare-and-swap techniques.

Function: The HFCT is the central control block used for JES2 processing in the address space of a Functional Subsystem (FSS) connected to the JES2 subsystem. It is used for most processing within Functional Subsystem Interface (FSI) requests made by FSSs and their applications (FSAs), or directed to them.

The HFCT address is normally in general purpose register 11 during processing in the FSS assembly environment. Register 11 addressing for the HFCT is assumed in FSS-oriented JES2 service macros, routines, exits, and general linkage.

\$HFCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HFCT	HASP FSS COMMUNICATION TABLE
0	(0)	BITSTRING	0		HASPFSSM Module Info Table
0	(0)	CHARACTER	8	HFCTVER	Permanently set to SP 5.3.0

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Keep the next three fields intact.					
End of Comment					
8	(8)	BITSTRING	10	HFCTJES2_LEVEL (0)	Level information
8	(8)	CHARACTER	8	HFCTLEVEL	HASP Version <---+
16	(10)	ADDRESS	1	HFCTPLVL	Product Level |
17	(11)	ADDRESS	1	HFCTSLVL	Service Level <---+
18	(12)	SIGNED	2		Reserved for future use

Comment					
HASP FSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE SUPPORTED FSS FUNCTIONS.					

End of Comment					
20	(14)	SIGNED	4	HFCTFSSF (0)	FSI SUPPORTED FSS FUNCTIONS
20	(14)	ADDRESS	4	HFCTSCNI	CONNECT IDENTIFIER
24	(18)	ADDRESS	4	HFCTSCNA	"V(FSMCONCT)" CONNECT ENTRY POINT
28	(1C)	ADDRESS	4	HFCTSDCI	DISCONNECT IDENTIFIER
32	(20)	ADDRESS	4	HFCTSDCA	"V(FSMCONCT)" DISCONNECT ENTRY POINT
36	(24)	ADDRESS	4	HFCTSGDI	GETDS IDENTIFIER
40	(28)	ADDRESS	4	HFCTSGDA	"V(FSMERROR)" GETDS UNSUPPORTED ON FSS LEVEL
44	(2C)	ADDRESS	4	HFCTSRDI	RELDS IDENTIFIER
48	(30)	ADDRESS	4	HFCTSRDA	"V(FSMERROR)" RELDS UNSUPPORTED ON FSS LEVEL
52	(34)	ADDRESS	4	HFCTSGRI	GETREC IDENTIFIER
56	(38)	ADDRESS	4	HFCTSGRA	"V(FSMERROR)" GETREC UNSUPPORTED ON FSS LEVEL
60	(3C)	ADDRESS	4	HFCTSFRI	FREEREC IDENTIFIER
64	(40)	ADDRESS	4	HFCTSFRA	"V(FSMERROR)" FREEREC UNSUPPORTD ON FSS LEVEL
68	(44)	ADDRESS	4	HFCTSCKI	CHKPT IDENTIFIER
72	(48)	ADDRESS	4	HFCTSCKA	"V(FSMERROR)" CHKPT UNSUPPORTED ON FSS LEVEL
76	(4C)	ADDRESS	4	HFCTSSNI	SEND IDENTIFIER
80	(50)	ADDRESS	4	HFCTSSNA	"V(FSMSEND)" SEND ENTRY POINT
80	(50)	X'6	0	HFCTSIDN	"(*-HFCTSGDI)/8" NUM OF HASPFSSM ENTRY PTS

Comment					
HASP FSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE FSA SUPPORTED FUNCTIONS.					

End of Comment					
84	(54)	SIGNED	4	HFCTFSAF (0)	FSI SUPPORTED FSA FUNCTIONS
84	(54)	ADDRESS	4	HFCTACNI	CONNECT IDENTIFIER
88	(58)	ADDRESS	4	HFCTACNA	"V(FSMERROR)" CONNECT UNSUPPORTD ON FSA LEVEL
92	(5C)	ADDRESS	4	HFCTADCI	DISCONNECT IDENTIFIER
96	(60)	ADDRESS	4	HFCTADCA	"V(FSMERROR)" DISCONT UNSUPPORTD ON FSA LEVEL
100	(64)	ADDRESS	4	HFCTAGDI	GETDS IDENTIFIER
104	(68)	ADDRESS	4	HFCTAGDA	"V(FSMGETDS)" GETDS ENTRY POINT
108	(6C)	ADDRESS	4	HFCTARDI	RELDS IDENTIFIER
112	(70)	ADDRESS	4	HFCTARDA	"V(FSMRELDS)" RELDS ENTRY POINT
116	(74)	ADDRESS	4	HFCTAGRI	GETREC IDENTIFIER
120	(78)	ADDRESS	4	HFCTAGRA	"V(FSMGETRC)" GETREC ENTRY POINT
124	(7C)	ADDRESS	4	HFCTAFRI	FREEREC IDENTIFIER
128	(80)	ADDRESS	4	HFCTAFRA	"V(FSMFRERC)" FREEREC ENTRY POINT
132	(84)	ADDRESS	4	HFCTACKI	CHKPT IDENTIFIER
136	(88)	ADDRESS	4	HFCTACKA	"V(FSMCHKPT)" CHKPT ENTRY POINT
140	(8C)	ADDRESS	4	HFCTASNI	SEND IDENTIFIER
144	(90)	ADDRESS	4	HFCTASNA	"V(FSMSEND)" SEND ENTRY POINT

\$HFCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ENTRY POINTS FOR PC ROUTINES					
End of Comment					
148	(94)	SIGNED	4	HFCTPCS (0)	PC ROUTINE ID/ADDR PAIRS
148	(94)	ADDRESS	4	HFCTORDI	ORDER IDENTIFIER
152	(98)	ADDRESS	4	HFCTORDA	"V(FSMORDER)" ORDER ENTRY POINT
156	(9C)	ADDRESS	4	HFCTPSTI	POST IDENTIFIER
160	(A0)	ADDRESS	4	HFCTPSTA	"V(FSMPOST)" POST ENTRY POINT
160	(A0)	X'2 '	0	HFCTPCNO	"(*-HFCTPCS)/8" NUMBER OF PC ROUTINES
160	(A0)	X' '	0	HFCTETDL	"ETDLEN+(HFCTPCNO*ETDELEN)" LENGTH OF ETD CNTL BLOCK
Comment					
DEFINED CONSTANTS					
End of Comment					
164	(A4)	CHARACTER	8	HFCTBLNK	DOUBLEWORD OF BLANKS
176	(B0)	DBL WORD	8	HFCTZERO	DOUBLEWORD OF HEX 0
176	(B0)	X'B0 '	0	HFCT0000	"HFCTZERO" ALTERNATE NAME FOR HFCTZERO
184	(B8)	BITSTRING	4	HFCT000F	FULLWORD LOW ORDER BYTE MASK
188	(BC)	BITSTRING	4	HFCT00FF	FULLWORD LOW HALFWORD MASK
192	(C0)	BITSTRING	4	HFCT0FFF	FULLWORD 3 BYTE MASK
196	(C4)	BITSTRING	4	HFCTALLF	FULLWORD ALL X'FF'S
196	(C4)	X'C4 '	0	HFCTFFFF	"HFCTALLF" ALTERNATE NAME FOR HFCTALLF
200	(C8)	ADDRESS	4	HFCTBADA (16)	BAD value
Comment					
DEFINITIONS FOR GENERAL USE					
End of Comment					
264	(108)	ADDRESS	4	HFCTFSSA	ADDR OF FSSCB
268	(10C)	ADDRESS	4	HFCTHCCT	ADDR OF HCCT
272	(110)	ADDRESS	4	HFCTBUFS	I/O BUFFER STACK HEAD
276	(114)	ADDRESS	4	HFCTRPLS	RPL CELL STACK HEAD
280	(118)	ADDRESS	4	HFCTGTRS	GETR CELL STACK HEAD
284	(11C)	ADDRESS	4	HFCTSJFS	SJFP CELL STACK HEAD
288	(120)	ADDRESS	4	HFCTDBUF	Data buffer stack head
292	(124)	BITSTRING	8		Reserved
Comment					
DEFINITIONS FOR QUICKCELL POOL MANAGEMENT					
End of Comment					
300	(12C)	ADDRESS	4	HFCTGTQC	"V(FSMGETQC)" ADDR OF GET QUICKCELL ROUTINE
304	(130)	ADDRESS	4	HFCTFRQC	"V(FSMFREQC)" ADDR OF FREE QUICKCELL ROUTINE
308	(134)	ADDRESS	4	HFCTBLQC	"V(FSMBLDQC)" ADDR OF BUILD CELLPOOL ROUTINE
312	(138)	ADDRESS	4	HFCTQCSU	"V(FSMQCT)" ADDR OF QCT SETUP ROUTINE
316	(13C)	ADDRESS	4	HFCTQCTH	ADDR OF FIRST QCT
320	(140)	SIGNED	4	HFCTQCS1 (18)	FSMBLDQC + FSMEXTQC SAVE AREA
392	(188)	SIGNED	4	HFCTQCS2 (18)	VSM BLDPOOL MACRO SAVE AREA
Comment					
DEFINITIONS FOR SAVE AREA AND ERROR SERVICES, ETC					
End of Comment					
464	(1D0)	ADDRESS	4	HFCTSAVE	"V(FSM\$SAVE)" FSM\$SAVE \$SAVE ROUTINE ADDR
468	(1D4)	ADDRESS	4	HFCTRET	"V(FSM\$RETRN)" FSM\$RETRN \$RETURN ROUTINE ADDR

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
472	(1D8)	ADDRESS	4		Reserved for future use
476	(1DC)	SIGNED	4	HFCTSVSV (18)	SAVE AREA FOR FSMSAVE
548	(224)	SIGNED	4	HFCTSRBS (18)	SAVE AREA FOR SRBS (FSMRCRTN)
620	(26C)	SIGNED	4	HFCTESAV (18)	SAVE AREA FOR \$ERRORS
692	(2B4)	ADDRESS	4	HFCTETCB	TCB OWNING \$ERROR SAVE
696	(2B8)	BITSTRING	1	HFCTESVS	\$ERROR SAVE AREA SERIALIZATION
697	(2B9)	BITSTRING	1	HFCTSAVF	SAVE AREA FLAG BYTE
698	(2BA)	BITSTRING	1	HFCTCONF	FSS CONNECT/DISCONNECT FLAG
698	(2BA)	BITSTRING	0	HFCTGTMM	"B'10000000" FSVT/ETD/ETC GETMAIN WAS DONE
698	(2BA)	BITSTRING	0	HFCTAXRS	"B'01000000" AXRES WAS DONE FOR FSS AX
698	(2BA)	BITSTRING	0	HFCTAXST	"B'00100000" AXSET WAS DONE FOR FSS AX
698	(2BA)	BITSTRING	0	HFCTLXRS	"B'00010000" LXRES WAS DONE FOR FSS LX
698	(2BA)	BITSTRING	0	HFCTETCR	"B'00001000" ETCRE WAS DONE FOR FSS ETD
698	(2BA)	BITSTRING	0	HFCTATST	"B'00000100" ATSET WAS DONE FOR JES2 AX
699	(2BB)	BITSTRING	1		RESERVED FOR FUTURE USE

Comment

SERVICE ROUTINE ENTRY POINTS

700	(2BC)	ADDRESS	4	HFCTFSIL	"V(FSMFSLNK)" FSSLINK SERVICE ROUTINE
704	(2C0)	ADDRESS	4	HFCTGTLK	"V(FSMGETLK)" GETLOCK SERVICES ROUTINE
708	(2C4)	ADDRESS	4	HFCTFRLK	"V(FSMFRELK)" FRELOCK SERVICES ROUTINE
712	(2C8)	ADDRESS	4	HFCTGBLK	"V(FSMGTBLK)" GETBLOCK SERVICE ROUTINE
716	(2CC)	ADDRESS	4	HFCTRBLK	"V(FSMRTBLK)" RETBLOCK SERVICE ROUTINE
720	(2D0)	ADDRESS	4	HFCTCATE	"V(FSMCATER)" ADDR OF CAT ERROR ROUTINE

Comment

The following fields are used to maintain and serialize the save area queue. These fields must be kept together to ensure proper serialization of the save area queue.

728	(2D8)	DBL WORD	8	HFCTSACS (0)	CDS field used when adding or deleting elements off the save area queue
728	(2D8)	ADDRESS	4	HFCTSAVS	Save area stack head
732	(2DC)	ADDRESS	4	HFCTSASN	Save area sequence number

Comment

HASPFSSM R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S() HALFWORDS, NOT ZEROS, IN THIS AREA.

732	(2DC)	X'20 '	0	HFCTPSZ	"4096-(*-HFCT)"
736	(2E0)	BITSTRING	1	HFCTPCH (0)	DEFINE PATCH SPACE
736	(2E0)	X' '	0	HFCTLEN	**-"HFCT" Length of the HFCT

\$HFCT Cross Reference

\$HFCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HFCTACKA	88		HFCTRBLK	2CC	
HFCTACKI	84		HFCTRET	1D4	
HFCTACNA	58		HFCTRPLS	114	
HFCTACNI	54		HFCTSACS	2D8	
HFCTADCA	60		HFCTSASN	2DC	
HFCTADCI	5C		HFCTSAVE	1D0	
HFCTAFRA	80		HFCTSAVF	2B9	0
HFCTAFRI	7C		HFCTSAVS	2D8	
HFCTAGDA	68		HFCTSCKA	48	
HFCTAGDI	64		HFCTSCKI	44	
HFCTAGRA	78		HFCTSCNA	18	
HFCTAGRI	74		HFCTSCNI	14	
HFCTALLF	C4	FFFFFFFF	HFCTSDCA	20	
HFCTARDA	70		HFCTSDCI	1C	
HFCTARDI	6C		HFCTSFRA	40	
HFCTASNA	90		HFCTSFRI	3C	
HFCTASNI	8C		HFCTSGDA	28	
HFCTATST	2BA	4	HFCTSGDI	24	
HFCTAXRS	2BA	40	HFCTSGRA	38	
HFCTAXST	2BA	20	HFCTSGRI	34	
HFCTBADA	C8		HFCTSIDN	50	6
HFCTBLNK	A4	40404040	HFCTSJFS	11C	
HFCTBLQC	134		HFCTSLVL	11	
HFCTBUFS	110		HFCTSRBS	224	0
HFCTCATE	2D0		HFCTSRDA	30	
HFCTCONF	2BA	0	HFCTSRDI	2C	
HFCTDBUF	120		HFCTSSNA	50	
HFCTESAV	26C	0	HFCTSSNI	4C	
HFCTESVS	2B8	0	HFCTSVSV	1DC	0
HFCTETCB	2B4		HFCTVER	0	40404040
HFCTETCR	2BA	8	HFCTZERO	B0	0
HFCTETDL	A0		HFCT0FFF	C0	FFFFFF
HFCTFFFF	C4	C4	HFCT00FF	BC	FFFF
HFCTFRLK	2C4		HFCT000F	B8	FF
HFCTFRQC	130		HFCT0000	B0	B0
HFCTFSAF	54				
HFCTFSIL	2BC				
HFCTFSSA	108				
HFCTFSSF	14				
HFCTGBLK	2C8				
HFCTGTLK	2C0				
HFCTGTMN	2BA	80			
HFCTGTQC	12C				
HFCTGTRS	118				
HFCTHCCT	10C				
HFCTJES2_LEVEL					
	8				
HFCTLEN	2E0				
HFCTLEVL	8	40404040			
HFCTLXRS	2BA	10			
HFCTORDA	98				
HFCTORDI	94				
HFCTPCH	2E0	0			
HFCTPCNO	A0	2			
HFCTPCS	94				
HFCTPLVL	10				
HFCTPSTA	A0				
HFCTPSTI	9C				
HFCTPSZ	2DC	20			
HFCTQCSU	138				
HFCTQCS1	140	0			
HFCTQCS2	188	0			
HFCTQCTH	13C				

\$ICE Programming Interface information

Programming Interface information

\$ICE

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

- ICE#MSTR
- ICEACPTN
- ICEALCHN
- ICEAPCHN
- ICEFLAGS
- ICEFLGS2
- ICEFLGS3
- ICEFRZRC
- ICEINCT
- ICEINDEX
- ICEINHD
- ICEINLM
- ICEINTL
- ICELOST
- ICENJEF1
- ICENJEF2
- ICEOUTBF
- ICEOUTCT
- ICEOUTH
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESSTAT
- ICESUSFL
- ICETEA
- ICENTRY
- ICETIME
- ICXRFBK
- ICXTWRK

End of Programming Interface information

\$ICE Heading Information

Common Name: Interface Control Element
Macro ID: \$ICE
DSECT Name: ICE ICETNTRY
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
 Key: 1
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size: See ICESIZE
Created by: HASPIRRE
 HASPSNA
Pointed to by: \$ICELOST field of the \$HCT data area
 MDCTICE field of the \$DCT data area
 ICEAPCHN field of the \$ICE data area
 ICEALCHN field of the \$ICE data area
 ICETEMP field of the \$ICE data area
 MLMICEQ field of the \$MLMWORK data area
 MLMICEQ2 field of the \$MLMWORK data area
 MLMXICE field of the \$MLMWORK data area
 MLMWRKIQ field of the \$MLMWORK data area
Serialization: Normal PCE dispatch serialization
Function: The ICE control block represents a VTAM session between JES2 and an NJE or RJE partner. The ICE is used to hold information about that session.
 At the end of the ICE there is a rolling trace. Entries are added to this trace whenever a significant event occurs on this session. The trace entries are mapped by the ICETNTRY DSECT.

\$ICE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ICE	INTERFACE CONTROL ELEMENT DSECT
0	(0)	BITSTRING	1	ICESTAT	ICE STATUS INDICATORS
1	(1)	BITSTRING	1	ICEFLAGS	SESSION STATUS INDICATORS
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10	0	ICETRCLN	**-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3	0	ICEFRZCR	"3" CRITICAL ERROR
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINHDL	INBOUND QUEUE HEAD BUFFER PTR
44	(2C)	ADDRESS	4	ICEINTL	INBOUND QUEUE TAIL BUFFER PTR
48	(30)	ADDRESS	2	ICEOUTLM	OUTBOUND QUEUE LIMIT
50	(32)	ADDRESS	2	ICEOUTCT	OUTBOUND QUEUE COUNTER
52	(34)	ADDRESS	4	ICEOUTBF	OUTBOUND OUTSTANDING BUFFER PTR
56	(38)	ADDRESS	4	ICEOUTHDL	OUTBOUND QUEUE HEAD BUFFER PTR
60	(3C)	ADDRESS	4	ICEOUTTL	OUTBOUND QUEUE TAIL BUFFER PTR
64	(40)	ADDRESS	4	ICEADCT	ADDR OF ASSOCIATED LOGON DCT
68	(44)	ADDRESS	4	ICELDCT	ADDR OF ASSOCIATED LINE DCT
72	(48)	ADDRESS	4	ICERDCT	ADDR OF ASSOCIATED REMOTE DCT (RAT addr during autologon)
76	(4C)	ADDRESS	4	ICESDCT	ADDR OF FIRST SUSPND RJE DCT ADDR OF NEXT TO POST NJE DCT
80	(50)	ADDRESS	4	ICEBUFAD	ADDR OF CURRENTLY SCHED BUFFER
84	(54)	ADDRESS	4	ICECPT	SESSION COMPACTION TABLE ADDR
88	(58)	ADDRESS	4	ICEDECPT	SESSION DECOMPACTION TABLE ADDR
92	(5C)	ADDRESS	4	ICEATE	ADDR OF SESS PARTNRS APT ENTRY
96	(60)	BITSTRING	4	ICEWTIME	SESSION ALLOC WAIT TIME STAMP
100	(64)	ADDRESS	4	ICECNTRS (0)	SESSION STATISTICS COUNTERS
100	(64)	ADDRESS	4	ICETOTAL	SESSION TOTAL SEND/REC COUNT
104	(68)	ADDRESS	4	ICEXRESP	SESSION EXECPTION RESP COUNT
108	(6C)	ADDRESS	4	ICELUSTA	SESSION LOG UNIT STATUS COUNT
112	(70)	ADDRESS	4	ICEBDREJ	SESSION BID REJECTED COUNT
116	(74)	ADDRESS	4	ICETEMP	SESSION TEMPORARY ERROR COUNT
120	(78)	BITSTRING	1	ICEFLGS2	SESSION STATUS FLAGS
121	(79)	BITSTRING	1	ICENJEF1	NJE FLAG BYTE1-SESS START FLAG
122	(7A)	BITSTRING	1	ICENJEF2	NJE FLAG BYTE2-SESS SHTDWN FLAG
123	(7B)	BITSTRING	1	ICEFLGS3	ADDITIONAL SESSION STATUS
124	(7C)	BITSTRING	36	ICEBIND	SESSION BIND IMAGE
160	(A0)	ADDRESS	4	ICELOST	Chain of frozen ICEs
164	(A4)	BITSTRING	4		Reserved for future use
168	(A8)	DBL WORD	8	ICEXTWRK (0)	VTAM EXIT ROUTINE WORK AREA
168	(A8)	SIGNED	4	ICEXTWCD (0)	VTAM EXIT ROUT ACTION CODE WORD
168	(A8)	BITSTRING	3		RESERVED
171	(AB)	BITSTRING	1	ICEXTCOD	VTAM EXIT ROUTINE ACTION CODE
172	(AC)	ADDRESS	4	ICEXTCHN	VTAM EXIT ROUTINE ICE CHAIN
176	(B0)	CHARACTER	8	ICELMODE	VTAM LOGMODE
184	(B8)	DBL WORD	8	ICECLR (0)	End of area to be cleared when ICE is initialized

Comment

ICE Trace area

This trace area is updated regularly with activity related to this ICE. ICETEA is the address of the current (last used) trace area. The trace wraps when it reaches the end.

End of Comment

184	(B8)	X'C	'	0	ICETNUM	"12" Number of entries in trace
184	(B8)	ADDRESS		4	ICETEA	Addr of current trace entry
188	(BC)	SIGNED		4		Reserved
192	(C0)	DBL WORD		8	ICETIME	Time of last trace
200	(C8)	DBL WORD		8	ICET1ST (0)	First trace entry
200	(C8)	BITSTRING		0	(0)	Actual trace entries
200	(C8)	BITSTRING		1	ICETEND (0)	End of ICE trace table
200	(C8)	DBL WORD		8	(0)	Double word align ICE
200	(C8)	X'C8	'	0	ICESIZE	**-"ICE" LENGTH OF ICE DSECT

\$ICE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ICESTAT					
End of Comment					
200	(C8)	BITSTRING	0	ICEDRAIN	"B'10000000" ICE DRAIN REQ PENDING
200	(C8)	BITSTRING	0	ICEALLOC	"B'01000000" ICE ALLOCATED INDICATOR
200	(C8)	BITSTRING	0	ICETIMER	"B'00100000" ICE AWAITING TIMER INTRPT
200	(C8)	BITSTRING	0	ICEHOLD	"B'00010000" ICE TEMPORARY HOLD STATUS
200	(C8)	BITSTRING	0	ICERTRPD	"B'00001000" ICE AWAITING RTR STATUS
200	(C8)	BITSTRING	0	ICERCVSP	"B'00000100" ICE RECEIVE CS STATUS
200	(C8)	BITSTRING	0	ICEABORT	"B'00000010" ICE ABORT INDICATOR
200	(C8)	BITSTRING	0	ICECLOSE	"B'00000001" ICE CLOSE INDICATOR
200	(C8)	BITSTRING	0	ICEAVAIL	"B'11111111" ICE AVAILABLE INDICATOR
Comment					
ICEFLAGS					
End of Comment					
200	(C8)	BITSTRING	0	ICEINBND	"B'10000000" SESSION INBOUND ALLOCATED HDX-FF
200	(C8)	BITSTRING	0	ICEOUTBD	"B'01000000" SESSION OUTBOUND ALLOCATED HDX-FF
200	(C8)	BITSTRING	0	ICEREVFL	"B'00100000" SESSION REVERSED DIRECTION HDX-FF
200	(C8)	BITSTRING	0	ICEINBRK	"B'00010000" SESSION IN BRACKET STATE
200	(C8)	BITSTRING	0	ICEBPND	"B'00001000" SESSION BB PENDING STATE
200	(C8)	BITSTRING	0	ICEEBPND	"B'00000100" SESSION EB PENDING STATE
200	(C8)	BITSTRING	0	ICECHDIR	"B'00000010" SESSION CD PENDING STATE
200	(C8)	BITSTRING	0	ICECNECT	"B'00000001" SESSION IS CONNECTED (OPNDST)
200	(C8)	BITSTRING	0	ICEBRCKT	"B'00011100" BRACKET STATUS INDICATOR ICEFLGS2
200	(C8)	BITSTRING	0	ICEFREEZ	"B'10000000" ICE FREEZE INDICATOR
200	(C8)	BITSTRING	0	ICEBDS	"B'01000000" BEGIN DESTINATION SEL. RCVD
200	(C8)	BITSTRING	0	ICEEDS	"B'00100000" END DESTINATION SEL. RECVD
200	(C8)	BITSTRING	0	ICESTATI	"B'00010000" STATE ERROR DETECTED
200	(C8)	BITSTRING	0	ICE1STLU	"B'00001000" FIRST SESSION FOR SMF
200	(C8)	BITSTRING	0	ICESIGNL	"B'00000100" DATAFLOW INRPT PENDING
200	(C8)	BITSTRING	0	ICEOUTBK	"B'00000010" DF INRPT OUTBD FOR OUTBD
200	(C8)	BITSTRING	0	ICEBREAK	"B'00000001" DATAFLOW BREAK PENDING
Comment					
ICERCVST/ICESNDST					
End of Comment					
200	(C8)	BITSTRING	0	ICEDSTRM	"B'11110000" STATE MASK
		....		ICERESUM	"B'00000000" RESUME SUSPENDED DATA SET
200	(C8)	BITSTRING	0	ICENMEND	"B'00010000" NORMAL END OF DATA SET
200	(C8)	BITSTRING	0	ICEBEGIN	"B'00100000" BEGINNING OF DATA SET
200	(C8)	BITSTRING	0	ICEODS	"B'00110000" BEGIN/END OF DATA SET
200	(C8)	BITSTRING	0	ICESPEND	"B'01000000" SUSPEND DATA SET
200	(C8)	BITSTRING	0	ICEABEND	"B'01010000" ABORT DATA SET (NO RESUME)
200	(C8)	BITSTRING	0	ICECONT	"B'01100000" CONTINUE DESTINATION
200	(C8)	BITSTRING	0	ICESTRS1	"B'01110000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS2	"B'10000000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS3	"B'10010000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS4	"B'10100000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS5	"B'10110000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS6	"B'11000000" RESERVED
200	(C8)	BITSTRING	0	ICESTRS7	"B'11010000" RESERVED
200	(C8)	BITSTRING	0	ICENOFMH	"B'11100000" DATAFLOW HAS NO FMH PENDING
200	(C8)	BITSTRING	0	ICEINSTR	"B'11110000" DATAFLOW NO FMH PEND
200	(C8)	BITSTRING	0	ICEINCHN	"B'00001000" DATAFLOW IN CHAIN STATE
200	(C8)	BITSTRING	0	ICEOCPND	"B'00000100" DATAFLOW EOC PEND STATE
200	(C8)	BITSTRING	0	ICECNCEL	"B'00000010" DATAFLOW CHAIN CANCELED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
200	(C8)	BITSTRING	0	ICEWTRSP	"B'00000001" DATAFLOW WAITING FOR RESPONSE
Comment					
ICENJEF1					
End of Comment					
200	(C8)	BITSTRING	0	ICENJE	"B'10000000" ICE BEING USED BY NJE SESSION
200	(C8)	BITSTRING	0	ICEPRIME	"B'01000000" ICE REPRESENTS PRIMARY NJE APPL
200	(C8)	BITSTRING	0	ICEFMHR4	"B'00001000" NJE FMH (TYPE 4) RECEIVED
200	(C8)	BITSTRING	0	ICEFMHRV	"B'00000100" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) RECEIVED
200	(C8)	BITSTRING	0	ICEFMHS4	"B'00000010" NJE FM HDR 4 SUCCESSFULLY SENT (+RSP TO HDR RECEIVED)
200	(C8)	BITSTRING	0	ICEFMHST	"B'00000001" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) SUCCESSFULLY SENT
Comment					
ICENJEF2					
End of Comment					
200	(C8)	BITSTRING	0	ICEQUIET	"B'10000000" ORDERLY SHUTDOWN IN PROGRESS
200	(C8)	BITSTRING	0	ICEUNBD	"B'01000000" UNBIND RECEIVED FROM PLU
200	(C8)	BITSTRING	0	ICERSHUT	"B'00100000" REQUEST SHUTDOWN CONTROL RCVD
200	(C8)	BITSTRING	0	ICETERMS	"B'00010000" TERMSESS ISSUED
200	(C8)	BITSTRING	0	ICETSC	"B'00001000" TERMSESS COMPLETE
200	(C8)	BITSTRING	0	ICERCON	"B'00000100" ICE ALLOCATED TO RCP
200	(C8)	BITSTRING	0	ICERSCN	"B'00000010" RESCAN LINES FOR PASSWORD
Comment					
ICEFLGS3					
End of Comment					
200	(C8)	BITSTRING	0	ICE3SIMI	"B'10000000" SIMLOGON ISSUED
200	(C8)	BITSTRING	0	ICE3SIMA	"B'01000000" SIMLOGON ACCEPTED
200	(C8)	BITSTRING	0	ICE3SIMC	"B'00100000" SIMLOGON COMPLETE
200	(C8)	BITSTRING	0	ICE3LOGX	"B'00010000" LOGON EXIT18 INVOKED
200	(C8)	BITSTRING	0	ICE3RATA	"B'00001000" ICERDCT FIELD CONTAINS A RAT ADDRESS
200	(C8)	BITSTRING	0	ICE3WINC	"B'00000100" Wait for inbound buffer count to go to zero
Comment					
ICEADCT/ICESDCT (SUSPEND FLAGS)					
End of Comment					
200	(C8)	BITSTRING	0	ICESIMPL	"B'10000000" IMPLIED SUSPEND WITHOUT FM HEADER
200	(C8)	BITSTRING	0	ICESUSPD	"B'01000000" SUSPEND IN PROGRESS. \$WAIT NEEDED
Comment					
ICEXRFBK					
End of Comment					
200	(C8)	BITSTRING	0	ICEXRDNA	"B'10000000" DEST NOT ACCEPTING FURTHER DATA
200	(C8)	BITSTRING	0	ICEXRCPY	"B'01000000" DEST NOT HANDLING MULTIPLE COPIES
200	(C8)	BITSTRING	0	ICENSXIT	"B'00100000" NSXIT SCHEDULED FLAG
200	(C8)	BITSTRING	0	ICEQUIES	"B'00010000" QUIESCE THEN SHUTDOWN FLAG
200	(C8)	BITSTRING	0	ICERSTSR	"B'00001000" RESETSR CS MODE RPL ISSUED

\$ICE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ICENTRY	, ICE trace entry DSECT
0	(0)	SIGNED	2	ICETTYPE (0)	Trace identifier
0	(0)	BITSTRING	1	ICETID1	Trace identifier 1
0	(0)	X'1 '	0	ICETBUF	"1" Buffer end proc
0	(0)	X'2 '	0	ICETICE	"2" ICE exit processing
0	(0)	X'3 '	0	ICETPEND	"3" TPEND exit processing
0	(0)	X'4 '	0	ICETSRMT	"4" Start Remote
0	(0)	X'5 '	0	ICETERPL	"5" Execute RPL
0	(0)	X'6 '	0	ICETFBUF	"6" Buffer free
1	(1)	BITSTRING	1	ICETID2	Trace identifier 2 (Meaning based on id 1)
1	(1)	X'2 '	0	ICETCLC1	"*-ICENTRY" Length for compare
2	(2)	SIGNED	2	ICETSEQ	Trace sequence number
4	(4)	BITSTRING	1	ICETREST (0)	Used to skip SEQ in CLC

Comment

 ICE status fields

End of Comment

4	(4)	BITSTRING	1	ICETSTAT	ICESTAT
5	(5)	BITSTRING	1	ICETFLGS	ICEFLAGS
6	(6)	BITSTRING	1	ICETRCTS	ICERCVST
7	(7)	BITSTRING	1	ICETSNDS	ICESNDST
8	(8)	BITSTRING	1	ICETINDX	ICEINDEX
9	(9)	BITSTRING	2	ICETCID	ICECID+2
11	(B)	BITSTRING	1	ICETSUSF	ICESUSFL
12	(C)	BITSTRING	1	ICETFLG2	ICEFLGS2
13	(D)	BITSTRING	1	ICETFLG3	ICEFLGS3
14	(E)	BITSTRING	1	ICETNJF1	ICENJEF1
15	(F)	BITSTRING	1	ICETNJF2	ICENJEF2

Comment

 RPL status fields (if no RPL then all fields are X'FF')

End of Comment

16	(10)	ADDRESS	4	ICETRPLA	RPL address
20	(14)	BITSTRING	0	ICETRREQ	RPLREQ
20	(14)	BITSTRING	0	ICETSRTY	RPLSRTYP
20	(14)	BITSTRING	0	ICETSEQN	RPLSEQNO
20	(14)	BITSTRING	0	ICETVFL2	RPLVTFL2
20	(14)	BITSTRING	0	ICETCNTR	RPLCNTRL
20	(14)	BITSTRING	0	ICETCHN	RPLCHN
20	(14)	BITSTRING	0	ICETRH3	RPLRH3
20	(14)	BITSTRING	0	ICETRTNC	RPLRTNCD
20	(14)	BITSTRING	0	ICETFDB2	RPLFDB2
20	(14)	BITSTRING	0	ICETFDBK	RPLFDBK2
20	(14)	BITSTRING	0	ICETRWHH	RPLWHRCH
20	(14)	BITSTRING	1	ICETRWH2	RPLWHRC2

Comment

 LOGON DCT fields (if no DCT then all fields are X'FF')

End of Comment

20	(14)	BITSTRING	0	ICETASTA	Logon DCTSTAT
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Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	BITSTRING	0	ICETAFLS	Logon DCTFLAGS
20	(14)	BITSTRING	0	ICETAFL2	Logon DCTFLAG2
20	(14)	BITSTRING	1	ICETAMST	Logon MDCTSTAT

Comment

 LINE DCT fields (if no DCT then all fields are X'FF')

End of Comment

20	(14)	BITSTRING	0	ICETLSTA	Line DCTSTAT
20	(14)	BITSTRING	0	ICETLFLS	Line DCTFLAGS
20	(14)	BITSTRING	0	ICETLFL2	Line DCTFLAG2
20	(14)	BITSTRING	1	ICETLMST	Line MDCTSTAT

Comment

 DEVICE DCT fields (if no device DCT - ICERDCT - then all fields are X'FF')

End of Comment

20	(14)	BITSTRING	0	ICETRSTA	Device DCTSTAT
20	(14)	BITSTRING	0	ICETRFLS	Device DCTFLAGS
20	(14)	BITSTRING	0	ICETRFL2	Device DCTFLAG2
20	(14)	BITSTRING	1	ICETRDID	Device DCTDEVID

Comment

 ICETCNT is a count of the number of events which have occurred which would have created trace entries which were identical except for the sequence number. The trace entry contains the most recent sequence number.

End of Comment

20	(14)	BITSTRING	1		Reserved for future
20	(14)	X'11	0	ICETCLC2	**-"ICETREST" Length for compare
21	(15)	BITSTRING	1	ICETCNT	Count of duplicate traces
21	(15)	X'16	0	ICETEALN	**-"ICETNTRY" Length of a single entry

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ICE	Re-establish ICE DSECT

\$ICE Cross Reference

\$ICE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ICE#MSTR	27		ICENSXIT	C8	20
ICEABEND	C8	50	ICEOCPND	C8	4
ICEABORT	C8	2	ICEODS	C8	30
ICEACPTN	24	0	ICEOUTBD	C8	40
ICEADCT	40		ICEOUTBF	34	
ICEALCHN	18		ICEOUTBK	C8	2
ICEALLOC	C8	40	ICEOUTCT	32	
ICEAPCHN	14		ICEOUTHG	38	
ICEATE	5C		ICEOUTLM	30	
ICEAVAIL	C8	FF	ICEOUTTL	3C	
ICEBBPND	C8	8	ICEPRIME	C8	40
ICEBDREJ	70		ICEQUIES	C8	10
ICEBDS	C8	40	ICEQUIET	C8	80
ICEBEGIN	C8	20	ICERCON	C8	4
ICEBIND	7C	0	ICERCPTN	25	0
ICEBRCKT	C8	1C	ICERCVSP	C8	4
ICEBREAK	C8	1	ICERCVST	2	0
ICEBUFAD	50		ICERDCT	48	
ICECHDIR	C8	2	ICERESUM	C8	
ICECID	10	0	ICEREVFL	C8	20
ICECLOSE	C8	1	ICERSCN	C8	2
ICECLR	B8		ICERSHUT	C8	20
ICECNCEL	C8	2	ICERSPCT	5	
ICECNECT	C8	1	ICERSTR	C8	8
ICECNTRS	64		ICERTRPD	C8	8
ICECONT	C8	60	ICERULEN	6	
ICECPT	54		ICESDCT	4C	
ICEDCPT	58		ICESIGNL	C8	4
ICEDRAIN	C8	80	ICESIMPL	C8	80
ICEDSTRM	C8	F0	ICESIZE	C8	C8
ICEEBPND	C8	4	ICESNDST	3	0
ICEEDS	C8	20	ICESPEND	C8	40
ICEFLAGS	1	0	ICESTAT	0	0
ICEFLGS2	78	0	ICESTATI	C8	10
ICEFLGS3	7B	0	ICESTRS1	C8	70
ICEFMHRV	C8	4	ICESTRS2	C8	80
ICEFMHR4	C8	8	ICESTRS3	C8	90
ICEFMHST	C8	1	ICESTRS4	C8	A0
ICEFMHS4	C8	2	ICESTRS5	C8	B0
ICEFREEZ	C8	80	ICESTRS6	C8	C0
ICEFRZAB	1D	1	ICESTRS7	C8	D0
ICEFRZCR	1D	3	ICESUSFL	1C	
ICEFRZNL	1D	2	ICESUSPD	C8	40
ICEFRZRC	1D		ICESYMB	8	40404040
ICEHOLD	C8	10	ICETAFLS	14	
ICEINBND	C8	80	ICETAFL2	14	
ICEINBRK	C8	10	ICETAMST	14	
ICEINCHN	C8	8	ICETAFTA	14	
ICEINCT	22		ICETBUF	0	1
ICEINDEX	4		ICETCHN	14	
ICEINHJ	28		ICETCID	9	0
ICEINLM	20		ICETCLC1	1	2
ICEINSTR	C8	F0	ICETCLC2	14	11
ICEINTL	2C		ICETCNT	15	0
ICELDCT	44		ICETCNTR	14	
ICELMODE	B0	40404040	ICETEA	B8	
ICELOST	A0		ICETEALN	15	16
ICELUSTA	6C		ICETEMP	74	
ICENJE	C8	80	ICETEND	C8	
ICENJEF1	79	0	ICETERMS	C8	10
ICENJEF2	7A	0	ICETERPL	0	5
ICENMEND	C8	10	ICETFBUF	0	6
ICENOFMH	C8	E0	ICETFDBK	14	

Name	Hex Offset	Hex Value
ICETFDB2	14	
ICETFLGS	5	0
ICETFLG2	C	0
ICETFLG3	D	0
ICETICE	0	2
ICETID1	0	
ICETID2	1	
ICETIMER	C8	20
ICETINDX	8	0
ICETLFLS	14	
ICETLFL2	14	
ICETLMST	14	
ICETLSTA	14	
ICETNJF1	E	0
ICETNJF2	F	0
ICETNUM	B8	C
ICETOTAL	64	
ICETPEND	0	3
ICETRCLN	8	10
ICETRCTS	6	0
ICETRDID	14	
ICETREST	4	
ICETRFLS	14	
ICETRFL2	14	
ICETRH3	14	
ICETRPLA	10	
ICETRREQ	14	
ICETRSTA	14	
ICETRTNC	14	
ICETRWHH	14	
ICETRWH2	14	
ICETSC	C8	8
ICETSEQ	2	
ICETSEQN	14	
ICETSND5	7	0
ICETSRMT	0	4
ICETSRTY	14	
ICETSTAT	4	0
ICETSUSF	B	0
ICETIME	C0	
ICETTYPE	0	
ICETVFL2	14	
ICET1ST	C8	
ICEUNBD	C8	40
ICEWTIME	60	0
ICEWTRSP	C8	1
ICEXRCPY	C8	40
ICEXRDNA	C8	80
ICEXRESP	68	
ICEXRFBK	26	0
ICEXTCHN	AC	
ICEXTCOD	AB	0
ICEXTWCD	A8	
ICEXTWRK	A8	
ICE1STLU	C8	8
ICE3LOGX	C8	10
ICE3RATA	C8	8
ICE3SIMA	C8	40
ICE3SIMC	C8	20
ICE3SIMI	C8	80
ICE3WINC	C8	4

\$ICE Cross Reference

\$INIWARM Heading Information

Common Name: HASPIR* to HASPWARM Communications block.
Macro ID: \$INIWARM
DSECT Name: INW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: INIW
 Offset: INWID
 Length: 4
Storage Attributes: Subpool: 0
 Key: 1
 Residency: Real and virtual anywhere
Size: See INWSIZE
Created by: HASPIRA
Pointed to by: \$INIWARM field of the \$HCT data area
Serialization: None necessary. HASPIR* modules are only modules updating the area.
Function: There is data and circumstances uncovered by initialization modules which need to be known by warmstart. The warmstart PCE is created late in initialization and thus is unavailable for storing the data. The initialization PCE is removed after initialization completes and thus is unavailable to warmstart. This block fills the gap.

\$INIWARM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	INW	,
0	(0)	CHARACTER	4	INWID	Eye catcher
4	(4)	BITSTRING	0	INWQSE	Qse for this member that existed before initialization began
4	(4)	BITSTRING	1	INWFLAG1	Flags
4	(4)	BITSTRING	0	INW1BRTD	"B'01000000" BERT \$DISTERR issued
5	(5)	ADDRESS	4	INDOM493	DOM id for HASP493 issued from initialization
12	(C)	ADDRESS	4	INWBRTMP	BERT usage map
12	(C)	X'10	0	INWSIZE	**"-INW" Length of INIWARM

\$INIWARM Map

\$IOT Programming Interface information

Programming Interface information

\$IOT

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

- IOTTGADR

End of Programming Interface information

\$IOT Heading Information

Common Name: JES2 Input/Output Table
Macro ID: \$IOT
DSECT Name: IOT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: IOT
Offset: IOTID-IOT
Length: L'IOTID

Storage Attributes: Subpool: 0 for Main Task, 230 for User Environment, 231 for Spin IOT.
Key: 1 for Main Task, 5 for User Environment, 1 for Spin IOT.
Residency: The \$IOT is a JES2 spool resident control block. Real and virtual storage can be anywhere (above or below 16M).

Size: See IOTLENG

Created by: Primary Allocation IOT - Most commonly created at reader time (HASPRDR), but also created dynamically when spin data sets are allocated.
Secondary Allocation IOT - \$TRACK routine in HASPTRAK and \$STRAK routine in HASCSRIC as are needed.
PDDB only IOT - HASPNET, HASPRDR, HASCDSAL or HASCJBST.

Pointed to by: CHKIOTTC field of the \$CHK data area (addr on spool)
GCBIOTTR field of the \$GCB data area (addr on spool)
CCTSPIOT field of the \$HCCT data area (LIFO spin Q)
CCTSPIOT field of the \$HCCT data area (FIFO spin Q)
\$NEWSIOT field of the \$HCT data area (addr on spool)
JCTSPIOT field of the \$JCT data area (addr on spool)
JCTIOT field of the \$JCT data area (addr on spool)
JIBIOT field of the \$JIB data area
JIBIOTTR field of the \$JIB data area (addr on spool)
JIBFIOTR field of the \$JIB data area (addr on spool)
JNEWIOTT field of the \$JNEW data area (addr on spool)
JOEIOTTR field of the \$JOE data area (addr on spool)
JQETRAK field of the \$JQE data area (addr on spool)
MTLMTTR field of the \$MTL data area (addr on spool)
PDBPLIOT field of the \$PDDB data area
PDBSPTTR field of the \$PDDB data area (addr on spool)
PSOIOT field of the \$PSO data area (addr on spool)
PSOANCHR field of the \$PSO data area (addr on spool)
QSEPRIME field of the \$QSE data area (addr on spool)
QSEPRGIN field of the \$QSE data area (addr on spool)
SDBPIOT field of the \$SDB data area
SDBAIOT field of the \$SDB data area
SJB IOT field of the \$SJB data area
SJBSP IOT field of the \$SJB data area
SJXBS IOT field of the \$SJXB data area
SJXR IOT field of the \$SJXB data area
TABAIOT field of the \$TAB data area
Various fields in the processor work areas and parameter lists.

Serialization: While a job is in execution, the IOT resides in the user address space, so that no other JES2 PCE will update the IOT. At other times, various types of serialization are used for the different types of IOTs. ENQ/DEQ logic is used for Secondary Allocation IOTs. Compare-and-swap logic is used for Spin IOTs.

Function: The IOT is a spool resident control block that describes the spool space used by a job (all the space allocated to data sets, control blocks, etc.). It also holds the information on the job's data sets.

\$IOT Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	0	IOT	HASP INPUT/OUTPUT TABLE DSECT	
Comment						

The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.						

End of Comment						
0	(0)	X'	0	IOTJCT	"BUFMEMW1-BFPDSECT+IOT,4" Storage address of JCT (referenced only in allocation IOTs)	
0	(0)	X'	0	IOTIOT	"BUFMEMW2-BFPDSECT+IOT,4" Storage address of next IOT	
0	(0)	X'	0	IOTSJB	"BUFMEMW3-BFPDSECT+IOT,4" Addr of SJB for executing JOB	
0	(0)	X'	0	IOTJOE	"BUFMEMW4-BFPDSECT+IOT,4" Offset of JOE for SPIN IOT while in HASPSPIN	
0	(0)	X'	0	IOTFLAG4	"BUFMFLG1-BFPDSECT+IOT,1" Fourth flag byte (memory resident only)	
0	(0)	X'	0	IOT4CKPT	"BUFM1CKP" Rewrite this IOT	
0	(0)	X'	0	IOT4CSDB	"BUFM1CK2" Write IOT in HAM (under the SDB)	
0	(0)	X'	0	IOTCKCNT	"BUFMEMW5-BFPDSECT+IOT,4" Number of HDB buffers written for data sets with PDDBs in this IOT since this IOT was last written	
0	(0)	X'	0	IOTCSASP	"BUFMEMW6-BFPDSECT+IOT,4" CSA spin IOT chain pointer	
Comment						

End of buffer prefix fields						

End of Comment						
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION	
0	(0)	X'	0	IOTSTART	*** START OF DATA WRITTEN TO SPOOL	

\$IOT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Reserved - 2 bytes

Job number - 2 bytes

Job key - 4 bytes

Dataset key - 4 bytes (or reserved if not applicable)

End of Comment					
0	(0)	CHARACTER	4	IOTID	Eyecatcher
4	(4)	CHARACTER	8	IOTJNAME	Job name
12	(C)	BITSTRING	2		Reserved
14	(E)	SIGNED	2	IOTJOBNO	Job number
16	(10)	SIGNED	4	IOTJBKEY	Job key
20	(14)	BITSTRING	4		Reserved
20	(14)	X'18	0	IOTSPLNG	"*-IOTID"

Comment					
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The following EQUs are defined here only for compatibility reason. For all future references of job name and job number, the new names defined in SPID should be used.

End of Comment					
20	(14)	X'4	0	IOTJBNME	"IOTJNAME" EQU for Job name
20	(14)	X'E	0	IOTJBNMB	"IOTJOBNO" EQU for job number
24	(18)	ADDRESS	2	IOTLENG	LENGTH OF IOT INCLUDING PREFIX
26	(1A)	BITSTRING	1	IOTFLAG1	FIRST FLAG BYTE
27	(1B)	BITSTRING	1	IOTFLAG2	SECOND FLAG BYTE
28	(1C)	BITSTRING	4	IOTTRACK	TRACK ADDRESS OF THIS IOT
32	(20)	BITSTRING	4	IOTIOTTR	TRACK ADDRESS OF NEXT IOT

Comment					
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IOTMTHER is the allocation IOT associated with the PDDBs in this IOT. It is the job allocation IOT in non-spin PDDB-only IOTs, and the spin 'mother' IOT in spin-daughter PDDB IOTs. It is zero in the job (primary) allocation IOT and spin mother (primary) allocation IOTs and in secondary allocation IOTs. IOTMTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.

End of Comment					
36	(24)	SIGNED	4	IOTMTHER	MTTR of mother alloc IOT
40	(28)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Charact- eristic (MOC) spool chain
44	(2C)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
48	(30)	SIGNED	4	IOTTGADR	STORAGE OFFSET OF NXT FREE TGAE
52	(34)	SIGNED	4	IOTJQOFF	JQE OFFSET
56	(38)	BITSTRING	1	IOTFLAG3	Third flag byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IOTFLAG3					
End of Comment					
56	(38)	BITSTRING	0	IOT3NUTK	"B'10000000" New track obtained after a close failure
56	(38)	BITSTRING	0	IOT3MOCF	"B'01000000" Mother instance counting has failed
57	(39)	BITSTRING	3		Reserved for future use
60	(3C)	SIGNED	4	(2)	Reserved for future use
68	(44)	SIGNED	4	IOTPDDBP	OFFSET BEYOND LAST PDDB IN IOT
72	(48)	SIGNED	4	IOTPDDB	OFFSET TO FIRST PDDB IN IOT
76	(4C)	SIGNED	4	IOTDSCT	Offset of DSCT in IOT
80	(50)	BITSTRING	4	IOTCKRC	MTTR OF CHK SPL REC - SPIN IOTS
84	(54)	SIGNED	4	IOTMUCTR	Multiple Output Characteristics (MOC) Counter
88	(58)	SIGNED	4	IOTCKTKN	Checkpoint token for spin data sets
92	(5C)	CHARACTER	8	IOTUSER	Userid which allocated datasets in this IOT (Only set by spool reload)
104	(68)	DBL WORD	8		Reserved for future use

Comment					
ALLOCATION IOT (BOTH PRIMARY AND SECONDARY)					
End of Comment					
112	(70)	DBL WORD	8	IOTMSTAB (0)	MASTER TAB (DWORD ALIGNED FOR CDS ON TABMTR)
112	(70)	DBL WORD	8	(0)	ALIGN FOLLOWING DOUBLEWORD
112	(70)	SIGNED	4	IOTCYMXM	MAX TTR THIS TRACK GROUP
116	(74)	SIGNED	4	IOTCELL	MTTR OF NEXT AVAILABLE TRAKCELL
116	(74)	X'70 00008'	0	IOTRCPBA	"IOTCYMXM,*-IOTCYMXM" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES IN RTAM
120	(78)	BITSTRING	0	IOTSPMSK	MASK OF SPOOLS ALLOCATED ON
120	(78)	BITSTRING	0	IOTSAMSK	SPOOLS ALLOWED MASK
120	(78)	SIGNED	3	IOTFAMILY	Family ID for MOCA IOTs
123	(7B)	BITSTRING	1		Reserved for future use
124	(7C)	ADDRESS	4		Reserved for future use
128	(80)	DBL WORD	8		Reserved for future use
128	(80)	X'3	0	IOTTGAEL	"3" LENGTH OF ONE TGAE
128	(80)	X'88	0	IOTTGAE	*** START OF TRACK GROUP ALLOCATION ENTRIES (TGAE'S)

Comment					
NON-ALLOCATION IOT (PDDB IOT)					
End of Comment					
112	(70)	DBL WORD	8	(2)	RESERVED FOR FUTURE USE
128	(80)	SIGNED	4	IOTPDDB1 (0)	FIX IOT OFFSET TO LOCATION OF FIRST PDDB WITHIN A PDDB IOT

Comment					
IOTFLAG1					
End of Comment					
136	(88)	BITSTRING	0	IOT1UNSP	"B'01000000" IOT IS UNSPUN
136	(88)	BITSTRING	0	IOT1ALO2	"B'00100000" IOT IS SECONDARY ALLOCATION IOT
136	(88)	BITSTRING	0	IOT1SPIN	"B'00010000" IOT TYPE IS SPIN
136	(88)	BITSTRING	0	IOT1ALOC	"B'00001000" IOT IS AN ALLOCATION IOT
136	(88)	BITSTRING	0	IOT1NTPR	"B'00000100" TO BE PROC. BY SPIN/HOLD
136	(88)	BITSTRING	0	IOT1NEWS	"B'00000010" JESNEWS IOT
136	(88)	BITSTRING	0	IOT1NEW	"B'00000001" 2NDARY ALLOC IOT HAS BEEN BUILT

\$IOT Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
Comment					
IOTFLAG2					
End of Comment					
136	(88)	BITSTRING	0	IOT2UNAL	"B'10000000" IOT HAS BEEN UNALLOCATED
136	(88)	BITSTRING	0	IOT2RUBL	"B'01000000" IOT IS REUSABLE
136	(88)	BITSTRING	0	IOT2RUED	"B'00100000" IOT HAS BEEN REUSED
136	(88)	BITSTRING	0	IOT2NLPL	"B'00010000" IOT CONTAINS ONLY NULL PLACEHOLDER PDDBS
136	(88)	BITSTRING	0	IOT2NSPN	"B'00001000" SPIN IOT WAS UNALLOCATED AS NO-SPIN
136	(88)	BITSTRING	0	IOT2DSCT	"B'00000100" DSCT contains valid info
136	(88)	BITSTRING	0	IOT2SPNB	"B'00000010" IOT is busy in HASPPIN
136	(88)	BITSTRING	0	IOT2SPER	"B'00000001" I/O error incurred writing IOT

\$IOT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOTCELL	74		IOT1ALO2	88	20
IOTCKCNT	0		IOT1NEW	88	1
IOTCKRC	50		IOT1NEWS	88	2
IOTCKTKN	58		IOT1NTPR	88	4
IOTCSASP	0		IOT1SPIN	88	10
IOTCYMXM	70		IOT1UNSP	88	40
IOTDSCT	4C		IOT2DSCT	88	4
IOTFAMILY	78		IOT2NLPL	88	10
IOTFLAG1	1A		IOT2NSPN	88	8
IOTFLAG2	1B		IOT2RUBL	88	40
IOTFLAG3	38		IOT2RUED	88	20
IOTFLAG4	0		IOT2SPER	88	1
IOTID	0		IOT2SPNB	88	2
IOTIOT	0		IOT2UNAL	88	80
IOTIOTTR	20		IOT3MOCF	38	40
IOTJBKEY	10		IOT3NUTK	38	80
IOTJBNMB	14	E	IOT4CKPT	0	
IOTJBNME	14	4	IOT4CSDB	0	
IOTJCT	0				
IOTJNAME	4				
IOTJOBNO	E				
IOTJOE	0				
IOTJQOFF	34				
IOTLENG	18				
IOTMSTAB	70				
IOTMTHER	24				
IOTMUCTR	54				
IOTMULTR	28				
IOTPDDB	48				
IOTPDDBP	44				
IOTPDDB1	80				
IOTRCPBA	74	70			00008
IOTSAMSK	78				
IOTSJB	0				
IOTSPLNG	14	18			
IOTSPMSK	78				
IOTSTART	0				
IOTTGADR	30				
IOTTGAE	80	88			
IOTTGAEL	80	3			
IOTTGATR	2C				
IOTTRACK	1C				
IOTUSER	5C				
IOT1ALOC	88	8			

\$JCMWORK Heading Information

Common Name: JES2 Job Command PCE Work Area
Macro ID: \$JCMWORK
DSECT Name: PCE (\$JCMWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4
Storage Attributes: Subpool: See \$PCE
 Key: See \$PCE
 Residency: See \$PCE
Size: See symbol JCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See \$PCE
Pointed to by: The \$JCMDPCE field of the \$HCT data area
 See \$PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this area are used by the JES2 Job Command Processor and by its support routines and exits. \$JCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJCMID in the second byte of field PCEID.

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

\$JCMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
0	(0)	ADDRESS	4	JCMDSJBQ	Address of current SJB queue head
8	(8)	DBL WORD	8	(0)	Force double-word alignment
8	(8)	X' '	0	JCMPCEWS	**"-PCEWORK" Length of work area

\$JCMWORK Map

\$JCT Programming Interface information

Programming Interface information

\$JCT

End of Programming Interface information

\$JCT Heading Information

Common Name: JES2 Job Control Table
Macro ID: \$JCT
DSECT Name: JCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JCT '
 Offset: JCTID-JCT
 Length: 4

Storage Attributes: Subpool: 7 in JES2 main task environment; 230 in USER or SUBTASK environments
 Key: 1
 Residency: The \$JCT is a JES2 spool resident control block. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

Size: JCTFEND-JCT is the length of the fixed portion.
 The JCT is contained in a buffer of size \$BUFSIZE which is a field in \$HCT.

Created by: Initially created by HASPRDR or HASPNSR when a job enters the system.
 In-storage versions of the control block are created by \$CBIO READ VERIFY=JCT.

Pointed to by: FSAJCTAD field of the \$FSACB data area
 IOTJCT field of the \$IOT data area
 JIBJCT field of the \$JIB data area
 JIBJCTA field of the \$JIB data area (address on spool)
 JQETRAK field of the \$JQE data area (address on spool)
 SJBCT field of the \$SJB data area
 Various fields in the processor work areas and parameter lists.

Serialization: Serialized under the JES2 TCB.

Function: The Job Control Table is the primary job oriented control block. It is created by the input service processor and written to spool. Other processors then read this control block and rewrite it to spool as needed. The control block contains two types of information: Accounting information from the accounting field of the JOB card or /*JOBPARM control card and accounting information gathered during job processing. This control block is the primary contributor to the SMF Purge record (Type 26) as well as many other SMF records.

\$JCT Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	JCT	JOB CONTROL TABLE DSECT

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

The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					

End of Comment					
0	(0)	X' '	0	JCTFLAG5	"BUFMFLG1-BFPDSECT+JCT,1" Memory-only flag byte
0	(0)	X' '	0	JCT5CKPT	"BUFM1CKP" Rewrite this JCT
Comment					

End of buffer prefix fields					

End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X' '	0	JCTSTART	*** 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					
Reserved - 2 bytes					
Job number - 2 bytes					
Job key - 4 bytes					
Dataset key - 4 bytes (or reserved if not applicable)					

End of Comment					
0	(0)	CHARACTER	4	JCTID	Eyecatcher
4	(4)	CHARACTER	8	JCTJNAME	Job name
12	(C)	BITSTRING	2		Reserved
14	(E)	SIGNED	2	JCTJOBNO	Job number
16	(10)	SIGNED	4	JCTJBKEY	Job key
20	(14)	BITSTRING	4		Reserved
20	(14)	X'18 '	0	JCTSPLNG	**-JCTID"
24	(18)	ADDRESS	2	JCTLENG	LENGTH OF JCT INCLUDING PREFIX
26	(1A)	BITSTRING	1	JCTFLAG1	FLAGS 1 ---
26	(1A)	BITSTRING	0	JCTBURST	"X'40" JOB OUTPUT BURST OPTION
26	(1A)	BITSTRING	0	JCT1INTJ	"X'20" Internally created job (Job has no subsystem datasets)
26	(1A)	BITSTRING	0	JCT1LDR	"X'10" JOB CREATED BY LOADER DEV.
26	(1A)	BITSTRING	0	JCT1RECV	"X'08" JOB RECEIVED ON SYSOUT RCVR
26	(1A)	BITSTRING	0	JCT1NUNK	"X'04" Token is NJE unknown
26	(1A)	BITSTRING	0	JCT1UNDF	"X'02" JCTJUSID is undefined user
26	(1A)	BITSTRING	0	JCT1ODEL	"X'01" Job offloaded DISP=DELETE
27	(1B)	BITSTRING	1	JCTJTFLG	JOB TERM FLAGS (SSJTFLG1)
28	(1C)	CHARACTER	8	JCTJDVT	JDVT NAME
36	(24)	BITSTRING	4	JCTTRAK	TRACK ADDRESS OF THIS JCT
40	(28)	BITSTRING	4	JCTSPIOT	TRACK ADDRESS OF 1ST SPIN IOT
44	(2C)	BITSTRING	4	JCTIOT	TRACK ADDRESS OF 1ST REGULAR IOT
48	(30)	BITSTRING	4	JCTOCTTR	TRACK ADDRESS OF OCR TABLE
52	(34)	BITSTRING	4	JCTXTRK	TRACK ADDRESS OF 1ST XMIT TRACK
56	(38)	BITSTRING	4	JCTXBUFO	BUFFER OFFSET IN 1ST XMIT TRACK
60	(3C)	BITSTRING	0	JCTSAMSK	SPOOLS ALLOWED MASK

\$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	SIGNED	4	JCTPDDBK	PERIPHERAL DATA SET KEY
64	(40)	SIGNED	4	JCTPDDBO	DS KEY FOR LAST INPUT Pddb OR 100 (X'64') IF NO SYSIN
68	(44)	SIGNED	4	JCTCNVRC	RETURN CODE FROM JCL CONVERTER
68	(44)	X' '	0	JCTCOK	"0" JCL converted without err
68	(44)	X'4 '	0	JCTCJCL	"4" JCL error detected by CNV
68	(44)	X'8 '	0	JCTCIO	"8" I/O error detected by CNV
68	(44)	X'4 '	0	JCTCDUPL	"JCTCJCL" Duplicate logon executing
68	(44)	X'C '	0	JCTCSECF	"12" Security envir. could not be established for the job
68	(44)	X'10 '	0	JCTCNWT	"16" JCL couldn't be converted The referenced JCLLIB data set not available
68	(44)	X'24 '	0	JCTCABND	"36" Unrecoverable err in CNV
68	(44)	X'38 '	0	JCTGMFAL	"56" Converter GETMAIN failed
72	(48)	SIGNED	4	JCTUSER0	RESERVED FOR USER
76	(4C)	SIGNED	4	JCTUSER1	RESERVED FOR USER
80	(50)	SIGNED	4	JCTUSER2	RESERVED FOR USER
84	(54)	SIGNED	4	JCTUSER3	RESERVED FOR USER
88	(58)	SIGNED	4	JCTUSER4	RESERVED FOR USER
92	(5C)	SIGNED	4	JCTUSER5	RESERVED FOR USER
96	(60)	SIGNED	4	JCTUSER6	RESERVED FOR USER
100	(64)	SIGNED	4	JCTUSER7	RESERVED FOR USER
104	(68)	SIGNED	4	JCTUSER8	RESERVED FOR USER
108	(6C)	SIGNED	4	JCTUSER9	RESERVED FOR USER
112	(70)	SIGNED	4	JCTUSERA	RESERVED FOR USER
116	(74)	SIGNED	4	JCTUSERB	RESERVED FOR USER
120	(78)	SIGNED	4	JCTUSERC	RESERVED FOR USER
124	(7C)	SIGNED	4	JCTUSERD	RESERVED FOR USER
128	(80)	SIGNED	4	JCTUSERE	RESERVED FOR USER
132	(84)	SIGNED	4	JCTUSERF	RESERVED FOR USER
136	(88)	CHARACTER	2	JCTPRTY	PRIORITY OR JOB CARD 'PRTY='
138	(8A)	SIGNED	2	JCTJSSTP	JOB SELECT RESTART STEP (SSRQSTEP)
140	(8C)	SIGNED	2	JCTASID	ASID OF JOB
142	(8E)	SIGNED	1	JCTVER	JCT version
142	(8E)	X' '	0	JCTCVER	"0" Current version
143	(8F)	BITSTRING	1		Reserved for future use
144	(90)	BITSTRING	1	JCTFLAG2	FLAG BYTE
144	(90)	BITSTRING	0	JCT2TWOJ	"B'10000000" Two jobcards XMIT
144	(90)	BITSTRING	0	JCT2AVDP	"B'01000000" DO NOT DO AUTH VERIFICATION IN JOB INITIATION, ALREADY DONE, JOB PASSED VERIFICATION CHECK
144	(90)	BITSTRING	0	JCT2AVF	"B'00100000" JOB FAILED AUTH VERIFICATION IN CALL FROM JES2
144	(90)	BITSTRING	0	JCT2AVD	"B'00010000" AUTH VERIFICATION DONE
144	(90)	BITSTRING	0	JCT2TJOB	"B'00001000" Job token received
144	(90)	BITSTRING	0	JCT2EXEC	"B'00000100" Job entered execution OK
144	(90)	BITSTRING	0	JCT2SDCR	"B'00000010" SAF CALL FOR SYSIN CREATE NOT YET DONE FOR SYSIN DATA SETS
144	(90)	BITSTRING	0	JCT2IOT2	"B'00000001" SYSTEM DATA SETS SPAN 2 IOTS (NOT INCLUDING MULTI-DEST COPIES)
145	(91)	BITSTRING	1	JCTFLAG3	Flag Byte
145	(91)	BITSTRING	0	JCT3TPI	"X'80" Transaction initiator
145	(91)	BITSTRING	0	JCT3BATI	"X'40" Batch initiator
145	(91)	BITSTRING	0	JCT3JDSP	"X'20" JESDS PROCESSING COMPLETED
145	(91)	BITSTRING	0	JCT3NCF	"X'10" Suppress notification of store-and-forward
145	(91)	BITSTRING	0	JCT3NCA	"X'08" Suppress notification of reached ultimate dest
145	(91)	BITSTRING	0	JCT3NOTK	"X'04" At least one D/S needs a Job Level Token
145	(91)	BITSTRING	0	JCT3FORM	"X'02" FORMS specified in JCL
145	(91)	BITSTRING	0	JCT3RJCS	"X'01" Job card processed locally
146	(92)	BITSTRING	1	JCTJSFLG	JOB SELECT FLAGS (SSRQFLG1)
147	(93)	BITSTRING	1	JCTSMFLG	SMF FLAGS
147	(93)	BITSTRING	0	JCTSMFLO	"B'11011000" Reserved
147	(93)	BITSTRING	0	JCTNOUSO	"B'00100000" Do not take IEFUSO exit
147	(93)	BITSTRING	0	JCTNOTY6	"B'00000100" Do not produce Type 6 SMF record
147	(93)	BITSTRING	0	JCTNOUJP	"B'00000010" Do not take IEFUJP exit
147	(93)	BITSTRING	0	JCTNOT26	"B'00000001" Do not produce Type 26 SMF record

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
KEEP THE FIELDS JCTJOBFL AND JCTJBOPT TOGETHER FOR SMF					
End of Comment					
148	(94)	BITSTRING	1	JCTJOBFL	HASP Job flags (same as CATJOBFL)
148	(94)	BITSTRING	0	JCTBATCH	"B'10000000" Batch job
148	(94)	BITSTRING	0	JCTTSUJB	"B'01000000" Time sharing user
148	(94)	BITSTRING	0	JCTSTCJB	"B'00100000" System task
148	(94)	X'E0	0	JCTVALJB	"JCTBATCH+JCTTSUJB+JCTSTCJB" valid types
148	(94)	BITSTRING	0	JCTNOJNL	"B'00010000" No journal option
148	(94)	BITSTRING	0	JCTNOUPT	"B'00001000" No output option
148	(94)	BITSTRING	0	JCTTSCAN	"B'00000100" TYPRUN=SCAN was specified
148	(94)	BITSTRING	0	JCTTCOPY	"B'00000010" TYPRUN=COPY was specified
148	(94)	BITSTRING	0	JCTRSTRT	"B'00000001" Allow warmstart to re-queue to XEQ
149	(95)	BITSTRING	1	JCTJBOPT	HASP Job options (same as CATJBOPT)
149	(95)	BITSTRING	0	JCTPRICD	"B'10000000" PRIORITY card or JOB card 'PRTY=' present (not used in CATJBOPT field)
149	(95)	BITSTRING	0	JCTSETUP	"B'01000000" SETUP card(S) present (not used in CATJBOPT field)
149	(95)	BITSTRING	0	JCTTHOLD	"B'00100000" TYPRUN=HOLD
149	(95)	BITSTRING	0	JCTNOLOG	"B'00010000" NO job log option
149	(95)	BITSTRING	0	JCTXBMI	"B'00001000" XBM II job
149	(95)	BITSTRING	0	JCTINRDR	"B'00000100" Job was entered on INTRDR (not used in CATJBOPT field)
149	(95)	BITSTRING	0	JCTRERUN	"B'00000010" Job was re-run (not used in CATJBOPT field)
149	(95)	BITSTRING	0	JCTQHLD	"B'00000001" Not used in JCTJBOPT, indicates class queue is held in CATJBOPT
150	(96)	BITSTRING	2		Reserved
152	(98)	SIGNED	4	(0)	
152	(98)	CHARACTER	8	JCTJOBID	HASP ASSIGNED JOB IDENTIFICATION

Comment

Keep next 24 bytes intact for SMF - JCTPNAME thru JCTPRIO

End of Comment					
160	(A0)	CHARACTER	20	JCTPNAME	PROGRAMMER'S NAME FROM JOB CARD
180	(B4)	CHARACTER	1	JCTMCLAS	MSGCLASS FROM JOB CARD
181	(B5)	CHARACTER	1	JCTJCLAS	HASP EXECUTION JOB CLASS
182	(B6)	BITSTRING	1	JCTIPRIO	HASP INITIAL JOB SELECTION PRIORITY
183	(B7)	BITSTRING	1	JCTPRIO	HASP EXECUTION SELECTION PRIORITY
184	(B8)	BITSTRING	1	JCTIOPRI	HASP INITIAL OUTPUT SELECTION PRIORITY
185	(B9)	BITSTRING	1	JCTOPRIO	HASP OUTPUT SELECTION PRIORITY
186	(BA)	SIGNED	2	JCTINJNO	Original job number
188	(BC)	SIGNED	4	JCTROUTE (0)	INPUT ROUTE CODE
188	(BC)	SIGNED	2	JCTRNODE	NODE NUMBER
190	(BE)	SIGNED	2	JCTRRMT	REMOTE NUMBER

Comment

Keep next 28 bytes intact for SMF - JCTINDEV thru JCTESTPU

End of Comment					
192	(C0)	CHARACTER	8	JCTINDEV	HASP INPUT DEVICE NAME
200	(C8)	CHARACTER	4	JCTACCTN	JOB ACCOUNTING NUMBER FROM JOB CARD
204	(CC)	CHARACTER	4	JCTROOMN	PROGRAMMER'S ROOM NUMBER
208	(D0)	SIGNED	4	JCTETIME	ESTIMATED EXECUTION TIME
212	(D4)	SIGNED	4	JCTESTLN	ESTIMATED OUTPUT LINES
216	(D8)	SIGNED	4	JCTESTPU	ESTIMATED PUNCHED OUTPUT
220	(DC)	CHARACTER	8	JCTFORMS	JOB OUTPUT FORMS
228	(E4)	BITSTRING	1	JCTFLAG4	Flag byte 4
228	(E4)	BITSTRING	0	JCT4PASE	"B'10000000" Password is encrypted

\$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
228	(E4)	BITSTRING	0	JCT4NPSE	"B'01000000" New password is encrypted
Comment					
EQU B'00100000' Used pre-R7 for JCT4NOIE					
End of Comment					
228	(E4)	BITSTRING	0	JCT4RCST	"B'00010000" Return code info set (JCTMAXRC and JCTLSTAB)
228	(E4)	BITSTRING	0	JCT4WINI	"B'00001000" Job ran under a WINIT (Work Load Manager INIT)
228	(E4)	BITSTRING	0	JCT4EJOB	"B'00000100" Job restarted
228	(E4)	BITSTRING	0	JCT4LCDF	"B'00000010" JCTLINCT value from \$LINECT
228	(E4)	BITSTRING	0	JCT4STAB	"B'00000001" JCTLSTAB set by JES2
229	(E5)	BITSTRING	1	JCTCPYCT	JOB PRINT COPY COUNT
Comment					
JCTJLOGD is a date token used to determine if a date line is needed in the job log. The token is remainder after dividing the number of days since JAN 1, 1900 by 254 plus 1. A value of zero indicates there is no date in the job log yet, a value of X'FF' indicates no dates are to be placed into the job log.					
End of Comment					
230	(E6)	BITSTRING	1	JCTJLOGD	JOB log date token
231	(E7)	BITSTRING	1	JCTLINCT	LINES PER PAGE
232	(E8)	SIGNED	4	JCTESTPG	ESTIMATED PAGE OUTPUT
236	(EC)	SIGNED	4	JCTESTBY	ESTIMATED BYTE OUTPUT
240	(F0)	SIGNED	4	JCTPROUT (0)	JOB PRINT ROUTE CODE
240	(F0)	SIGNED	2	JCTPRNOD	NODE NUMBER
242	(F2)	SIGNED	2	JCTPRRMT	REMOTE NUMBER
244	(F4)	CHARACTER	8	JCTPRRID	PRINTER EBCDIC RMT/USERID
252	(FC)	SIGNED	4	JCTPUOUT (0)	JOB PUNCH ROUTE CODE
252	(FC)	SIGNED	2	JCTPUNOD	NODE NUMBER
254	(FE)	SIGNED	2	JCTPURMT	REMOTE NUMBER
256	(100)	CHARACTER	8	JCTPURID	PUNCH EBCDIC RMT/USERID
264	(108)	CHARACTER	8	JCTPROCN	PROCEDURE DDNAME
272	(110)	CHARACTER	8	JCTPASS	CURRENT PASSWORD
280	(118)	CHARACTER	8	JCTNUPAS	NEW PASSWORD
288	(120)	CHARACTER	8	JCTGRPID	GROUPID
296	(128)	CHARACTER	8	JCTNOTUS	Notify user id
296	(128)	X'28 00007"	0	JCTTSUID	"JCTNOTUS,7" TIME SHARING USR FOR NOTIFY
304	(130)	BITSTRING	1	JCTTSUAF	INPUT SYSAF FOR NOTIFY
305	(131)	CHARACTER	9	JCTIDLEN (0)	FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER FOR RACROUTE USE
305	(131)	CHARACTER	1	JCTUIDL	USERID LENGTH
306	(132)	CHARACTER	8	JCTJUSID	USERID (FROM JOB CARD)
314	(13A)	CHARACTER	8	JCTENCKY	Password encryption key
322	(142)	SIGNED	2	JCTRXLEN	Free space in JCT for JCT extensions
324	(144)	SIGNED	3	JCTFAMILY	Highest family ID used by MOCA IOTs
327	(147)	SIGNED	1		Reserved for future use
328	(148)	SIGNED	4	(0)	Ensure fullword for token
328	(148)	BITSTRING	1	JCTTOKEN	Security TOKEN for job
Comment					
KEEP NEXT 48 BYTES INTACT FOR SMF - JCTCNVON THROUGH JCTODTOF					
End of Comment					
328	(148)	SIGNED	4	JCTCNVON	TIME ON JCL CONVERSION PROCESSOR
332	(14C)	SIGNED	4	JCTCDTON	DATE ON JCL CONVERSION PROCESSOR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
336	(150)	SIGNED	4	JCTCNVOF	TIME OFF JCL CONVERSION PROCESSOR
340	(154)	SIGNED	4	JCTCDTOF	DATE OFF JCL CONVERSION PROCESSOR
344	(158)	SIGNED	4	JCTXEQON	TIME ON EXECUTION PROCESSOR
348	(15C)	SIGNED	4	JCTXDTON	DATE ON EXECUTION PROCESSOR
352	(160)	SIGNED	4	JCTXEQOF	TIME OFF EXECUTION PROCESSOR
356	(164)	SIGNED	4	JCTXDTOF	DATE OFF EXECUTION PROCESSOR
360	(168)	SIGNED	4	JCTOUTON	TIME ON OUTPUT PROCESSOR
364	(16C)	SIGNED	4	JCTODTON	DATE ON OUTPUT PROCESSOR
368	(170)	SIGNED	4	JCTOUTOF	TIME OFF OUTPUT PROCESSOR
372	(174)	SIGNED	4	JCTODTOF	DATE OFF OUTPUT PROCESSOR

Comment

KEEP NEXT 28 BYTES INTACT FOR SMF - JCTCARDS THROUGH JCTOTSID

End of Comment

376	(178)	SIGNED	4	JCTCARDS	TOTAL NUMBER OF INPUT CARDS
380	(17C)	SIGNED	4	JCTLINES	GENERATED OUTPUT LINES
384	(180)	SIGNED	4	JCTPUNCH	GENERATED PUNCHED OUTPUT
388	(184)	CHARACTER	4	JCTRDSID	INPUT PROCESSOR SYSTEM ID
392	(188)	CHARACTER	4	JCTCVSID	CONVERSION PROCESSOR SYSTEM ID
396	(18C)	CHARACTER	4	JCTESID	EXECUTION PROCESSOR SYSTEM ID
400	(190)	CHARACTER	4	JCTOTSID	OUTPUT PROCESSOR SYSTEM ID
404	(194)	SIGNED	4	JCTPAGES	GENERATED OUTPUT PAGES
408	(198)	SIGNED	4	JCTBYTES	GENERATED OUTPUT BYTES
412	(19C)	SIGNED	4	JCTSPUNB	TOTAL BYTES IN SPUN DATASET(S)
416	(1A0)	SIGNED	2	JCTXEQND	INITIAL EXECUTION NODE
418	(1A2)	SIGNED	2	JCTXNODE	ACTUAL EXECUTION NODE
420	(1A4)	CHARACTER	4	JCTNJSID	JOB XMITTER PROCESSOR SYSTEM ID
424	(1A8)	SIGNED	4	JCTNJTON	TIME ON JOB TRANSMITTER PROCESSOR
428	(1AC)	SIGNED	4	JCTNDTON	DATE ON JOB TRANSMITTER PROCESSOR
432	(1B0)	SIGNED	4	JCTNJTOF	TIME OFF JOB TRANSMITTER PROCESSOR
436	(1B4)	SIGNED	4	JCTNDTOF	DATE OFF JOB TRANSMITTER PROCESSOR
440	(1B8)	CHARACTER	8	JCTNACCT	NETWORK ACCOUNTING NUMBER
448	(1C0)	CHARACTER	8	JCTNOJID	ORIGINAL JOB IDENTIFICATION
456	(1C8)	CHARACTER	8	JCTNNDDEV	JOB TRANSMITTER DEVICE NAME
464	(1D0)	CHARACTER	8	JCTNONDE	NETWORK ORIGINAL NODE NAME
472	(1D8)	CHARACTER	8	JCTNOUSR	SUBMITTING USERID
480	(1E0)	CHARACTER	8	JCTNXNDE	NETWORK EXECUTION NODE NAME
488	(1E8)	CHARACTER	8	JCTNNNDE	NETWORK NEXT NODE NAME
496	(1F0)	CHARACTER	8	JCTNLNDE	NETWORK LAST NODE NAME
504	(1F8)	SIGNED	4	JCTESOUT	ESTIMATED OUTPUT (LINES+CARDS)
508	(1FC)	SIGNED	4	JCTXOUT	GENERATED OUTPUT RECORDS
512	(200)	CHARACTER	8	JCTPSN1	STEP NAME FROM EXEC STEP
520	(208)	CHARACTER	8	JCTPSN2	STEP NAME OF CALLING STEP
528	(210)	DBL WORD	8	(0)	Ensure doubleword boundary
528	(210)	BITSTRING	144	JCTWORK	144-BYTE WORK AREA
672	(2A0)	BITSTRING	80	JCTXWRK	80-BYTE WORK AREA FOR RDR EXITS
672	(2A0)	X'F0	0	JCTJMRST	*** START OF JMR AREA

Comment

KEEP THE FIELDS JCTJMRJN, JCTRDRON, AND JCTRDTON TOGETHER FOR SMF

End of Comment

752	(2F0)	CHARACTER	8	JCTJMRJN	JMR JOB NAME
760	(2F8)	SIGNED	4	JCTRDRON	TIME ON INPUT PROCESSOR
764	(2FC)	SIGNED	4	JCTRDTON	DATE ON INPUT PROCESSOR
768	(300)	BITSTRING	4	JCTCPUID	JMR CPU IDENTIFICATION
772	(304)	CHARACTER	8	JCTUSEID	JMR installation data field
780	(30C)	BITSTRING	1	JCTSTEP	CURRENT STEP NUMBER
781	(30D)	BITSTRING	1	JCTINDC	JMR SMF OPTIONS
782	(30E)	BITSTRING	2	JCTJTCC (0)	CONDITION CODE
783	(30F)	BITSTRING	1	JCTCLASS	HASP EXECUTION JOB CLASS

\$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
784	(310)	SIGNED	4	JCTUCOM	JMR USER COMMUNICATION AREA
788	(314)	SIGNED	4	JCTUJVP	JMR ADDRESS OF USER EXIT ROUTINE
Comment					
KEEP THE FIELDS JCTRDROF AND JCTRDTOF TOGETHER FOR SMF					
End of Comment					
792	(318)	SIGNED	4	JCTRDROF	TIME OFF INPUT PROCESSOR
796	(31C)	SIGNED	4	JCTRDTOF	DATE OFF INPUT PROCESSOR
800	(320)	SIGNED	4	JCTJOBIN	JMR JOB SYSIN COUNT
804	(324)	BITSTRING	2	JCTRDR	READER DEVICE TYPE AND CLASS
806	(326)	BITSTRING	1	JCTJMOPT	JMR SMF OPTIONS
806	(326)	BITSTRING	0	JCTJMRUX	"B'00100000" Take user exits for SMF
807	(327)	BITSTRING	1		RESERVED
808	(328)	SIGNED	4	JCTJMRND (0)	END OF JMR
808	(328)	X'F0 00038'	0	JCTJMR	"JCTJMRST,*-JCTJMRST" REFERENCE FOR ENTIRE JMR AREA
808	(328)	BITSTRING	32	JCTXMASK	EXIT JOB MASK
840	(348)	SIGNED	4	JCTJQE	OFFSET OF HASP JOB QUEUE ENTRY
844	(34C)	CHARACTER	8	JCTNNODE	NOTIFICATION NODE
852	(354)	SIGNED	2	JCTCHNDX	CREATED HEADER TABLE INDEX
854	(356)	BITSTRING	10	JCTCHDRT	CREATED HEADER TABLE
864	(360)	ADDRESS	4	JCTNJHTR	MTRR OF JOB HEADER
868	(364)	ADDRESS	4	JCTNJTTR	MTRR OF JOB TRAILER
872	(368)	BITSTRING	1	JCTAXCLS	Actual execution class
873	(369)	BITSTRING	1	JCTAXPR	Actual execution priority
880	(370)	DBL WORD	8	JCTXSTRT	Execution start time (STCK)
888	(378)	DBL WORD	8	JCTXSTOP	Execution stop time (STCK)
896	(380)	DBL WORD	8	JCTETS	System entry Time (STCK)
904	(388)	CHARACTER	8	JCTDEPT	Programmer's department id
912	(390)	CHARACTER	8	JCTBLDG	Programmer's building id
920	(398)	CHARACTER	8	JCTROOM	PROGRAMMER'S ROOM
928	(3A0)	CHARACTER	8	JCTSGRP	Submitting group
Comment					
<p>The job accounting packet format is:</p> <p>DC Y(length) length of packet not including this halfword</p> <p>followed by a variable length string of this format:</p> <p>DC AL1(number-of-pairs-that-follow)</p> <p>followed by 0 or more accounting pairs</p> <p>Accounting pairs are of the form:</p> <p>DC AL1(length),C'string of length "length"</p> <p>A length of 0 indicates an omitted field</p> <p>Example:</p> <p>(X3600,42,,ABC) on the JOB card will result in the packet looking like:</p> <p>DC H'15' Length of following</p> <p>DC FL1'4' Nr of fields</p> <p>DC FL1'5' Length of field 1</p> <p>DC C'X3600' Field 1</p> <p>DC FL1'2' Length of field 2</p> <p>DC C'42' Field 2</p> <p>DC FL1'0' Length of field 3 (null)</p> <p>DC FL1'3' Length of field 4</p> <p>DC C'ABC' Field 4</p>					
End of Comment					
936	(3A8)	SIGNED	2	JCTACCTL (0)	Beginning of acct. packet
936	(3A8)	SIGNED	2	JCTACTLG	Length of job accounting
938	(3AA)	BITSTRING	0	JCTJOBAC	Job accounting string

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
938	(3AA)	BITSTRING	1		Reserved
940	(3AC)	SIGNED	4	(0)	Ensure alignment
940	(3AC)	CHARACTER	8	JCTSECLB	SECLABEL of job
948	(3B4)	SIGNED	4	JCTJPERD	STCK for end of READER
952	(3B8)	DBL WORD	8	JCTJPEST	Program entry start time for JSAB (Time off JCL conversion processor STCK)
960	(3C0)	CHARACTER	8	JCTNXUID	Network execution userid (from XMIT or XEQ)
968	(3C8)	CHARACTER	8	JCTMVSNM	Execution MVS System name
976	(3D0)	BITSTRING	3	JCTMAXRC	Max return code
979	(3D3)	BITSTRING	3	JCTLSTAB	Last ABEND code
982	(3D6)	CHARACTER	8	JCTWSCN	WLM service class name
990	(3DE)	CHARACTER	8	JCTWOSCN	WLM (original) srv cls name
998	(3E6)	BITSTRING	4	JCTWEARR	TOD when job re-enqueued
1002	(3EA)	CHARACTER	16	JCTSCHEN	SCHENV for job
1018	(3FA)	BITSTRING	2		RESERVED FOR FUTURE USE
1020	(3FC)	SIGNED	4		RESERVED FOR FUTURE USE
1024	(400)	SIGNED	4		RESERVED FOR FUTURE USE
1028	(404)	SIGNED	4		RESERVED FOR FUTURE USE
1032	(408)	SIGNED	4		RESERVED FOR FUTURE USE
1036	(40C)	SIGNED	4		RESERVED FOR FUTURE USE
1040	(410)	SIGNED	4	JCTFEND (0)	End of fixed portion of JCT

Comment

It is required that the JCT have enough space left after the fixed portion of the JCT (i.e. after JCTFEND) for \$JCT extensions.

Enough space is arbitrarily declared to be 512 bytes in a buffer which is at its minimum size (2048).

If the following SCON gets an assembly error, then there is not enough space left over.

End of Comment

1040	(410)	ADDRESS	2	JCTLEFT (0)
------	-------	---------	---	-------------

\$JCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JCTACCTL	3A8		JCTCOK	44	
JCTACCTN	C8		JCTCPUID	300	
JCTACTLG	3A8		JCTCPYCT	E5	
JCTASID	8C		JCTCSECF	44	C
JCTAXCLS	368		JCTCVER	8E	
JCTAXPR	369		JCTCVSID	188	
JCTBATCH	94	80	JCTDEPT	388	
JCTBLDG	390		JCTENCKY	13A	
JCTBURST	1A	40	JCTESOUT	1F8	
JCTBYTES	198		JCTESTBY	EC	
JCTCABND	44	24	JCTESTLN	D4	
JCTCARDS	178		JCTESTPG	E8	
JCTCDTOF	154		JCTESTPU	D8	
JCTCDTON	14C		JCTETIME	D0	
JCTCDUPL	44	4	JCTETS	380	
JCTCHDRT	356		JCTEXSID	18C	
JCTCHNDX	354		JCTFAMILY	144	
JCTCIO	44	8	JCTFEND	410	
JCTCJCL	44	4	JCTFLAG1	1A	
JCTCLASS	30F		JCTFLAG2	90	
JCTCNVOF	150		JCTFLAG3	91	
JCTCNVON	148		JCTFLAG4	E4	
JCTCNVRC	44		JCTFLAG5	0	
JCTCNWT	44	10	JCTFORMS	DC	

\$JCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JCTGMFAL	44	38	JCTNOUSO	93	20
JCTGRPID	120		JCTNOUSR	1D8	
JCTID	0		JCTNUPAS	118	
JCTIDLEN	131		JCTNXNDE	1E0	
JCTINDC	30D		JCTNXUID	3C0	
JCTINDEV	C0		JCTOCTTR	30	
JCTINJNO	BA		JCTODTOF	174	
JCTINRDR	95	4	JCTODTON	16C	
JCTIOPRI	B8		JCTOPRIO	B9	
JCTIOT	2C		JCTOTSID	190	
JCTIPRIO	B6		JCTOUTOF	170	
JCTJBKEY	10		JCTOUTON	168	
JCTJBOPT	95		JCTPAGES	194	
JCTJCLAS	B5		JCTPASS	110	
JCTJDVT	1C		JCTPDBBK	3C	
JCTJLOGD	E6		JCTPDDBO	40	
JCTJMOPT	326		JCTPNAME	A0	
JCTJMR	328	F0	JCTPRICD	95	80
JCTJMRJN	2F0		JCTPRIO	B7	
JCTJMRND	328		JCTPRNOD	F0	
JCTJMRST	2A0	F0	JCTPROCN	108	
JCTJMRUX	326	20	JCTPROUT	F0	
JCTJNAME	4		JCTPRRID	F4	
JCTJOBAC	3AA		JCTPRRMT	F2	
JCTJOBFL	94		JCTPRTY	88	
JCTJOBID	98		JCTPSN1	200	
JCTJOBIN	320		JCTPSN2	208	
JCTJOBNO	E		JCTPUNCH	180	
JCTJPERD	3B4		JCTPUNOD	FC	
JCTJPEST	3B8		JCTPUOUT	FC	
JCTJQE	348		JCTPURID	100	
JCTJSFLG	92		JCTPURMT	FE	
JCTJSSTP	8A		JCTQHELD	95	1
JCTJTCC	30E		JCTRDR	324	
JCTJTFLG	1B		JCTRDRDF	318	
JCTJUSID	132		JCTRDRON	2F8	
JCTLEFT	410		JCTRDSID	184	
JCTLENG	18		JCTRDTOF	31C	
JCTLINCT	E7		JCTRDTON	2FC	
JCTLINES	17C		JCTRERUN	95	2
JCTLSTAB	3D3		JCTRNODE	BC	
JCTMAXRC	3D0		JCTROOM	398	
JCTMCLAS	B4		JCTROOMN	CC	
JCTMVSNM	3C8		JCTROUTE	BC	
JCTNACCT	1B8		JCTRRMT	BE	
JCTNDTOF	1B4		JCTRSTRT	94	1
JCTNDTON	1AC		JCTRXLN	142	
JCTNJHTR	360		JCTSAMSK	3C	
JCTNJSID	1A4		JCTSCHEN	3EA	
JCTNJTOF	1B0		JCTSECLB	3AC	
JCTNJTON	1A8		JCTSETUP	95	40
JCTNJTTR	364		JCTSGRP	3A0	
JCTNLNDE	1F0		JCTSMFLG	93	
JCTNNDEV	1C8		JCTSMFLO	93	D8
JCTNNNDE	1E8		JCTSPIOT	28	
JCTNNODE	34C		JCTSPLNG	14	18
JCTNOJID	1C0		JCTSPUNB	19C	
JCTNOJNL	94	10	JCTSTART	0	
JCTNOLOG	95	10	JCTSTCJB	94	20
JCTNONDE	1D0		JCTSTEP	30C	
JCTNOTUS	128		JCTTCOPY	94	2
JCTNOTY6	93	4	JCTTHOLD	95	20
JCTNOT26	93	1	JCTTOKEN	148	
JCTNOUJP	93	2	JCTTRAK	24	
JCTNOUPT	94	8	JCTTSCAN	94	4

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
JCTTSUAF	130			JCT4EJOB	E4	4
JCTTSUID	128	28	00007	JCT4LCDF	E4	2
JCTTSUJB	94	40		JCT4NPSE	E4	40
JCTUCOM	310			JCT4PASE	E4	80
JCTUIDL	131			JCT4RCST	E4	10
JCTUJVP	314			JCT4STAB	E4	1
JCTUSEID	304			JCT4WINI	E4	8
JCTUSERA	70			JCT5CKPT	0	
JCTUSERB	74					
JCTUSERC	78					
JCTUSERD	7C					
JCTUSERE	80					
JCTUSERF	84					
JCTUSER0	48					
JCTUSER1	4C					
JCTUSER2	50					
JCTUSER3	54					
JCTUSER4	58					
JCTUSER5	5C					
JCTUSER6	60					
JCTUSER7	64					
JCTUSER8	68					
JCTUSER9	6C					
JCTVALJB	94	E0				
JCTVER	8E					
JCTWEARR	3E6					
JCTWORK	210					
JCTWOSCN	3DE					
JCTWSCN	3D6					
JCTXBMII	95	8				
JCTXBUFO	38					
JCTXDTOF	164					
JCTXDTON	15C					
JCTXEQND	1A0					
JCTXEQOF	160					
JCTXEQON	158					
JCTXMASK	328					
JCTXNODE	1A2					
JCTXOUT	1FC					
JCTXSTOP	378					
JCTXSTRT	370					
JCTXTRK	34					
JCTXWRK	2A0					
JCT1INTJ	1A	20				
JCT1LDR	1A	10				
JCT1NUNK	1A	4				
JCT1ODEL	1A	1				
JCT1RECV	1A	8				
JCT1UNDF	1A	2				
JCT2AVD	90	10				
JCT2AVDP	90	40				
JCT2AVF	90	20				
JCT2EXEC	90	4				
JCT2IOT2	90	1				
JCT2SDCR	90	2				
JCT2TJOB	90	8				
JCT2TWOJ	90	80				
JCT3BATI	91	40				
JCT3FORM	91	2				
JCT3JDSP	91	20				
JCT3NCA	91	8				
JCT3NCF	91	10				
JCT3NOTK	91	4				
JCT3RJCS	91	1				
JCT3TPI	91	80				

\$JCT Cross Reference

\$JCTX Programming Interface information

Programming Interface information

\$JCTX

End of Programming Interface information

\$JCTX Heading Information

Common Name: JES2 Job Control Table Extension
Macro ID: \$JCTX
DSECT Name: JCTX
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JCTX'
 Offset: JCXEYE-JCTX
 Length: 4

Storage Attributes: Subpool: 7 in JES2 main task environment; 230 in USER or SUBTASK environments
 Key: 1
 Residency: The \$JCTX is an extension of the \$JCT, currently residing in the same spool buffer as the \$JCT. No code dependencies (other than in the \$JCTX service routines themselves) should rely on this. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

Size: JCXORG-JCTX defines the length of the base section of the JCTX. JCXLEN contains the total length of the extension.

Created by: \$JCTXADD routine in HASCXJCT.
 In-storage versions of the control block are created by \$CBIO READ VERIFY=JCT.

Pointed to by: \$JCTXGET macro should be used to find the address of the extension.

Serialization: Serialization is the same as for the \$JCT.

Function: The Job Control Table Extension gives an installation the ability to associate their own information with a job without modifying the Job Control Table. These extensions may be manipulated using the \$JCTXADD, \$JCTXEXP, \$JCTXGET, and \$JCTXREM services.

The \$JCTX mapping is also used as the parameter list to the \$JCTX service routines. These parameter lists are created by the \$JCTXxxx macros and deleted by the corresponding routines.

\$JCTX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JCTX	,
0	(0)	CHARACTER	4	JCXEYE	JCTX Eyecatcher
4	(4)	CHARACTER	4	JCXTYPE	Extension Type
8	(8)	SIGNED	2	JCXMOD	Extension Modifier
10	(A)	SIGNED	2	JCXLEN	Extension Length

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The variable information in the \$JCTX begins at label JCXORG. Note that different mappings will exist for different values of TYPE and MOD. The instruction "ORG ," should not be used in the mappings for any extension, as this sets the location counter to the highest value defined so far. If multiple sections are defined, this could lead to an erroneous mapping.</p>					
End of Comment					
12	(C)	SIGNED	4	JCXORG (0)	Origin for variable data portions of \$JCT extension.
12	(C)	X'C	0	JCXBASLN	"JCXORG-JCTX" Length of base section of the \$JCTX

\$JIB Programming Interface information

Programming Interface information

\$JIB

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

- JIBGCB
- JIBJSPA

End of Programming Interface information

\$JIB Heading Information

Common Name: JES2 JOE Information Block
Macro ID: \$JIB
DSECT Name: JIB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: JIB
 Offset: JIBID-JIB
 Length: L'JIBID

Storage Attributes: Subpool: 230
 Key: 1
 Residency: If the FSS supports AMODE 31, then ANY. If the FSS only supports AMODE 24, then storage is obtained below the line. Real storage is anywhere.

Size: See JIBSIZE
Created by: HASPFSSM
Pointed to by: FSAREQQS field of the FSACB data area
 FSAACTQS field of the FSACB data area
 FSARETQS field of the FSACB data area
 FSSFJIBS field of the FSSCB data area
 JIBNEXT field of the JIB data area

Serialization: Standard FSA level control block serialization.
Function: The JIB is used to pass JOE level information between the JES2 main task (in HASPFSSP) and the FSS address space (HASPFSM). In addition, HASPFSSM uses the JIB to store JOE level information.

\$JIB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JIB	JOE INFORMATION BLOCK
0	(0)	CHARACTER	4	JIBID	JIB IDENTIFIER
4	(4)	SIGNED	4	JIBNEXT	POINTER TO NEXT JIB ON QUEUE
8	(8)	SIGNED	4	JIBJ2RAB (0)	BEGIN JES2 RELDS CMS COPY AREA
8	(8)	CHARACTER	8	JIBMIDSE	JIB unprintable reason code
16	(10)	SIGNED	4	JIBFLAGS (0)	JIB FLAG BYTES
16	(10)	BITSTRING	1	JIBFLG1	FIRST FLAG BYTE
16	(10)	BITSTRING	0	JIBFREQ	"B'10000000" JIB IS A REQUEST FOR A JOE
16	(10)	BITSTRING	0	JIBFACT	"B'01000000" JIB IS ACTIVE ON DEVICE
16	(10)	BITSTRING	0	JIBFRET	"B'00100000" JIB IS BEING RETURNED TO JES
16	(10)	BITSTRING	0	JIBFINIT	"B'00010000" JIB IS INITIALIZED
16	(10)	BITSTRING	0	JIBFCOMP	"B'00001000" JIB COMPLETELY PROCESSED
16	(10)	BITSTRING	0	JIBFINCP	"B'00000100" JIB NOT COMPLETELY PROCESSED
16	(10)	BITSTRING	0	JIBFCPB	"B'00000010" CHECKPOINT BUFFER ACQUIRED
16	(10)	BITSTRING	0	JIBIOERR	"B'00000001" I/O ERROR ON JCT/IOT READ
17	(11)	BITSTRING	1	JIBFLG2	SECOND FLAG BYTE
17	(11)	BITSTRING	0	JIBFSTOP	"B'10000000" \$Z COMMAND
17	(11)	BITSTRING	0	JIBFDEL	"B'01000000" \$C COMMAND
17	(11)	BITSTRING	0	JIBFRST	"B'00100000" \$E COMMAND
17	(11)	BITSTRING	0	JIBFINT	"B'00010000" \$I COMMAND
17	(11)	BITSTRING	0	JIBFBKSP	"B'00001000" \$B COMMAND
17	(11)	BITSTRING	0	JIBFJHPG	"B'00000100" JOB HEADER PAGE REQUIRED
17	(11)	BITSTRING	0	JIBFJTPG	"B'00000010" JOB TRAILER PAGE REQUIRED
17	(11)	BITSTRING	0	JIBFNEWS	"B'00000001" JES2 NEWS DATA SET ACQUIRED
18	(12)	BITSTRING	1	JIBFLG3	THIRD FLAG BYTE
18	(12)	BITSTRING	0	JIBFFSTP	"B'10000000" 1ST PDDB BEING GETDSD FROM JOE
18	(12)	BITSTRING	0	JIBFLSTP	"B'01000000" LAST PDDB BEING GETDSD FROM JOE
18	(12)	BITSTRING	0	JIBFCPVL	"B'00100000" VALID CKPT RECORD READ FOR JOE
18	(12)	BITSTRING	0	JIBFCPER	"B'00010000" I/O ERROR ON SPOOL CKPT RECORD

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
18	(12)	BITSTRING	0	JIBFUNPR	"B'00001000" UNPRINTABLE JOE IN JIB
18	(12)	BITSTRING	0	JIBFONDV	"B'00000100" ON DEVICE MSG NEEDED FOR JOE
18	(12)	BITSTRING	0	JIBFOPIC	"B'00000010" JIB CANCELLED DURING SETUP
18	(12)	BITSTRING	0	JIB3AUTH	"B'00000001" JESNEWS AUTHORIZATION FAILURE
19	(13)	BITSTRING	1	JIBFLG4	FOURTH FLAG BYTE
19	(13)	BITSTRING	0	JIB4RSV1	"B'10000000" Reserved for future use
19	(13)	BITSTRING	0	JIB4DUMD	"B'01000000" Dummy data set being processed
19	(13)	BITSTRING	0	JIB4FSSR	"B'00100000" HASP704 for FSS reason
19	(13)	BITSTRING	0	JIBSWBER	"B'00010000" SWB error
19	(13)	BITSTRING	0	JIB4RDIP	"B'00001000" FSA posted for GETDS as dataset RELDSed incomplete & FSA was waiting for work
19	(13)	BITSTRING	0	JIB4OPIN	"B'00000100" Operator intervention requested for dataset within JIB
19	(13)	BITSTRING	0	JIB4REPO	"B'00000010" JIB's dataset going thru reposition
20	(14)	BITSTRING	1	JIBUNPRR	REASON PRT DS UNPRINTABLE
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	JIBJ2GAB (0)	BEGIN JES2 GETDS CMS COPY AREA
24	(18)	SIGNED	4		RESERVED FOR FUTURE USE
28	(1C)	SIGNED	4	JIBJOEOF	OFFSET OF JOE IN THE JOT
32	(20)	SIGNED	4	JIBJ2RAE (0)	END OF JES2 RELDS CMS COPY AREA
32	(20)	BITSTRING	4	JIBJCTA	JCT TRACK ADDRESS (JQEJCT)
36	(24)	BITSTRING	6	JIBKEY (0)	JIB KEY - PREFIX OF DATA SET ID
36	(24)	SIGNED	2	JIBJOBNO	HASP JOB NUMBER (JQJOBNO)
40	(28)	SIGNED	4		Reserved for future use
44	(2C)	CHARACTER	8	JIBJOBID	HASP JOB IDENTIFIER
52	(34)	ADDRESS	4	JIBJKEY	HDBDSKEY FOR CB VERIFICATION
56	(38)	BITSTRING	0	JIBNEWS	Copy of current JNEW CB (used for JESNEWS)
56	(38)	SIGNED	4	JIBJ2GAE (0)	END OF JES2 GETDS CMS COPY AREA
56	(38)	SIGNED	4	JIBWORK (4)	WORK AREA FOR \$VERIFY IN FSSM
72	(48)	ADDRESS	4	JIBSJIOB	Normal SJIOB pointer
76	(4C)	ADDRESS	4	JIBCSJIO	CHK record SJIOB pointer
80	(50)	ADDRESS	4	JIBJCT	POINTER TO JCT
84	(54)	ADDRESS	4	JIBIOT	POINTER TO IOT
88	(58)	ADDRESS	4	JIBIOTTR	IOT MTTR (CURRENT OR RESET)
92	(5C)	ADDRESS	4	JIBPDDB	POINTER TO NEXT ASSIGNABLE PDDB
96	(60)	ADDRESS	4	JIBFPDB	FIRST PDDB OFFSET IN JIB
100	(64)	ADDRESS	4	JIBFIOTR	IOT MTTR OF FIRST PDDB
104	(68)	ADDRESS	4	JIBCPBUF	CHECKPOINT I/O BUFFER ADDRESS
108	(6C)	ADDRESS	4	JIBGCB	POINTER TO GCB CHAIN
112	(70)	SIGNED	4	JIBDSACT	DATA SETS ASSIGNED COUNT
116	(74)	SIGNED	4	JIBDSEQN	DATA SET SEQUENCE NUMBER
120	(78)	CHARACTER	8	JIBSECLB	Security label of the job
128	(80)	BITSTRING	0	JIBWJOE	COPY OF WORK-JOE
128	(80)	BITSTRING	0	JIBCJOE	COPY OF CHAR-JOE
128	(80)	BITSTRING	1	JIBJSPA	JSPA AREA
128	(80)	X'80	0	JIBSIZE	**-"JIB" LENGTH OF JIB

\$JIB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JIBCJOE	80		JIBFINCP	10	4
JIBCPBUF	68		JIBFINIT	10	10
JIBCSJIO	4C		JIBFINT	11	10
JIBDSACT	70		JIBFIOTR	64	
JIBDSEQN	74		JIBFJHPG	11	4
JIBFACT	10	40	JIBFJTPG	11	2
JIBFBKSP	11	8	JIBFLAGS	10	
JIBFCOMP	10	8	JIBFLG1	10	
JIBFCPB	10	2	JIBFLG2	11	
JIBFCPER	12	10	JIBFLG3	12	
JIBFCPVL	12	20	JIBFLG4	13	
JIBFDEL	11	40	JIBFLSTP	12	40
JIBFFSTP	12	80	JIBFNEWS	11	1

\$JIB Cross Reference

Name	Hex Offset	Hex Value
JIBFONDV	12	4
JIBFOPIC	12	2
JIBFPDB	60	
JIBFREQ	10	80
JIBFRET	10	20
JIBFRST	11	20
JIBFSTOP	11	80
JIBFUNPR	12	8
JIBGCB	6C	
JIBID	0	
JIBIOERR	10	1
JIBIOT	54	
JIBIOTTR	58	
JIBJCT	50	
JIBJCTA	20	
JIBJKEY	34	
JIBJOBID	2C	
JIBJOBNO	24	
JIBJOEOF	1C	
JIBJSPA	80	
JIBJ2GAB	18	
JIBJ2GAE	38	
JIBJ2RAB	8	
JIBJ2RAE	20	
JIBKEY	24	
JIBMIDSE	8	
JIBNEWS	38	
JIBNEXT	4	
JIBPDDB	5C	
JIBSECLB	78	
JIBSIZE	80	80
JIBSJIOB	48	
JIBSWBER	13	10
JIBUNPRR	14	
JIBWJOE	80	
JIBWORK	38	
JIB3AUTH	12	1
JIB4DUMD	13	40
JIB4FSSR	13	20
JIB4OPIN	13	4
JIB4RDIP	13	8
JIB4REPO	13	2
JIB4RSV1	13	80

\$JNEW Programming Interface Information

Programming Interface Information

\$JNEW

End of Programming Interface Information

\$JNEW Heading Information

Common Name: HASP JESNEWS CONTROL BLOCK DSECT
Macro ID: \$JNEW
DSECT Name: JNEW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: JNEW
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 0
 Key: 1
 Residency: VIRTUAL - Any REAL - Any
Size: JNEWSIZE
Created by: HASPJOS
Pointed to by: \$NEWS field of the HCT data area
 FREQUENCY: One per active JESNEWS data set on each member of the MAS
Serialization: Creation is serialized by the \$PRONews flag of the \$PROCESS byte in the HCT
Function: The JNEW is the control block representing the the JESNEWS data set. It contains the JESNEWS data set resource name and the TOKEN associated with the data set. The format of the entity name is "nodeid.jes_userid.\$JESNEWS.jesnews_jobid.Dnews_level.JESNEWS". The JNEW is located in the JES2 address space. It is created by \$#NEWS when a new news data set is created and by \$#GTNEWS when a printer requests the current news.

\$JNEW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JNEW	
0	(0)	CHARACTER	4	JNEWID	JNEW identifier
4	(4)	ADDRESS	1	JNEWVERS	Version
4	(4)	BITSTRING	0	JNEWVRSN	"X'01" Version equate
5	(5)	BITSTRING	1	JNEWFLAG	Flag byte
5	(5)	BITSTRING	0	JNEWMOVD	"B'10000000" JESNEWS was moved
6	(6)	ADDRESS	2		Reserved
8	(8)	SIGNED	4	JNEUUSE	Use Count
12	(C)	ADDRESS	4	JNEWNEXT	Address of next JNEW
16	(10)	SIGNED	2	JNEWJQE	Job number of JQE
18	(12)	SIGNED	2	JNEWLEVL	Level of the news
20	(14)	ADDRESS	4	JNEWMTTR	MTTR of JESNEWS data set
24	(18)	ADDRESS	4	JNEWIOTT	MTTR of JESNEWS IOT
28	(1C)	SIGNED	4	JNEWRECT	Data set record count
32	(20)	SIGNED	4	JNEWPGCT	Page data page count
36	(24)	BITSTRING	0	JNEWTOKN	JESNEWS Security token
36	(24)	CHARACTER	53	JNEWENTY	JESNEWS entity name
89	(59)	BITSTRING	1	JNEWRECF	Data set record format
90	(5A)	BITSTRING	2	JNEWRECL	Maximum data set record lng
92	(5C)	BITSTRING	4		Reserved
96	(60)	DBL WORD	8	(0)	Ensure boundary
96	(60)	X'60	0	JNEWSIZE	"*-JNEW" Size of JNEW control block

\$JNEW Cross Reference

Name	Hex Offset	Hex Value
JNEWENTY	24	
JNEWFLAG	5	
JNEWID	0	
JNEWIOTT	18	
JNEWJQE	10	
JNEWLEVL	12	
JNEWMOVD	5	80
JNEWMTTR	14	
JNEWNEXT	C	
JNEWPGCT	20	
JNEWRECF	59	
JNEWRECL	5A	
JNEWRECT	1C	
JNEWSIZE	60	60
JNEWTOKN	24	
JNEWUSE	8	
JNEWVERS	4	
JNEWVRSN	4	1

\$JNEW Cross Reference

\$JNT Programming Interface information

Programming Interface information

\$JNT

End of Programming Interface information

\$JNT Heading Information

Common Name: HASP Job Number Table
Macro ID: \$JNT
DSECT Name: JNT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JNT '
 Offset: JNTID-JNT
 Length: 4

Storage Attributes: Subpool: 0, 231, dataspace
 Key: 1
 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the APPLCOPY is in ECSA. Real storage is anywhere.

Size: JNTLEN + 2 * (\$MAXJBNO + 1)
Created by: JES2 initialization allocates storage for the JNT.
 The checkpoint versions subtask creates copies of the JNT in the APPLCOPY and the checkpoint versions data space.

Pointed to by: The \$JNTPTR field of the \$HCT data area.
 The KACJNTP field of the \$KAC data area.
 The DSRVJNPT field of the IAZDSERV data area.

Serialization: JES2 checkpoint data set lock (\$QSUSE)
Function: Maps the job number table in the 4K checkpoint page area. Contains all job number information including the JIX (job number index).

\$JNT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JNT	JOB NUMBER TABLE DSECT
0	(0)	CHARACTER	4	JNTID	JNT IDENTIFIER
4	(4)	ADDRESS	1	JNTVRSN	JNT VERSION
4	(4)	X'2 '	0	JNTVERS	"2" JNT VERSION NUMBER
5	(5)	ADDRESS	3	JNTRSV1	RESERVED
8	(8)	SIGNED	4	JNTLCMIN	LOCAL MINIMUM JOB NUMBER
12	(C)	SIGNED	4	JNTLCMAX	LOCAL MAXIMUM JOB NUMBER
16	(10)	SIGNED	4	JNTLSTAL	LAST ALLOCATED JOB NUMBER
20	(14)	SIGNED	4	JNTFRCNT	NUMBER OF FREE JOB NUMBERS
24	(18)	ADDRESS	4	JNTJBMAX	TOTAL NUMBER OF JOB NUMBERS
28	(1C)	SIGNED	4	(2)	Reserved for future use
36	(24)	SIGNED	4	JNTJIX (0)	START OF JIX
36	(24)	X'24 '	0	JNTLEN	"*-JNT" LENGTH OF THE JNT

\$JNT Cross Reference

Name	Hex Offset	Hex Value
JNTFRCNT	14	
JNTID	0	D1D5E340
JNTJBMAX	18	
JNTJIX	24	
JNTLCMAX	C	
JNTLCMIN	8	
JNTLEN	24	24
JNTLSTAL	10	
JNTRSV1	5	
JNTVERS	4	2
JNTVRSN	4	

\$JNT Cross Reference

\$JOE Programming Interface information

Programming Interface information

\$JOE

End of Programming Interface information

\$JOE Heading Information

Common Name: Job Output Element
Macro ID: \$JOE
DSECT Name: JOE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of JOEs is preceded by an
eyecatcher *****JOE POOL***** in the header
for the pool.
Offset: HDPID-HDP
Length: 13

Storage Attributes: Subpool: 0 for the JES2 main copy; 231 for the APPLCOPY copy; dataspace for the
checkpoint version copy.
Key: 1
Residency: The JOE is a checkpoint resident control block. Virtual storage is anywhere
(below or above 16M) in the JES2 address space for the JES2 main copy. Virtual
storage for the APPLCOPY copy is in ECSA.

Size: See JOESIZE.

Created by: JES2 Initialization allocates memory for the pool
of JOEs. The APPLCOPY subtask creates the APPLCOPY
instances. The checkpoint versions subtask creates
the dataspace copies. The \$#ADD service routine
creates elements within the pool.

Pointed to by: The following fields contain offsets to \$JOEs from
the address in field \$JOTABLE in the \$HCT data area.
The offsets are converted to addresses by adding the
value in \$JOTABLE to the offset.
JOTFREQ field of the \$JOT data area
JOTCHRQ field of the \$JOT data area
JOTPURGQ field of the \$JOT data area
JOTHOLDQ field of the \$JOT data area
JOTCLSQ field of the \$JOT data area
JOTNTWKQ field of the \$JOT data area
JQEJOE field of the \$JQE data area
JOENEXT field of the \$JOE data area
JOEPREV field of the \$JOE data area
JOEJQNXT field of the \$JOE data area
JOECHAR field of the \$JOE data area
JOECHNXT field of the \$JOE data area
JOEWPTR field of the \$JOE data area
PSOWKOFF field of the \$PSO data area
PSOCHOFF field of the \$PSO data area

The following fields contain addresses of \$JOEs:
PQEJWJOE field of the \$PQE data area
PQEDWJOE field of the \$PQE data area
PQHJWJOE field of the \$PQH data area

Various fields in the processor work areas and
parameter lists contain offsets or addresses of
JOEs.

Serialization: The JES2 checkpoint (\$QSUSE) for change, the owning job's job lock for selection. JOEs in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since they could be changing, they may be page-released or they may be all zeros.

Function: The JOE control block represents group of sysout data sets (PDDBs) with compatible output grouping characteristics. It is a checkpointed control block that represents queued and active output work.

There are two main types of JOEs, work JOEs and characteristics JOEs. Work JOEs are the queue elements used to select, hold, track, etc. an output group. The chains that are run to select output work are those of work JOEs. Work JOEs contain attributes of JOEs that vary frequently such as class, record counts and page counts. One characteristics JOE exists for each unique combination of other characteristics not in the work JOE that vary less frequently such as userid, writer id and security label for all the JOEs in the MAS. One characteristics JOE may represent multiple work JOEs.

The work JOEs are chained by SYSOUT classes, from anchors in the Job Output Table (JOT). The JOT anchors are in the CKPT, located in the front of the section for the JOEs.

The JOEs written to the checkpoint exist in multiple copies: main and I/O checkpoint areas. The main and I/O CKPT areas in storage each have a copy, and are in subpool 0. There may be 1 or more versions in the CKPT Versions dataspace as well. Also, if the APPLCOPY option is used another copy may be in subpool 0 or subpool 231 CSA.

Copies of JOEs may be made in other control blocks, for example in the JIB that flows through the FSS output logic in an FSS address space (copied from the JES2 address space).

\$JOE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JOE	JOB OUTPUT ELEMENT DSECT
Comment					
JOE fields common to both Work and Char JOEs					
End of Comment					
0	(0)	X'7'	0	JOEVRSN	"7" JOE control block version
0	(0)	ADDRESS	4	JOENEXT (0)	
0	(0)	BITSTRING	1	JOETYPE	JOE TYPE
0	(0)	BITSTRING	0	JOEWORK	"B'10000000" THIS IS A WORK JOE
0	(0)	BITSTRING	0	JOECHARJ	"B'01000000" THIS IS A CHAR JOE
0	(0)	BITSTRING	0	JOEFREE	"B'11000000" THIS IS A FREE JOE
1	(1)	ADDRESS	3	JOENEXTB	Offset of next Work-JOE in class queue, or next Char-JOE
4	(4)	ADDRESS	4	JOEPREV (0)	
4	(4)	BITSTRING	1	JOECURCL	JOE CURRENT SYSOUT CLASS (reserved in the CHAR JOE)
5	(5)	ADDRESS	3	JOEPREVB	Offset of prev Work-JOE in class queue, or prev Char-JOE
8	(8)	BITSTRING	1	JOEFLAG5	Common area JOE flag byte
8	(8)	BITSTRING	0	JOE5RBLD	"B'00000001" This JOE is on the Rebuild queue
8	(8)	BITSTRING	0	JOE5ZAP	"B'00000010" JOE (and JQE) zapped by ZAPJOB
9	(9)	BITSTRING	3		Reserved for future use
12	(C)	SIGNED	4	JOECSEND (0)	End of common section

\$JOE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JOE fields used only in Work JOEs					
End of Comment					
12	(C)	ADDRESS	4	JOEJQE (0)	
12	(C)	BITSTRING	1	JOEFLAG1	WORK-JOE FLAGS
12	(C)	BITSTRING	0	JOE1CKV	"B'10000000" CHECKPOINT ELEMENT VALID FLAG
12	(C)	BITSTRING	0	JOE1SPIN	"B'01000000" SPIN JOE FLAG
12	(C)	BITSTRING	0	JOE1PRT	"B'00100000" JOE ON-PRINTER FLAG
12	(C)	BITSTRING	0	JOE1PUN	"B'00010000" JOE ON-PUNCH FLAG
12	(C)	BITSTRING	0	JOE1CJES	"B'00001000" ckpted by JES (not by FSS). If JOE is interrupted and later processed by FSS, bit indicates to invalidate ckpt + reset counts
Comment					
<p>-----</p> JOE1CPDS is set on when a JOE is built and when PDDBs are grouped into the JOE. JOE1CPDS is never turned off even if there are no more PDDBs with PDB3PAGE on <p>-----</p>					
End of Comment					
12	(C)	BITSTRING	0	JOE1CPDS	"B'00000100" One or more PDDBs within this JOE are Page mode (i.e. PDB3PAGE is on)
Comment					
<p>-----</p> JOE1CTKN is set on when a JOE is built if a PDDB being represented by the JOE has a client token associated with it (a client token was returned on the dynamic allocation for the SYSOUT data set represented by the PDDB). <p>-----</p>					
End of Comment					
12	(C)	BITSTRING	0	JOE1CTKN	"B'00000010" A PDDB within this JOE has a client token associated with it(i.e. PDB9CTKN on)
13	(D)	ADDRESS	3	JOEJQEB	OFFSET JOB QUEUE ELEMENT
16	(10)	ADDRESS	4	JOEJQNXT (0)	
16	(10)	BITSTRING	1	JOEFLAG2	MORE WORK JOE FLAGS
16	(10)	BITSTRING	0	JOE2TCEL	"B'10000000" TRACK-CELL JOE FLAG
16	(10)	BITSTRING	0	JOE2DMND	"B'01000000" DEMAND-SETUP JOE FLAG
16	(10)	BITSTRING	0	JOE2SYSN	"B'00100000" SYSTEM GENERATED JOE NAME FLAG
16	(10)	BITSTRING	0	JOE2CLNE	"B'00010000" SET MULTIPLE COPIES OF THIS JOE
16	(10)	BITSTRING	0	JOE2UPRI	"B'00001000" USER SPECIFY PRIORITY FLAG
16	(10)	BITSTRING	0	JOE2IPAD	"B'00000100" Destination is in IP-format
16	(10)	BITSTRING	0	JOE2NUNK	"B'00000010" Tokens are NJE unknown user
16	(10)	BITSTRING	0	JOE2UNSP	"B'00000001" JOE CREATED BY UNSPUN PROC
17	(11)	ADDRESS	3	JOEJQNXB	OFFSET NEXT WORK-JOE W/SAME JOB
20	(14)	ADDRESS	4	JOECHAR (0)	
20	(14)	BITSTRING	1	JOEFLAG3	THIRD WORK JOE FLAG
20	(14)	BITSTRING	0	JOE3CPER	"B'10000000" PERM I/O ERROR ON CHK SPOOL REC
20	(14)	BITSTRING	0	JOE3IOTV	"B'01000000" JOE'S IOT HAS BEEN WRITTEN
20	(14)	BITSTRING	0	JOE3NWTG	"B'00100000" GET NEW TRK GRP FOR CHK
20	(14)	X' '	0	JOE3TODP	"\$ODPURGE" JOE IS OUTDISP=PURGE
20	(14)	X' '	0	JOE3TODW	"\$ODWRITE" JOE IS OUTDISP=WRITE
20	(14)	X' '	0	JOE3TODH	"\$ODHOLD" JOE IS OUTDISP=HOLD
20	(14)	X' '	0	JOE3TODK	"\$ODKEEP" JOE IS OUTDISP=KEEP
20	(14)	X' '	0	JOE3TODL	"\$ODLEAVE" JOE IS OUTDISP=LEAVE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	X' '	0	JOE3TODA	"\$ODANYWP" ALL OUTDISP BIT SETTINGS
21	(15)	ADDRESS	3	JOECHARB	OFFSET CHARACTERISTIC-JOE
24	(18)	ADDRESS	4	JOECHNXT (0)	
24	(18)	BITSTRING	1	JOEOFFSL	OFFLOAD SELECT BYTE
25	(19)	ADDRESS	3	JOECHNXB	OFFSET NEXT WORK-JOE, SAME CHAR
28	(1C)	BITSTRING	1	JOEFLAG4	FOURTH WORK JOE FLAG
28	(1C)	BITSTRING	0	JOE4JNEW	"B'10000000" JESNEWS JOE FLAG
28	(1C)	BITSTRING	0	JOE4RES2	"B'01000000" Reserved for future use
28	(1C)	BITSTRING	0	JOE4DAUG	"B'00100000" JOE created from daughter spin IOT
28	(1C)	BITSTRING	0	JOE4DSCT	"B'00010000" Valid DSCT in spin IOT
28	(1C)	BITSTRING	0	JOE4PRIO	"B'00001000" Installation set Priority
28	(1C)	BITSTRING	0	JOE4DSID	"B'00000100" DSID= 3540 HELD DATA SET
28	(1C)	BITSTRING	0	JOE4NPSO	"B'00000010" JOE IS NOT AVAILABLE TO PSO
28	(1C)	BITSTRING	0	JOE4PRST	"B'00000001" JOE priority has been set by \$#BLD

Comment

Flag byte JOEFLGT2 is used by various processors (HASPFSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both \$TO and \$R command processing.

End of Comment

29	(1D)	BITSTRING	1	JOEFLGT2	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in Pddb. See also JOEFLAGT.
29	(1D)	BITSTRING	0	JOE2TUSE	"B'01000000" Userid changed via commands
29	(1D)	BITSTRING	0	JOETPSOC	"B'00100000" JOE created by PSO/SAPI
29	(1D)	BITSTRING	0	JOETPSOA	"B'00010000" PSO/SAPI added Pddb to JOE
29	(1D)	BITSTRING	0	JOETPSOD	"B'00001000" PSO/SAPI deleted Pddb from JOE
30	(1E)	BITSTRING	1	JOEHOLD	DATA SET HOLD REASON

Comment

OHLDOPER B'10000000' OPERATOR HOLD
 OHLDSYS B'00100000' SYSTEM HOLD
 OHLDALL B'11111111' ALL HOLD

End of Comment

31	(1F)	BITSTRING	1	JOEHSRSN	SYSTEM HOLD REASON
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Comment

OHLDJX01 X'01' FSI RELDS UNPRINTABLE SWB ERROR
 OHLDJX02 X'02' FSI RELDS UNPRINTABLE FSA
 OHLDJX03 X'03' SAF CALL FAILED IN HASPPRPU
 OHLDJX04 X'04' TRANSMISSION FAILED IN HASPNET
 OHLDJX05 X'05' NJE Hop Count Exceeded
 OHLDJX06 X'06' Held by Sysout API
 OHLDJ233 X'33' OFFLOAD WITH HOLD
 OHLDJ234 X'34' PROGRAM CHECK IN HASPPRPU
 OHLDJ235 X'35' PROGRAM CHECK IN USER EXIT
 OHLDJ236 X'36' PROGRAM CHECK IN SWBTUREQ

End of Comment

32	(20)	SIGNED	4	JOEFSID	FSID IF JOE ACTIVE ON AN FSA
32	(20)	X'20 00002'	0	JOEFSSID	"JOEFSID,2,C'H" FSS ID
32	(20)	X'22 00002'	0	JOEFSID	"JOEFSID+2,2,C'H" FSA ID
32	(20)	X'20 00004'	0	JOENETCH	"JOEFSID,4,C'A" NET SYSOUT TRANSMITTER CHAIN
36	(24)	SIGNED	2	JOEPRIO	JOE PRIORITY X'0000' - X'0FF0'

\$JOE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
38	(26)	SIGNED	2	JOEJNEWS	JOB NUMBER FOR JESNEWS JOE
38	(26)	X'26 00002'	0	JOENEWLVL	"JOEJNEWS,L'JOEJNEWS" JESNEWS Level number
40	(28)	BITSTRING	4	JOECPADR	JESNEWS WORK-JOE ONLY CKPT SPOOL RECORD ADDR (MTTR)
Comment					
THESE FIELDS MUST BE KEPT TOGETHER					
End of Comment					
44	(2C)	BITSTRING	4	JOERECCT	TOTAL RECORD COUNT
48	(30)	BITSTRING	4	JOEPGCT	TOTAL PAGE RECORD COUNT
52	(34)	BITSTRING	4	JOEWRECN	NUM OF RECS PROCESSED SO FAR
56	(38)	BITSTRING	4	JOEWPAGN	NUM OF PAGES PROCESSED SO FAR
Comment					
END OF SECTION THAT MUST BE KEPT TOGETHER					
End of Comment					
60	(3C)	BITSTRING	4	JOEIOTTR	JOE IOT TRACK ADDR
64	(40)	BITSTRING	3	JOEDEVID	USER DEVICE IDENTIFICATION
Comment					
<p>-----</p> <p>Flag byte JOEFLAGT is used by various processors (HASPFSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both \$TO and \$R command processing.</p> <p>-----</p>					
End of Comment					
67	(43)	BITSTRING	1	JOEFLAGT	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in Pddb. See also JOEFLGT2.
67	(43)	BITSTRING	0	JOEFTMOD	"B'10000000" JOE overrides Pddb settings or network data set header settings
67	(43)	BITSTRING	0	JOEFTFMS	"B'01000000" FORMS CHANGED
67	(43)	BITSTRING	0	JOEFTFCB	"B'00100000" FCB CHANGED
67	(43)	BITSTRING	0	JOEFTUCS	"B'00010000" UCS CHANGED
67	(43)	BITSTRING	0	JOEFTWRT	"B'00001000" WRITER CHANGED
67	(43)	BITSTRING	0	JOEFTFLH	"B'00000100" FLASH CHANGED
67	(43)	BITSTRING	0	JOEFTBRT	"B'00000010" BURST CHANGED
67	(43)	BITSTRING	0	JOEFTPRM	"B'00000001" PRMODE CHANGED
68	(44)	SIGNED	4	JOEROUT (0)	REMOTE ID OF DATA
68	(44)	SIGNED	2	JOERNODE	NODE NUMBER
70	(46)	SIGNED	2	JOEREMOT	REMOTE NUMBER
70	(46)	X'46	0	JOERUNIT	"JOEREMOT" UNIT ADDRESS
72	(48)	CHARACTER	12	JOEID (0)	JOE IDENTIFICATION BLOCK
72	(48)	CHARACTER	8	JOENAME	JOE'S OUTPUT GROUP NAME
72	(48)	X'4F	0	JOESGNB1	"JOENAME+7" JOENAME SIGN NIBBLE FOR EBCDIC
80	(50)	SIGNED	2	JOEID1	JOE'S OUTPUT GROUP 1ST ID
82	(52)	SIGNED	2	JOEID2	JOE'S OUTPUT GROUP 2ND ID
84	(54)	SIGNED	4	JOECRTME	JOE CREATION TIME
88	(58)	CHARACTER	8	JOECRUID	Creator userid for Dataset
96	(60)	SIGNED	4	JOESWBOT	Starting track address of JOE SWBIT chain for SWBTU overrides
100	(64)	BITSTRING	1	JOEBUSY	JOE busy system id
101	(65)	SIGNED	3	JOEFAMILY	Mother/Daughter Family ID
104	(68)	SIGNED	4	JOE1END (0)	END OF WORK-JOE
104	(68)	X'68	0	JOEWSIZE	"*-JOE" Size of Work JOE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JOE fields used only in Characteristics JOEs					
End of Comment					
12	(C)	ADDRESS	4	JOEWKPTR (0)	
12	(C)	BITSTRING	1		RESERVED FOR FUTURE USE
13	(D)	ADDRESS	3	JOEWKPTB	OFFSET WORK-JOE WITH LIKE CHAR
Comment					
IF YOU ADD OR DELETE SETUP FIELDS, YOU MUST UPDATE THE EQUATES FOR THE \$D F COMMAND IN HASPCOMM					
End of Comment					
16	(10)	CHARACTER	8	JOEFORM	FORMS NAME
24	(18)	CHARACTER	4	JOEFCB	FCB NUMBER
28	(1C)	CHARACTER	4	JOEUCS	UCS NUMBER
32	(20)	CHARACTER	8	JOEWTRID	DATA SET EXTERNAL WRITER NAME
40	(28)	CHARACTER	8	JOEUSER	USER ID
48	(30)	CHARACTER	4	JOEFLASH	OVERLAY-FRAME
52	(34)	CHARACTER	8	JOEPRMD	PROCESS MODE OF THIS JOE
60	(3C)	CHARACTER	8	JOESECLB	Security label for Dataset
68	(44)	BITSTRING	1	JOEFLAGC	CHARACTERISTICS FLAGS
68	(44)	BITSTRING	0	JOEFCBRT	"B'10000000" BURST=YES FLAG
69	(45)	BITSTRING	1	JOEFLAGD	DEMAND CHARACTERISTIC FLAGS
69	(45)	BITSTRING	0	JOEFDMS	"B'10000000" FORMS DEMAND '0' NO '1' YES
69	(45)	BITSTRING	0	JOEFDLH	"B'01000000" FLASH DEMAND '0' NO '1' YES
69	(45)	BITSTRING	0	JOEFDFCB	"B'00100000" FCB DEMAND '0' NO '1' YES
69	(45)	BITSTRING	0	JOEFDUCS	"B'00010000" UCS DEMAND '0' NO '1' YES
69	(45)	BITSTRING	0	JOEFDVRT	"B'00001000" BURST DEMAND '0' NO '1' YES
69	(45)	X'10 00036'	0	JOESETUP	"JOEFORM,*-JOEFORM" DEVICE SETUP CHARACTERISTICS
70	(46)	BITSTRING	2		RESERVED FOR FUTURE USE
72	(48)	SIGNED	4	JOEUSE	# OF JOES USING THIS ELEMENT
76	(4C)	SIGNED	4	JOE2END (0)	END OF CHAR-JOE
76	(4C)	X'4C	0	JOECSIZE	**-"JOE" Size of Char JOE
104	(68)	X'68	0	JOESIZE	**-"JOE" LENGTH OF MAX JOE

\$JOE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JOEBUSY	64		JOEFDUCS	45	10
JOECHAR	14		JOEFLAGC	44	
JOECHARB	15		JOEFLAGD	45	
JOECHARJ	0	40	JOEFLAGT	43	
JOECHNXB	19		JOEFLAG1	C	
JOECHNXT	18		JOEFLAG2	10	
JOECPADR	28		JOEFLAG3	14	
JOECRTME	54		JOEFLAG4	1C	
JOECRUID	58		JOEFLAG5	8	
JOECSEND	C		JOEFLASH	30	
JOECSIZE	4C	4C	JOEFLGT2	1D	
JOECURCL	4		JOEFORM	10	
JOEDEVID	40		JOEFREE	0	C0
JOEFAMLY	65		JOEFSID	20	22 00002
JOEFCB	18		JOEFSID	20	
JOEFCBRT	44	80	JOEFSSID	20	20 00002
JOEFCBRT	45	8	JOEFTBRT	43	2
JOEFDLH	45	20	JOEFTFCB	43	20
JOEFDLH	45	40	JOEFTFLH	43	4
JOEFDMS	45	80	JOEFTFMS	43	40

\$JOE Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
JOEFTMOD	43	80		JOE2TCEL	10	80
JOEFTPRM	43	1		JOE2TUSE	1D	40
JOEFTUCS	43	10		JOE2UNSP	10	1
JOEFTWRT	43	8		JOE2UPRI	10	8
JOEHOLD	1E			JOE3CPER	14	80
JOEHSRSN	1F			JOE3IOTV	14	40
JOEID	48			JOE3NWTG	14	20
JOEID1	50			JOE3TODA	14	
JOEID2	52			JOE3TODH	14	
JOEIOTTR	3C			JOE3TODK	14	
JOEJNEWS	26			JOE3TODL	14	
JOEJQE	C			JOE3TODP	14	
JOEJQEB	D			JOE3TODW	14	
JOEJQNXB	11			JOE4DAUG	1C	20
JOEJQNXT	10			JOE4DSCT	1C	10
JOENAME	48			JOE4DSID	1C	4
JOENETCH	20	20	00004	JOE4JNEW	1C	80
JOENEWL	26	26	00002	JOE4NPSO	1C	2
JOENEXT	0			JOE4PRIO	1C	8
JOENEXTB	1			JOE4PRST	1C	1
JOEOFFSL	18			JOE4RES2	1C	40
JOEPGCT	30			JOE5RBLD	8	1
JOEPREV	4			JOE5ZAP	8	2
JOEPREVB	5					
JOEPRIO	24					
JOEPRMD	34					
JOERECCT	2C					
JOEREMOT	46					
JOERNODE	44					
JOEROUT	44					
JOERUNIT	46	46				
JOESECLB	3C					
JOESSETUP	45	10	00036			
JOESGNB1	48	4F				
JOESIZE	68	68				
JOESWBOT	60					
JOETPSOA	1D	10				
JOETPSOC	1D	20				
JOETPSOD	1D	8				
JOETYPE	0					
JOEUCS	1C					
JOEUSE	48					
JOEUSER	28					
JOEVRSN	0	7				
JOEWKPTB	D					
JOEWKPTR	C					
JOEWORK	0	80				
JOEWPAGN	38					
JOEWRECN	34					
JOEWSIZE	68	68				
JOEWTRID	20					
JOE1CJES	C	8				
JOE1CKV	C	80				
JOE1CPDS	C	4				
JOE1CTKN	C	2				
JOE1END	68					
JOE1PRT	C	20				
JOE1PUN	C	10				
JOE1SPIN	C	40				
JOE2CLNE	10	10				
JOE2DMND	10	40				
JOE2END	4C					
JOE2IPAD	10	4				
JOE2NUNK	10	2				
JOE2SYSN	10	20				

\$JOT Programming Interface information

Programming Interface information

\$JOT

End of Programming Interface information

\$JOT Heading Information

Common Name: Job Output Table
Macro ID: \$JOT
DSECT Name: JOT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JOT '
 Offset: JOTID-JOT
 Length: 4

Storage Attributes: Subpool: 0 for the JES2 main copy; 231 for the APPLCOPY copy; dataspace for the checkpoint version copy.
 Key: 1
 Residency: The JOT is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy. Virtual storage for the APPLCOPY copy is in ECSA.

Size: See JOESIZE.

Created by: JES2 Initialization allocates memory for the JOT.
 The APPLCOPY subtask creates the APPLCOPY instances.
 The checkpoint versions subtask creates the dataspace copies.

Pointed to by: \$JOTABLE field of the \$HCT data area
 KACJOTP field of the \$KAC data area

Serialization: The JES2 checkpoint (\$QSUSE) for change. The copy of the JOT in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since it could be changing, it may be page-released or it may be all zeros

Function: The JOT control block contains the headers to all the job output queues and contains all the Job Output Elements (JOEs). See \$JOE for more information on JOEs.

\$JOT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JOT	JOB OUTPUT TABLE DSECT
0	(0)	CHARACTER	4	JOTID	JOB OUTPUT TABLE ID
4	(4)	SIGNED	4	JOTFREC	COUNT OF FREE JOES
8	(8)	ADDRESS	2	JOTCLMU	CLASS MULTIPLIER
10	(A)	SIGNED	2		RESERVED FOR FUTURE USE
12	(C)	ADDRESS	4	JOTCLSEN	SIZE OF CLASS QUEUE ENTRY
16	(10)	ADDRESS	4	JOTUSER1	USER FIELD ONE
20	(14)	ADDRESS	4	JOTUSER2	USER FIELD TWO
24	(18)	ADDRESS	4	JOTUSER3	USER FIELD THREE
28	(1C)	ADDRESS	4	JOTUSER4	USER FIELD FOUR
32	(20)	ADDRESS	4	JOTQHEAD (0)	Beginning of JOE q heads
32	(20)	ADDRESS	4	JOTFREQ	OFFSET QUEUE OF FREE-JOES
36	(24)	ADDRESS	4	JOTCHRQ	OFFSET QUEUE OF CHAR-JOES
40	(28)	ADDRESS	4	JOTPURGQ	OFFSET QUEUE OF PURGE-JOES

Comment

 HOLD QUEUE - AVAILABLE FOR ANY OFFLOAD DEVICES

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	ADDRESS	4	JOTHOLDQ	OFFSET QUEUE OF HOLD-JOES
Comment					

READY QUEUE - AVAILABLE FOR ANY PROCESSOR THAT IS ELIGIBLE TO SELECT JOES					

End of Comment					
48	(30)	BITSTRING	0	JOTRDYWQ (0)	READY WORK JOE QUEUES
48	(30)	ADDRESS	4	JOTNTWKQ	OFFSET QUEUE OF NETWORK JOES
52	(34)	ADDRESS	4	JOTCLSQ (0)	OFFSET QUEUE OF CLASS WORK-JOES
52	(34)	ADDRESS	4	(0)	OFFSET QUEUE OF CLASS WORK-JOES BY LOCAL AND NON-LOCAL DEST (QUEUE HEADS)
52	(34)	X'6D '	0	JOTNUMWQ	"(1+3*36)" NUMBER OF READY WORK QUEUE
52	(34)	X'B0 '	0	JOTCLSSZ	"(*-JOTCLSQ)" SIZE OF CLASS QUEUE HEADS
52	(34)	X'4 '	0	JOTHEADL	"4" LENGTH OF A CLASS QUEUE HEAD
52	(34)	X'8 '	0	JOTPRHDL	"2*JOTHEADL" LENGTH OF PAIR OF CLASS Q HEADS
52	(34)	X' '	0	JOTLQOFF	"0" OFFSET OF LCL Q FROM CLS
52	(34)	X'4 '	0	JOTUQOFF	"JOTHEADL" OFFSET OF USER Q FROM CLS
52	(34)	X'8 '	0	JOTRQOFF	"2*JOTHEADL" OFFSET OF REM Q FROM CLASS
52	(34)	X'C '	0	JOTTHEDL	"3*JOTHEADL" TOTAL LENGTH OF CLS Q HDS
484	(1E4)	ADDRESS	4	JOTRBLDQ	JOE rebuild queue header
484	(1E4)	X'C8 '	0	JOTQUEL	**-"JOTQHEAD" Length of all JOE q headers
488	(1E8)	SIGNED	4	(2)	Reserved for future use

Comment

 Ensure JOT header size is exact multiple of JOE size.
 There cannot be anything between the next DC
 and JOTJOES.

End of Comment

496	(1F0)	BITSTRING	1	(0)	
496	(1F0)	SIGNED	4	JOTJOES (0)	START OF JOB OUTPUT ELEMENTS
496	(1F0)	X' '	0	JOTNET	"JOTNTWKQ-JOTRDYWQ" OFFSET TO NETWORK QUEUE
496	(1F0)	X'4 '	0	JOTCLAS	"JOTCLSQ-JOTRDYWQ" OFFSET TO CLASS QUEUE
496	(1F0)	X' '	0	JOTMXJOE	"((X'FFFFFF'-(JOTJOES-JOT))/JOESIZE)" Maximum number of JOEs that will accomodate 3-byte offsets

\$JOT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JOTCHRQ	24		JOTPRHDL	34	8
JOTCLAS	1F0	4	JOTPURGQ	28	
JOTCLMU	8		JOTQHEAD	20	
JOTCLSEN	C		JOTQUEL	1E4	C8
JOTCLSQ	34		JOTRBLDQ	1E4	
JOTCLSSZ	34	B0	JOTRDYWQ	30	
JOTFREC	4		JOTRQOFF	34	8
JOTFREQ	20		JOTTHEDL	34	C
JOTHEADL	34	4	JOTUQOFF	34	4
JOTHOLDQ	2C		JOTUSER1	10	
JOTID	0		JOTUSER2	14	
JOTJOES	1F0		JOTUSER3	18	
JOTLQOFF	34		JOTUSER4	1C	
JOTMXJOE	1F0				
JOTNET	1F0				
JOTNTWKQ	30				
JOTNUMWQ	34	6D			

\$JOT Cross Reference

\$JPAWORK Heading Information

Common Name: JES2 Job Priority Aging PCE Work Area
Macro ID: \$JPAWORK
DSECT Name: PCE (\$JPAWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
 Offset: PCEEYE-PCE
 Length: 4

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

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

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

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

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

\$JPAWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
0	(0)	BITSTRING	0	JPATQE	HASP Timer Queue Element
0	(0)	SIGNED	4		Reserved for future use
8	(8)	DBL WORD	8	(0)	Force double-word alignment
8	(8)	X' '	0	JPAPCEWS	**-PCEWORK" Length of work area

\$JPAWORK Map

\$JQE Programming Interface information

Programming Interface information

\$JQE

End of Programming Interface information

\$JQE Heading Information

Common Name: JES2 Job Queue Element
Macro ID: \$JQE
DSECT Name: JQE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of JQEs is preceded by an eyecatcher ****JQE POOL**** in the header for the pool.
Offset: HDPID-HDP
Length: 13

Storage Attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the APPLCOPY is in ECSA. Real storage is anywhere.

Size: JQEBLEN (base length) + 4*((SPOLNUM+31)/32) (size of the SPOOLS used mask which is dependent on the number of SPOOL volumes; 4 bytes for every 32 spool volumes)
\$JQELEN in the \$HCT data area is the total length.

Created by: Storage is obtained by HASPIRDA for the JES2 private version and by HASPCKVR for the data space and APPLCOPY versions. The control block is filled in by the \$QADD service.

Pointed to by: The following fields contain offsets to \$JQEs from the address in field \$JOBQPTR in the \$HCT data area:
\$JQFREE field of the \$HCT data area
\$JQHEADS field of the \$HCT data area
\$NEWSJQE field of the \$HCT data area
\$SCQJQE field of the \$HCT data area
IOTJQOFF field of the \$IOT data area
JCTJQE field of the \$JCT data area
JOEJQE field of the \$JOE data area
JQENEXTB field of the \$JQE data area
PITJQOFF field of the \$PIT data area
PSOJQEP field of the \$PSO data area
QSEPRGJQ field of the \$QSE data area
RATRMJQE field of the \$RAT data area
SBJJQOFF field of the \$SJB data area
TGBJQE field of the \$TGB data area

The following fields contain addresses of \$JQEs:
\$JOBQPTR field of the \$HCT data area
PCEJQE field of the \$PCE data area

Various fields in the processor work areas and parameter lists contain offsets or addresses of JQEs.

Serialization: The JES2 Checkpoint data set lock (\$QSUSE), the job lock (in the JQE), and JQE1BUSY bits are used for serialization.

Function: The job queue element is a control block that represents an element of work for the system (a job) and is moved from queue to queue as that work moves through each successive stage of JES2 processing.

The heads of the JES2 queues reside at \$JQHEADS in the HCT. These queue heads are used when locating JQEs on a specific queue.

The JQEs are checkpointed control blocks. There are, therefore, at least two copies of each JQE in storage (the actual and I/O copies of the ckpt, in subpool 0). There may also 1 or more copies in the ckpt versions dataspace, and perhaps an applcopy copy in subpool 0 private or subpool 231 CSA.

\$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JQE	HASP JOB QUEUE ENTRY DSECT
0	(0)	X'0'	0	JQA	"JQE,0,C'J" JQE is sometimes a JQA
0	(0)	X'7	0	JQEVRSN	"7" JQE control block version
0	(0)	X' '	0	JQE1	*** Begin of move block 1
0	(0)	SIGNED	1	JQEPRIO	JOB PRIORITY
1	(1)	BITSTRING	1	JQETYPE	LOGICAL QUEUE TYPE

Comment

IF THE \$XEQ BIT IS ON THEN THE JOB CAN BE IN OR AWAITING CONVERSION OR EXECUTION. THE JOB IS IN OR AWAITING CONVERSION IF THE \$XEQ BIT IS ON AND THERE IS NO JOB CLASS DEFINED IN THE LOW ORDER SIX BITS. THE JOB IS AWAITING XEQ IF THERE IS A JOB CLASS DEFINED AND THE JOB IS NOT BUSY. IF THE JOB IS BUSY AND A CLASS IS DEFINED THEN THE JOB IS BUSY IN EXECUTION.

If a new JQETYPE flag is added, then the \$QJQE macro and \$QINDEX must be updated for the queue type

End of Comment

1	(1)	BITSTRING	0	\$XEQCLAS	"X'7F'" CLASS OF JOB QUEUED FOR EXECUTION
1	(1)	BITSTRING	0	\$SPIN	"X'80'" SPIN QUEUE
1	(1)	BITSTRING	0	\$XEQ	"X'40'" OS EXECUTION QUEUE, LOW ORDER SIX BITS
					DEFINE WHICH JOB CLASS
1	(1)	BITSTRING	0	\$INPUT	"X'20'" INPUT QUEUE
1	(1)	BITSTRING	0	\$XMIT	"X'10'" TRANSMISSION QUEUE
1	(1)	BITSTRING	0	\$SETUP	"X'08'" SETUP QUEUE
1	(1)	BITSTRING	0	\$RECEIVE	"X'04'" SYSOUT RECEIVER QUEUE
1	(1)	BITSTRING	0	\$OUTPUT	"X'02'" OUTPUT QUEUE
1	(1)	BITSTRING	0	\$HARDCPY	"X'01'" OUTPUT IN-PROGRESS QUEUE
		....		\$PURGE	"X'00'" PURGE QUEUE
1	(1)	BITSTRING	0	\$FREE	"X'FF'" FREE QUEUE
1	(1)	X' '	0	\$XEQJOB1	"C'A'-(FF-\$XEQCLAS)" OFFSET TO FIRST \$QINDEX ENTRY FOR JOB XEQ CLASS QUEUES (JQETYPE)
		....		\$XEQSTC	"X'D0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR STC XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATSTCCL, CATSTCID)
		....		\$XEQTSU	"X'E0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR TSU XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATTSUCL, CATTSUID)
1	(1)	X' '	0	\$XEQJOBL	"C'9'-(FF-\$XEQCLAS)" Offset to Last \$QINDEX entry for job XEQ class queues (JQETYPE)
2	(2)	SIGNED	2	JQEJOBNO	HASP JOB NUMBER
4	(4)	ADDRESS	4	JQENEXT (0)	
4	(4)	BITSTRING	1	JQEFLAG1	JOB QUEUE FLAGS
4	(4)	BITSTRING	0	JQE1HLDA	"B'10000000" HOLD ALL JOBS

\$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	JQE1HLD1	"B'01000000" HOLD SINGLE JOB
4	(4)	BITSTRING	0	JQE1HLD2	"B'00100000" HOLD FOR DUPLICATE JOB NAME
4	(4)	BITSTRING	0	JQE1PURG	"B'00010000" JOB IS TO BE PURGED
4	(4)	BITSTRING	0	JQE1OCAN	"B'00001000" OPERATOR ISSUED \$C OR \$P JOB
4	(4)	BITSTRING	0	JQE1ARMR	"B'00000100" The Automatic Restart Manager has registered the job. Hold it (JQE1ARMH) when it ends execution.
4	(4)	BITSTRING	0	JQE1ARMH	"B'00000010" The job is held awaiting a restart decision by the Automatic Restart Manager
4	(4)	BITSTRING	0	JQE1ARME	"B'00000001" \$E the job if ARM does not restart it
4	(4)	X'4	0	JQEEB1	** -1" End of first move block
4	(4)	X'5	0	JQESB1	"JQE1HLD1,JQE1HLD2-JQE1HLD1+1,C'X" Size of 1st block
5	(5)	ADDRESS	3	JQENEXTB	OFFSET OF NEXT JQE
8	(8)	ADDRESS	4	JQEJOE (0)	
8	(8)	X'8	0	JQE1HLD2	*** Begin of 2nd move block
8	(8)	BITSTRING	1	JQEFLAG2	MORE JOB QUEUE FLAGS
8	(8)	BITSTRING	0	JQE2IND	"B'10000000" JOB HAS INDEPENDENT MODE AFFINITY
8	(8)	BITSTRING	0	JQE2REST	"B'01000000" JOB has been restarted
8	(8)	BITSTRING	0	JQE2STAR	"B'00100000" JOB to be started by \$S J
8	(8)	BITSTRING	0	JQE2ZAP	"B'00000010" JQE zapped (ZAPJOB)
8	(8)	BITSTRING	0	JQE2ART	"B'00000001" This is artificial JQE
8	(8)	X'8	0	JQE1HLD1	** -1" End of 2nd move block
8	(8)	X'8 00001'	0	JQESB2	"JQE1HLD1,JQE1HLD2-JQE1HLD1+1,C'X" Size of 2nd block
9	(9)	ADDRESS	3	JQEJOEB	OFFSET OF 1ST WORK-JOE
9	(9)	X'C	0	JQE1HLD2	*** Begin of 3rd move block
12	(C)	BITSTRING	1	JQEFLAG3	SOME MORE JOB QUEUE FLAGS
12	(C)	BITSTRING	0	JQE3JOB	"B'00000011" BATCH JOB TYPE (WHEN BITS ZERO)
12	(C)	BITSTRING	0	JQE3STC	"B'00000001" STC JOB TYPE
12	(C)	BITSTRING	0	JQE3TSU	"B'00000010" TSU JOB TYPE
12	(C)	BITSTRING	0	JQE3XMIT	"B'00000100" JOB DESTINED FOR ANOTHER NODE XMIT OR INTERMEDIATE NODE JOB
12	(C)	BITSTRING	0	JQE3TMOD	"B'00001000" JOB IS BEING PROCESSED BY \$TO OR \$R
12	(C)	BITSTRING	0	JQE3MVRQ	"B'10000000" MOVE JOB FOR SPOOL COMMANDS
12	(C)	BITSTRING	0	JQE3UNSP	"B'01000000" JOB HAS UNSPUN SPIN IOTS
12	(C)	BITSTRING	0	JQE3NDMP	"B'00100000" NON SELECTABLE BY DUMPER
12	(C)	BITSTRING	0	JQE3SYSD	"B'00010000" JQE REPRESENTS SYSTEM DATA SET, IMPLIES JQETRAK POINTS TO IOT
13	(D)	CHARACTER	1	JQEJCLAS	JOB CLASS
14	(E)	SIGNED	2	JQEINJNO	INITIAL JOB NUMBER
16	(10)	BITSTRING	4	JQEJBKEY	JOB IDENTIFER KEY
20	(14)	BITSTRING	4	JQETRAK	TRACK ADDRESS OF JCT OR IOT TRACK ADDRESS IF JQE3SYSD
24	(18)	SIGNED	2	JQEINPND	INPUT NODE (BINARY)
26	(1A)	SIGNED	2	JQEXEQND	EXECUTION NODE (BINARY)
28	(1C)	SIGNED	4	(0)	FORCE ALIGNMENT
28	(1C)	BITSTRING	1	JQEFLAG4	More job queue flags
28	(1C)	BITSTRING	0	JQE4CAN	"B'10000000" FORCE SELECT WHEN VOL INACTIVE
28	(1C)	BITSTRING	0	JQE4NEWS	"B'01000000" JOB IS JES2NEWS.
28	(1C)	BITSTRING	0	JQE4SPHA	"B'00100000" SPOF HOLD ALL JOBS REQUIRED AFTER AUTH CHECK IN CNVT PROCESSOR
28	(1C)	BITSTRING	0	JQE4SPOF	"B'00010000" JQE HELD BY SYSOUT RECEIVER OR JOB RECEIVER
28	(1C)	BITSTRING	0	JQE4MOLD	"B'00001000" OLD (ORIGINAL) JOB FOR SPL MOVE
28	(1C)	BITSTRING	0	JQE4MNEW	"B'00000100" NEWLY CREATED JOB FROM SPL MOVE
28	(1C)	BITSTRING	0	JQE4TWOJ	"B'00000010" TWO JOBCARDS FOR JOB XMIT
28	(1C)	BITSTRING	0	JQE4JCLH	"B'00000001" TYPRUN=JCLHOLD, HOLD REQUIRED AFTER AUTH CHK IN CNVT PROCESSOR
29	(1D)	ADDRESS	3	JQEDEVID	Device Identify (DCTDEVID)
32	(20)	SIGNED	2	JQENEWSU	For a JESNEWS job, the number of jobs currently using it. The starts at one when the JESNEWS job structure is created.
34	(22)	BITSTRING	1	JQEBUSY	JQE busy system id
35	(23)	BITSTRING	1	JQEJLOK	Job lock busy system id
36	(24)	CHARACTER	8	JQEJNAME	JOB NAME FROM JOB CARD
44	(2C)	CHARACTER	8	JQEUSRID	USERID OF JOB OWNER
52	(34)	CHARACTER	8	JQESECLB	SECURITY LABEL OF JOB

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	SIGNED	4	JQEJOEID	Current JOE id number (if JESNEWS then level of NEWS)
64	(40)	BITSTRING	1	JQEFLAG5	FLAG BYTE
64	(40)	BITSTRING	0	JQE5XUSD	"B'10000000" USING EXTENSION FOR TG COUNT
64	(40)	BITSTRING	0	JQE5NSL	"B'01000000" JOB REJECTED BY SELECTIVE LOAD
64	(40)	BITSTRING	0	JQE5NUNK	"B'00100000" Job tkn is NJE unknwn user
64	(40)	BITSTRING	0	JQE5NOTF	"B'00010000" NOTIFY PROCESSING COMPLETE
64	(40)	BITSTRING	0	JQE5EOM	"B'00001000" Job terminated at end of memory
64	(40)	BITSTRING	0	JQE5RUNS	"B'00000100" Job has new unspun work
64	(40)	BITSTRING	0	JQE5PUPS	"B'00000010" Job may have unprocessed spin output (Flag only valid before unspun processing starts)
65	(41)	BITSTRING	1	JQEOFFSL	OFFLOAD SELECT BYTE
66	(42)	SIGNED	2	JQETGNUM	NUMBER OF TRACK GROUPS CURRENTLY ALLOCATED TO THIS JOB OR OFFSET TO EXTENSION
68	(44)	BITSTRING	1	JQEFLAG6	FLAG BYTE

Comment

EQU B'10000000' Obsolete (JQE6DUPC in

End of Comment

0	(0)	BITSTRING	0	JQE6PRG	"B'01000000" Purge auditing required
0	(0)	BITSTRING	0	JQE6TGAE	"B'00100000" ALLOCATED MORE THAN 7FFF

Comment

B'00010000' This bit used in 5.1
(cannot use in 5.2)

End of Comment

0	(0)	BITSTRING	0	JQE6HOPR	"B'00001000" Reset NJE hop count when retransmitting job
0	(0)	BITSTRING	0	JQE6PRT	"B'00000100" Priority change by \$T
0	(0)	BITSTRING	0	JQE6PRAG	"B'00000010" Priority change by aging
0	(0)	BITSTRING	0	JQE6NCSA	"B'00000001" Job has no more CSA IOTs (only valid after job has completed execution)
69	(45)	BITSTRING	1	JQEFLAG7	FLAG BYTE
69	(45)	BITSTRING	0	JQE7PROT	"B'10000000" Job's output is protected
69	(45)	BITSTRING	0	JQE7TP	"B'01000000" Transaction initiator
69	(45)	BITSTRING	0	JQE7INIT	"B'00100000" Batch initiator
69	(45)	BITSTRING	0	JQE7IOTE	"B'00010000" IOT error
69	(45)	BITSTRING	0	JQE7SPIN	"B'00001000" Spin IOTs outstanding
69	(45)	BITSTRING	0	JQE7SPOT	"B'00000100" Spin output produced
69	(45)	BITSTRING	0	JQE7RJI	"B'00000010" Request job id indicator
69	(45)	BITSTRING	0	JQE7SYSL	"B'00000001" SYSLOG indicator
70	(46)	BITSTRING	1	JQEFLAG8	FLAG BYTE
70	(46)	BITSTRING	0	JQE8HLDS	"B'10000000" JOB HAS HELD 3540 DATA SET
70	(46)	BITSTRING	0	JQE8DUPL	"B'01000000" Job has been held at least once for duplicate job name
70	(46)	BITSTRING	0	JQE8CNWT	"B'00100000" Job must convert on a PCE that can wait for OS CNVT
70	(46)	BITSTRING	0	JQE8BOUT	"B'00010000" Use abnormal outdisp
70	(46)	BITSTRING	0	JQE8OPCD	"B'00001000" Job cancelled by oper with dump
70	(46)	BITSTRING	0	JQE8NJIX	"B'00000100" Job is not in JIX
70	(46)	BITSTRING	0	JQE8RBLD	"B'00000010" Job is on Rebuild Queue
70	(46)	BITSTRING	0	JQE8NOQ	"B'00000001" Job is not on a queue

Comment

The use of JQEFLAG9 should be reserved for use by the job command processor only.

End of Comment

71	(47)	BITSTRING	1	JQEFLAG9	FLAG BYTE - JCMD processor
71	(47)	BITSTRING	0	JQE9\$E	"B'10000000" Mark JQE for Restart
71	(47)	BITSTRING	0	JQE9\$C	"B'01000000" Cancel the JQE

\$JQE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
71	(47)	BITSTRING	0	JQE9\$CD	"B'01100000" Cancel JQE with dump
71	(47)	BITSTRING	0	JQE9\$CAR	"B'01010000" Cancel JQE with ARM restart
71	(47)	BITSTRING	0	JQE9\$S	"B'00001000" Restart the JQE now
71	(47)	BITSTRING	0	JQE9\$TSC	"B'00000100" Reset the service class
72	(48)	BITSTRING	1	JQEARMID	Member ID on which a job is registered by ARM
73	(49)	BITSTRING	1	JQEWSLOK	Warm start lock
74	(4A)	BITSTRING	2		Reserved for IBM use

Comment

The following default route fields should only be used for command/console authorization purposes. They initially match the JCT fields when a job is created, but are not complete in that only one of the userid valids is in the JQE. They are not used in any dataset destination resolution (the JCT fields are used), and apply (for compatibility) only to console operator job ownership.

End of Comment

76	(4C)	SIGNED	4	JQEDRPRT	Default print routing, initially same as JCTPROUT
80	(50)	CHARACTER	8	JQEDRPUR	Default print routing user for SDSF compatibility
88	(58)	SIGNED	4	JQEDRPUN	Default punch routing, initially same as JCTPUOUT
88	(58)	X'2'	0	JQEDRNO	"0,2,C'H" Offset of node in route
88	(58)	X'2 00002'	0	JQEDRRO	"2,2,C'H" Offset of rmt in route
92	(5C)	BITSTRING	0	JQESAF	Full system affinity mask
92	(5C)	SIGNED	4	(0)	INSURE FULL-WORD BOUNDARY
92	(5C)	X'5C '	0	JQEEB3	*** End of 3rd move block
92	(5C)	X'C 00001'	0	JQESB3	"JQE3B3,JQE3B3-JQE3B3,C'X" Size of 3rd block
92	(5C)	X'5C '	0	JQEBLEN	**_JQE" LENGTH OF BASE JOB QUEUE ENTRY
92	(5C)	SIGNED	4	JQESUMSK (0)	START OF SPOOLS-USED MASK, VARIABLE LEN (NUMBER OF BITS=SPOOLNUM), LEN IS MULTIPLE OF FOUR BYTES
92	(5C)	BITSTRING	1	JQASUMSK	Max spools used mask

Comment

The following fields appear only within an artificial JQE. Artificial JQEs are constructed using the \$DOGJQE service.

End of Comment

92	(5C)	SIGNED	4	JQX (0)	Beginning of JQX
92	(5C)	X'5C '	0	JQXBB1	*** Begin of 1st move block
92	(5C)	SIGNED	4	JQXRECCT	Pre-execution record count

Comment

 JQX maximum completion code information, by design, matches the mapping in the network job trailer. Consult NJE Formats and Protocols before adding a new type.

End of Comment

96	(60)	BITSTRING	4	JQXMAXRC (0)	--+ Maximum Job Return Code
96	(60)	BITSTRING	1	JQXMXIND	| Job completion indicator
96	(60)	BITSTRING	0	JQXMXAB	"X'80" | Abend code exists
96	(60)	BITSTRING	0	JQXMXCDE	"X'40" | Condition code exists
96	(60)	X' '	0	JQXMXUNK	"0" | No completion info
96	(60)	X'1 '	0	JQXMXNRM	"1" | Job ended normally +
96	(60)	X'2 '	0	JQXMXCC	"2" | Job ended by CC +
96	(60)	X'3 '	0	JQXMXJCL	"3" | Job had a JCL error
96	(60)	X'4 '	0	JQXMXCAN	"4" | Job was canceled

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
96	(60)	X'5 '	0	JQXMXABN	"5" | Job ABENDED +
96	(60)	X'6 '	0	JQXMXCAB	"6" | Converter ABENDED
96	(60)	X'7 '	0	JQXMXSEC	"7" | Security error
96	(60)	X'8 '	0	JQXMXEOM	"8" | Job failed in EOM +
97	(61)	BITSTRING	3	JQXMAXCC	--+ Completion code (set for '+' conditions)
100	(64)	BITSTRING	4	JQXBERTT	Token representing the BERTS for this JQE
104	(68)	BITSTRING	4	JQXCRTME	JQE creation time
104	(68)	X'6C '	0	JQXEB1	*** End of 1st move block
104	(68)	X'5C 00010'	0	JQXSB1	"JQXBB1,JQXEB1-JQXBB1,C'X'" Size of 1st block
108	(6C)	SIGNED	4	JQXWSNXT	Index of next JQE on WSC Q
112	(70)	SIGNED	4	JQXWSPRV	Index of prev JQE on WSC Q
112	(70)	X'74 '	0	JQXBB2	*** Begin of 2nd move block
116	(74)	CHARACTER	8	JQXJCLAS	Job class

Comment

 The JQX1WLM flag has special case code in \$DOGJQE. This flag should be modified using the real JQX. The other flags in JQXFLAG1 should be modified using the JQA.

End of Comment

124	(7C)	BITSTRING	1	JQXFLAG1	Flags
124	(7C)	BITSTRING	0	JQX1TSRV	"B'10000000" SRVCLASS has been \$Ted to a non-null value
124	(7C)	BITSTRING	0	JQX1WLM	"B'01000000" Job on WLM queue
124	(7C)	BITSTRING	0	JQX1CTKN	"B'00100000" Job has data set(s) for which DYNALLOC returned a client token
124	(7C)	BITSTRING	0	JQX1DFQ	"B'00010000" Job pending WLM requeue
125	(7D)	BITSTRING	3		Reserved
128	(80)	SIGNED	4	(6)	Reserved for future use
128	(80)	X'98 '	0	JQXEB2	*** End of 2nd move block
128	(80)	X'74 00024'	0	JQXSB2	"JQXBB2,JQXEB2-JQXBB2,C'X'" Size of 2nd block
128	(80)	X'3C '	0	JQXSIZE	** -JQX" Size of JQX
152	(98)	SIGNED	4	JQABERT (0)	Begin BERT resident data
152	(98)	BITSTRING	0	JQAACCT	Job accounting information
152	(98)	SIGNED	4	JQAXEQ (0)	Start of XEQ section of JQE
152	(98)	CHARACTER	3	JQAPERF	Performance group
155	(9B)	BITSTRING	1	JQAFLAG1	Flags
155	(9B)	BITSTRING	0	JQA1EHL D	"B'10000000" Job was held by the end user via TYPRUN=HOLD or SETUP
155	(9B)	BITSTRING	0	JQA1JCLH	"B'01000000" Job held for JCLHOLD
155	(9B)	BITSTRING	0	JQA1THLD	"B'00100000" Hold start time in JQATIMER
155	(9B)	BITSTRING	0	JQA1TSCH	"B'00010000" SCHENV start time in JQATIMER
155	(9B)	BITSTRING	0	JQA1DUPJ	"B'00001000" Possible duplicate jobname exists
155	(9B)	BITSTRING	0	JQA1NPUR	"B'00000100" JQE has been JES managed for part of its life
155	(9B)	BITSTRING	0	JQA1TBAD	"B'00000010" Hold/SCHENV timers should not be maintained
156	(9C)	BITSTRING	4	JQASTOK	Service class token
160	(A0)	CHARACTER	8	JQAWSCN	Service Class Queue Name
168	(A8)	SIGNED	4	JQARRIV	Time job arrived in XEQ Q
172	(AC)	SIGNED	4	JQAQTIME	Time job entered current execution queue
176	(B0)	BITSTRING	2	JQASID	ASID where executing
178	(B2)	BITSTRING	0	JQASCHAF	Affinity mask of systems where scheduling environ is available
178	(B2)	BITSTRING	1	JQASTARM	Member on which \$\$ J is to occur.
180	(B4)	SIGNED	4	JQARHLD	Duration when job held
184	(B8)	SIGNED	4	JQARRSC	Duration when SCHENV not available
188	(BC)	SIGNED	4	JQARTOC	Conversion time
192	(C0)	SIGNED	4	JQATIMER	STCK value when hold or SCHENV timer last started
196	(C4)	SIGNED	4	JQAUTIME	STCK value when JQARHLD last updated
200	(C8)	BITSTRING	1	JQAFLAG2	Flags
200	(C8)	BITSTRING	0	JQA2SCHE	"B'10000000" SCHENV is a default
200	(C8)	BITSTRING	0	JQA2SINV	"B'01000000" SCHENV (JQASCHE) no longer valid
200	(C8)	BITSTRING	0	JQA2TSCH	"B'00100000" SCHENV has been \$Ted to a non-null value
201	(C9)	BITSTRING	3		Reserved for future use

\$JQE Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
201	(C9)	X'34 '	0	JQAXEQL	** -JQAXEQ" Length of XEQ section
204	(CC)	SIGNED	4	JQAXBAT (0)	Start of batch execution section
204	(CC)	SIGNED	4	JQAXSRMT	SRM Token from classify
204	(CC)	X'4 '	0	JQAXBATL	** -JQAXBAT" Length of section
208	(D0)	CHARACTER	16	JQASCHE	Scheduling environment
208	(D0)	X'48 '	0	JQABERTL	** -JQABERT" Length of BERT data defined in this DSECT
208	(D0)	X'E0 '	0	JQABLEN	** -JQE" Length of JQE + extensions defined in this DSECT

\$JQE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value	
\$FREE	1	FF	JQEARMID	48		
\$HARDCPY	1	1	JQEBB1	0		
\$INPUT	1	20	JQEBB2	8	8	
\$OUTPUT	1	2	JQEBB3	9	C	
\$PURGE	1		JQEBLEN	5C	5C	
\$RECEIVE	1	4	JQEBUSY	22		
\$SETUP	1	8	JQEDEVID	1D		
\$SPIN	1	80	JQEDRNO	58	2	
\$XEQ	1	40	JQEDRPRT	4C		
\$XEQCLAS	1	7F	JQEDRPRU	50		
\$XEQJOBL	1		JQEDRPUN	58		
\$XEQJOB1	1		JQEDRRO	58	2	00002
\$XEQSTC	1		JQEEB1	4	4	
\$XEQTSU	1		JQEEB2	8	8	
\$XMIT	1	10	JQEEB3	5C	5C	
JQA	0	0	JQEFLAG1	4		
JQAACCT	98		JQEFLAG2	8		
JQABERT	98		JQEFLAG3	C		
JQABERTL	D0	48	JQEFLAG4	1C		
JQABLEN	D0	E0	JQEFLAG5	40		
JQAFLAG1	9B		JQEFLAG6	44		
JQAFLAG2	C8		JQEFLAG7	45		
JQAPERF	98		JQEFLAG8	46		
JQAQTIME	AC		JQEFLAG9	47		
JQARHLD	B4		JQEINJNO	E		
JQARRIV	A8		JQEINPND	18		
JQARRSC	B8		JQEBKEY	10		
JQARTOC	BC		JQEJCLAS	D		
JQASCHAF	B2		JQEJLOK	23		
JQASCHE	D0		JQEJNAME	24		
JQASID	B0		JQEJOBNO	2		
JQASTARM	B2		JQEJOE	8		
JQASTOK	9C		JQEJOEB	9		
JQASUMSK	5C		JQEJOEID	3C		
JQATIMER	C0		JQENEWSU	20		
JQAUTIME	C4		JQENEXT	4		
JQAWSCN	A0		JQENEXTB	5		
JQAXBAT	CC		JQEOFFSL	41		
JQAXBATL	CC	4	JQEPRIO	0		
JQAXEQ	98		JQESAF	5C		
JQAXEQL	C9	34	JQESB1	4	5	
JQAXSRMT	CC		JQESB2	8	8	00001
JQA1DUPJ	9B	8	JQESB3	5C	C	00001
JQA1EHLA	9B	80	JQESECLB	34		
JQA1JCLH	9B	40	JQESUMSK	5C		
JQA1NPUR	9B	4	JQETGNUM	42		
JQA1TBAD	9B	2	JQETRAK	14		
JQA1THLD	9B	20	JQETYPE	1		
JQA1TSCH	9B	10	JQEUSRID	2C		
JQA2SCHE	C8	80	JQEVRSN	0	7	
JQA2SINV	C8	40	JQEWSLOK	49		
JQA2TSCH	C8	20	JQEXEQND	1A		

\$JQE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value	
JQE1ARME	4	1	JQX	5C		
JQE1ARMH	4	2	JQXBB1	5C	5C	
JQE1ARMR	4	4	JQXBB2	70	74	
JQE1HLDA	4	80	JQXBERTT	64		
JQE1HLD1	4	40	JQXCRTME	68		
JQE1HLD2	4	20	JQXE1	68	6C	
JQE1OCAN	4	8	JQXE2	80	98	
JQE1PURG	4	10	JQXFLAG1	7C		
JQE2ART	8	1	JQXJCLAS	74		
JQE2IND	8	80	JQXMAXCC	61		
JQE2REST	8	40	JQXMAXRC	60		
JQE2STAR	8	20	JQXMXAB	60	80	
JQE2ZAP	8	2	JQXMXABN	60	5	
JQE3JOB	C	3	JQXMXCAB	60	6	
JQE3MVRQ	C	80	JQXMXCAN	60	4	
JQE3NDMP	C	20	JQXMXCC	60	2	
JQE3STC	C	1	JQXMXCDE	60	40	
JQE3SYSD	C	10	JQXMXEOM	60	8	
JQE3TMOD	C	8	JQXMXIND	60		
JQE3TSU	C	2	JQXMXJCL	60	3	
JQE3UNSP	C	40	JQXMXNRM	60	1	
JQE3XMIT	C	4	JQXMXSEC	60	7	
JQE4CAN	1C	80	JQXMXUNK	60		
JQE4JCLH	1C	1	JQXRECCT	5C		
JQE4MNEW	1C	4	JQXSB1	68	5C	00010
JQE4MOLD	1C	8	JQXSB2	80	74	00024
JQE4NEWS	1C	40	JQXSIZE	80	3C	
JQE4SPHA	1C	20	JQXWSNXT	6C		
JQE4SPOF	1C	10	JQXWSPRV	70		
JQE4TWOJ	1C	2	JQX1CTKN	7C	20	
JQE5EOM	40	8	JQX1DFQ	7C	10	
JQE5NOTF	40	10	JQX1TSRV	7C	80	
JQE5NSL	40	40	JQX1WLM	7C	40	
JQE5NUNK	40	20				
JQE5PUPS	40	2				
JQE5RUNS	40	4				
JQE5XUSD	40	80				
JQE6HOPR	0	8				
JQE6NCSA	0	1				
JQE6PRAG	0	2				
JQE6PRG	0	40				
JQE6PRT	0	4				
JQE6TGAE	0	20				
JQE7INIT	45	20				
JQE7IOTE	45	10				
JQE7PROT	45	80				
JQE7RJI	45	2				
JQE7SPIN	45	8				
JQE7SPOT	45	4				
JQE7SYSL	45	1				
JQE7TP	45	40				
JQE8BOUT	46	10				
JQE8CNWT	46	20				
JQE8DUPL	46	40				
JQE8HLDS	46	80				
JQE8NJIX	46	4				
JQE8NOQ	46	1				
JQE8OPCD	46	8				
JQE8RBLD	46	2				
JQE9\$C	47	40				
JQE9\$CAR	47	50				
JQE9\$CD	47	60				
JQE9\$E	47	80				
JQE9\$S	47	8				
JQE9\$TSC	47	4				

\$JQE Cross Reference

\$KAC Programming Interface information

Programming Interface information

\$KAC

End of Programming Interface information

\$KAC Heading Information

Common Name: Checkpoint Application Copy DSECT
Macro ID: \$KAC
DSECT Name: KAC
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: KAC
 Offset: KACIDENT
 Length: L'KACIDENT

Storage Attributes: Subpool: 241
 Key: 1
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See KACSIZE
Created by: Checkpoint versions subtask
Pointed to by: CCTKAC field of the HCCT data area
Serialization: Can only be modified by the Checkpoint Versions SUBTASK.

Function: The KAC describes the application copy of the checkpoint data set. It describes the status and location of the copy of the checkpoint data set.

\$KAC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	KAC	CHECKPOINT APPL COPY DSECT
0	(0)	CHARACTER	4	KACIDENT	KAC EYE CATCHER
4	(4)	SIGNED	1	KACVER	SET EQUAL TO KACVERN
4	(4)	X'3 '	0	KACVERN	"03" Current version number
5	(5)	BITSTRING	1	KACFLAG1	FLAG BYTE
5	(5)	BITSTRING	0	KAC1UIP	"B'10000000" INDICATE UPDATE IN PROGRESS
5	(5)	BITSTRING	0	KAC1BADC	"B'01000000" COPY OF CKPT IS BAD
5	(5)	BITSTRING	0	KAC1GONE	"B'00100000" COPY OF CKPT DOES NOT EXIST
5	(5)	BITSTRING	0	KAC1ECSA	"B'00010000" COPY OF CKPT IS IN ECSA
5	(5)	BITSTRING	0	KAC1EPVT	"B'00001000" COPY OF CKPT IS EXT PRIVATE
6	(6)	BITSTRING	1		RESERVED FOR FUTURE USE
7	(7)	SIGNED	1	KACSUBP	SUBPOOL OF COPY
8	(8)	SIGNED	4	KACCLEN	LENGTH OF COPY
16	(10)	DBL WORD	8	KACLEV	Ckpt level number
16	(10)	X'10 00008'	0	KACLEVP	"KACLEV,8,C'C" Define character version of field since PLX and the offset table don't handle doublewords well
24	(18)	SIGNED	4	KACKLE	LEVEL NUMBER OF THE COPY
28	(1C)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
40	(28)	DBL WORD	8	(0)	Alignment for KACTUP field
40	(28)	CHARACTER	8	KACTUP	TIME (STCK) OF LAST UPDATE TO THE APPLICATION COPY (MAINTAINED BY JES)
48	(30)	DBL WORD	8	(0)	Alignment for KACWTILL fld
48	(30)	CHARACTER	8	KACWTILL	TIME BEFORE WHICH JES WILL NOT UPDATE THE COPY (MAINTAINED BY APPL PGM)
56	(38)	ADDRESS	4	KACCKPTA	ADDRESS OF 3RD COPY OF CKPT
60	(3C)	ADDRESS	4	KACMSTRA	ADDRESS OF 3RD COPY OF MSTR REC
64	(40)	SIGNED	4	(2)	RESERVED FOR FUTURE USE
72	(48)	ADDRESS	4	KACJOBQP	ADDR OF JES2 JOB QUEUE ORIGIN
76	(4C)	ADDRESS	4	KACJOTP	ADDRESS OF JES2 JOT ORIGIN
80	(50)	ADDRESS	4	KACQSE1	ADDRESS OF FIRST JES2 QSE
84	(54)	ADDRESS	4	KACJNTP	Address of JNT
88	(58)	SIGNED	4	(2)	RESERVED FOR FUTURE USE
96	(60)	SIGNED	4	KACRESVA (20)	RESERVED FOR APPLICATION PGM'S
176	(B0)	SIGNED	4	KACRESVU (4)	RESERVED FOR USERS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
192	(C0)	SIGNED	4	KACEND (0)	END OF KAC
192	(C0)	X'C0	0	KACSIZE	"*-KAC" LENGTH OF CONTROL BLOCK

\$KAC Cross Reference

Name	Hex Offset	Hex Value
KACCKPTA	38	
KACCLEN	8	
KACEND	C0	
KACFLAG1	5	
KACIDENT	0	D2C1C340
KACJNTP	54	
KACJOBQP	48	
KACJOTP	4C	
KACKLE	18	
KACLEV	10	
KACLEVP	10	10 00008
KACMSTRA	3C	
KACQSE1	50	
KACRESVA	60	
KACRESVU	B0	
KACSIZE	C0	C0
KACSUBP	7	
KACTUP	28	
KACVER	4	
KACVERN	4	3
KACWTILL	30	
KAC1BADDC	5	40
KAC1ECSA	5	10
KAC1EPVT	5	8
KAC1GONE	5	20
KAC1UIP	5	80

\$KAC Cross Reference

\$KAWA Heading Information

Common Name: Checkpoint Allocation Work Area
Macro ID: \$KAWA
DSECT Name: KAW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: KAWA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 0
 Key: 1
 Residency: During Allocation, virtual and real storage are below 16M in the JES2 address space. During Unallocation, virtual and real storage are anywhere in the JES2 address space.
Size: See KAWALEN
Created by: JES2 Checkpoint Allocation and Unallocation
Pointed to by: N/A
Serialization: None required
Function: The KAWA is used to map out a work area obtained by CKPTALOC and CKPTUNAL. It is also returned to CKPTALOC's caller if the routine detects an error.

\$KAWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	KAW	CHECKPOINT ALOC WORK AREA
0	(0)	CHARACTER	4		EYE CATCHER
4	(4)	ADDRESS	1	KAWAVER	VERSION NUMBER
4	(4)	X'2 '	0	KAWAVERN	"2" VERSION EQUATE
5	(5)	BITSTRING	1	KAWFLAG1	FLAG BYTE
5	(5)	BITSTRING	0	KAW1ALOC	"B'10000000" ALLOCATE WAS DONE
5	(5)	BITSTRING	0	KAW1NEW	"B'01000000" ALLOCATE DISP=NEW WAS USED
5	(5)	BITSTRING	0	KAW1OPEN	"B'00100000" MVS OPEN WAS DONE
6	(6)	BITSTRING	1	KAWPARAM	PARAMETERS PASSED TO CKPTALOC
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4		Reserved for future IBM use
12	(C)	SIGNED	4	KAWALORT	RETURN CODE FROM MVS DYNALLOC
16	(10)	ADDRESS	4	KAWDCBA	ADDRESS OF THE NEW DCB
20	(14)	CHARACTER	8	KAWDDNAM	DDNAME FOR DATA SET
28	(1C)	ADDRESS	4	KAWTTOTA	ADDRESS OF THE TRACK ONE TABLE
32	(20)	ADDRESS	4	KAWCKG	ADDRESS OF THE CKG
36	(24)	ADDRESS	4	KAWUCB	Address of the UCB
40	(28)	ADDRESS	4	KAWUCBPX	Address of the UCB Prefix
44	(2C)	SIGNED	4	KAWBYTRK	Number of Bytes or Tracks needed for DS (HASP295-6)
48	(30)	SIGNED	4	KAWOBFCC	Error Code from OBTAIN
52	(34)	ADDRESS	4	KAWRBPTR	REQUEST BLOCK POINTER
56	(38)	BITSTRING	20	KAWRWB	DYNALLOC REQUEST BLOCK
76	(4C)	SIGNED	4	KAWTXTP1 (0)	TEXT POINTERS
76	(4C)	ADDRESS	4	KAWTXTP1	ADDRESS OF TEXT UNIT 1
80	(50)	ADDRESS	4	KAWTXTP2	ADDRESS OF TEXT UNIT 2
84	(54)	ADDRESS	4	KAWTXTP3	ADDRESS OF TEXT UNIT 3
88	(58)	ADDRESS	4	KAWTXTP4	ADDRESS OF TEXT UNIT 4
92	(5C)	ADDRESS	4	KAWTXTP5	ADDRESS OF TEXT UNIT 5
96	(60)	ADDRESS	4	KAWTXTP6	ADDRESS OF TEXT UNIT 6
100	(64)	ADDRESS	4	KAWTXTP7	ADDRESS OF TEXT UNIT 7
104	(68)	ADDRESS	4	KAWTXTP8	ADDRESS OF TEXT UNIT 8
108	(6C)	ADDRESS	4	KAWTXTP9	ADDRESS OF TEXT UNIT 9
112	(70)	SIGNED	4	KAWTXT (0)	TEXT UNITS

\$KAWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
112	(70)	BITSTRING	6	KAWTXT1	TEXT UNIT 1
118	(76)	BITSTRING	8	KAWTXT1D	TEXT UNIT 1 PARM
126	(7E)	BITSTRING	6	KAWTXT2	TEXT UNIT 2
132	(84)	BITSTRING	8	KAWTXT2D	TEXT UNIT 2 PARM
140	(8C)	BITSTRING	6	KAWTXT3	TEXT UNIT 3
146	(92)	BITSTRING	8	KAWTXT3D	TEXT UNIT 3 PARM
154	(9A)	BITSTRING	6	KAWTXT4	TEXT UNIT 4
160	(A0)	BITSTRING	8	KAWTXT4D	TEXT UNIT 4 PARM
168	(A8)	BITSTRING	6	KAWTXT5	TEXT UNIT 5
174	(AE)	BITSTRING	8	KAWTXT5D	TEXT UNIT 5 PARM
182	(B6)	BITSTRING	6	KAWTXT6	TEXT UNIT 6
188	(BC)	CHARACTER	44	KAWDSN (0)	DATASET NAME
188	(BC)	BITSTRING	44	KAWTXT6D	TEXT UNIT 6 PARM
232	(E8)	BITSTRING	6	KAWTXT7	TEXT UNIT 7
238	(EE)	BITSTRING	8	KAWTXT7D	TEXT UNIT 7 PARM
246	(F6)	BITSTRING	6	KAWTXT8	TEXT UNIT 8
252	(FC)	BITSTRING	8	KAWTXT8D	TEXT UNIT 8 PARM
260	(104)	BITSTRING	6	KAWTXT9	TEXT UNIT 9
266	(10A)	BITSTRING	8	KAWTXT9D	TEXT UNIT 9 PARM
276	(114)	SIGNED	4	KAWCMLST (4)	CAMLIST FOR OBTAIN
296	(128)	DBL WORD	8	(0)	DOUBLE WORD FOR DSCB
296	(128)	BITSTRING	148	KAWDSCB	DSCB FROM OBTAIN
296	(128)	X'28 0000'	0	KAWTRKCL	"KAWDSCB,12" TRKCALC WORK AREA
296	(128)	X'0'	0	KAWPURGE	"KAWDSCB,PPLLEN" PURGE PARAMETER LIST
444	(1BC)	CHARACTER	1	KAWDVA	DEVTYPE WORK AREA

Comment

----- IOSCAPU MF=(L,KAWCAPU) IOSCAPU PARM LIST
 MACDATE -02/18/00-<1>

End of Comment

0	(0)	X'C0	0	M00M0002	"KAWCAPU" ++ IOSCAPU NAME
448	(1C0)	DBL WORD	8	KAWCAPU (0)	++ IOSCAPU PARM LIST
448	(1C0)	BITSTRING	1	KAWCAPU_XVERSION	++ INPUT XVERSION
449	(1C1)	BITSTRING	1	KAWCAPU_XFLAGS1	++ FIELD_LABEL
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_CAPTUCB	"B'10000000" ++ KEYUSED.CAPTUCB KEYWORD
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_UCAPTUCB	"B'01000000" ++ KEYUSED.UCAPTUCB KEYWORD
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_CAPTOACT	"B'00100000" ++ KEYUSED.CAPTOACT KEYWORD
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_ASID	"B'00010000" ++ KEYUSED.ASID KEYWORD
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_UCBPTR	"B'00001000" ++ KEYUSED.UCBPTR KEYWORD
449	(1C1)	BITSTRING	0	KAWCAPU_KEYUSED_CAPTPTR	"B'00000100" ++ KEYUSED.CAPTPTR KEYWORD
450	(1C2)	CHARACTER	2	KAWCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
452	(1C4)	ADDRESS	4	KAWCAPU_XUCBPTR	++ XUCBPTR
456	(1C8)	ADDRESS	4	KAWCAPU_XCAPTPTR	++ XCAPTPTR
460	(1CC)	CHARACTER	1	KAWCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
461	(1CD)	BITSTRING	1	KAWCAPU_XMASK	++ FIELD_LABEL
461	(1CD)	BITSTRING	0	KAWCAPU_XMSIFREE_YES	"B'10000000" ++ XMSIFREE.YES KEYWORD
461	(1CD)	BITSTRING	0	KAWCAPU_XLASTING_YES	"B'01000000" ++ XLASTING.YES KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
461	(1CD)	BITSTRING	0	KAWCAPU_XCAPTCOM_YES	"B'00100000" ++ XCAPTCOM.YES KEYWORD
462	(1CE)	BITSTRING	2	KAWCAPU_XASID	++ XASID
464	(1D0)	CHARACTER	16	KAWCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
464	(1D0)	X'20	0	KAWCAPUL	**KAWCAPU" ++ LENGTH OF PLIST
Comment					
IOSCAPU-1					
End of Comment					
0	(0)	X'E0	0	KAWALEN	**KAW" LENGTH OF THE KAWA

\$KAWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
KAWALEN	0	E0	KAWDCBA	10	
KAWALORT	C		KAWDDNAM	14	
KAWAVER	4		KAWDSCB	128	
KAWAVERN	4	2	KAWDSN	BC	
KAWBYTRK	2C		KAWDVA	1BC	
KAWCAPU	1C0		KAWFLAG1	5	
KAWCAPU_KEYUSED_ASID	1C1	10	KAWOBFCC	30	
KAWCAPU_KEYUSED_CAPTOACT	1C1	20	KAWPARM	6	
KAWCAPU_KEYUSED_CAPTPTR	1C1	4	KAWPURGE	128	0
KAWCAPU_KEYUSED_CAPTUCB	1C1	80	KAWRB	38	
KAWCAPU_KEYUSED_UCAPTUCB	1C1	40	KAWRBPTR	34	
KAWCAPU_KEYUSED_UCBPTR	1C1	8	KAWTOTA	1C	
KAWCAPU_XASID	1CE		KAWTRKCL	128	28 0000C
KAWCAPU_XCAPTCOM_YES	1CD	20	KAWTXT	70	
KAWCAPU_XCAPTPTR	1C8		KAWTXTPT	4C	
KAWCAPU_XFLAGS1	1C1		KAWTXTP1	4C	
KAWCAPU_XLASTING_YES	1CD	40	KAWTXTP2	50	
KAWCAPU_XMASK	1CD		KAWTXTP3	54	
KAWCAPU_XMSIFREE_YES	1CD	80	KAWTXTP4	58	
KAWCAPU_XRESERVED1	1C2		KAWTXTP5	5C	
KAWCAPU_XRESERVED2	1CC		KAWTXTP6	60	
KAWCAPU_XRESERVED3	1D0		KAWTXTP7	64	
KAWCAPU_XUCBPTR	1C4		KAWTXTP8	68	
KAWCAPU_XVERSION	1C0		KAWTXTP9	6C	
KAWCAPUL	1D0	20	KAWTXT1	70	
KAWCKG	20		KAWTXT1D	76	
KAWCMLST	114		KAWTXT2	7E	
			KAWTXT2D	84	
			KAWTXT3	8C	
			KAWTXT3D	92	
			KAWTXT4	9A	
			KAWTXT4D	A0	
			KAWTXT5	A8	
			KAWTXT5D	AE	
			KAWTXT6	B6	
			KAWTXT6D	BC	
			KAWTXT7	E8	
			KAWTXT7D	EE	
			KAWTXT8	F6	
			KAWTXT8D	FC	
			KAWTXT9	104	
			KAWTXT9D	10A	
			KAWUCB	24	
			KAWUCBPX	28	
			KAW1ALOC	5	80

\$KAWA Cross Reference

Name	Hex Offset	Hex Value
KAW1NEW	5	40
KAW1OPEN	5	20
M00M0002	0	C0

\$LMT Heading Information

Common Name: Load Module Table
Macro ID: \$LMT
DSECT Name: LMT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'LMT '
 Offset: LMT-\$CSBPRFX+\$CSBID
 Length: 4

Storage Attributes: Subpool: 0 (private chain), 241 (CSA chain)
 Key: 1
 Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M). There are two chains of LMTs. One is in the private storage of the JES2 address space, the other is in CSA.

Size: LMTLEN plus standard CSA prefix (CSBPRFX equate in the \$HASPEQU data area) per entry, whether PVT or CSA

Created by: \$MODLOAD

Pointed to by: Private LMT chain pointers:
 \$LMT1 field of the HCT data area -
 Points to head of chain, which connects also to the CSA chain. This is the only anchor that should be used by LMT search routines.
 \$LMTPBOT field of the HCT data area -
 Points to the last private entry, for internal use by \$MODLOAD only

 Common LMT chain pointers:
 CCTLMT1 field of the HCCT data area -
 Points to head of CSA chain (middle of composite private/CSA chain).
 \$LMTC field of the HCT data area -
 An HCT copy of the CCTLMT1 value, for internal use by \$MODLOAD only.

 LMTCHAIN field of the \$LMT data area

Serialization: Entries cannot be removed from the chains once added, and should be added in a way that allows multi-tasking references.

Function: The LMT contains an entry for each JES2 module loaded via \$MODLOAD. \$MODLOAD adds the entries. \$MODELET invalidates an entry.

There are two LMT chains. One is chained from the HCCT for entries for those modules loaded into common storage. The other has entries for those loaded into private storage and is chained from the HCT. On abnormal termination the common LMTs are not freed. On a hot start the common LMTs are still valid, so only the private LMTs are rebuilt from new LOADMOD initialization parameters.

\$LMT Map

The LMT chains are built with dynamic storage for each \$MODLOAD call. At any given time the last element in the private LMT chain points to the first in the CSA chain, thereby allowing a single LMT chain loop to access all LMT entries (starting from the HCT anchor).

\$LMT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMT	HASP LOAD MODULE TABLE DSECT
Comment					

The following fields are used by internal tools. Do not change the offsets of these fields.					

End of Comment					
0	(0)	CHARACTER	8	LMTMODNM	LOAD MODULE NAME
8	(8)	ADDRESS	4	LMTMITAD	POINTER TO MIT
12	(C)	SIGNED	4	LMTESIZE (0)	Module subpool and length
12	(C)	BITSTRING	1	LMTSUBPL	Subpool, only if direct ld
13	(D)	ADDRESS	3	LMTMODLN	Module length in all cases
16	(10)	ADDRESS	4	LMTBASEA	ALT. MODULE BASE FOR REP FACIL.
20	(14)	BITSTRING	1	LMTFLG1	FLAG FOR LMT ENTRY
20	(14)	BITSTRING	0	LMT1DIRL	"B'10000000" MODULE DIRECTLY LOADED
20	(14)	BITSTRING	0	LMT1CMN	"B'01000000" MODULE LOADED INTO COMMON STOR
20	(14)	BITSTRING	0	LMT1PVT	"B'00100000" MODULE LOADED INTO PRIVATE
20	(14)	BITSTRING	0	LMT1INVD	"B'00010000" INVALID LMT ENTRY
20	(14)	BITSTRING	0	LMT1LOAD	"B'00001000" LOADED VIA LOADMOD PARM STMT
20	(14)	BITSTRING	0	LMT1IBM	"B'00000100" THIS IS AN IBM LOAD MODULE
20	(14)	BITSTRING	0	LMT1BSPL	"B'00000010" Bypass SPLEVEL check
21	(15)	BITSTRING	1	LMTFLG2	FLAG 2 FOR LMT ENTRY
21	(15)	BITSTRING	0	LMT2CMNR	"B'10000000" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN COMMON STOR
21	(15)	BITSTRING	0	LMT2PVTR	"B'01000000" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN PRIVATE STOR
21	(15)	BITSTRING	0	LMT2LPAR	"B'00100000" REQUEST FROM LOADMOD STATEMENT TO USE LPA COPY OF MODULE
21	(15)	BITSTRING	0	LMT2RM24	"B'00010000" Load module was loaded below the line
21	(15)	BITSTRING	0	LMT2RM31	"B'00001000" Load module was loaded above the line
22	(16)	BITSTRING	2		RESERVED FOR FUTURE USE
24	(18)	ADDRESS	4	LMTCHAIN	CHAIN POINTER TO NEXT LMT
Comment					

End of fields used by internal tools.					

End of Comment					
28	(1C)	ADDRESS	4		RESERVED FOR FUTURE USE
32	(20)	SIGNED	4	(0)	ASSURE LMTLEN WORD MULTIPLE
32	(20)	X'20	0	LMTLEN	"*-LMT" LENGTH
32	(20)	X'1	0	LMTVERSN	"1" VERSION NUMBER OF LMT

\$LMT Cross Reference

Name	Hex Offset	Hex Value
LMTBASEA	10	
LMTCHAIN	18	
LMTESIZE	C	
LMTFLG1	14	
LMTFLG2	15	
LMTLEN	20	20
LMTMITAD	8	
LMTMODLN	D	
LMTMODNM	0	
LMTSUBPL	C	
LMTVERSN	20	1
LMT1BSPL	14	2
LMT1CMN	14	40
LMT1DIRL	14	80
LMT1IBM	14	4
LMT1INVD	14	10
LMT1LOAD	14	8
LMT1PVT	14	20
LMT2CMNR	15	80
LMT2LPAR	15	20
LMT2PVTR	15	40
LMT2RM24	15	10
LMT2RM31	15	8

\$LMT Cross Reference

\$MCT Programming Interface information

Programming Interface information

\$MCT

ONLY the following fields are part of the programming interface information:

- | | | | |
|------------|------------|------------|------------|
| • MCTAPLTU | • MCTJSPTU | • MCTOPYTU | • MCTRPUTU |
| • MCTBADTU | • MCTJWWTU | • MCTOSMTU | • MCTRRDTU |
| • MCTBFHTU | • MCTKPNTU | • MCTOSRTU | • MCTSAWTU |
| • MCTBFXTU | • MCTLINTU | • MCTOSTTU | • MCTSBDTU |
| • MCTBRRTU | • MCTLJRTU | • MCTOTPTU | • MCTSCCTU |
| • MCTBSCTU | • MCTLJTTU | • MCTOUTTU | • MCTSEPTU |
| • MCTBUFTU | • MCTLJWTU | • MCTPARTU | • MCTSMFTU |
| • MCTCATTU | • MCTLNETU | • MCTPCCTU | • MCTSNATU |
| • MCTCKLTU | • MCTLODTU | • MCTPCDTU | • MCTSPDTU |
| • MCTCKTTU | • MCTLOGTU | • MCTPCETU | • MCTSPLTU |
| • MCTCNDTU | • MCTLOTTU | • MCTPCNTU | • MCTSRWTU |
| • MCTCOMTU | • MCTLSRTU | • MCTPCRTU | • MCTSSITU |
| • MCTCONTU | • MCTLSTTU | • MCTPITTU | • MCTSTATU |
| • MCTDCTTU | • MCTLSWTU | • MCTPRTTU | • MCTSTCTU |
| • MCTDESTU | • MCTMASTU | • MCTPRWTU | • MCTSTWTU |
| • MCTDSTTU | • MCTMEMTU | • MCTPTDTU | • MCTSTYTU |
| • MCTDTETU | • MCTMGTU | • MCTPHTU | • MCTSUBTU |
| • MCTEBYTU | • MCTMODTU | • MCTPUDTU | • MCTTGLTU |
| • MCTEKNTU | • MCTMPSTU | • MCTPUNTU | • MCTTGSTU |
| • MCTELCTU | • MCTNAUTU | • MCTPUWTU | • MCTTIDTU |
| • MCTEPGTU | • MCTNDPTU | • MCTRAUTU | • MCTTLGTU |
| • MCTEPNTU | • MCTNETTU | • MCTRCNTU | • MCTTPDTU |
| • MCTERRTU | • MCTNJETU | • MCTRCVTU | • MCTTRCTU |
| • MCTETMTU | • MCTNODTU | • MCTRDITU | • MCTTRITU |
| • MCTFSSTU | • MCTOFFTU | • MCTRDRTU | • MCTTSUTU |
| • MCTHDRTU | • MCTOFLTU | • MCTRDTTU | • MCTVIATU |
| • MCTINRTU | • MCTOJMTU | • MCTRDVTU | • MCTVKPTU |
| • MCTJOBTU | • MCTOJRTU | • MCTREDTU | • MCTVLTTU |
| • MCTJPYTU | • MCTOJTTU | • MCTRMTTU | • MCTVUNTU |
| • MCTJQETU | • MCTOPDTU | • MCTRPRTU | • MCTXITTU |
| • MCTJRWTU | • MCTOPTTU | | |

End of Programming Interface information

\$MCT Heading Information

Common Name: HASP Master Control Table
Macro ID: \$MCT
DSECT Name: MCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: Part of the HASJES20 load module
 Key: 1
 Residency: Part of the HASJES20 load module in the JES2 address space.
Size: See field MCTLEN
Created by: Load of module HASJES20.
Pointed to by: \$MCT field of the \$HCT data area
Serialization: None required.
Function: The master control table contains pointers to table pairs within JES2.

The naming convention for tables and table pairs is as follows:

Select a unique three character id for the entity (for example ZZZ).

The MCT fields are:

MCTZZZTP - Label for the table pair

MCTZZZTU - Label for the USER table

MCTZZZTH - Label for the JES2 (HASP) table

MCTZZZTD - Label for dynamic table list

The VCONS (and weak externals for user tables) are:

USERZZZT - Label for the USER table and WXTRN

HASPZZZT - Label for the JES2 (HASP) table

User table addresses can be placed in the \$MCT either by an exit routine storing the address into field MCTZZZTU or by the user table being named USERZZZT and being link-edited with the HASJES20 load module.

Dynamic tables can be placed in the \$MCT via the \$PUTABLE service, which is called automatically when a load module containing dynamic tables is processed by the JES2 LOAD initialization statement.

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MCT	HASP MASTER CONSOLE TABLE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
\$GETABLE TABLE-PAIRS, AND ASSOCIATED TABLE ACCESS ROUTINES.					
End of Comment					
0	(0)	ADDRESS	4	MCTPCETP (0)	\$PCETAB table pair
0	(0)	ADDRESS	4	MCTPCETU	"V(USERPCET)" User table
4	(4)	ADDRESS	4	MCTPCETH	"V(HASPPCET)" HASP table
8	(8)	ADDRESS	4	MCTPCETD	Dynamic table array
12	(C)	ADDRESS	4	MCTDCTTP (0)	\$DCTTAB table pair
12	(C)	ADDRESS	4	MCTDCTTU	"V(USERDCTT)" User table
16	(10)	ADDRESS	4	MCTDCTTH	"V(HASPDCTT)" HASP table
20	(14)	ADDRESS	4	MCTDCTTD	Dynamic table array
24	(18)	ADDRESS	4	MCTDTETP (0)	\$DTETAB table pair
24	(18)	ADDRESS	4	MCTDTETU	"V(USERDTET)" User table
28	(1C)	ADDRESS	4	MCTDTETH	"V(HASPDTE)" HASP table
32	(20)	ADDRESS	4	MCTDTETD	Dynamic table array
36	(24)	ADDRESS	4	MCTRDTP (0)	\$RDRTAB table pair
36	(24)	ADDRESS	4	MCTRDTTU	"V(USERRDTT)" User table
40	(28)	ADDRESS	4	MCTRDTH	"V(HASPRDTT)" HASP table
44	(2C)	ADDRESS	4	MCTRDTTD	Dynamic table array
48	(30)	ADDRESS	4	MCTTIDTP (0)	\$TIDTAB table pair
48	(30)	ADDRESS	4	MCTTIDTU	"V(USERTIDT)" User table
52	(34)	ADDRESS	4	MCTTIDTH	"V(HASPTIDT)" HASP table
56	(38)	ADDRESS	4	MCTTIDTD	Dynamic table array
60	(3C)	ADDRESS	4	MCTPCRTP (0)	\$PCTAB table pair
60	(3C)	ADDRESS	4	MCTPCRTU	"V(USERPCRT)" User table
64	(40)	ADDRESS	4	MCTPCRTH	"V(HASPPCRT)" HASP table
68	(44)	ADDRESS	4	MCTPCRTD	Dynamic table array
72	(48)	ADDRESS	4	MCTBRTP (0)	\$BERTTAB table pair
72	(48)	ADDRESS	4	MCTBRTTU	"V(USERBRTT)" User table
76	(4C)	ADDRESS	4	MCTBRTH	"V(HASPBRTT)" HASP table
80	(50)	ADDRESS	4	MCTBRTTD	Dynamic table array
Comment					
\$SCAN FACILITY PRIMARY HASP/USER TABLE PAIRS - TABLE PAIRS FOR THE INITIALIZATION OPTIONS AND FOR PARAMETERS STMTS.					
End of Comment					
84	(54)	ADDRESS	4	MCTOPTTP (0)	HASP OPTIONS \$SCAN TABLE
84	(54)	ADDRESS	4	MCTOPTTU	"V(USEROPTT)" User table
88	(58)	ADDRESS	4	MCTOPTTH	"V(HASPOPTT)" HASP table
92	(5C)	ADDRESS	4	MCTOPTTD	Dynamic table array
96	(60)	ADDRESS	4	MCTMPSTP (0)	HASP MAIN-PARM-STMT TABLE
96	(60)	ADDRESS	4	MCTMPSTU	"V(USERMPST)" User table
100	(64)	ADDRESS	4	MCTMPSTH	"V(HASMPST)" HASP table
104	(68)	ADDRESS	4	MCTMPSTD	Dynamic table array
108	(6C)	ADDRESS	4	MCTMGTP (0)	HASP MSG-GEN TABLE PAIR
108	(6C)	ADDRESS	4	MCTMGTU	"V(USERMGST)" User table
112	(70)	ADDRESS	4	MCTMGTH	"V(HASPMGST)" HASP table
116	(74)	ADDRESS	4	MCTMGTD	Dynamic table array
Comment					
\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF DEVICE RELATED PARAMETER STATEMENTS.					
End of Comment					
120	(78)	ADDRESS	4	MCTINRTP (0)	INTRDR PARM-STMT SUBSCAN
120	(78)	ADDRESS	4	MCTINRTU	"V(USERINRT)" User table
124	(7C)	ADDRESS	4	MCTINRTH	"V(HASPINRT)" HASP table
128	(80)	ADDRESS	4	MCTINRTD	Dynamic table array

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
132	(84)	ADDRESS	4	MCTLNETP (0)	LINENNNN PARM-STMT SUBSCAN
132	(84)	ADDRESS	4	MCTLNETU	"V(USERLNET)" User table
136	(88)	ADDRESS	4	MCTLNETH	"V(HASPLNET)" HASP table
140	(8C)	ADDRESS	4	MCTLNETD	Dynamic table array
144	(90)	ADDRESS	4	MCTLINTP (0)	Ln.DVn PARM-STMT SUBSCAN
144	(90)	ADDRESS	4	MCTLINTU	"V(USERLINT)" User table
148	(94)	ADDRESS	4	MCTLINTH	"V(HASPLINT)" HASP table
152	(98)	ADDRESS	4	MCTLINTD	Dynamic table array
156	(9C)	ADDRESS	4	MCTLJRTP (0)	Ln.JR PARM-STMT SUBSCAN
156	(9C)	ADDRESS	4	MCTLJRTU	"V(USERLJRT)" User table
160	(A0)	ADDRESS	4	MCTLJRTH	"V(HASPLJRT)" HASP table
164	(A4)	ADDRESS	4	MCTLJRTH	Dynamic table array
168	(A8)	ADDRESS	4	MCTLJTTP (0)	Ln.JT PARM-STMT SUBSCAN
168	(A8)	ADDRESS	4	MCTLJTU	"V(USERLJTT)" User table
172	(AC)	ADDRESS	4	MCTLJTTH	"V(HASPLJTT)" HASP table
176	(B0)	ADDRESS	4	MCTLJTDD	Dynamic table array
180	(B4)	ADDRESS	4	MCTLSRTP (0)	Ln.SR PARM-STMT SUBSCAN
180	(B4)	ADDRESS	4	MCTLSRTU	"V(USERLSRT)" User table
184	(B8)	ADDRESS	4	MCTLSRTH	"V(HASPLSRT)" HASP table
188	(BC)	ADDRESS	4	MCTLSRTD	Dynamic table array
192	(C0)	ADDRESS	4	MCTLSTTP (0)	Ln.ST PARM-STMT SUBSCAN
192	(C0)	ADDRESS	4	MCTLSTTU	"V(USERLSTT)" User table
196	(C4)	ADDRESS	4	MCTLSTTH	"V(HASPLSTT)" HASP table
200	(C8)	ADDRESS	4	MCTLSTDD	Dynamic table array
204	(CC)	ADDRESS	4	MCTLOGTP (0)	LOGONN PARM-STMT SUBSCAN
204	(CC)	ADDRESS	4	MCTLOGTU	"V(USERLOGT)" User table
208	(D0)	ADDRESS	4	MCTLOGTH	"V(HASPLOGT)" HASP table
212	(D4)	ADDRESS	4	MCTLOGTD	Dynamic table array
216	(D8)	ADDRESS	4	MCTOFLTP (0)	OFFLOADN PARM-STMT SUBSCAN PAIR
216	(D8)	ADDRESS	4	MCTOFLTU	"V(USEROFLT)" User table
220	(DC)	ADDRESS	4	MCTOFLTH	"V(HASPOFLT)" HASP table
224	(E0)	ADDRESS	4	MCTOFLTD	Dynamic table array
228	(E4)	ADDRESS	4	MCTOFFTP (0)	OFFN.DV PARM-STMT SUBSCAN PAIR
228	(E4)	ADDRESS	4	MCTOFFTU	"V(USEROFFT)" User table
232	(E8)	ADDRESS	4	MCTOFFTH	"V(HASPOFFT)" HASP table
236	(EC)	ADDRESS	4	MCTOFFTD	Dynamic table array
240	(F0)	ADDRESS	4	MCTOJRTP (0)	OFFN.JR PARM-STMT SUBSCAN PAIR
240	(F0)	ADDRESS	4	MCTOJRTU	"V(USEROJRT)" User table
244	(F4)	ADDRESS	4	MCTOJRTH	"V(HASPOJRT)" HASP table
248	(F8)	ADDRESS	4	MCTOJRTH	Dynamic table array
252	(FC)	ADDRESS	4	MCTOJTTP (0)	OFFN.JT PARM-STMT SUBSCAN PAIR
252	(FC)	ADDRESS	4	MCTOJTU	"V(USEROJTT)" User table
256	(100)	ADDRESS	4	MCTOJTTH	"V(HASPOJTT)" HASP table
260	(104)	ADDRESS	4	MCTOJTDD	Dynamic table array
264	(108)	ADDRESS	4	MCTOSRTP (0)	OFFN.SR PARM-STMT SUBSCAN PAIR
264	(108)	ADDRESS	4	MCTOSRTU	"V(USEROSRT)" User table
268	(10C)	ADDRESS	4	MCTOSRTH	"V(HASPOSRT)" HASP table
272	(110)	ADDRESS	4	MCTOSRTD	Dynamic table array
276	(114)	ADDRESS	4	MCTOSTTP (0)	OFFN.ST PARM-STMT SUBSCAN PAIR
276	(114)	ADDRESS	4	MCTOSTTU	"V(USEROSTT)" User table
280	(118)	ADDRESS	4	MCTOSTTH	"V(HASPOSTT)" HASP table
284	(11C)	ADDRESS	4	MCTOSTTD	Dynamic table array
288	(120)	ADDRESS	4	MCTPRTP (0)	PRINTERNN PARM-STMT SUBSCAN
288	(120)	ADDRESS	4	MCTPRTTU	"V(USERPRTT)" User table
292	(124)	ADDRESS	4	MCTPRTH	"V(HASPPRTH)" HASP table
296	(128)	ADDRESS	4	MCTPRTTD	Dynamic table array
300	(12C)	ADDRESS	4	MCTPUNTP (0)	PUNCHNN PARM-STMT SUBSCAN
300	(12C)	ADDRESS	4	MCTPUNTU	"V(USERPUNT)" User table
304	(130)	ADDRESS	4	MCTPUNTH	"V(HASPPUNT)" HASP table
308	(134)	ADDRESS	4	MCTPUNTD	Dynamic table array
312	(138)	ADDRESS	4	MCTRDITP (0)	RDI PARM-STMT SUBSCAN PAIR
312	(138)	ADDRESS	4	MCTRDITU	"V(USERRDIT)" User table
316	(13C)	ADDRESS	4	MCTRDITH	"V(HASPRDIT)" HASP table
320	(140)	ADDRESS	4	MCTRDITD	Dynamic table array

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
324	(144)	ADDRESS	4	MCTRD RTP (0)	READERNN PARM-STMT SUBSCAN
324	(144)	ADDRESS	4	MCTRD RTU	"V(USERRDRT)" User table
328	(148)	ADDRESS	4	MCTRD RTH	"V(HASPRDRT)" HASP table
332	(14C)	ADDRESS	4	MCTRD RTD	Dynamic table array
336	(150)	ADDRESS	4	MCTRD VTP (0)	RNNNNNDVX PARM-STMT SUBSCAN PAIR
336	(150)	ADDRESS	4	MCTRD V TU	"V(USERRDVT)" User table
340	(154)	ADDRESS	4	MCTRD V TH	"V(HASPRDVT)" HASP table
344	(158)	ADDRESS	4	MCTRD V TD	Dynamic table array
348	(15C)	ADDRESS	4	MCTR PRTP (0)	RNNNNPRX PARM-STMT SUBSCAN
348	(15C)	ADDRESS	4	MCTR PR TU	"V(USERRPRT)" User table
352	(160)	ADDRESS	4	MCTR PR TH	"V(HASPRPRT)" HASP table
356	(164)	ADDRESS	4	MCTR PR TD	Dynamic table array
360	(168)	ADDRESS	4	MCTR P UTP (0)	RNNNNPUX PARM-STMT SUBSCAN
360	(168)	ADDRESS	4	MCTR P U TU	"V(USERRPUT)" User table
364	(16C)	ADDRESS	4	MCTR P U TH	"V(HASPRPUT)" HASP table
368	(170)	ADDRESS	4	MCTR P U TD	Dynamic table array
372	(174)	ADDRESS	4	MCTR R DTP (0)	RNNNNRDX PARM-STMT SUBSCAN
372	(174)	ADDRESS	4	MCTR R D TU	"V(USERRRDT)" User table
376	(178)	ADDRESS	4	MCTR R D TH	"V(HASPRRDT)" HASP table
380	(17C)	ADDRESS	4	MCTR R D TD	Dynamic table array
384	(180)	ADDRESS	4	MCTR C NTP (0)	RNNNNCN PARM-STMT SUBSCAN
384	(180)	ADDRESS	4	MCTR C N TU	"V(USERRCNT)" User table
388	(184)	ADDRESS	4	MCTR C N TH	"V(HASPRCNT)" HASP table
392	(188)	ADDRESS	4	MCTR C N TD	Dynamic table array
396	(18C)	ADDRESS	4	MCT S BTP (0)	SUBNET PARM-STMT SUBSCAN
396	(18C)	ADDRESS	4	MCT S B TU	"V(USERSUBT)" User table
400	(190)	ADDRESS	4	MCT S B TH	"V(HASPSUBT)" HASP table
404	(194)	ADDRESS	4	MCT S B TD	Dynamic table array
408	(198)	ADDRESS	4	(3)	Reserved for future use

Comment

\$SCAN FACILITY HASP TABLE FOR SUBSCANNING OF VECTOR TYPE
PARAMETER STATEMENTS.

End of Comment

420	(1A4)	ADDRESS	4	MCTAD RTP (0)	BAD TRACK ADDRESS OPERAND VECTR
420	(1A4)	ADDRESS	4	MCTAD RTH	"V(HASPVADR)" HASP VECTOR table
424	(1A8)	ADDRESS	4	MCTVT MTP (0)	TIME OPERAND VECTOR
424	(1A8)	ADDRESS	4	MCTVT MTH	"V(HASPVTIM)" HASP VECTOR table
428	(1AC)	ADDRESS	4	MCTAU TTP (0)	AUTHORITY OPERAND VECTOR
428	(1AC)	ADDRESS	4	MCTAU TH	"V(HASPVAUT)" HASP VECTOR table
432	(1B0)	ADDRESS	4	MCTMSGTP (0)	MESSAGE OPERAND VECTOR
432	(1B0)	ADDRESS	4	MCTMSGTH	"V(HASPVMSG)" HASP VECTOR table
436	(1B4)	ADDRESS	4	MCTCHRTP (0)	CHARACTER OPERAND VECTOR
436	(1B4)	ADDRESS	4	MCTCHRTH	"V(HASPVCHR)" HASP VECTOR table
440	(1B8)	ADDRESS	4	MCTXR TTP (0)	ROUTINE OPERAND VECTOR
440	(1B8)	ADDRESS	4	MCTXR TH	"V(HASPVXRT)" HASP VECTOR table
444	(1BC)	ADDRESS	4	MCTJR NTP (0)	JOB RANGE OPERAND VECTOR (INIT)
444	(1BC)	ADDRESS	4	MCTJR NTH	"V(HASPVJRN)" HASP VECTOR table
448	(1C0)	ADDRESS	4	MCTRANTP (0)	JOB RANGE OPERAND VECTOR(\$T/\$D)
448	(1C0)	ADDRESS	4	MCTRANTH	"V(HASPVJBR)" HASP VECTOR table
452	(1C4)	ADDRESS	4	MCTDR MTP (0)	DORMANCY OPERAND VECTOR
452	(1C4)	ADDRESS	4	MCTDR MTH	"V(HASPVDRM)" HASP VECTOR table
456	(1C8)	ADDRESS	4	MCTRNGTP (0)	RANGE OPERAND VECTOR
456	(1C8)	ADDRESS	4	MCTRNGTH	"V(HASPV RNG)" HASP VECTOR table
460	(1CC)	ADDRESS	4	MCTRN2TP (0)	RANGE OPERAND VECTOR 2
460	(1CC)	ADDRESS	4	MCTRN2TH	"V(HASPV RN2)" HASP VECTOR table
464	(1D0)	ADDRESS	4	MCTPR CTP (0)	ROUTE CODE OPERAND VECTOR
464	(1D0)	ADDRESS	4	MCTPR CTH	"V(HASPVPRC)" HASP VECTOR table
468	(1D4)	ADDRESS	4	MCTSAFTP (0)	SYSTEM AFFINITY OPERAND VECTOR
468	(1D4)	ADDRESS	4	MCTSAFTH	"V(HASPVSAF)" HASP VECTOR table
472	(1D8)	ADDRESS	4	MCTVOLTP (0)	VOLUME OPERAND VECTOR
472	(1D8)	ADDRESS	4	MCTVOLTH	"V(HASPVVOL)" HASP VECTOR table

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
476	(1DC)	ADDRESS	4	MCTFRMTP (0)	FORMS OPERAND VECTOR
476	(1DC)	ADDRESS	4	MCTFRMTH	"V(HASPVFRM)" HASP VECTOR table
480	(1E0)	ADDRESS	4	MCTPPRTP (0)	PRMODE OPERAND VECTOR
480	(1E0)	ADDRESS	4	MCTPPRTH	"V(HASPVPPR)" HASP VECTOR table
484	(1E4)	ADDRESS	4	MCTLMITP (0)	LIMIT OPERAND VECTOR
484	(1E4)	ADDRESS	4	MCTLMITH	"V(HASPVLM)" HASP VECTOR table
488	(1E8)	ADDRESS	4	MCTMSMTP (0)	MODULE ASSEMBLE= VECTOR
488	(1E8)	ADDRESS	4	MCTMSMTH	"V(HASPMSMT)" HASP VECTOR table
492	(1EC)	ADDRESS	4	MCTPLMTP (0)	PLIM OPERAND VECTOR
492	(1EC)	ADDRESS	4	MCTPLMTH	"V(HASPVPLM)" HASP VECTOR table
496	(1F0)	ADDRESS	4	MCTOUNTP (0)	OFFLOAD UNIT= OPERAND
496	(1F0)	ADDRESS	4	MCTOUNTH	"V(HASPOUNT)" HASP VECTOR table
500	(1F4)	ADDRESS	4	MCTVWSTP (0)	WS OPERAND VECTOR
500	(1F4)	ADDRESS	4	MCTVWSTH	"V(HASPVWST)" HASP VECTOR table
504	(1F8)	ADDRESS	4	MCTVOSTP (0)	OUTDISP OPERAND VECTOR
504	(1F8)	ADDRESS	4	MCTVOSTH	"V(HASPVODS)" HASP VECTOR table
508	(1FC)	ADDRESS	4	MCTVOJTP (0)	OUTDISP OPERAND
508	(1FC)	ADDRESS	4	MCTVOJTH	"V(HASPVODJ)" HASP VECTOR table
512	(200)	ADDRESS	4	MCTVSRTP (0)	OUTDISP OPERAND VECTOR
512	(200)	ADDRESS	4	MCTVSRTH	"V(HASPVOSR)" HASP VECTOR table
516	(204)	ADDRESS	4	MCTVSTTP (0)	OUTDISP OPERAND VECTOR
516	(204)	ADDRESS	4	MCTVSTTH	"V(HASPVOST)" HASP VECTOR table
520	(208)	ADDRESS	4	MCTVSFTP (0)	RDRnn SYSAFF=OPERAND VECTOR
520	(208)	ADDRESS	4	MCTVSFTH	"V(HASPRSFT)" HASP VECTOR table
524	(20C)	ADDRESS	4	MCTVOWTP (0)	RDRnn SYSAFF=OPERAND VECTOR
524	(20C)	ADDRESS	4	MCTVOWTH	"V(HASPROWT)" HASP VECTOR table
528	(210)	ADDRESS	4	MCTVSSTP (0)	SPOOL SYSAFF=OPERAND VECTOR
528	(210)	ADDRESS	4	MCTVSSTH	"V(HASPRSST)" HASP VECTOR table
532	(214)	ADDRESS	4	MCTVJCTP (0)	JOBnn CMDAUTH= VECTOR
532	(214)	ADDRESS	4	MCTVJCTH	"V(HASPJCMT)" HASP VECTOR table
536	(218)	ADDRESS	4	MCTVJSTP (0)	JOBnn SYSAFF=OPERAND VECTOR
536	(218)	ADDRESS	4	MCTVJSTH	"V(HASPJSFT)" HASP VECTOR table
540	(21C)	ADDRESS	4	MCTVJOFP (0)	JOBnn OFFS= OPERAND VECTOR
540	(21C)	ADDRESS	4	MCTVJOFH	"V(HASPJOF)" HASP VECTOR table
544	(220)	ADDRESS	4	MCTVSOFP (0)	OUTPUT OFFS= OPERAND VECTOR
544	(220)	ADDRESS	4	MCTVSOFH	"V(HASPSOFT)" HASP VECTOR table
548	(224)	ADDRESS	4	MCTVVUDP (0)	SPOOL UNITDATA TRKRANGE
548	(224)	ADDRESS	4	MCTVVUDH	"V(HASPVUDT)" HASP VECTOR table
552	(228)	ADDRESS	4	MCTVJVLP (0)	JOBnnn VOLUMES= vector
552	(228)	ADDRESS	4	MCTVJVLH	"V(HASPVJVT)" HASP VECTOR table
556	(22C)	ADDRESS	4	MCTVJABP (0)	JOBnnn ABEND= vector
556	(22C)	ADDRESS	4	MCTVJABH	"V(HASPVABT)" HASP VECTOR table
560	(230)	ADDRESS	4		Reserved for future use
564	(234)	ADDRESS	4		Reserved for future use
568	(238)	ADDRESS	4		Reserved for future use
572	(23C)	ADDRESS	4		Reserved for future use

Comment

\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF MISCELLANEOUS PARAMETER STATEMENTS.

End of Comment

576	(240)	ADDRESS	4	MCTACTTP (0)	ACTRMT statement table pair
576	(240)	ADDRESS	4	MCTACTTU	"V(USERACTT)" User table
580	(244)	ADDRESS	4	MCTACTTH	"V(HASPACTT)" HASP table
584	(248)	ADDRESS	4	MCTACTTD	Dynamic table array
588	(24C)	ADDRESS	4	MCTAPLTP (0)	APPL PARM-STMT SUBSCAN
588	(24C)	ADDRESS	4	MCTAPLTU	"V(USERAPLT)" User table
592	(250)	ADDRESS	4	MCTAPLTH	"V(HASPAPLT)" HASP table
596	(254)	ADDRESS	4	MCTAPLTD	Dynamic table array
600	(258)	ADDRESS	4	MCTBADTP (0)	BADTRACK PARM-STMT SUBSCAN
600	(258)	ADDRESS	4	MCTBADTU	"V(USERBADT)" User table
604	(25C)	ADDRESS	4	MCTBADTH	"V(HASPBADT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
608	(260)	ADDRESS	4	MCTBADTD	Dynamic table array
612	(264)	ADDRESS	4	MCTBUFTP (0)	BUFDEF PARM-STMT SUBSCAN PAIR
612	(264)	ADDRESS	4	MCTBUFTU	"V(USERBUFT)" User table
616	(268)	ADDRESS	4	MCTBUFTH	"V(HASPBUFF)" HASP table
620	(26C)	ADDRESS	4	MCTBUFTD	Dynamic table array
624	(270)	ADDRESS	4	MCTBFHTP (0)	BUFDEF BELOWBUF SUBSCAN PR
624	(270)	ADDRESS	4	MCTBFHTU	"V(USERBFHT)" User table
628	(274)	ADDRESS	4	MCTBFHTH	"V(HASPBFBHT)" HASP table
632	(278)	ADDRESS	4	MCTBFHTD	Dynamic table array
636	(27C)	ADDRESS	4	MCTBFXTP (0)	BUFDEF ABOVEBUF SUBSCAN PR
636	(27C)	ADDRESS	4	MCTBFXTU	"V(USERBFXT)" User table
640	(280)	ADDRESS	4	MCTBFXTH	"V(HASPBFBXT)" HASP table
644	(284)	ADDRESS	4	MCTBFXTD	Dynamic table array
648	(288)	ADDRESS	4	MCTBSCTP (0)	TPDEF BSC SUBSCAN PAIR
648	(288)	ADDRESS	4	MCTBSCTU	"V(USERBSCT)" User table
652	(28C)	ADDRESS	4	MCTBSCTH	"V(HASPBSCT)" HASP table
656	(290)	ADDRESS	4	MCTBSCTD	Dynamic table array
660	(294)	ADDRESS	4	MCTSNATP (0)	TPDEF SNA SUBSCAN PAIR
660	(294)	ADDRESS	4	MCTSNATU	"V(USERSNAT)" User table
664	(298)	ADDRESS	4	MCTSNATH	"V(HASPSNAT)" HASP table
668	(29C)	ADDRESS	4	MCTSNATD	Dynamic table array
672	(2A0)	ADDRESS	4	MCTSESTP (0)	TPDEF SESSIONS= subscan
672	(2A0)	ADDRESS	4	MCTSESTU	"V(USERSEST)" User table
676	(2A4)	ADDRESS	4	MCTSESTH	"V(HASPSEST)" HASP table
680	(2A8)	ADDRESS	4	MCTSESTD	Dynamic table array
684	(2AC)	ADDRESS	4	MCTJCXTP (0)	JOBCLASS XEQCOUNT= subscan
684	(2AC)	ADDRESS	4	MCTJCXTU	"V(USERJCXT)" User table
688	(2B0)	ADDRESS	4	MCTJCXTH	"V(HASPJCXT)" HASP table
692	(2B4)	ADDRESS	4	MCTJCXTD	Dynamic table array
696	(2B8)	ADDRESS	4	MCTJCCTP (0)	JOB CC (completion code)
696	(2B8)	ADDRESS	4	MCTJCCTU	"V(USERJCCT)" User table
700	(2BC)	ADDRESS	4	MCTJCCTH	"V(HASPJCCT)" HASP table
704	(2C0)	ADDRESS	4	MCTJCCTD	Dynamic table array
708	(2C4)	ADDRESS	4	MCTCATTP (0)	JOB CLASS PARM-STMTS SUBSCAN
708	(2C4)	ADDRESS	4	MCTCATTU	"V(USERCATT)" User table
712	(2C8)	ADDRESS	4	MCTCATTH	"V(HASPCATT)" HASP table
716	(2CC)	ADDRESS	4	MCTCATTD	Dynamic table array
720	(2D0)	ADDRESS	4	MCTCKTTP (0)	CKPTDEF PARM-STMT SUBSCAN PAIR
720	(2D0)	ADDRESS	4	MCTCKTTU	"V(USERCKTT)" User table
724	(2D4)	ADDRESS	4	MCTCKTTH	"V(HASPCKTT)" HASP table
728	(2D8)	ADDRESS	4	MCTCKTTD	Dynamic table array
732	(2DC)	ADDRESS	4	MCTCKLTP (0)	CKPTLOCK PARM-STMT TABLE PR
732	(2DC)	ADDRESS	4	MCTCKLTU	"V(USERCKLT)" User table
736	(2E0)	ADDRESS	4	MCTCKLTH	"V(HASPCKLT)" HASP table
740	(2E4)	ADDRESS	4	MCTCKLTD	Dynamic table array
744	(2E8)	ADDRESS	4	MCTSPCTP (0)	CKPTSPACE Parm-stmt tbl pr
744	(2E8)	ADDRESS	4	MCTSPCTU	"V(USERSPCT)" User table
748	(2EC)	ADDRESS	4	MCTSPCTH	"V(HASPSPCT)" HASP table
752	(2F0)	ADDRESS	4	MCTSPCTD	Dynamic table array
756	(2F4)	ADDRESS	4	MCTKPNTP (0)	CKPTDEF CKPTN= SUBSCAN PAIR
756	(2F4)	ADDRESS	4	MCTKPNTU	"V(USERKPNT)" User table
760	(2F8)	ADDRESS	4	MCTKPNTH	"V(HASPKPNT)" HASP table
764	(2FC)	ADDRESS	4	MCTKPNTD	Dynamic table array
768	(300)	ADDRESS	4	MCTEKNTP (0)	CKPTDEF NEWCKPTN= SUBSCAN
768	(300)	ADDRESS	4	MCTEKNTU	"V(USEREKNT)" User table
772	(304)	ADDRESS	4	MCTEKNTH	"V(HASPEKNT)" HASP table
776	(308)	ADDRESS	4	MCTEKNTD	Dynamic table array
780	(30C)	ADDRESS	4	MCTVLTP (0)	CKPTDEF VOLATILE= subscan
780	(30C)	ADDRESS	4	MCTVLTTU	"V(USERVLTT)" User table
784	(310)	ADDRESS	4	MCTVLTTH	"V(HASPVLT)" HASP table
788	(314)	ADDRESS	4	MCTVLTTD	Dynamic table array
792	(318)	ADDRESS	4	MCTVKPTP (0)	CKPTDEF VERSIONS= SUBSCAN
792	(318)	ADDRESS	4	MCTVKPTU	"V(USERVKPT)" User table
796	(31C)	ADDRESS	4	MCTVKPTH	"V(HASPVKPT)" HASP table

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
800	(320)	ADDRESS	4	MCTVKPTD	Dynamic table array
804	(324)	ADDRESS	4	MCTCNDTP (0)	CONDEF PARM-STMT SUBSCAN PAIR
804	(324)	ADDRESS	4	MCTCNDTU	"V(USERCNDT)" User table
808	(328)	ADDRESS	4	MCTCNDTH	"V(HASPCNDT)" HASP table
812	(32C)	ADDRESS	4	MCTCNDTD	Dynamic table array
816	(330)	ADDRESS	4	MCTCOMTP (0)	COMPACT PARM-STMT SUBSCAN
816	(330)	ADDRESS	4	MCTCOMTU	"V(USERCOMT)" User table
820	(334)	ADDRESS	4	MCTCOMTH	"V(HASPCOMT)" HASP table
824	(338)	ADDRESS	4	MCTCOMTD	Dynamic table array
828	(33C)	ADDRESS	4	MCTCONTP (0)	CONNECT PARM-STMT SUBSCAN
828	(33C)	ADDRESS	4	MCTCONTU	"V(USERCONT)" User table
832	(340)	ADDRESS	4	MCTCONTH	"V(HASPCONT)" HASP table
836	(344)	ADDRESS	4	MCTCONTD	Dynamic table array
840	(348)	ADDRESS	4	MCTDBGTP (0)	DEBUG stmt table pair
840	(348)	ADDRESS	4	MCTDBGTU	"V(USERDBGT)" User table
844	(34C)	ADDRESS	4	MCTDBGTH	"V(HASPCDBGT)" HASP table
848	(350)	ADDRESS	4	MCTDBGTD	Dynamic table array
852	(354)	ADDRESS	4	MCTDESTP (0)	DESTID PARM-STMT SUBSCAN
852	(354)	ADDRESS	4	MCTDESTU	"V(USERDEST)" User table
856	(358)	ADDRESS	4	MCTDESTH	"V(HASPDEST)" HASP table
860	(35C)	ADDRESS	4	MCTDESTD	Dynamic table array
864	(360)	ADDRESS	4	MCTDSTTP (0)	DESTDEF stmt table pair
864	(360)	ADDRESS	4	MCTDSTTU	"V(USERDSTT)" User table
868	(364)	ADDRESS	4	MCTDSTTH	"V(HASPDSTT)" HASP table
872	(368)	ADDRESS	4	MCTDSTTD	Dynamic table array
876	(36C)	ADDRESS	4	MCTELCTP (0)	ESTLNCT PARM-STMT SUBSCAN
876	(36C)	ADDRESS	4	MCTELCTU	"V(USERELCT)" User table
880	(370)	ADDRESS	4	MCTELCTH	"V(HASPELCT)" HASP table
884	(374)	ADDRESS	4	MCTELCTD	Dynamic table array
888	(378)	ADDRESS	4	MCTEBYTP (0)	ESTBYTE SUBSCAN PAIR
888	(378)	ADDRESS	4	MCTEBYTU	"V(USEREBYT)" User table
892	(37C)	ADDRESS	4	MCTEBYTH	"V(HASPEBYT)" HASP table
896	(380)	ADDRESS	4	MCTEBYTD	Dynamic table array
900	(384)	ADDRESS	4	MCTEPGTP (0)	ESTPAGE PARM-STMT SUBSCAN
900	(384)	ADDRESS	4	MCTEPGTU	"V(USEREPTG)" User table
904	(388)	ADDRESS	4	MCTEPGTH	"V(HASPEPGT)" HASP table
908	(38C)	ADDRESS	4	MCTEPGTD	Dynamic table array
912	(390)	ADDRESS	4	MCTEPNTP (0)	ESTPUN PARM-STMT SUBSCAN
912	(390)	ADDRESS	4	MCTEPNTU	"V(USEREPTN)" User table
916	(394)	ADDRESS	4	MCTEPNTH	"V(HASPEPNT)" HASP table
920	(398)	ADDRESS	4	MCTEPNTD	Dynamic table array
924	(39C)	ADDRESS	4	MCTETMTP (0)	ESTIME PARM-STMT SUBSCAN
924	(39C)	ADDRESS	4	MCTETMTU	"V(USERETMT)" User table
928	(3A0)	ADDRESS	4	MCTETMTH	"V(HASPETMT)" HASP table
932	(3A4)	ADDRESS	4	MCTETMTD	Dynamic table array
936	(3A8)	ADDRESS	4	MCTXITTP (0)	EXITNNN PARM-STMT SUBSCAN
936	(3A8)	ADDRESS	4	MCTXITTU	"V(USERXITT)" User table
940	(3AC)	ADDRESS	4	MCTXITTH	"V(HASPIXITT)" HASP table
944	(3B0)	ADDRESS	4	MCTXITTD	Dynamic table array
948	(3B4)	ADDRESS	4	MCTFSSTP (0)	FSS parm-stmt subscan pair
948	(3B4)	ADDRESS	4	MCTFSSTU	"V(USERFSST)" User table
952	(3B8)	ADDRESS	4	MCTFSSTH	"V(HASPFSSST)" HASP table
956	(3BC)	ADDRESS	4	MCTFSSTD	Dynamic table array
960	(3C0)	ADDRESS	4	MCTHDRTP (0)	NJEDEF HDRBUF subscan pair
960	(3C0)	ADDRESS	4	MCTHDRTU	"V(USERHDRT)" User table
964	(3C4)	ADDRESS	4	MCTHDRTH	"V(HASPHDRT)" HASP table
968	(3C8)	ADDRESS	4	MCTHDRTD	Dynamic table array
972	(3CC)	ADDRESS	4	MCTPARTP (0)	INITDEF PARM-STMT SUBSCAN PAIR
972	(3CC)	ADDRESS	4	MCTPARTU	"V(USERPART)" User table
976	(3D0)	ADDRESS	4	MCTPARTH	"V(HASPPART)" HASP table
980	(3D4)	ADDRESS	4	MCTPARTD	Dynamic table array
984	(3D8)	ADDRESS	4	MCTPITTP (0)	INNNN PARM-STMT SUBSCAN
984	(3D8)	ADDRESS	4	MCTPITTU	"V(USERPITT)" User table
988	(3DC)	ADDRESS	4	MCTPITTH	"V(HASPPITT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
992	(3E0)	ADDRESS	4	MCTPITTD	Dynamic table array
996	(3E4)	ADDRESS	4	MCTJOBTP (0)	JOBDEF PARM-STMT SUBSCAN PAIR
996	(3E4)	ADDRESS	4	MCTJOBTU	"V(USERJOBT)" User table
1000	(3E8)	ADDRESS	4	MCTJOBTH	"V(HASJOBT)" HASP table
1004	(3EC)	ADDRESS	4	MCTJOBTD	Dynamic table array
1008	(3F0)	ADDRESS	4	MCTJQETP (0)	JOBnnn PARM-STMT SUBSCAN PAIR
1008	(3F0)	ADDRESS	4	MCTJQETU	"V(USERJQET)" User table
1012	(3F4)	ADDRESS	4	MCTJQETH	"V(HASPJQET)" HASP table
1016	(3F8)	ADDRESS	4	MCTJQETD	Dynamic table array
1020	(3FC)	ADDRESS	4	MCTJSPTP (0)	JOBnnn SPOOL= SUBSCAN PAIR
1020	(3FC)	ADDRESS	4	MCTJSPTU	"V(USERJSPT)" User table
1024	(400)	ADDRESS	4	MCTJSPTH	"V(HASPJSPT)" HASP table
1028	(404)	ADDRESS	4	MCTJSPTD	Dynamic table array
1032	(408)	ADDRESS	4	MCTJPYTP (0)	JOBPRTY PARM-STMT SUBSCAN PAIR
1032	(408)	ADDRESS	4	MCTJPYTU	"V(USERJPYT)" User table
1036	(40C)	ADDRESS	4	MCTJPYTH	"V(HASPJPYT)" HASP table
1040	(410)	ADDRESS	4	MCTJPYTD	Dynamic table array
1044	(414)	ADDRESS	4	MCTLODTP (0)	LOADMOD PARM-STMT SUBSCAN PAIR
1044	(414)	ADDRESS	4	MCTLODTU	"V(USERLODT)" User table
1048	(418)	ADDRESS	4	MCTLODTH	"V(HASPLODT)" HASP table
1052	(41C)	ADDRESS	4	MCTLODTD	Dynamic table array
1056	(420)	ADDRESS	4	MCTMASTP (0)	MASDEF PARM-STMT SUBSCAN PAIR
1056	(420)	ADDRESS	4	MCTMASTU	"V(USERMAST)" User table
1060	(424)	ADDRESS	4	MCTMASTH	"V(HASPMAST)" HASP table
1064	(428)	ADDRESS	4	MCTMASTD	Dynamic table array
1068	(42C)	ADDRESS	4	MCTMEMTP (0)	MEMBER parm-stmt subscan
1068	(42C)	ADDRESS	4	MCTMEMTU	"V(USERMEMT)" User table
1072	(430)	ADDRESS	4	MCTMEMTH	"V(HASPMEMT)" HASP table
1076	(434)	ADDRESS	4	MCTMEMTD	Dynamic table array
1080	(438)	ADDRESS	4	MCTSTYTP (0)	MEMBER LASTART= subscan
1080	(438)	ADDRESS	4	MCTSTYTU	"V(USERSTYT)" User table
1084	(43C)	ADDRESS	4	MCTSTYTH	"V(HASPSTYT)" HASP table
1088	(440)	ADDRESS	4	MCTSTYTD	Dynamic table array
1092	(444)	ADDRESS	4	MCTMODTP (0)	MODULE PARM-STMT SUBSCAN
1092	(444)	ADDRESS	4		User table
1096	(448)	ADDRESS	4	MCTMODTH	"V(HASPMODT)" HASP table
1100	(44C)	ADDRESS	4		Dynamic table array
1104	(450)	ADDRESS	4	MCTNJETP (0)	NJEDEF PARM-STMT SUBSCAN PAIR
1104	(450)	ADDRESS	4	MCTNJETU	"V(USERNJET)" User table
1108	(454)	ADDRESS	4	MCTNJETH	"V(HASPNJET)" HASP table
1112	(458)	ADDRESS	4	MCTNJETD	Dynamic table array
1116	(45C)	ADDRESS	4	MCTNODTP (0)	NNNNN PARM-STMT SUBSCAN
1116	(45C)	ADDRESS	4	MCTNODTU	"V(USERNODT)" User table
1120	(460)	ADDRESS	4	MCTNODTH	"V(HASPNODT)" HASP table
1124	(464)	ADDRESS	4	MCTNODTD	Dynamic table array
1128	(468)	ADDRESS	4	MCTNDPTP (0)	NODEnnnn PASSWORD subscan
1128	(468)	ADDRESS	4	MCTNDPTU	"V(USERNDPT)" User table
1132	(46C)	ADDRESS	4	MCTNDPTH	"V(HASPNDPT)" HASP table
1136	(470)	ADDRESS	4	MCTNDPTD	Dynamic table array
1140	(474)	ADDRESS	4	MCTNAUTP (0)	NODENNNN AUTH SUBSCAN PAIR
1140	(474)	ADDRESS	4	MCTNAUTU	"V(USERNAUT)" User table
1144	(478)	ADDRESS	4	MCTNAUTH	"V(HASPNAUT)" HASP table
1148	(47C)	ADDRESS	4	MCTNAUTD	Dynamic table array
1152	(480)	ADDRESS	4	MCTNETTP (0)	NETACCT PARM-STMT SUBSCAN
1152	(480)	ADDRESS	4	MCTNETTU	"V(USERNETT)" User table
1156	(484)	ADDRESS	4	MCTNETTH	"V(HASPNETT)" HASP table
1160	(488)	ADDRESS	4	MCTNETTD	Dynamic table array
1164	(48C)	ADDRESS	4	MCTOJMTP (0)	OFFN.JR MOD= PARM SUBSCAN PAIR
1164	(48C)	ADDRESS	4	MCTOJMTH	"V(USEROJMT)" User table
1168	(490)	ADDRESS	4	MCTOJMTH	"V(HASPOJMT)" HASP table
1172	(494)	ADDRESS	4	MCTOJMTH	Dynamic table array
1176	(498)	ADDRESS	4	MCTOSMTP (0)	OFFN.SR MOD= PARM SUBSCAN PAIR
1176	(498)	ADDRESS	4	MCTOSMTU	"V(USERSMST)" User table
1180	(49C)	ADDRESS	4	MCTOSMTH	"V(HASPOSMT)" HASP table

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1184	(4A0)	ADDRESS	4	MCTOSMTD	Dynamic table array
1188	(4A4)	ADDRESS	4	MCTOPDTP (0)	OPTSDEF PARM-STMT SUBSCAN PAIR
1188	(4A4)	ADDRESS	4	MCTOPDTU	"V(USEROPDT)" User table
1192	(4A8)	ADDRESS	4	MCTOPDTH	"V(HASPOPDT)" HASP table
1196	(4AC)	ADDRESS	4	MCTOPDTD	Dynamic table array
1200	(4B0)	ADDRESS	4	MCTOUTTP (0)	OUTDEF PARM-STMT SUBSCAN PAIR
1200	(4B0)	ADDRESS	4	MCTOUTTU	"V(USEROUTT)" User table
1204	(4B4)	ADDRESS	4	MCTOUTTH	"V(HASPOUTT)" HASP table
1208	(4B8)	ADDRESS	4	MCTOUTTD	Dynamic table array
1212	(4BC)	ADDRESS	4	MCTOPYTP (0)	OUTPRTY PARM-STMT SUBSCAN PAIR
1212	(4BC)	ADDRESS	4	MCTOPYTU	"V(USEROPYT)" User table
1216	(4C0)	ADDRESS	4	MCTOPYTH	"V(HASPOPYT)" HASP table
1220	(4C4)	ADDRESS	4	MCTOPYTD	Dynamic table array
1224	(4C8)	ADDRESS	4	MCTOTPTP (0)	OUTPUT display subscan pair
1224	(4C8)	ADDRESS	4	MCTOTPTU	"V(USEROTPT)" User table
1228	(4CC)	ADDRESS	4	MCTOTPTH	"V(HASPOTPT)" HASP table
1232	(4D0)	ADDRESS	4	MCTOTPTD	Dynamic table array
1236	(4D4)	ADDRESS	4	MCTLOTPP (0)	OUTPUT PARM-STMT PAIR (\$LJ)
1236	(4D4)	ADDRESS	4	MCTLOTTU	"V(USERLOTT)" User table
1240	(4D8)	ADDRESS	4	MCTLOTTH	"V(HASPLOTT)" HASP table
1244	(4DC)	ADDRESS	4	MCTLOTTD	Dynamic table array
1248	(4E0)	ADDRESS	4	MCTPHTP (0)	Path parm-stmt subscan pair
1248	(4E0)	ADDRESS	4	MCTPHTTU	"V(USERPHTT)" User table
1252	(4E4)	ADDRESS	4	MCTPHTTH	"V(HASPHTT)" HASP table
1256	(4E8)	ADDRESS	4	MCTPHTD	Dynamic table array
1260	(4EC)	ADDRESS	4	MCTPCCTP (0)	PCE parm-stmt subscan pair
1260	(4EC)	ADDRESS	4	MCTPCCTU	"V(USERPCCT)" User table
1264	(4F0)	ADDRESS	4	MCTPCCTH	"V(HASPPCCT)" HASP table
1268	(4F4)	ADDRESS	4	MCTPCCTD	Dynamic table array
1272	(4F8)	ADDRESS	4	MCTPCNTP (0)	PCE COUNT parm subscan pair
1272	(4F8)	ADDRESS	4	MCTPCNTU	"V(USERPCNT)" User table
1276	(4FC)	ADDRESS	4	MCTPCNTH	"V(HASPPCNT)" HASP table
1280	(500)	ADDRESS	4	MCTPCNTD	Dynamic table array
1284	(504)	ADDRESS	4	MCTPCDTP (0)	PCEDEF PARM-STMT SUBSCAN PAIR
1284	(504)	ADDRESS	4	MCTPCDTU	"V(USERPCDT)" User table
1288	(508)	ADDRESS	4	MCTPCDTH	"V(HASPPCDT)" HASP table
1292	(50C)	ADDRESS	4	MCTPCDTD	Dynamic table array
1296	(510)	ADDRESS	4	MCTPTDTP (0)	PRINTDEF PARM-STMT SUBSCAN PAIR
1296	(510)	ADDRESS	4	MCTPTDTU	"V(USERPTDT)" User table
1300	(514)	ADDRESS	4	MCTPTDTH	"V(HASPPTDT)" HASP table
1304	(518)	ADDRESS	4	MCTPTDTD	Dynamic table array
1308	(51C)	ADDRESS	4	MCTPUOTP (0)	PUNCHDEF PARM-STMT SUBSCAN PAIR
1308	(51C)	ADDRESS	4	MCTPUOTU	"V(USERPUOT)" User table
1312	(520)	ADDRESS	4	MCTPUOTH	"V(HASPPUOT)" HASP table
1316	(524)	ADDRESS	4	MCTPUOTD	Dynamic table array
1320	(528)	ADDRESS	4	MCTRAUTP (0)	RDRnn AUTH SUBSCAN PAIR
1320	(528)	ADDRESS	4	MCTRAUTU	"V(USERRAUT)" User table
1324	(52C)	ADDRESS	4	MCTRAUTH	"V(HASPRAUT)" HASP table
1328	(530)	ADDRESS	4	MCTRAUTD	Dynamic table array
1332	(534)	ADDRESS	4	MCTREDTP (0)	REDIR PARM-STMT SUBSCAN PR
1332	(534)	ADDRESS	4	MCTREDTU	"V(USERREDT)" User table
1336	(538)	ADDRESS	4	MCTREDTH	"V(HASPREDT)" HASP table
1340	(53C)	ADDRESS	4	MCTREDTD	Dynamic table array
1344	(540)	ADDRESS	4	MCTRCVTP (0)	RECVOPTS PARM-STMT SUBSCAN
1344	(540)	ADDRESS	4	MCTRCVTU	"V(USERRCVT)" User table
1348	(544)	ADDRESS	4	MCTRCVTH	"V(HASPRCVT)" HASP table
1352	(548)	ADDRESS	4	MCTRCVTD	Dynamic table array
1356	(54C)	ADDRESS	4	MCTRMTPP (0)	RMTNNNN PARM-STMT SUBSCAN
1356	(54C)	ADDRESS	4	MCTRMTTU	"V(USERRMTT)" User table
1360	(550)	ADDRESS	4	MCTRMTTH	"V(HASPRMTT)" HASP table
1364	(554)	ADDRESS	4	MCTRMTTD	Dynamic table array
1368	(558)	ADDRESS	4	MCTSCTTP (0)	OUTCLASS PARM-STMT SUBSCAN PAIR
1368	(558)	ADDRESS	4	MCTSCTTU	"V(USERSCTT)" User table
1372	(55C)	ADDRESS	4	MCTSCTTH	"V(HASPSCTT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1376	(560)	ADDRESS	4	MCTSCTTD	Dynamic table array
1380	(564)	ADDRESS	4	MCTSMFTP (0)	SMFDEF PARM-STMT SUBSCAN PAIR
1380	(564)	ADDRESS	4	MCTSMFTU	"V(USERSMFT)" User table
1384	(568)	ADDRESS	4	MCTSMFTH	"V(HASPSMFT)" HASP table
1388	(56C)	ADDRESS	4	MCTSMFTD	Dynamic table array
1392	(570)	ADDRESS	4	MCTSPLTP (0)	SPOOL PARM-STMT PAIR
1392	(570)	ADDRESS	4	MCTSPLTU	"V(USERSPLT)" User table
1396	(574)	ADDRESS	4	MCTSPLTH	"V(HASPSPLT)" HASP table
1400	(578)	ADDRESS	4	MCTSPLTD	Dynamic table array
1404	(57C)	ADDRESS	4	MCTSPDTP (0)	SPOOLDEF PARM-STMT SUBSCAN PAIR
1404	(57C)	ADDRESS	4	MCTSPDTU	"V(USERSPDT)" User table
1408	(580)	ADDRESS	4	MCTSPDTH	"V(HASPSPDT)" HASP table
1412	(584)	ADDRESS	4	MCTSPDTD	Dynamic table array
1416	(588)	ADDRESS	4	MCTFENTP (0)	SPOOLDEF FENCE=subscan
1416	(588)	ADDRESS	4	MCTFENTU	"V(USERFENT)" User table
1420	(58C)	ADDRESS	4	MCTFENTH	"V(HASPFENT)" HASP table
1424	(590)	ADDRESS	4	MCTFENTD	Dynamic table array
1428	(594)	ADDRESS	4	MCTTGSTP (0)	SPOOLDEF TGSPACE=subscan
1428	(594)	ADDRESS	4	MCTTGSTU	"V(USERTGST)" User table
1432	(598)	ADDRESS	4	MCTTGSTH	"V(HASPTGST)" HASP table
1436	(59C)	ADDRESS	4	MCTTGSTD	Dynamic table array
1440	(5A0)	ADDRESS	4	MCTSBDTP (0)	SUBTDEF STMT SUBSCAN PAIR
1440	(5A0)	ADDRESS	4	MCTSBDTU	"V(USERSBDT)" User table
1444	(5A4)	ADDRESS	4	MCTSBDTH	"V(HASPSBDT)" HASP table
1448	(5A8)	ADDRESS	4	MCTSBDTD	Dynamic table array
1452	(5AC)	ADDRESS	4	MCTTPDTP (0)	TPDEF PARM-STMT SUBSCAN PAIR
1452	(5AC)	ADDRESS	4	MCTTPDTU	"V(USERTPDT)" User table
1456	(5B0)	ADDRESS	4	MCTTPDTH	"V(HASPTPDT)" HASP table
1460	(5B4)	ADDRESS	4	MCTTPDTD	Dynamic table array
1464	(5B8)	ADDRESS	4	MCTTRCTP (0)	TRACEDEF PARM-STMT SUBSCAN PAIR
1464	(5B8)	ADDRESS	4	MCTTRCTU	"V(USERTRCT)" User table
1468	(5BC)	ADDRESS	4	MCTTRCTH	"V(HASPTRCT)" HASP table
1472	(5C0)	ADDRESS	4	MCTTRCTD	Dynamic table array
1476	(5C4)	ADDRESS	4	MCTTRITP (0)	TRACE(N) PARM-STMT SUBSCAN PR
1476	(5C4)	ADDRESS	4	MCTTRITU	"V(USERTRIT)" User table
1480	(5C8)	ADDRESS	4	MCTTRITH	"V(HASPTRIT)" HASP table
1484	(5CC)	ADDRESS	4	MCTTRITD	Dynamic table array
1488	(5D0)	ADDRESS	4	MCTSTATP (0)	TRACE STAT PARM-STMT SUBSCAN PR
1488	(5D0)	ADDRESS	4	MCTSTATU	"V(USERSTAT)" User table
1492	(5D4)	ADDRESS	4	MCTSTATH	"V(HASPSTAT)" HASP table
1496	(5D8)	ADDRESS	4	MCTSTATD	Dynamic table array
1500	(5DC)	ADDRESS	4	MCTTLGTP (0)	TRC LOG PARM-STMT SUBSCAN PAIR
1500	(5DC)	ADDRESS	4	MCTTLGTU	"V(USERTLGT)" User table
1504	(5E0)	ADDRESS	4	MCTTLGTH	"V(HASPTLGT)" HASP table
1508	(5E4)	ADDRESS	4	MCTTLGTD	Dynamic table array
1512	(5E8)	ADDRESS	4	MCTSSITP (0)	SSI PARM-STMT SUBSCAN PAIR
1512	(5E8)	ADDRESS	4	MCTSSITU	"V(USERSSIT)" User table
1516	(5EC)	ADDRESS	4	MCTSSITH	"V(HASPSSIT)" HASP table
1520	(5F0)	ADDRESS	4	MCTSSITD	Dynamic table array
1524	(5F4)	ADDRESS	4	MCTSEPTP (0)	SEPPAGE PARM-STMT SUBSCN PR
1524	(5F4)	ADDRESS	4	MCTSEPTU	"V(USERSEPT)" User table
1528	(5F8)	ADDRESS	4	MCTSEPTH	"V(HASPSEPT)" HASP table
1532	(5FC)	ADDRESS	4	MCTSEPTD	Dynamic table array
1536	(600)	ADDRESS	4	MCTVIATP (0)	Path parm-stmt VIA subparm
1536	(600)	ADDRESS	4	MCTVIATU	"V(USERVIAT)" User table
1540	(604)	ADDRESS	4	MCTVIATH	"V(HASPVIAT)" HASP table
1544	(608)	ADDRESS	4	MCTVIATD	Dynamic table array
1548	(60C)	ADDRESS	4	MCTVUNTP (0)	SPOOL UNITDATA= subparm
1548	(60C)	ADDRESS	4	MCTVUNTU	"V(USERVUNT)" User table
1552	(610)	ADDRESS	4	MCTVUNTH	"V(HASPVUNT)" HASP table
1556	(614)	ADDRESS	4	MCTVUNTD	Dynamic table array
1560	(618)	ADDRESS	4	MCTZJBTP (0)	ZAPJOB SUBSCAN pair
1560	(618)	ADDRESS	4	MCTZJBTU	"V(USERZJBT)" User table
1564	(61C)	ADDRESS	4	MCTZJBTH	"V(HASPZJBT)" HASP table

\$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1568	(620)	ADDRESS	4	MCTZJBTD	Dynamic table array
1572	(624)	ADDRESS	4	MCT4KPTP (0)	CKPTSPACE 4K_RECS subparm
1572	(624)	ADDRESS	4	MCT4KPTU	"V(USER4KPT)" User table
1576	(628)	ADDRESS	4	MCT4KPTH	"V(HASP4KPT)" HASP table
1580	(62C)	ADDRESS	4	MCT4KPTD	Dynamic table array
1584	(630)	ADDRESS	4	MCTPRFTP (0)	
1584	(630)	ADDRESS	4	MCTPRFTU	"V(USERPRFT)" User table
1588	(634)	ADDRESS	4	MCTPRFTH	"V(HASPPRFT)" HASP table
1592	(638)	ADDRESS	4	MCTPRFTD	Dynamic table array
1596	(63C)	ADDRESS	4	(3)	Reserved for future use
1608	(648)	ADDRESS	4	(3)	Reserved for future use
1620	(654)	ADDRESS	4	(3)	Reserved for future use

Comment

WORK SELECTION USER AND HASP TABLES

End of Comment

1632	(660)	ADDRESS	4	MCTPRWTP (0)	PRINTER WS TABLE ADDR PAIR
1632	(660)	ADDRESS	4	MCTPRWTU	"V(USERPRWT)" User table
1636	(664)	ADDRESS	4	MCTPRWTH	"V(HASPPRWT)" HASP table
1640	(668)	ADDRESS	4	MCTPRWTD	Dynamic table array
1644	(66C)	ADDRESS	4	MCTPUWTP (0)	PUNCH WS TABLE ADDR PAIR
1644	(66C)	ADDRESS	4	MCTPUWTU	"V(USERPUWT)" User table
1648	(670)	ADDRESS	4	MCTPUWTH	"V(HASPPUWT)" HASP table
1652	(674)	ADDRESS	4	MCTPUWTD	Dynamic table array
1656	(678)	ADDRESS	4	MCTJTWTP (0)	OFFJT WS TABLE ADDR PAIR
1656	(678)	ADDRESS	4	MCTJTWTU	"V(USERJTWTP)" User table
1660	(67C)	ADDRESS	4	MCTJTWTH	"V(HASPJTWTP)" HASP table
1664	(680)	ADDRESS	4	MCTJTWTD	Dynamic table array
1668	(684)	ADDRESS	4	MCTJRWTP (0)	OFFJR WS TABLE ADDR PAIR
1668	(684)	ADDRESS	4	MCTJRWTH	"V(USERJRWTP)" User table
1672	(688)	ADDRESS	4	MCTJRWTH	"V(HASPJRWTP)" HASP table
1676	(68C)	ADDRESS	4	MCTJRWTD	Dynamic table array
1680	(690)	ADDRESS	4	MCTSTWTP (0)	OFFST WS TABLE ADDR PAIR
1680	(690)	ADDRESS	4	MCTSTWTU	"V(USERSTWTP)" User table
1684	(694)	ADDRESS	4	MCTSTWTH	"V(HASPSTWTP)" HASP table
1688	(698)	ADDRESS	4	MCTSTWTD	Dynamic table array
1692	(69C)	ADDRESS	4	MCTSRWTP (0)	OFFSR WS TABLE ADDR PAIR
1692	(69C)	ADDRESS	4	MCTSRWTU	"V(USERSRWTP)" User table
1696	(6A0)	ADDRESS	4	MCTSRWTH	"V(HASPSRWTP)" HASP table
1700	(6A4)	ADDRESS	4	MCTSRWTD	Dynamic table array
1704	(6A8)	ADDRESS	4	MCTLJWTP (0)	Lx.JT WS table ADDR PAIR
1704	(6A8)	ADDRESS	4	MCTLJWTU	"V(USERLJWTP)" User table
1708	(6AC)	ADDRESS	4	MCTLJWTH	"V(HASPLJWTP)" HASP table
1712	(6B0)	ADDRESS	4	MCTLJWTD	Dynamic table array
1716	(6B4)	ADDRESS	4	MCTLSWTP (0)	Lx.ST WS table ADDR PAIR
1716	(6B4)	ADDRESS	4	MCTLSWTU	"V(USERLSWTP)" User table
1720	(6B8)	ADDRESS	4	MCTLSWTH	"V(HASPLSWTP)" HASP table
1724	(6BC)	ADDRESS	4	MCTLSWTD	Dynamic table array
1728	(6C0)	ADDRESS	4	MCTSAWTP (0)	Sysout API table Addr Pair
1728	(6C0)	ADDRESS	4	MCTSAWTU	"V(USERSAWTP)" User table
1732	(6C4)	ADDRESS	4	MCTSAWTH	"V(HASPSAWTP)" HASP table
1736	(6C8)	ADDRESS	4	MCTSAWTD	Dynamic table array
1740	(6CC)	ADDRESS	4	(3)	Reserved for future use

Comment

MISCELLANEOUS SECTION FOR USER TABLE POINTERS

End of Comment

1752	(6D8)	ADDRESS	4	MCTERRTP (0)	USER ERROR TEXT TABLE
1752	(6D8)	ADDRESS	4	MCTERRTU	"V(USERERRTP)" User table
1756	(6DC)	ADDRESS	4		HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1760	(6E0)	ADDRESS	4	MCTERRTD	Dynamic table array
1760	(6E0)	X'E4	0	MCTLEN	**-MCT" LENGTH OF THE MCT

\$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTACTTD	248		MCTCOMTU	330	
MCTACTTH	244		MCTCONTD	344	
MCTACTTP	240		MCTCONTH	340	
MCTACTTU	240		MCTCONTP	33C	
MCTADRTH	1A4		MCTCONTU	33C	
MCTADRTP	1A4		MCTDBGTD	350	
MCTAPLTD	254		MCTDBGTH	34C	
MCTAPLTH	250		MCTDBGTP	348	
MCTAPLTP	24C		MCTDBGTU	348	
MCTAPLTU	24C		MCTDCTTD	14	
MCTAUTHH	1AC		MCTDCTTH	10	
MCTAUTTP	1AC		MCTDCTTP	C	
MCTBADTD	260		MCTDCTTU	C	
MCTBADTH	25C		MCTDESTD	35C	
MCTBADTP	258		MCTDESTH	358	
MCTBADTU	258		MCTDESTP	354	
MCTBFHTD	278		MCTDESTU	354	
MCTBFHTH	274		MCTDRMTH	1C4	
MCTBFHTP	270		MCTDRMTP	1C4	
MCTBFHTU	270		MCTDSTTD	368	
MCTBFXTD	284		MCTDSTTH	364	
MCTBFXTH	280		MCTDSTTP	360	
MCTBFXTP	27C		MCTDSTTU	360	
MCTBFXTU	27C		MCTDTETD	20	
MCTBRSTD	50		MCTDTETH	1C	
MCTBRSTH	4C		MCTDTETP	18	
MCTBRSTP	48		MCTDTETU	18	
MCTBRSTU	48		MCTEYTD	380	
MCTBSCTD	290		MCTEYTH	37C	
MCTBSCTH	28C		MCTEYTP	378	
MCTBSCTP	288		MCTEYTU	378	
MCTBSCTU	288		MCTEKNTD	308	
MCTBUFTD	26C		MCTEKNTH	304	
MCTBUFTH	268		MCTEKNTP	300	
MCTBUFTP	264		MCTEKNTU	300	
MCTBUFTU	264		MCTELCTD	374	
MCTCATTD	2CC		MCTELCTH	370	
MCTCATTH	2C8		MCTELCTP	36C	
MCTCATTP	2C4		MCTELCTU	36C	
MCTCATTU	2C4		MCTEPGTD	38C	
MCTCHRTH	1B4		MCTEPGTH	388	
MCTCHRTP	1B4		MCTEPGTP	384	
MCTCKLTD	2E4		MCTEPGTU	384	
MCTCKLTH	2E0		MCTEPNTD	398	
MCTCKLTP	2DC		MCTEPNTH	394	
MCTCKLTU	2DC		MCTEPNTP	390	
MCTCKTTD	2D8		MCTEPNTU	390	
MCTCKTTH	2D4		MCTERRTD	6E0	
MCTCKTTP	2D0		MCTERRTP	6D8	
MCTCKTTU	2D0		MCTERRTU	6D8	
MCTCNDTD	32C		MCTETMTD	3A4	
MCTCNDTH	328		MCTETMTH	3A0	
MCTCNDTP	324		MCTETMTP	39C	
MCTCNDTU	324		MCTETMTU	39C	
MCTCOMTD	338		MCTFENTD	590	
MCTCOMTH	334		MCTFENTH	58C	
MCTCOMTP	330		MCTFENTP	588	

\$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTFENTU	588		MCTLJTTH	AC	
MCTFRMTH	1DC		MCTLJTTP	A8	
MCTFRMTP	1DC		MCTLJTU	A8	
MCTFSSTD	3BC		MCTLJWTD	6B0	
MCTFSSTH	3B8		MCTLJWTH	6AC	
MCTFSSTP	3B4		MCTLJWTP	6A8	
MCTFSSTU	3B4		MCTLJWU	6A8	
MCTHDRTD	3C8		MCTLNETD	8C	
MCTHDRTH	3C4		MCTLNETH	88	
MCTHDRTP	3C0		MCTLNETP	84	
MCTHDRTU	3C0		MCTLNETU	84	
MCTINRTD	80		MCTLODTD	41C	
MCTINRTH	7C		MCTLODTH	418	
MCTINRTP	78		MCTLODTP	414	
MCTINRTU	78		MCTLODTU	414	
MCTJCCTD	2C0		MCTLOGTD	D4	
MCTJCCTH	2BC		MCTLOGTH	D0	
MCTJCCTP	2B8		MCTLOGTP	CC	
MCTJCCTU	2B8		MCTLOGTU	CC	
MCTJCXTD	2B4		MCTLOTTD	4DC	
MCTJCXTH	2B0		MCTLOTTH	4D8	
MCTJCXTP	2AC		MCTLOTP	4D4	
MCTJCXTU	2AC		MCTLOTTU	4D4	
MCTJOBTD	3EC		MCTLSRTD	BC	
MCTJOBTH	3E8		MCTLSRTH	B8	
MCTJOBTP	3E4		MCTLSRTP	B4	
MCTJOBTU	3E4		MCTLSRTU	B4	
MCTJPYTD	410		MCTLSTD	C8	
MCTJPYTH	40C		MCTLSTTH	C4	
MCTJPYTP	408		MCTLSTTP	C0	
MCTJPYTU	408		MCTLSTTU	C0	
MCTJQETD	3F8		MCTLSWTD	6BC	
MCTJQETH	3F4		MCTLSWTH	6B8	
MCTJQETP	3F0		MCTLSWTP	6B4	
MCTJQETU	3F0		MCTLSWU	6B4	
MCTJRNTH	1BC		MCTMASTD	428	
MCTJRNTD	1BC		MCTMASTH	424	
MCTJRWD	68C		MCTMASTP	420	
MCTJRWTH	688		MCTMASTU	420	
MCTJRWTP	684		MCTMEMTD	434	
MCTJRWTU	684		MCTMEMTH	430	
MCTJSPTD	404		MCTMEMTP	42C	
MCTJSPTH	400		MCTMEMTU	42C	
MCTJSPTP	3FC		MCTMGTD	74	
MCTJSPTU	3FC		MCTMGTH	70	
MCTJTWD	680		MCTMGTP	6C	
MCTJTWTH	67C		MCTMGU	6C	
MCTJTWTP	678		MCTMODTH	448	
MCTJWTU	678		MCTMODTP	444	
MCTKPNTD	2FC		MCTMPSTD	68	
MCTKPNTH	2F8		MCTMPSTH	64	
MCTKPNTP	2F4		MCTMPSTP	60	
MCTKPNTU	2F4		MCTMPSTU	60	
MCTLEN	6E0	E4	MCTMSGTH	1B0	
MCTLIMTH	1E4		MCTMSGTP	1B0	
MCTLIMTP	1E4		MCTMSMTH	1E8	
MCTLINTD	98		MCTMSMTP	1E8	
MCTLINTH	94		MCTNAUTD	47C	
MCTLINTP	90		MCTNAUTH	478	
MCTLINTU	90		MCTNAUTP	474	
MCTLJRTH	A4		MCTNAUTU	474	
MCTLJRTP	A0		MCTNDPTD	470	
MCTLJRTP	9C		MCTNDPTH	46C	
MCTLJRTP	9C		MCTNDPTP	468	
MCTLJTDD	B0		MCTNDPTU	468	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTNETTD	488		MCTOUTTU	4B0	
MCTNETTH	484		MCTPARTD	3D4	
MCTNETTP	480		MCTPARTH	3D0	
MCTNETTU	480		MCTPARTP	3CC	
MCTNJETD	458		MCTPARTU	3CC	
MCTNJETH	454		MCTPCCTD	4F4	
MCTNJETP	450		MCTPCCTH	4F0	
MCTNJETU	450		MCTPCCTP	4EC	
MCTNODTD	464		MCTPCCTU	4EC	
MCTNODTH	460		MCTPCDTD	50C	
MCTNODTP	45C		MCTPCDTH	508	
MCTNODTU	45C		MCTPCDTP	504	
MCTOFFTD	EC		MCTPCDTU	504	
MCTOFFTH	E8		MCTPCETD	8	
MCTOFFTP	E4		MCTPCETH	4	
MCTOFFTU	E4		MCTPCETP	0	
MCTOFLTD	E0		MCTPCETU	0	
MCTOFLTH	DC		MCTPCNTD	500	
MCTOFLTP	D8		MCTPCNTH	4FC	
MCTOFLTU	D8		MCTPCNTP	4F8	
MCTOJMTD	494		MCTPCNTU	4F8	
MCTOJMTH	490		MCTPCRTD	44	
MCTOJMTP	48C		MCTPCRTH	40	
MCTOJMTU	48C		MCTPCRTP	3C	
MCTOJRTD	F8		MCTPCRTU	3C	
MCTOJRTH	F4		MCTPITTD	3E0	
MCTOJRTP	F0		MCTPITTH	3DC	
MCTOJRTU	F0		MCTPITTP	3D8	
MCTOJTTD	104		MCTPITTU	3D8	
MCTOJTTH	100		MCTPLMTH	1EC	
MCTOJTTP	FC		MCTPLMTP	1EC	
MCTOJTU	FC		MCTPPRTH	1E0	
MCTOPDTD	4AC		MCTPPRTP	1E0	
MCTOPDTH	4A8		MCTPRCTH	1D0	
MCTOPDTP	4A4		MCTPRCTP	1D0	
MCTOPDTU	4A4		MCTPRFTD	638	
MCTOPTTD	5C		MCTPRFTH	634	
MCTOPTTH	58		MCTPRFTP	630	
MCTOPTTP	54		MCTPRFTU	630	
MCTOPTTU	54		MCTPRTTD	128	
MCTOPYTD	4C4		MCTPRTTH	124	
MCTOPYTH	4C0		MCTPRTTP	120	
MCTOPYTP	4BC		MCTPRTTU	120	
MCTOPYTU	4BC		MCTPRWTD	668	
MCTOSMTD	4A0		MCTPRWTH	664	
MCTOSMTH	49C		MCTPRWTP	660	
MCTOSMTP	498		MCTPRWTU	660	
MCTOSMTU	498		MCTPTDTD	518	
MCTOSRTD	110		MCTPTDTH	514	
MCTOSRTH	10C		MCTPTDTP	510	
MCTOSRTP	108		MCTPTDTU	510	
MCTOSRTU	108		MCTPTHTD	4E8	
MCTOSTTD	11C		MCTPTHTH	4E4	
MCTOSTTH	118		MCTPTHTP	4E0	
MCTOSTTP	114		MCTPTHTU	4E0	
MCTOSTTU	114		MCTPUDTD	524	
MCTOTPTD	4D0		MCTPUDTH	520	
MCTOTPTH	4CC		MCTPUDTP	51C	
MCTOTPTP	4C8		MCTPUDTU	51C	
MCTOTPTU	4C8		MCTPUNTD	134	
MCTOUNTH	1F0		MCTPUNTH	130	
MCTOUNTP	1F0		MCTPUNTP	12C	
MCTOUTTD	4B8		MCTPUNTU	12C	
MCTOUTTH	4B4		MCTPUWTD	674	
MCTOUTTP	4B0		MCTPUWTH	670	

\$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTPUWTP	66C		MCTSBDTU	5A0	
MCTPUWTU	66C		MCTSCTTD	560	
MCTRANTH	1C0		MCTSCTTH	55C	
MCTRANTP	1C0		MCTSCTTP	558	
MCTRAUTD	530		MCTSCTTU	558	
MCTRAUTH	52C		MCTSEPTD	5FC	
MCTRAUTP	528		MCTSEPTH	5F8	
MCTRAUTU	528		MCTSEPTP	5F4	
MCTRCNTD	188		MCTSEPTU	5F4	
MCTRCNTH	184		MCTSESTD	2A8	
MCTRCNTP	180		MCTSESTH	2A4	
MCTRCNTU	180		MCTSESTP	2A0	
MCTRCVTD	548		MCTSESTU	2A0	
MCTRCVTH	544		MCTSMFTD	56C	
MCTRCVTP	540		MCTSMFTH	568	
MCTRCVTU	540		MCTSMFTP	564	
MCTRDITD	140		MCTSMFTU	564	
MCTRDITH	13C		MCTSNATD	29C	
MCTRDITP	138		MCTSNATH	298	
MCTRDITU	138		MCTSNATP	294	
MCTRDRTD	14C		MCTSNATU	294	
MCTRDRTH	148		MCTSPCTD	2F0	
MCTRD RTP	144		MCTSPCTH	2EC	
MCTRDRTU	144		MCTSPCTP	2E8	
MCTRDTTD	2C		MCTSPCTU	2E8	
MCTRD TTH	28		MCTSPDTD	584	
MCTRD TTP	24		MCTSPDTH	580	
MCTRD TTU	24		MCTSPDTP	57C	
MCTRDVTD	158		MCTSPDTU	57C	
MCTRDVTH	154		MCTSPLTD	578	
MCTRDVTP	150		MCTSPLTH	574	
MCTRDVTU	150		MCTSPLTP	570	
MCTREDTD	53C		MCTSPLTU	570	
MCTREDTH	538		MCTSRWTD	6A4	
MCTREDTP	534		MCTSRWTH	6A0	
MCTREDTU	534		MCTSRWTP	69C	
MCTRM TTD	554		MCTSRWTU	69C	
MCTRM TTH	550		MCTSSITD	5F0	
MCTRM TTP	54C		MCTSSITH	5EC	
MCTRM TTU	54C		MCTSSITP	5E8	
MCTRNGTH	1C8		MCTSSITU	5E8	
MCTRNGTP	1C8		MCTSTATD	5D8	
MCTRN2TH	1CC		MCTSTATH	5D4	
MCTRN2TP	1CC		MCTSTATP	5D0	
MCTRPRTD	164		MCTSTATU	5D0	
MCTRPRTH	160		MCTSTWTD	698	
MCTRP RTP	15C		MCTSTWTH	694	
MCTRPRTU	15C		MCTSTWTP	690	
MCTRPUTD	170		MCTSTWTU	690	
MCTRPUTH	16C		MCTSTYTD	440	
MCTRPUTP	168		MCTSTYTH	43C	
MCTRPUTU	168		MCTSTYTP	438	
MCTRRDTD	17C		MCTSTYTU	438	
MCTRRDTH	178		MCTSUBTD	194	
MCTRRDTP	174		MCTSUBTH	190	
MCTRRDTU	174		MCTSUBTP	18C	
MCTSAFTH	1D4		MCTSUBTU	18C	
MCTSAFTP	1D4		MCTTGSTD	59C	
MCTSAWTD	6C8		MCTTGSTH	598	
MCTSAWTH	6C4		MCTTGSTP	594	
MCTSAWTP	6C0		MCTTGSTU	594	
MCTSAWTU	6C0		MCTTIDTD	38	
MCTSBDTD	5A8		MCTTIDTH	34	
MCTSB DTH	5A4		MCTTIDTP	30	
MCTSB DTP	5A0		MCTTIDTU	30	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTTLGTD	5E4		MCTVWSTP	1F4	
MCTTLGTH	5E0		MCTXITTD	3B0	
MCTTLGTP	5DC		MCTXITTH	3AC	
MCTTLGTU	5DC		MCTXITTP	3A8	
MCTTPDTD	5B4		MCTXITTU	3A8	
MCTTPDTH	5B0		MCTXRTTH	1B8	
MCTTPDTP	5AC		MCTXRTTP	1B8	
MCTTPDTU	5AC		MCTZJBTD	620	
MCTTRCTD	5C0		MCTZJBTH	61C	
MCTTRCTH	5BC		MCTZJBTP	618	
MCTTRCTP	5B8		MCTZJBTPU	618	
MCTTRCTU	5B8		MCT4KPTD	62C	
MCTTRITD	5CC		MCT4KPTH	628	
MCTTRITH	5C8		MCT4KPTP	624	
MCTTRITP	5C4		MCT4KPTU	624	
MCTTRITU	5C4				
MCTVIATD	608				
MCTVIATH	604				
MCTVIATP	600				
MCTVIATU	600				
MCTVJABH	22C				
MCTVJABP	22C				
MCTVJCTH	214				
MCTVJCTP	214				
MCTVJOFH	21C				
MCTVJOFP	21C				
MCTVJSTH	218				
MCTVJSTP	218				
MCTVJVLH	228				
MCTVJVLP	228				
MCTVKPTD	320				
MCTVKPTH	31C				
MCTVKPTP	318				
MCTVKPTU	318				
MCTVLTDD	314				
MCTVLTTH	310				
MCTVLTTP	30C				
MCTVLTU	30C				
MCTVOJTH	1FC				
MCTVOJTP	1FC				
MCTVOLTH	1D8				
MCTVOLTP	1D8				
MCTVOSTH	1F8				
MCTVOSTP	1F8				
MCTVOWTH	20C				
MCTVOWTP	20C				
MCTVSFTH	208				
MCTVSFTP	208				
MCTVSOFH	220				
MCTVSOFP	220				
MCTVSRTH	200				
MCTVSRTP	200				
MCTVSSTH	210				
MCTVSSTP	210				
MCTVSTTH	204				
MCTVSTTP	204				
MCTVTMTH	1A8				
MCTVTMTP	1A8				
MCTVUNTD	614				
MCTVUNTH	610				
MCTVUNTP	60C				
MCTVUNTU	60C				
MCTVVUDH	224				
MCTVVUDP	224				
MCTVWSTH	1F4				

\$MCT Cross Reference

\$MIT Heading Information

Common Name: Module Information Table
Macro ID: \$MIT
DSECT Name: MIT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'MIT '
 Offset: MITID-MIT
 Length: 4

Storage Attributes: Subpool: The subpool of the load module involved
 Key: The key of the load module involved
 Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MITLNGTH equate and the MITLEN field.
Created by: A MIT is created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup.

Pointed to by: The MIT for a module is at the start of its CSECT. MITs for modules in JES2 multi-csect load modules are pointed to by the \$MODMAP entries. MITs for modules in single-csect load modules, such as exits, are pointed to by the load module's \$LMT control block.

Serialization: MITs should be considered read-only control blocks.
Function: The MITs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.

All JES2 modules must have a MIT at their front, and MTEs at the end.

\$MIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MIT	HASP MODULE INFO TABLE DSECT
0	(0)	CHARACTER	4	MITID	MIT IDENTIFIER FIELD
4	(4)	CHARACTER	8	MITNAME	NAME OF MODULE
12	(C)	CHARACTER	8	MITVRSN	VERSION OF THIS JES2 RELEASE
20	(14)	CHARACTER	8	MITUVRSN	USER VERSION OF THIS JES2 REL
28	(1C)	CHARACTER	8	MITUSER	RESERVED FOR USER
36	(24)	ADDRESS	1	MITCBV	Control block version
36	(24)	X'1 '	0	MITCBVE	"1" Control block version equ
37	(25)	CHARACTER	1	MITENVIR	Module assembly environment
37	(25)	X'D1 '	0	MITENVJ	"C'J" JES2 main task environment
37	(25)	X'E2 '	0	MITENV5	"C'S" JES2 subtask environment
37	(25)	X'E4 '	0	MITENVU	"C'U" all-addrspc USER environ
37	(25)	X'C6 '	0	MITENVF	"C'F" FSS addrspc environment
37	(25)	X'C9 '	0	MITENVI	"C'I" IPCS environment
37	(25)	X'D4 '	0	MITENVM	"C'M" Mixed environs in module
37	(25)	X'C4 '	0	MITENV D	"C'D" Documentation
38	(26)	ADDRESS	2	MITLEN	Length of this MIT
40	(28)	CHARACTER	1	MITMVRSN	VERSION OF THE MACLIBS USED TO ASSEMBLE THIS MODULE, FROM THE SPLEVEL MACRO

\$MIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
41	(29)	ADDRESS	1	MITFLAG1	MIT FLAG 1
41	(29)	BITSTRING	0	MIT1OCO	"B'10000000" O C O module
41	(29)	BITSTRING	0	MIT1BSPL	"B'01000000" Bypass MVS SPLEVEL check during module load
41	(29)	BITSTRING	0	MIT1BMB	"B'00100000" Base module in the IBM JES2 product
41	(29)	BITSTRING	0	MIT1IBMS	"B'00010000" Sample module (e.g. exit) in the IBM JES2 product
41	(29)	BITSTRING	0	MIT1PTF	"B'00001000" PTFNUM field exists
42	(2A)	ADDRESS	2		Reserved for future use
44	(2C)	CHARACTER	8	MITFMID	JES2 SMP product FMID
52	(34)	CHARACTER	8	MITDATE	DATE OF ASSEMBLY
60	(3C)	CHARACTER	5	MITTIME	TIME OF ASSEMBLY
65	(41)	ADDRESS	3	MITMODSZ	Length of assembly module (up through \$MODEND)
68	(44)	ADDRESS	4	MITENTAD	ADDRESS OF MIT ENTRY TABLE
72	(48)	ADDRESS	4	MITXMAPA	Addr of 32 byte (256 bit) bit mask for exit points in this module
76	(4C)	ADDRESS	4	MITAPARN	Pointer to 8 byte APARNUM if it exists, else to this MIT's MITUVRSN field
80	(50)	DBL WORD	8	(0)	ENSURE MIT ENDS ON DOUBLEWORD
80	(50)	X'50	0	MITLNPTH	**"-MIT" Length of a MIT

\$MIT Cross Reference

Name	Hex Offset	Hex Value
MITAPARN	4C	
MITCBV	24	
MITCBVE	24	1
MITDATE	34	
MITENTAD	44	
MITENV D	25	C4
MITENV F	25	C6
MITENV I	25	C9
MITENVIR	25	
MITENVJ	25	D1
MITENV M	25	D4
MITENV S	25	E2
MITENVU	25	E4
MITFLAG1	29	
MITFMID	2C	
MITID	0	
MITLEN	26	
MITLNPTH	50	50
MITMODSZ	41	
MITMVRSN	28	
MITNAME	4	
MITTIME	3C	
MITUSER	1C	
MITUVRSN	14	
MITVRSN	C	
MITXMAPA	48	
MIT1BSPL	29	40
MIT1BMB	29	20
MIT1IBMS	29	10
MIT1OCO	29	80
MIT1PTF	29	8

\$MITETBL Heading Information

Common Name: Module Information Table Entries
Macro ID: \$MITETBL
DSECT Name: MTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: '\$\$\$\$MTES' (as the first MTE's MTENAME)
 Offset: MTENAME of the first MTE - MTE
 Length: 8

Storage Attributes: Subpool: The subpool of the load module involved
 Key: The key of the load module involved
 Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

Size: See the MTELEN equate.

Created by: The MTEs for a module are created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup, the \$ENTRY macro to define the entry points (MTEs), and \$MODEND to perform the module epilog.

Pointed to by: The MTEs for a module are at the end of its CSECT. The MITENDAD field in the module's MIT at the front of module points to the first MTE.

Serialization: MTEs should be considered read-only control blocks.

Function: The MTEs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.

All JES2 modules must have a MIT at their front, and MTEs at the end.

\$MITETBL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTE	HASP MIT ENTRY TABLE DSECT
0	(0)	CHARACTER	8	MTENAME	NAME FROM \$ENTRY
8	(8)	ADDRESS	4	MTEADDR	Address of the entry point
12	(C)	BITSTRING	1	MTEFLAG1	Type of entry pt, multiple flags may be set, or none
12	(C)	BITSTRING	0	MTEF1CAD	"B'10000000" MTEADLOF is CADDR offset
12	(C)	BITSTRING	0	MTEF1COF	"B'01000000" MTEADLOF is an OCOOFFST offset, and that field contains a CADDR offset
12	(C)	BITSTRING	0	MTEF1PAD	"B'00100000" MTEADLOF is PADDR offset
12	(C)	BITSTRING	0	MTEF1POF	"B'00010000" MTEADLOF is an OCOOFFST offset, and that field contains a PADDR offset
12	(C)	BITSTRING	0	MTEF1SSI	"B'00001000" SSI entry point
12	(C)	BITSTRING	0	MTEF1\$EX	"B'00000100" \$EXIT pt #, not callable
12	(C)	BITSTRING	0	MTEF1MCT	"B'00000010" MTEADLOF is MCT table pair offset
12	(C)	BITSTRING	0	MTEF1UCT	"B'00000001" MTEADLOF is UCT table pair offset
13	(D)	CHARACTER	1	MTEENVIR	Assembly environment (see the MITENVIR equates)
14	(E)	BITSTRING	1	MTEFLAG2	More flags
14	(E)	BITSTRING	0	MTEF2TAB	"B'10000000" MTE represents a table
14	(E)	BITSTRING	0	MTEF2DUP	"B'01000000" MTE is a duplicate entry
15	(F)	BITSTRING	1		Reserved for future use

\$MITETBL Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	BITSTRING	2	MTEADLOF	Offset in CADDR, PADDR, or OCOFFST, if any
18	(12)	BITSTRING	1	MTESSI\$E	SSI # minus 1 if MTEF1SSI, or \$EXIT pt # if MTEF1\$EX
19	(13)	BITSTRING	1	MTETBTYP	Table type if MTEF1TAB is set - the type is also used by the \$GETABLE and \$PUTABLE services
19	(13)	X' '	0	MTETPCE	"0" Table is \$PCETAB
19	(13)	X'1 '	0	MTETDCT	"1" Table is \$DCTTAB
19	(13)	X'2 '	0	MTETDTE	"2" Table is \$DTETAB
19	(13)	X'3 '	0	MTETTID	"3" Table is \$TIDTAB
19	(13)	X'4 '	0	MTETPCR	"4" Table is \$PCTAB
19	(13)	X'5 '	0	MTETBERT	"5" Table is \$BERTTAB
19	(13)	X'6 '	0	MTETWST	"6" Table is \$WSTAB
19	(13)	X'7 '	0	MTETSCAN	"7" Table is \$SCANTAB
19	(13)	X'14 '	0	MTELEN	**"MTE" LENGTH OF ENTRY

\$MITETBL Cross Reference

Name	Hex Offset	Hex Value
MTEADDR	8	
MTEADLOF	10	
MTEENVIR	D	
MTEFLAG1	C	
MTEFLAG2	E	
MTEF1\$EX	C	4
MTEF1CAD	C	80
MTEF1COF	C	40
MTEF1MCT	C	2
MTEF1PAD	C	20
MTEF1POF	C	10
MTEF1SSI	C	8
MTEF1UCT	C	1
MTEF2DUP	E	40
MTEF2TAB	E	80
MTELEN	13	14
MTENAME	0	
MTESSI\$E	12	
MTETBERT	13	5
MTETBTYP	13	
MTETDCT	13	1
MTETDTE	13	2
MTETPCE	13	
MTETPCR	13	4
MTETSCAN	13	7
MTETTID	13	3
MTETWST	13	6

\$MLMWORK Heading Information

Common Name: HASP LINE MANAGER PCE WORK AREA DSECT
Macro ID: \$MLMWORK
DSECT Name: PCE
Owning Component: JES2 (SC1BH)
Function: THE MULTI-LEAVING LINE MANAGER PCE WORK AREA (MLMWORK) DSECT DESCRIBES THE PCE WORK AREA FOR THE JES2 MULTI-LEAVING LINE MANAGER PROCESSOR.

\$MLMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP MULTI-LEAVING LINE MANAGER
0	(0)	DBL WORD	8	MLMCLOCK	LINE MANAGER LAST DISPATCH TIME
8	(8)	BITSTRING	0	MLMTQE	LINE MANAGER TIMER QUE ELEMENT
8	(8)	ADDRESS	4	MLMDTIME	LINE MANAGER NEXT DISC LOOK TIME
12	(C)	ADDRESS	4	MLMETIME	LINE MANAGER NEXT AUTOLOGON SCAN TIME
16	(10)	ADDRESS	4	MLMBSCAL	LINE MANAGER ACTIVE BSC LINES PTR
20	(14)	ADDRESS	4	MLMSNALG	LINE MANAGER ACTIVE LOGON DCT PTR
24	(18)	ADDRESS	4	MLMSNAAL	LINE MANAGER ACTIVE LINE DCT PTR
28	(1C)	ADDRESS	4	MLMSNAIL	LINE MANAGER IDLE SNA LINES PTR
32	(20)	ADDRESS	4	MLMLOGQ	LINE MANAGER LOGON DCT QUEUE
36	(24)	ADDRESS	4	MLMICEQ	LINE MANAGER SCHED ICE QUEUE
40	(28)	ADDRESS	4	MLMRPLQ	Line mgr SNA/RPL buffer q
44	(2C)	ADDRESS	4	MLMBSCQ	Line mgr BSC buffer queue
48	(30)	ADDRESS	4	MLMWORKQ	LINE MANAGER ACTIVE WORK QUEUE
52	(34)	ADDRESS	4	MLMASWLQ	Line mgr active SWEL queue

Comment

Posted SWEL queues. These queues must be kept together.

End of Comment

56	(38)	ADDRESS	4	MLMPSWLQ (0)	Line mgr Posted SWEL Queues
56	(38)	ADDRESS	4	MLMPSWLB	Line mgr BSC Posted SWEL Q
60	(3C)	ADDRESS	4	MLMPSWLS	Line mgr SNA Posted SWEL Q
64	(40)	BITSTRING	1	MLMSCANI	LINE MANAGER DCT SCAN INDICATOR
65	(41)	BITSTRING	1	MLMEVNTI	LINE MANAGER GEN EVENT INDICATOR
66	(42)	BITSTRING	1	MLMSCANR	LINE MANAGER REQ SCAN INDICATOR
67	(43)	BITSTRING	1	MLMEVNTR	LINE MANAGER REQ EVENT INDICATOR
68	(44)	ADDRESS	4	MLMSCANA	LINE MANAGER SCAN TABLE ADDRESS
72	(48)	ADDRESS	4	MLMICEQ2	LINE MANAGER RE-SCHED ICE Q
76	(4C)	ADDRESS	2	MLMSEQWK	BSC CPU SEQUENCE CHECK WORK AREA
78	(4E)	ADDRESS	2	MLMFCSWL	FUNCTION CNTL SEQUENCE WORK AREA
80	(50)	ADDRESS	1	MLMCMDTP	BSC RJE CCW COMMAND TYPE
81	(51)	ADDRESS	1	MLMFLAG1	LINE MANAGER FLAGS
82	(52)	SIGNED	2	MLMICESQ	Current ICE trace seq numb
84	(54)	SIGNED	4	MLMXPARM (0)	EXIT POINT PARAMETER LIST
84	(54)	SIGNED	4	MLMXRAT	ADDRESS OF RAT TABLE OR ENTRY
88	(58)	SIGNED	4	MLMXLDCT	ADDRESS OF LINE DCT
92	(5C)	SIGNED	4	MLMXICE	ADDRESS OF ICE FOR SNA
96	(60)	SIGNED	4	MLMXCRDA	ADDRESS OF CARD IMAGE
100	(64)	SIGNED	4	MLMXCRDL	LENGTH OF CARD IMAGE
104	(68)	CHARACTER	80	MLMSONCD	SIGN-ON CARD INPUT AREA
184	(B8)	CHARACTER	1	MLMLGWRK	Logon/Signon work space
184	(B8)	X' '	0	MLMLGNAM	"CAPENAM-CAPE+MLMLGWRK" Remote terminal name
184	(B8)	X' '	0	MLMLGLPW	"CAPELPW-CAPE+MLMLGWRK" Line group password

\$MLMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
184	(B8)	X' '	0	MLMLGRPW	"CAPERPW-CAPE+MLMLGWRK" Terminal Remote Pswd
184	(B8)	X' '	0	MLMLGNPW	"CAPENPW-CAPE+MLMLGWRK" Terminal New Password
184	(B8)	X' '	0	MLMLGRMT	"CAPEUID-CAPE+MLMLGWRK" Short form rmt name
184	(B8)	SIGNED	4	(0)	ALIGN TO FULLWORD
184	(B8)	CHARACTER	0	MLMSODCT	BASIC DUMMY RMT DCT
184	(B8)	ADDRESS	4	MLMWRKIQ	Line Mgr SNA/ICE work queue
188	(BC)	SIGNED	4	MLMQTTIM	Time of buffer q truncation
192	(C0)	BITSTRING	1	MLMTWORK	Work area for ICE trace
192	(C0)	X' '	0	MLMLEN	**"PCEWORK" LENGTH OF PCE WORK SPACE

Comment

MLMSCANI/MLMSCANR

End of Comment

192	(C0)	BITSTRING	0	MLMSBUNT	"B'10000000" SCAN INACTIVE BSC LINE DCT
192	(C0)	BITSTRING	0	MLMSBACT	"B'01000000" SCAN ACTIVE BSC LINE DCTS
192	(C0)	BITSTRING	0	MLMSSIDL	"B'00100000" SCAN IDLE SNA LINE DCTS
192	(C0)	BITSTRING	0	MLMSSLOG	"B'00010000" SCAN ACTIVE SNA LOGON DCTS
192	(C0)	BITSTRING	0	MLMSSLNE	"B'00001000" SCAN ACTIVE SNA LINE DCTS
192	(C0)	BITSTRING	0	MLMSSALL	"B'00011000" SCAN ACTIVE SNA LOGON/LINE
192	(C0)	BITSTRING	0	MLMSRAT	"B'00000100" SCAN RAT
192	(C0)	BITSTRING	0	MLMSSUNT	"B'00000010" SCAN INACTIVE SNA LINE/LOGON DCTS

Comment

MLMEVNTI/MLMEVNTR

End of Comment

192	(C0)	BITSTRING	0	MLMEPJOB	"B'10000000" EVENT \$JOT POST OCCURED
192	(C0)	BITSTRING	0	MLMETIME	"B'01000000" EVENT TIMER INTERRUPT OCCURED
192	(C0)	BITSTRING	0	MLMEDISC	"B'00100000" EVENT DISCON INTERVAL OCCURED
192	(C0)	BITSTRING	0	MLMEALM	"B'00010000" A REMOTE IS IN AUTOLOGON MODE
192	(C0)	BITSTRING	0	MLMEMXSS	"B'00001000" MAXSESS HAS BEEN EXCEEDED
192	(C0)	BITSTRING	0	MLMECKPT	"B'00000100" CHECKPOINT POST OCCURED

Comment

MLMFLAG1

End of Comment

192	(C0)	BITSTRING	0	MLM1LOGI	"B'10000000" RPL DIAGNOSTIC LOGGING INDICATOR
192	(C0)	BITSTRING	0	MLM1WRK1	"B'01000000" MULTI-PURPOSE WORK FLAG
192	(C0)	BITSTRING	0	MLM1TIST	"B'00100000" ONE SECOND INTERVAL TIMER SET
192	(C0)	BITSTRING	0	MLM1TIRQ	"B'00010000" ONE SECOND TIMER REQUESTED
192	(C0)	BITSTRING	0	MLM1PWIG	"B'00001000" New password ignored msg
192	(C0)	BITSTRING	0	MLM1LOJS	"B'00000100" Logon decision by JES2
192	(C0)	BITSTRING	0	MLM1PNPM	"B'00000010" MLLM should post NPM
192	(C0)	BITSTRING	0	MLM1DERR	"B'00000001" MLLM has checked for double-queued buffer

\$MLMWORK Cross Reference

Name	Hex Offset	Hex Value
MLMASWLQ	34	
MLMATIME	C	
MLMBSCAL	10	
MLMBSCQ	2C	
MLMCLOCK	0	
MLMCMDTP	50	
MLMDTIME	8	
MLMEALM	C0	10
MLMECKPT	C0	4
MLMEDISC	C0	20
MLMEMXSS	C0	8
MLMEPJOB	C0	80
MLMETIME	C0	40
MLMEVNTI	41	
MLMEVNTR	43	
MLMFCSWL	4E	
MLMFLAG1	51	
MLMICEQ	24	
MLMICEQ2	48	
MLMICESQ	52	
MLMLEN	C0	
MLMLGLPW	B8	
MLMLGNAM	B8	
MLMLGNPW	B8	
MLMLGRMT	B8	
MLMLGRPW	B8	
MLMLGWRK	B8	
MLMLOGQ	20	
MLMPSWLB	38	
MLMPSWLQ	38	
MLMPSWLS	3C	
MLMQTTIM	BC	
MLMRPLQ	28	
MLMSBACT	C0	40
MLMSBUNT	C0	80
MLMSCANA	44	
MLMSCANI	40	
MLMSCANR	42	
MLMSEQWK	4C	
MLMSNAAL	18	
MLMSNAIL	1C	
MLMSNALG	14	
MLMSODCT	B8	
MLMSONCD	68	
MLMSRAT	C0	4
MLMSSALL	C0	18
MLMSSIDL	C0	20
MLMSSLNE	C0	8
MLMSSLOG	C0	10
MLMSSUNT	C0	2
MLMTQE	8	
MLMTWORK	C0	
MLMWORKQ	30	
MLMWRKIQ	B8	
MLMXCRDA	60	
MLMXCRDL	64	
MLMXICE	5C	
MLMXLDCT	58	
MLMXPARM	54	
MLMXRAT	54	
MLM1DERR	C0	1
MLM1LOGI	C0	80
MLM1LOJS	C0	4

Name	Hex Offset	Hex Value
MLM1PNPM	C0	2
MLM1PWIG	C0	8
MLM1TIRQ	C0	10
MLM1TIST	C0	20
MLM1WRK1	C0	40

\$MLMWORK Cross Reference

\$MODMAP Heading Information

Common Name: Module map for HASJES20 and HASPINIT
Macro ID: \$MODMAP
DSECT Name: MAP
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: The subpool of the HASJES20 load module
 Key: 1
 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.
Size: See the MAPLEN equate.
Created by: The MODMAP is created by assembly of the HASPTABS module in the HASJES20 load module.
Pointed to by: The \$HASPMPMAP field in the \$HCT data area points to the MODMAP.
Serialization: The MODMAP should usually be considered as read-only. Exceptions to this are the times when the HASPINIT load module is loaded and deleted, and when the REP facility establishes a REP BASE.
Function: The MODMAP is used to provide a csect-granular map of the JES2 multi-csect load modules. The multi-csect load modules are HASJES20 and HASPINIT. All other JES2 modules, both for the IBM base JES2 product and for installation exits, are represented by LMT control blocks instead.

The MODMAP also contains entry point addresses for main-task processors and subtasks in the JES2 address space.

\$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MAP	HASP MODULE DIRECTORY DSECT
0	(0)	X' '	0	MAPMOD1	*** START OF MODMAP ENTRIES
0	(0)	CHARACTER	8	MAPABS	(not code, for REPs only)
16	(10)	CHARACTER	8	MAPARM	
32	(20)	CHARACTER	8	MAPARMO	
48	(30)	CHARACTER	8	MAPBSC	
64	(40)	CHARACTER	8	MAPCFAL	
80	(50)	CHARACTER	8	MAPCFBF	
96	(60)	CHARACTER	8	MAPCFDE	
112	(70)	CHARACTER	8	MAPCFE	
128	(80)	CHARACTER	8	MAPCFFC	
144	(90)	CHARACTER	8	MAPCFLE	
160	(A0)	CHARACTER	8	MAPCFMT	
176	(B0)	CHARACTER	8	MAPCFQL	
192	(C0)	CHARACTER	8	MAPCFQU	
208	(D0)	CHARACTER	8	MAPCFRD	
224	(E0)	CHARACTER	8	MAPCFRE	
240	(F0)	CHARACTER	8	MAPCFRL	
256	(100)	CHARACTER	8	MAPCFRS	
272	(110)	CHARACTER	8	MAPCFR2	
288	(120)	CHARACTER	8	MAPCFSI	
304	(130)	CHARACTER	8	MAPCFT1	
320	(140)	CHARACTER	8	MAPCFUN	

\$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
336	(150)	CHARACTER	8	MAPCFWP	
352	(160)	CHARACTER	8	MAPCFWR	
368	(170)	CHARACTER	8	MAPCKCF	
384	(180)	CHARACTER	8	MAPCKDS	
400	(190)	CHARACTER	8	MAPCKPT	
416	(1A0)	CHARACTER	8	MAPCKRR	
432	(1B0)	CHARACTER	8	MAPCKVR	
448	(1C0)	CHARACTER	8	MAPCNVS	
464	(1D0)	CHARACTER	8	MAPCNVT	
480	(1E0)	CHARACTER	8	MAPCOMM	
496	(1F0)	CHARACTER	8	MAPCON	
512	(200)	CHARACTER	8	MAPCSV	
528	(210)	CHARACTER	8	MAPDYN	
544	(220)	CHARACTER	8	MAPEVTL	
560	(230)	CHARACTER	8	MAPFSSP	
576	(240)	CHARACTER	8	MAPHCCT	(not code, for REPs only)
592	(250)	CHARACTER	8	MAPHOPE	
608	(260)	CHARACTER	8	MAPIRA	
608	(260)	X'60 00008'	0	MAPINIT	"MAPIRA,8,C'C"
624	(270)	CHARACTER	8	MAPIRDA	
640	(280)	CHARACTER	8	MAPIRMA	
656	(290)	CHARACTER	8	MAPIRPL	
672	(2A0)	CHARACTER	8	MAPIRRE	
688	(2B0)	CHARACTER	8	MAPIRSI	
704	(2C0)	CHARACTER	8	MAPJOS	
720	(2D0)	CHARACTER	8	MAPJQS	
736	(2E0)	CHARACTER	8	MAPMISC	
752	(2F0)	CHARACTER	8	MAPMSG	
768	(300)	CHARACTER	8	MAPNATS	
784	(310)	CHARACTER	8	MAPNET	
800	(320)	CHARACTER	8	MAPNJT	
816	(330)	CHARACTER	8	MAPNPM	
832	(340)	CHARACTER	8	MAPNSR	
848	(350)	CHARACTER	8	MAPNST	
864	(360)	CHARACTER	8	MAPNUC	
880	(370)	CHARACTER	8	MAPODSM	
896	(380)	CHARACTER	8	MAPPRPU	
912	(390)	CHARACTER	8	MAPPSSO	
928	(3A0)	CHARACTER	8	MAPRAS	
944	(3B0)	CHARACTER	8	MAPRDR	
960	(3C0)	CHARACTER	8	MAPRTAM	
976	(3D0)	CHARACTER	8	MAPSASR	
992	(3E0)	CHARACTER	8	MAPSCAN	
1008	(3F0)	CHARACTER	8	MAPSERV	
1024	(400)	CHARACTER	8	MAPSIR	
1040	(410)	CHARACTER	8	MAPSJFR	
1056	(420)	CHARACTER	8	MAPSNA	
1072	(430)	CHARACTER	8	MAPSPIN	
1088	(440)	CHARACTER	8	MAPSPOL	
1104	(450)	CHARACTER	8	MAPSSRV	
1120	(460)	CHARACTER	8	MAPSTAB	
1136	(470)	CHARACTER	8	MAPSTAC	
1152	(480)	CHARACTER	8	MAPSTAM	
1168	(490)	CHARACTER	8	MAPSTUB	
1184	(4A0)	CHARACTER	8	MAPSUBS	
1200	(4B0)	CHARACTER	8	MAPSXDV	
1216	(4C0)	CHARACTER	8	MAPSXIT	
1232	(4D0)	CHARACTER	8	MAPSXJB	
1248	(4E0)	CHARACTER	8	MAPSXNJ	
1264	(4F0)	CHARACTER	8	MAPSXOT	
1280	(500)	CHARACTER	8	MAPTABS	
1296	(510)	CHARACTER	8	MAPTERM	
1312	(520)	CHARACTER	8	MAPTRAK	
1328	(530)	CHARACTER	8	MAPWARM	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1344	(540)	CHARACTER	8	MAPXCF	
1360	(550)	CHARACTER	8	MAPXEQ	
1360	(550)	X' '	0	MAP#J2M	"(*-MAPMOD1)/MAPENTL" NUMBER OF JES2 MODULES

Comment

TABLE OF USER EXIT MODULES LINKED WITH HASJES20.
 THESE ARE DEFINED AS WEAK EXTERNAL SYMBOLS BELOW.
 THE TABLE INCLUDES THE SPECIAL ENTRY FOR HASPXIT0, WHICH
 MAY BE LINKEDITED IN THE HASPINIT LOAD MODULE INSTEAD - IF
 SO, HASPINIT UPDATES THIS MODMAP ENTRY AND THE REP FACILITY
 WILL FUNCTION FOR THAT MODULE. THE HASPXIT0 STORAGE WILL
 BE DELETED WITH HASPINIT IF LINKEDITED WITH HASPINIT, AND
 WILL REMAIN IN STORAGE IF LINKEDITED WITH HASJES20 OR IF
 LOADED IN ITS OWN LOAD MODULE BY HASPINIT.

End of Comment

1376	(560)	CHARACTER	8	MAPJXMOD	
1392	(570)	CHARACTER	8		
1408	(580)	CHARACTER	8		
1424	(590)	CHARACTER	8		
1440	(5A0)	CHARACTER	8		
1456	(5B0)	CHARACTER	8		
1472	(5C0)	CHARACTER	8		
1488	(5D0)	CHARACTER	8		
1504	(5E0)	CHARACTER	8		
1520	(5F0)	CHARACTER	8		
1536	(600)	CHARACTER	8		
1552	(610)	CHARACTER	8		
1568	(620)	CHARACTER	8		
1584	(630)	CHARACTER	8		
1600	(640)	CHARACTER	8		
1616	(650)	CHARACTER	8		
1632	(660)	CHARACTER	8		
1648	(670)	CHARACTER	8		
1664	(680)	CHARACTER	8		
1680	(690)	CHARACTER	8		
1696	(6A0)	CHARACTER	8		
1712	(6B0)	CHARACTER	8		
1728	(6C0)	CHARACTER	8		
1744	(6D0)	CHARACTER	8		
1760	(6E0)	CHARACTER	8		
1776	(6F0)	CHARACTER	8		
1792	(700)	CHARACTER	8		
1808	(710)	CHARACTER	8		
1824	(720)	CHARACTER	8		
1840	(730)	CHARACTER	8		
1856	(740)	CHARACTER	8		
1872	(750)	CHARACTER	8		
1888	(760)	CHARACTER	8	MAPEXIT0	
1888	(760)	X'10	0	MAPJXLEN	** -MAPJXMOD" LENGTH OF LINKED MODULE TABLE
1888	(760)	X' '	0	MAPJXCNT	"MAPJXLEN/MAPENTL" NUMBER OF INSTALLATION ENTRIES
1888	(760)	X' '	0	MAPMODS	"(*-MAPMOD1)/MAPENTL" NUMBER OF REP TABLE ENTRIES
1904	(770)	BITSTRING	8		ZERO ENTRY FOR \$SCANTAB

Comment

MISCELLANEOUS ENTRY POINT ADDRESSES
 FOR SUBTASKS, IOS ROUTINES, ETC.

End of Comment

1920	(780)	ADDRESS	4	MAPACCTA	"V(HASPACCT)" ADDR OF HASPACCT SUBTASK
------	-------	---------	---	----------	--

\$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1924	(784)	ADDRESS	4	MAPSPLA	"V(HOSPOOL)" ADDR OF SPOOL ALLOCATION SUBTASK
1928	(788)	ADDRESS	4	MAPWTOA	"V(\$HASPWTO)" ADDR OF HASP WTO SUBTASK
1932	(78C)	ADDRESS	4	MAPIMAGA	"V(HASPIMAG)" ADDR OF IMAGE LOADER SUBTASK
1936	(790)	ADDRESS	4	MAPVTAMA	"V(HASPV TAM)" ADDR OF HASP VTAM INTERFACE
1940	(794)	ADDRESS	4	MAPALOCA	"V(HOSALLOC)" ADDR OF ALLOCATION TASK
1944	(798)	ADDRESS	4	MAPCNVA	"V(HOSCNAV T)" ADDR OF CONVERT SUBTASK
1948	(79C)	ADDRESS	4	MAPOFFA	"V(HASPOFF)" ADDR OF OFFLOAD SUBTASK
1952	(7A0)	BITSTRING	1	MAPCKCFA	Addr of CKPT on CF subtsk
1956	(7A4)	BITSTRING	1	MAPCKVRA	ADDR OF CKPT VERSN SUBTSK
1960	(7A8)	ADDRESS	4	MAPSUBSA	"V(HA\$PSUBS)" ADDR OF GENL SUBTASK
1964	(7AC)	ADDRESS	4	MAPODSMX	"V(ODSMEXC)" ADDR OF SWBMOD PC ROUTINE
1968	(7B0)	ADDRESS	4	MAPODSMR	"V(ODSMEST)" ADDR OF SWBMOD PC ARR
1972	(7B4)	ADDRESS	4	MAPATTNA	"V(HASPATTN)" ADDR OF HASP ATTENTION ROUTINE
1976	(7B8)	ADDRESS	4	MAPPXITA	"V(HASPPXIT)" ADDR OF HASP POST EXIT ROUTINE
1980	(7BC)	ADDRESS	4	MAPIOAPG	"V(\$IOAPPEN)" ADDR OF I/O APPENDAGE TABLE

Comment

TABLE OF HASP PROCESSOR ENTRY POINT ADDRESSES. THESE
FIELDS ARE POINTED TO BY \$PCETAB ENTRIES IN HASPTABS.

End of Comment

1984	(7C0)	ADDRESS	4	MAPRDR	"V(HA\$PRDR)" READERNN PROCESSOR
1988	(7C4)	ADDRESS	4	MAPASYNA	"V(\$ASYNC)" ASYNCH I/O PROCESSOR
1992	(7C8)	ADDRESS	4	MAPCNVTA	"V(HA\$PCNVT)" JCL CONVERSION PROCESSOR
1996	(7CC)	ADDRESS	4	MAPEXECA	"V(HASPEXEC)" EXECUTION PROCESSOR
2000	(7D0)	ADDRESS	4	MAPSTACA	"V(HA\$PSTAC)" STATUS/CANCEL PROCESSOR
2004	(7D4)	ADDRESS	4	MAPPSOA	"V(HA\$PPSO)" PSO PROCESSOR
2008	(7D8)	ADDRESS	4	MAPHOPEA	"V(HA\$PHOPE)" OUTPUT PROCESSOR
2012	(7DC)	ADDRESS	4	MAPPURUA	"V(HASPPPI1)" PRINT/PUNCH PROCESSOR
2016	(7E0)	ADDRESS	4	MAPPURGA	"V(HASPVPRG)" PURGE PROCESSOR
2020	(7E4)	ADDRESS	4	MAPPCOMMA	"V(HA\$PCOMM)" COMMAND PROCESSOR
2024	(7E8)	ADDRESS	4	MAPMLLMA	"V(HASPMLLM)" LINE MANAGER PROCESSOR
2028	(7EC)	ADDRESS	4	MAPTIMEA	"V(\$TIMER)" STIMER PROCESSOR
2032	(7F0)	ADDRESS	4	MAPCKPTA	"V(HA\$PCKPT)" CHECKPOINT PROCESSOR
2036	(7F4)	ADDRESS	4	MAPSPINA	"V(HA\$PSPIN)" SPIN PROCESSOR
2040	(7F8)	ADDRESS	4	MAPPRTYA	"V(HASPGPRC)" PRIORITY AGING PROCESSOR
2044	(7FC)	ADDRESS	4	MAPPRIOA	"V(HASPGOPR)" OUTPUT PRIO AGING PROCESSOR
2048	(800)	ADDRESS	4	MAPWARMA	"V(HA\$PWARM)" WARM START PROCESSOR
2052	(804)	ADDRESS	4	MAPNJTA	"V(HA\$PNJT)" JOB TRANSMITTER PROCESSOR
2056	(808)	ADDRESS	4	MAPNJRA	"V(HA\$PRDR)" JOB RECEIVER PROCESSOR
2060	(80C)	ADDRESS	4	MAPNSTA	"V(HA\$PNST)" SYSOUT TRANSMITTR PROCESSOR
2064	(810)	ADDRESS	4	MAPNSRA	"V(HA\$PNSR)" SYSOUT RECEIVER PROCESSOR
2068	(814)	ADDRESS	4	MAPNPMA	"V(HASPNPMP)" NETWORK PATH MGR PROCESSOR
2072	(818)	ADDRESS	4	MAPMCONA	"V(HASPMCON)" REMOTE CONSOLE PROCESSOR
2076	(81C)	ADDRESS	4	MAPXTIMA	"V(HASPTIME)" TIME EXCESSION PROCESSOR
2080	(820)	ADDRESS	4	MAPEVTLA	"V(HA\$PEVTL)" EVENT TRACE LOG PROCESSOR
2084	(824)	ADDRESS	4	MAPXFRMA	"V(HASPXFRM)" XFR I/O MANAGER PROCESSOR
2088	(828)	ADDRESS	4	MAPSPOLA	"V(HA\$PSPOL)" SPOOL MANAGER PROCESSOR
2092	(82C)	ADDRESS	4	MAPNRRRA	"V(HA\$PRDR)" ROUTE RECEIVER PROCESSOR
2096	(830)	ADDRESS	4	MAPNRTA	"V(HA\$PNJT)" ROUTE TRANSMITTER PROCESSOR
2100	(834)	ADDRESS	4	MAPRESMA	"V(HASPRESM)" RESOURCE MANAGER PROCESSOR
2104	(838)	ADDRESS	4	MAPSFSRA	"V(HA\$PSJFR)" SCHEDULER SERVICES PROCSR
2108	(83C)	ADDRESS	4	MAPFSSPA	"V(HA\$PFSSP)" FSS SERVICE PROCESSOR
2112	(840)	ADDRESS	4	MAPFCL	"V(FCLEANUP)" FSS CLEANUP ON EOM
2116	(844)	ADDRESS	4	MAPJCMD	"V(COMJCMD)" Job command processor
2120	(848)	ADDRESS	4	MAPXCFA	"V(HA\$PXCF)" XCF COUPLING PROCESSOR
2124	(84C)	ADDRESS	4	MAPXCMA	"V(XCMMAIN)" XCF Command Processor
2128	(850)	ADDRESS	4	MAPARMSA	"V(HA\$PARM)" ARM SUPPORT PROCESSOR
2132	(854)	ADDRESS	4	MAPSNF	"V(HA\$PSNF)" SPOOL Management Processor
2136	(858)	ADDRESS	4	MAPSPI	"V(HA\$PSASR)" Sysout API Processor
2140	(85C)	ADDRESS	4	MAPDILSA	"V(HA\$PDILB)" BERT lock POST Processor
2144	(860)	ADDRESS	4	MAPENFA	"V(HA\$PENF)" ENF LISTEN Processor
2144	(860)	X'64	0	MAPLEN	** -MAP" MODMAP LENGTH

\$MODMAP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MAP#J2M	550		MAPIRMA	280	C8C1E2D7
MAPABS	0	C8C1E25B	MAPIRPL	290	C8C1E2D7
MAPACCTA	780		MAPIRRE	2A0	C8C1E2D7
MAPALOCA	794		MAPIRSI	2B0	C8C1E2D7
MAPARM	10	C8C1E2D7	MAPJCMD	844	
MAPARMO	20	C8C1E2D7	MAPJOS	2C0	C8C1E2D7
MAPARMSA	850		MAPJQS	2D0	C8C1E2D7
MAPASYNA	7C4		MAPJXCNT	760	
MAPATTNA	7B4		MAPJXLEN	760	10
MAPBSC	30	C8C1E2D7	MAPJXMOD	560	C8C1E2D7
MAPCFAL	40	C8C1E2D7	MAPLEN	860	64
MAPCFBF	50	C8C1E2D7	MAPMCONA	818	
MAPCFDE	60	C8C1E2D7	MAPMISC	2E0	C8C1E2D7
MAPCFE	70	C8C1E2D7	MAPMLLMA	7E8	
MAPCFFC	80	C8C1E2D7	MAPMODS	760	
MAPCFLE	90	C8C1E2D7	MAPMOD1	0	
MAPCFMT	A0	C8C1E2D7	MAPMSG	2F0	C8C1E2D7
MAPCFQL	B0	C8C1E2D7	MAPNATS	300	C8C1E2D7
MAPCFQU	C0	C8C1E2D7	MAPNET	310	C8C1E2D7
MAPCFRD	D0	C8C1E2D7	MAPNJRA	808	
MAPCFRE	E0	C8C1E2D7	MAPNJT	320	C8C1E2D7
MAPCFRL	F0	C8C1E2D7	MAPNJTA	804	
MAPCFRS	100	C8C1E2D7	MAPNPM	330	C8C1E2D7
MAPCFR2	110	C8C1E2D7	MAPNPMA	814	
MAPCFSI	120	C8C1E2D7	MAPNRRRA	82C	
MAPCFT1	130	C8C1E2D7	MAPNRTA	830	
MAPCFUN	140	C8C1E2D7	MAPNSR	340	C8C1E2D7
MAPCFWP	150	C8C1E2D7	MAPNSRA	810	
MAPCFWR	160	C8C1E2D7	MAPNST	350	C8C1E2D7
MAPCKCF	170	C8C1E2D7	MAPNSTA	80C	
MAPCKCFA	7A0	80000000	MAPNUC	360	C8C1E2D7
MAPCKDS	180	C8C1E2D7	MAPODSM	370	C8C1E2D7
MAPCKPT	190	C8C1E2D7	MAPODSMR	7B0	
MAPCKPTA	7F0		MAPODSMX	7AC	
MAPCKRR	1A0	C8C1E2D7	MAPOFFA	79C	
MAPCKVR	1B0	C8C1E2D7	MAPPRIOA	7FC	
MAPCKVRA	7A4	80000000	MAPPRPU	380	C8C1E2D7
MAPCNVA	798		MAPPRPUA	7DC	
MAPCNVS	1C0	C8C1E2D7	MAPPRTYA	7F8	
MAPCNVT	1D0	C8C1E2D7	MAPPSO	390	C8C1E2D7
MAPCNVTA	7C8		MAPPSOA	7D4	
MAPCOMM	1E0	C8C1E2D7	MAPPURGA	7E0	
MAPCOMMA	7E4		MAPPXITA	7B8	
MAPCON	1F0	C8C1E2D7	MAPRAS	3A0	C8C1E2D7
MAPCSV	200	C8C1E2D7	MAPRDR	3B0	C8C1E2D7
MAPDILSA	85C		MAPRDRA	7C0	
MAPDYN	210	C8C1E2D7	MAPRESMA	834	
MAPENFA	860		MAPRTAM	3C0	C8C1E2D7
MAPEVTL	220	C8C1E2D7	MAPSASR	3D0	C8C1E2D7
MAPEVTLA	820		MAPSCAN	3E0	C8C1E2D7
MAPEXECA	7CC		MAPSERV	3F0	C8C1E2D7
MAPEXIT0	760	C8C1E2D7	MAPSFSRA	838	
MAPFCL	840		MAPSIR	400	C8C1E2D7
MAPFSSP	230	C8C1E2D7	MAPSJFR	410	C8C1E2D7
MAPFSSPA	83C		MAPSNA	420	C8C1E2D7
MAPHCCT	240	C8C1E25B	MAPSNF	854	
MAPHOPE	250	C8C1E2D7	MAPSPI	858	
MAPHOPEA	7D8		MAPSPIN	430	C8C1E2D7
MAPIMAGA	78C		MAPSPINA	7F4	
MAPINIT	260	60 00008	MAPSPLA	784	
MAPIOAPG	7BC		MAPSPOL	440	C8C1E2D7
MAPIRA	260	C8C1E2D7	MAPSPOLA	828	
MAPIRDA	270	C8C1E2D7	MAPSSRV	450	C8C1E2D7

\$MODMAP Cross Reference

Name	Hex Offset	Hex Value
MAPSTAB	460	C8C1E2D7
MAPSTAC	470	C8C1E2D7
MAPSTACA	7D0	
MAPSTAM	480	C8C1E2D7
MAPSTUB	490	C8C1E2D7
MAPSUBS	4A0	C8C1E2D7
MAPSUBSA	7A8	
MAPSXDV	4B0	C8C1E2D7
MAPSXIT	4C0	C8C1E2D7
MAPSXJB	4D0	C8C1E2D7
MAPSXNJ	4E0	C8C1E2D7
MAPSXOT	4F0	C8C1E2D7
MAPTABS	500	C8C1E2D7
MAPTERM	510	C8C1E2D7
MAPTIMEA	7EC	
MAPTRAK	520	C8C1E2D7
MAPVTAMA	790	
MAPWARM	530	C8C1E2D7
MAPWARMA	800	
MAPWTOA	788	
MAPXCF	540	C8C1E2D7
MAPXCFA	848	
MAPXCMA	84C	
MAPXEQ	550	C8C1E2D7
MAPXFRMA	824	
MAPXTIMA	81C	

\$MTQH Heading Information

Common Name: Main Task Queue Header
Macro ID: \$MTQH
DSECT Name: MTQH
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MTQH
 Offset: MTQHID-MTQH
 Length: L'MTQHID

Storage Attributes: Subpool: 241 (CSA, not fetch protected)
 Key: 1
 Residency: anywhere

Size: See MTQHSIZE
Created by: Users of \$RQUE services
Pointed to by: CCTPJCLQ field of the \$HCCT data area
 CCTSAPIQ field of the \$HCCT data area

Serialization: Serialization is controlled through the \$RQUE service. Refer to the line comments for details about specific fields.

Function: Represents a queue of requests for a main task service. Used in conjunction with the \$RQUE services.

\$MTQH Map

Offsets

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

Comment

 The following fields are set by the creator of the MTQH. They cannot be altered after the MTQH is created.

End of Comment

0	(0)	CHARACTER	4	MTQHID	Data area identifier
4	(4)	SIGNED	2	MTQHLEN	Length of MTQH
6	(6)	BITSTRING	1	MTQHVER	Version number
6	(6)	X'1	0	MTQHCVER	"1" Current version number
7	(7)	BITSTRING	1	MTQHRSC	JES2 resource to post to have a request processed (\$DRxxxx value)

Comment

 The following fields are internal to the \$RQUE services.

End of Comment

8	(8)	BITSTRING	8	MTQHPEND (0)	Pending work queues
8	(8)	ADDRESS	4	MTQHLLIFO	Address of first LIFO MTRB SERIALIZATION: compare and swap
12	(C)	ADDRESS	4	MTQHFIFO	Address of first FIFO MTRB SERIALIZATION: none, changed by main task only

\$MTQH Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	ADDRESS	4	MTQHACT	Address of first active MTRB SERIALIZATION: none, changed by main task only
16	(10)	X'14	0	MTQHSIZE	"*-MTQH" Length of MTQH

\$MTQH Cross Reference

Name	Hex Offset	Hex Value
MTQHACT	10	
MTQHCVVER	6	1
MTQHFIFO	C	
MTQHID	0	D4E3D8C8
MTQHLEN	4	
MTQHLIFO	8	
MTQHPEND	8	
MTQHRSC	7	
MTQHSIZE	10	14
MTQHVER	6	

\$MTRB Heading Information

Common Name: Main Task Request Block
Macro ID: \$MTRB
DSECT Name: MTRB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: MTRB
 Offset: MTRBID-MTRB
 Length: L'MTRBID

Storage Attributes: Subpool: 231 (subpool used by \$GETCEL)
 Key: 1
 Residency: anywhere

Size: See MTRBSIZE
Created by: Users of \$RQUE services
Pointed to by: the MTRBNEXT field of the MTRB data area
 the MTQH LIFO, MTQH FIFO, and MTQHACT fields of the
 MTQH data area

Serialization: Serialization is controlled through the \$RQUE
 service. SSI and main task callers have the
 following access to an MTRB:
 SSI caller: The caller has exclusive control of
 the MTRB before and after the call to the EXE
 function. If the caller is abended while within
 the EXE function, the caller's recovery routine
 is obligated to call the CMP function to wait
 for the request to complete before using or
 freeing the MTRB.
 Main task caller: The caller has exclusive
 control of the MTRB that is returned by the GET
 function. The caller gives up control of the
 MTRB when invoking the RET function.

Function: Represents a request for a main task service.
 Used in conjunction with the \$RQUE services.

\$MTRB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTRB	,
Comment					
<p>----- The following fields can be used by callers of the \$RQUE services. -----</p>					
End of Comment					
0	(0)	SIGNED	4	MTRBCCE	Address of cell control element if storage for MTRB was obtained using \$GETCEL service, else 0
4	(4)	CHARACTER	4	MTRBID	Data area identifier
8	(8)	SIGNED	2	MTRBLEN	Length of MTRB
10	(A)	BITSTRING	1	MTRBVER	Version number
10	(A)	X'1'	0	MTRBCVER	"1" Current version number
11	(B)	BITSTRING	1	MTRBRSV1	Reserved for future use
12	(C)	ADDRESS	4	MTRBPARM	Address of request-specific control block

\$MTRB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	4	MTRBPID	Identifier of request-specific control block
20	(14)	SIGNED	4	MTRBRC	Return code
24	(18)	CHARACTER	4	MTRBRSV2	Reserved for future use

Comment

 The following fields are internal to the \$RQUE services.

End of Comment

28	(1C)	ADDRESS	4	MTRBQUE	Address of queue header (helps locating queue in a dump)
32	(20)	ADDRESS	4	MTRBNEXT	Address of next MTRB on queue
36	(24)	SIGNED	4	MTRBECB	ECB posted on completion of request
40	(28)	CHARACTER	12	MTRBXMPL (0)	XMPOST parameter list
40	(28)	ADDRESS	4	MTRBECBP	Pointer to the ECB
44	(2C)	ADDRESS	4	MTRBASCB	Pointer to the ASCB
48	(30)	ADDRESS	4	MTRBERRT	Pointer to an error routine
52	(34)	BITSTRING	1	MTRBFLG1	Flags SERIALIZATION: None.
52	(34)	X'1	0	MTRB1WFC	"1" SSI must wait for completion
53	(35)	BITSTRING	3	MTRBRSV3	Reserved for future use
53	(35)	X'38	0	MTRBSIZE	"*-MTRB" Length of MTRB

\$MTRB Cross Reference

Name	Hex Offset	Hex Value
MTRBASCB	2C	
MTRBCCE	0	
MTRBCVER	A	1
MTRBECB	24	
MTRBECBP	28	
MTRBERRT	30	
MTRBFLG1	34	
MTRBID	4	D4E3D9C2
MTRBLEN	8	
MTRBNEXT	20	
MTRBPARM	C	
MTRBPID	10	
MTRBQUE	1C	
MTRBRC	14	
MTRBRSV1	B	
MTRBRSV2	18	
MTRBRSV3	35	
MTRBSIZE	35	38
MTRBVER	A	
MTRBXMPL	28	
MTRB1WFC	34	1

\$NAT Programming Interface information

Programming Interface information

\$NAT

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

- NATNTQ

End of Programming Interface information

\$NAT Heading Information

Common Name: Nodes Attached Table Element
Macro ID: \$NAT
DSECT Name: NAT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 9
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.

Size: See NATNATL for NAT
 NATNTQL for NTQ
 NATNATPL for NATP

Created by: \$NATADD (NATs)
 HASPCOMM (NTQs)
 HASPNPM (NATPs)

Pointed to by: MDCTNATP field of the DCT data area
 MDCTNPCH field of the DCT data area
 NATNEXT field of the NAT data area
 NATPREV field of the NAT data area
 NATPCHAN field of the NAT data area
 NATPNEXT field of the NAT data area
 NATPDNXT field of the NAT data area
 NATSCHAN field of the NAT data area
 NATNATP field of the NAT data area
 NATNTQ field of the NAT data area
 NITNAT field of the NIT data area
 NTKNAT field of the NTK data area
 PCTNATAT field of the PCT data area
 PCTNATAH field of the PCT data area
 PCTNATUT field of the PCT data area
 PCTNATUH field of the PCT data area
 PCTNATHT field of the PCT data area
 PCTNATHH field of the PCT data area
 PCTNATNH field of the PCT data area
 PCTNATNH field of the PCT data area

Serialization: NTQs and NATPs are serialized by normal JES2 PCE serialization. When a NAT that was created by \$NATADD is updated, then PCT1NTUP must be set.

Function: The NAT describes the connections that currently exist or have once existed between nodes in a network. It also maps the NTQ and the NATP which are special purpose NATs.

\$NAT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NAT	
0	(0)	X'1	0	NATVERN	"1" Version number of the NAT
0	(0)	BITSTRING	8	NATID (0)	UNIQUE NAT IDENTIFICATION
0	(0)	ADDRESS	3	NATPRI (0)	PRIMARY NODE ID
0	(0)	SIGNED	2	NATPRIN	PRIMARY NODE NUMBER

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2	(2)	BITSTRING	1	NATPRIQ	PRIMARY NODE QUALIFIER
3	(3)	BITSTRING	1		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	3	NATSEC (0)	SECONDARY NODE ID
4	(4)	SIGNED	2	NATSECN	SECONDARY NODE NUMBER
6	(6)	BITSTRING	1	NATSECC	SECONDARY NODE QUALIFIER
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	BITSTRING	1	NATNTYPE	TYPE OF NAT
8	(8)	BITSTRING	0	NATNTNAT	"B'10000000" REAL NAT ELEMENT
8	(8)	BITSTRING	0	NATNTNTQ	"B'01000000" TEMPORARY NAT (NTQ)
8	(8)	BITSTRING	0	NATNTNPT	"B'00100000" Temporary MAS connection NATP (used during signon validation)
8	(8)	BITSTRING	0	NATNTNTP	"B'00010000" Permanent MAS connection NATP(used after signon)
9	(9)	BITSTRING	1	NATTYPE	Type of NAT element
9	(9)	BITSTRING	0	NATTSTAT	"B'10000000" NAT is a static connect
9	(9)	BITSTRING	0	NATTPM	"B'01000000" NAT is specifically defined as a PATHMGR=YES connect
9	(9)	BITSTRING	0	NATTPMNO	"B'00100000" NAT is specifically defined as a PATHMGR=NO connect
9	(9)	BITSTRING	0	NATTPMDE	"B'00010000" NTQ is specifically defined as a PATHMGR=RESET connect
9	(9)	BITSTRING	0	NATTPRIV	"B'00001000" NAT is a private connect
9	(9)	BITSTRING	0	NATTUNRE	"B'00000100" NAT is a unreachable
9	(9)	BITSTRING	0	NATTADJ	"B'00000010" NAT is adjacent to this node and member
10	(A)	ADDRESS	2	NATREST	RESISTANCE OF CONNECTION
12	(C)	ADDRESS	4	NATEVNT	EVENT SEQUENCE
16	(10)	SIGNED	4		Reserved for future use
20	(14)	SIGNED	4	NATECOM (0)	End of common section

Comment

Node Attached Table unique Fields

End of Comment

20	(14)	BITSTRING	1	NATSTATE	Current state of active NAT
20	(14)	BITSTRING	0	NATSUMAX	"B'10000000" NAT is unreachable due to \$MAXREST
20	(14)	BITSTRING	0	NATSINUS	"B'01000000" NAT is currently in use in some path
20	(14)	BITSTRING	0	NATSURCH	"B'00100000" Static NAT with both nodes not connected
20	(14)	BITSTRING	0	NATSPEND	"B'00010000" Adjacent static NAT has no active line
20	(14)	BITSTRING	0	NATSXTRA	"B'00001000" NAT is not currently used in any path
21	(15)	BITSTRING	1	NATNSTAT	New state of the NAT (set by full path processing)
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	ADDRESS	4	NATNEXT	Addr of next NAT on cur que
28	(1C)	ADDRESS	4	NATPREV	Addr of prev NAT on cur que
32	(20)	ADDRESS	4	NATPCHAN	Prim chain of NATs from NIT
36	(24)	ADDRESS	4	NATSCHAN	Sec chain of NATs from NIT
40	(28)	ADDRESS	4	NATPNIT	Addr of NIT for primary
44	(2C)	ADDRESS	4	NATSNIT	Addr of NIT for secondary
48	(30)	ADDRESS	4	NATANATP	Chain field for temp active queue (Used by NPMFPATH)
52	(34)	ADDRESS	4	NATNMPTR	Pointer to notify bit map

\$NAT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The field NATALINE contains a DCT address that is considered to own this NAT. If neither NATPRI nor NATSEC is the local node, then NATALINE is DCT over which this status was first received. If either NATPRI or NATSEC is the local node, then NATALINE contains the LINE DCT address that has the least resistance to the other node on this member. It is not necessarily the primary trunk. NATNATP is a chain of NATPs (at most one per MAS member) which represent the best line from each member of a MAS. NATALINE will be zero if there is no line to the other node on this member.</p> <p>-----</p> <p>The fields defined by NATAUXCP must be copied between real NATs and AUX NATs whenever a AUX NAT is created.</p> <p>-----</p>					
End of Comment					
56	(38)	SIGNED	4	NATAUXCS (0)	Start of fields copied to/from AUX NATs
56	(38)	ADDRESS	4	NATALINE	Address of owning DCT or zero.
60	(3C)	ADDRESS	4	NATNATP	Chain of NATPs representing connections from other MAS members
64	(40)	BITSTRING	1	NATMEMBP	For adjacent NATs, member with primary line
64	(40)	X'38 00009'	0	NATAUXCP	"NATAUXCS,*-NATAUXCS" End of fields to copy
65	(41)	BITSTRING	1	NATCSTAT	Current status of NAT
65	(41)	BITSTRING	0	NATCACT	"B'10000000" NAT on active queue
65	(41)	BITSTRING	0	NATCUNC	"B'01000000" NAT unconnected
65	(41)	BITSTRING	0	NATCHLD	"B'00100000" NAT on held queue
66	(42)	BITSTRING	1	NATNRANK	Order on NIT to NAT queue
66	(42)	X' '	0	NATNRNUL	"0" NAT has yet to be ranked
66	(42)	X'4 '	0	NATNRNMS	"4" ACTIVE, non-MAS connect
66	(42)	X'8 '	0	NATNRMAS	"8" ACTIVE, MAS connection
66	(42)	X'C '	0	NATNRSTA	"12" Static/Private connect
66	(42)	X'10 '	0	NATNRHLD	"16" HELD connection
66	(42)	X'14 '	0	NATNRINA	"20" INACTIVE connection
67	(43)	BITSTRING	1	NATVIFYQ	Flags used by NPMVIFY to verify the NAT is on all queues
67	(43)	BITSTRING	0	NATVFSTA	"B'10000000" NAT is on a status queue
67	(43)	BITSTRING	0	NATVFPRI	"B'01000000" NAT is on the queue from the primary node's NIT
67	(43)	BITSTRING	0	NATVFSEC	"B'00100000" NAT is on the queue from the secondary node's NIT
68	(44)	ADDRESS	4	NATNTIME	Time record was recieved or status last modified
72	(48)	ADDRESS	4	NATAUX	Address of auxiliary NAT (PM defined NAT chained off identical static NAT)
76	(4C)	ADDRESS	4	NATRTRKN	TOKEN used during NAT verification
76	(4C)	X'50 '	0	NATNATL	**-"NAT" Length of NAT DSECT

Comment

Prototype NAT used for FULLPATH determination
 The following fields are only used during full path processing.

End of Comment

20	(14)	BITSTRING	1	NATNPMF	Flag byte work area
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	SIGNED	2	NATNPLEN	Path length work area
22	(16)	X'18 '	0	NATFPTL	**-"NAT" Length of full path NAT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Nodes attached table queue element for use during initialization for the CONNECT statement. Also used for the \$ADD, \$DEL, \$D, and \$T connect commands.					
End of Comment					
20	(14)	ADDRESS	4	NATNTQ	NTQ Chain field
24	(18)	CHARACTER	8	NATNTQNA	Primary node name (EBCDIC)
32	(20)	CHARACTER	8	NATNTQNB	2ndary node name (EBCDIC)
40	(28)	CHARACTER	8	NATNTQCN	Console id of console issuing command
48	(30)	BITSTRING	1	NATNTQF1	NTQ type field
48	(30)	BITSTRING	0	NATNTQ1A	"B'10000000" Add CONNECT
48	(30)	BITSTRING	0	NATNTQ1T	"B'01000000" Change (\$T) CONNECT
48	(30)	BITSTRING	0	NATNTQ1R	"B'00100000" Delete CONNECT
48	(30)	BITSTRING	0	NATNTQ1P	"B'00010000" PATHMGR= value was explicitly specified
49	(31)	BITSTRING	1	NATNTQF2	General NTQ flags
49	(31)	BITSTRING	0	NATNTQ2P	"B'10000000" Processed NTQ
50	(32)	BITSTRING	2		Reserved for future use
50	(32)	X'34	0	NATNTQL	**"-NAT" Length of NTQ control block

Comment					
Nodes attached table element for NJE connections out of other MAS members (NATP).					
End of Comment					

20	(14)	ADDRESS	4	NATPNEXT	Next chained NATP (NAT chn)
24	(18)	ADDRESS	4	NATPDNXT	Next chained NATP (DCT chn)
28	(1C)	ADDRESS	4	NATPNAT	NAT associated with NATP
32	(20)	ADDRESS	4	NATPDCT	DCT associated with NATP
36	(24)	ADDRESS	0	NATPAFTK	Owning memb affinity token
36	(24)	BITSTRING	1	NATPMEMB	Owning member's ID
37	(25)	BITSTRING	1	NATPFLG1	NATP flag byte
37	(25)	BITSTRING	0	NATP1WAT	"B'10000000" Don't send it yet
37	(25)	BITSTRING	0	NATP1CMP	"B'01000000" Signon done (got M recrd)
38	(26)	BITSTRING	3		Reserved
41	(29)	CHARACTER	8	NATPNNAM	Node name from I record
52	(34)	SIGNED	4	(0)	Ensure fullword boundry
52	(34)	X'34	0	NATNATPL	**"-NAT" Length of NATP control

\$NAT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NATALINE	38		NATNMPTR	34	
NATANATP	30		NATNPLEN	16	
NATAUX	48		NATNPMF	14	
NATAUXCP	40	38	NATNRANK	42	
NATAUXCS	38		NATNRHLD	42	10
NATCACT	41	80	NATNRINA	42	14
NATCHLD	41	20	NATNRMAS	42	8
NATCSTAT	41		NATNRNMS	42	4
NATCUNC	41	40	NATNRNUL	42	
NATECOM	14		NATNRSTA	42	C
NATEVNT	C		NATNSTAT	15	
NATFPTL	16	18	NATNTIME	44	
NATID	0		NATNTNAT	8	80
NATMEMBP	40		NATNTNPT	8	20
NATNATL	4C	50	NATNTNTP	8	10
NATNATP	3C		NATNTNTQ	8	40
NATNATPL	34	34	NATNTQ	14	
NATNEXT	18		NATNTQCN	28	

\$NAT Cross Reference

Name	Hex Offset	Hex Value
NATNTQF1	30	
NATNTQF2	31	
NATNTQL	32	34
NATNTQNA	18	
NATNTQNB	20	
NATNTQ1A	30	80
NATNTQ1P	30	10
NATNTQ1R	30	20
NATNTQ1T	30	40
NATNTQ2P	31	80
NATNTYPE	8	
NATPAFTK	24	
NATPCHAN	20	
NATPDCT	20	
NATPDNXT	18	
NATPFLG1	25	
NATPMEMB	24	
NATPNAT	1C	
NATPNEXT	14	
NATPNIT	28	
NATPNNAM	29	
NATPREV	1C	
NATPRI	0	
NATPRIN	0	0
NATPRIQ	2	0
NATP1CMP	25	40
NATP1WAT	25	80
NATREST	A	0
NATRTKN	4C	
NATSCHAN	24	
NATSEC	4	
NATSECN	4	0
NATSECQ	6	0
NATSINUS	14	40
NATSNIT	2C	
NATSPEND	14	10
NATSTATE	14	
NATSUMAX	14	80
NATSURCH	14	20
NATSXTRA	14	8
NATTADJ	9	2
NATTPM	9	40
NATTPMDE	9	10
NATTPMNO	9	20
NATTPRIV	9	8
NATTSTAT	9	80
NATTUNRE	9	4
NATTYPE	9	
NATVERN	0	1
NATVFPRI	43	40
NATVFSEC	43	20
NATVFSTA	43	80
NATVFYQ	43	

\$NHD Programming Interface information

Programming Interface information

\$NHD

End of Programming Interface information

\$NHD Heading Information

Common Name: Network Job Header, Dataset Header, and Job Trailer DSECTS.

Macro ID: \$NHD

DSECT Name: NJH NJH2 NJHE NJHT NJHU NJHO NJHA NJHOX NJT NJTS NJTU NJTO NDH NDHA NDHS NDHC NDHT NDHU NDHO NDHOX

Owning Component: JES2 (SCB1H)

Eye-Catcher ID: None

Storage Attributes: Subpool: 10
Key: 1
Residency: JES2 spool resident control block. Virtual and real storage may be anywhere when resident in memory.

Size: Variable, with a maximum size of NJHMAXLN for job headers, NDHMAXLN for dataset headers, or NJTMAXLN for job trailers. These control blocks will always reside in a 32K block of storage.

Created by: Network job receiver for jobs received from network;
Offload job receiver for reloaded jobs;
Route receiver for network jobs rerouted locally;
Network, offload, or route job/SYSOUT transmitters for locally submitted jobs (at transmission time).
In-storage versions of the control block are created by \$NHDREAD or \$NHDRCV.

Pointed to by: JCTNJHTR field of the \$JCT data area (spool pointer)
JCTNJTTR field of the \$JCT data area (spool pointer)
PDBNDHTR field of the \$JCT data area (spool pointer)
Storage pointers in various PCE work areas and \$NHDxxx service parameter lists.

Serialization: Serialized under the JES2 TCB

Function: This DSECT represents the JES2 mappings of Job and Data set Headers/Trailers described in "Network Job Entry Formats and Protocols" (SC23-0070). These control blocks are part of the networking protocol used to communicate between nodes in a network.

\$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH	NETWORK JOB HEADER RECORD
Comment					
BLOCK CONTROL INFORMATION					
End of Comment					
0	(0)	ADDRESS	2	NJHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJHFLAGS	FLAGS
3	(3)	BITSTRING	0	NJHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4	0	NJHLBCI	**_NJH" LENGTH OF BLOCK CONTROL INFORMATION
Comment					
GENERAL SECTION					
End of Comment					

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	SIGNED	4	NJHG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJHGLN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJHGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJHGMOD	MODIFIER
		....		NJHG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	ADDRESS	2	NJHGJID	JOB IDENTIFIER
10	(A)	CHARACTER	1	NJHGJCLS	JOB CLASS
11	(B)	CHARACTER	1	NJHGMCLS	MESSAGE CLASS
12	(C)	BITSTRING	1	NJHGFLG1	FLAGS
12	(C)	BITSTRING	0	NJHGF1PR	"B'10000000" DO NOT RECOMPUTE PRIORITY
12	(C)	BITSTRING	0	NJHGF1JN	"B'01000000" Extended job number exists
12	(C)	BITSTRING	0	NJHGF1CF	"B'00001000" Store-and-forward msg flag
12	(C)	BITSTRING	0	NJHGF1CA	"B'00000100" Destination node msg flag
12	(C)	BITSTRING	0	NJHGF1PE	"B'00000010" NJHGPASS is encrypted
12	(C)	BITSTRING	0	NJHGF1NE	"B'00000001" NJHGNPAS is encrypted
13	(D)	ADDRESS	1	NJHGPRIO	SELECTION PRIORITY
14	(E)	ADDRESS	1	NJHGORGQ	ORIGIN NODE SYSTEM QUALIFIER
15	(F)	ADDRESS	1	NJHGJCPY	JOB COPY COUNT
16	(10)	ADDRESS	1	NJHGLNCT	JOB LINE COUNT
17	(11)	BITSTRING	1		RESERVED
18	(12)	SIGNED	2	NJHGHOPS	NJE HOP COUNT
20	(14)	CHARACTER	8	NJHGACCT	NETWORKING ACCOUNT NUMBER
28	(1C)	CHARACTER	8	NJHGJNAM	JOB NAME
36	(24)	CHARACTER	8	NJHGUSID	USERID (TSO, VM) to NOTIFY
44	(2C)	CHARACTER	8	NJHGPASS	PASSWORD
52	(34)	CHARACTER	8	NJHGNPAS	NEW PASSWORD
60	(3C)	SIGNED	8	NJHGETS	ENTRY TIME/DATE STAMP
68	(44)	CHARACTER	8	NJHGORGN	ORIGIN NODE NAME
76	(4C)	CHARACTER	8	NJHGORGR	ORIGIN REMOTE NAME
84	(54)	CHARACTER	8	NJHGXEQN	EXECUTION NODE NAME
92	(5C)	CHARACTER	8	NJHGXEQU	EXECUTION USER ID(VM/370)
100	(64)	CHARACTER	8	NJHGPRTN	DEFAULT PRINT NODE NAME
108	(6C)	CHARACTER	8	NJHGPRTR	DEFAULT PRINT REMOTE NAME
116	(74)	CHARACTER	8	NJHGPUNN	DEFAULT PUNCH NODE NAME
124	(7C)	CHARACTER	8	NJHGPUNR	DEFAULT PUNCH REMOTE NAME
132	(84)	CHARACTER	8	NJHGFORM	JOB FORMS
140	(8C)	SIGNED	4	NJHGICRD	INPUT CARD COUNT
144	(90)	SIGNED	4	NJHGETIM	ESTIMATED EXECUTION TIME
148	(94)	SIGNED	4	NJHGELIN	ESTIMATED OUTPUT LINES
152	(98)	SIGNED	4	NJHGECD	ESTIMATED OUTPUT CARDS
156	(9C)	CHARACTER	20	NJHGPRGN	PROGRAMMER'S NAME
176	(B0)	CHARACTER	8	NJHGROOM	PROGRAMMER'S ROOM NUMBER
184	(B8)	CHARACTER	8	NJHGDEPT	PROGRAMMER'S DEPARTMENT
192	(C0)	CHARACTER	8	NJHGBLDG	PROGRAMMER'S BUILDING NUMBER
200	(C8)	SIGNED	4	NJHGNREC	RECORD COUNT ON OUTPUT XMISSION
204	(CC)	SIGNED	4	NJHGJNO	Extended job number
208	(D0)	CHARACTER	8	NJHGNTYN	Node to send NOTIFY message
216	(D8)	SIGNED	4	NJHGEND (0)	END OF GENERAL SECTION
216	(D8)	X'24	0	NJHGORGU	"NJHGUSID" ORGIN USER ID
216	(D8)	X'D4	0	NJHGLLEN	"*-NJHG" LENGTH OF GENERAL SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH2	START OF JES2 SECTION
0	(0)	ADDRESS	2	NJH2LEN	LENGTH OF JES2 SECTION
2	(2)	BITSTRING	2	NJH2FLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJH2TYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJH2MOD	MODIFIER
		....		NJH2\$MOD	"B'00000000" VALUE OF MODIFIER

\$NHD Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following modifier is reserved and may not be used in conjunction with NTYPEJES2 in the job header as it is used internally in JES2 SP4.3.0.					
End of Comment					
3	(3)	BITSTRING	0	NJH2\$RSV	"B'00000001" **RESERVED Modifier** Was NJHA\$J2M previously
4	(4)	BITSTRING	1	NJH2FLG1	FLAGS
5	(5)	BITSTRING	3		RESERVED
8	(8)	CHARACTER	4	NJH2ACCT	ORIGINATOR'S JES2 ACCOUNT NUMBER
12	(C)	CHARACTER	8	NJH2USID	USER SMF FIELD
20	(14)	CHARACTER	8	NJH2USR (0)	JCL USER ID (BEFORE SAF CALL) VERIFIED USER ID (AFTER)
28	(1C)	CHARACTER	8	NJH2GRP (0)	JCL GROUP ID (BEFORE SAF CALL) VERIFIED GROUP ID (AFTER)
36	(24)	CHARACTER	8	NJH2SUSR (0)	SUBMITTER'S USER ID
44	(2C)	CHARACTER	8	NJH2SGRP (0)	SUBMITTER'S GROUP ID
44	(2C)	X'34	0	NJH2ACML	"*-NJH2" MINIMUM LENGTH FOR FIELDS REQUIRED FOR AUTH CHECKS IN JES2
52	(34)	SIGNED	4	NJH2END (0)	END OF JES2 SECTION
52	(34)	X'34	0	NJH2LLEN	"*-NJH2" LENGTH OF JES2 SECTION

Comment

NJH2FLG1 BIT DEFINITIONS

End of Comment					
52	(34)	BITSTRING	0	NJH2FJOB	"B'00000011" JOB IS A BATCH JOB WHEN ZERO
52	(34)	BITSTRING	0	NJH2FSTC	"B'00000001" JOB IS A STARTED TASK
52	(34)	BITSTRING	0	NJH2FTSU	"B'00000010" JOB IS TIME-SHARING USER
52	(34)	BITSTRING	0	NJH2USE	"B'00000100" JCTUSEID PRESENT IN HEADER
52	(34)	BITSTRING	0	NJH2TPO	"B'00001000" Output originated from a transaction program

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHE	START OF JOB SCHED SECTION
0	(0)	ADDRESS	2	NJHELEN	LEN OF JOB SCHEDULING SECTION
2	(2)	BITSTRING	2	NJHEFLGS (0)	JOB SCHEDULING FLAGS
2	(2)	ADDRESS	1	NJHETYPE	ID FOR JOB SCHEDULING SECTION
3	(3)	ADDRESS	1	NJHEMOD	MODIFIER FOR JOB SCHEDULING
		....		NJHE\$JS	"B'00000000" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJHEPAGE	ESTIMATED BEGIN PAGE COUNT
8	(8)	BITSTRING	4	NJHEBYTE	ESTIMATED BYTE COUNT
12	(C)	SIGNED	4	NJHEEND (0)	END OF JOB SCHEDULING SECTION
12	(C)	X'C	0	NJHELLEN	"*-NJHE" LEN OF JOB SCHEDULING SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHT	Start of Security Section
0	(0)	ADDRESS	2	NJHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NJHTFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NJHTMOD	Modifier
		....		NJHT\$MOD	"B'00000000" Value of Modifier
4	(4)	ADDRESS	2	NJHTLENP	Length of prefix sectn
6	(6)	BITSTRING	1	NJHTFLG0	Security section flags
6	(6)	BITSTRING	0	NJHTF0JB	"B'10000000" Token represents job
7	(7)	ADDRESS	1		Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	CHARACTER	0	NJHTOKN	Mapped SAF token
8	(8)	SIGNED	4	NJHTEND (0)	End of Security Section
8	(8)	X'8 '	0	NJHTLEN	** -NJHT" Length of Security Section

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHA	START of Accounting Section
0	(0)	SIGNED	2	NJHALEN	Length of Acctg Section
2	(2)	BITSTRING	2	NJHAFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHATYPE	ID for Accounting Section
3	(3)	ADDRESS	1	NJHAMOD	Modifier
		....		NJHA\$MOD	"B'00000000" Value of Modifier
4	(4)	BITSTRING	1	NJHAFLG1	Flags
4	(4)	BITSTRING	0	NJHAF1OV	"B'10000000" Accounting string can be overlaid by other than originating node
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	NJHAOFFS	Offset to beginning of accounting information
6	(6)	X'8 '	0	NJHAFLFN	** -NJHA" Length of fixed portion

Comment

Accounting strings from the JOB statement

The string is in the form:

AL1(number-of-substrings)

AL1(length-1st-string),C'1st-string'

AL1(length-2nd-string),C'2nd-string'

etc.

Note: The maximum length supported by JES2/JES3 is 143 bytes.

End of Comment

8	(8)	SIGNED	2	NJHAJLEN	Length of job accounting string (does not include the length of this half word)
10	(A)	SIGNED	1	NJHAJNR	Number of sub-strings
11	(B)	SIGNED	1	NJHAJAC1 (0)	First sub-string

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHU	START OF USER SECTION
0	(0)	ADDRESS	2	NJHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJHUFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJHUMOD	MODIFIER --
		....		NJHU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJHUCODE' & 'NJHUEND'
8	(8)	SIGNED	4	NJHUEND (0)	END OF USER SECTION
8	(8)	X'8 '	0	NJHULLEN	** -NJHU" LENGTH OF USER SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHOX	Start of JES2 SYSAFF sect.
0	(0)	ADDRESS	2	NJHOXLN	Length of JES2 SYSAFF sect.
2	(2)	BITSTRING	2	NJHOXFGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHOXTYP	ID for JES2 section
3	(3)	ADDRESS	1	NJHOXMOD	MODIFIER for SYSAFF sect.
3	(3)	BITSTRING	0	NJHO\$AFF	"B'11000000" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOXFG1	FLAGS

\$NHD Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	NJHOX1IM	"B'10000000" Job is independent mode
4	(4)	BITSTRING	0	NJHOX1NY	"B'01000000" SYSAFF=ANYdependent mode
5	(5)	BITSTRING	1		RESERVED
6	(6)	ADDRESS	2	NJHOXOFF	Offset to extended affinity

Comment

 Extended system affinity... pointed to by
 NJHOXOFF.
 The bits in NJHOXSAF reflect affinity for the
 system numbers from left to right: 12345678....

End of Comment

8	(8)	ADDRESS	2	NJHOXSAL	Length of extended sys aff
10	(A)	BITSTRING	1	NJHOXSAF	Extended system affinity
10	(A)	X'A	0	NJHOXLLN	**"NJHOX" Length of affinity sect.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJHOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJHOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJHOMOD	MODIFIER
3	(3)	BITSTRING	0	NJHO\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOFLG1	FLAGS
5	(5)	BITSTRING	1	NJHOFLG2	MORE FLAGS
6	(6)	BITSTRING	1	NJHOPRIO	CURRENT EXECUTING PRIORITY
7	(7)	BITSTRING	1	NJHOCLAS	CURRENT EXECUTING CLASS
8	(8)	SIGNED	4	NJHOTIME	OFFLOAD VERIFICATION TIME
12	(C)	SIGNED	4	NJHODATE	OFFLOAD VERIFICATION DATE
16	(10)	CHARACTER	8	NJHOPRTU	PRINT SPECIAL LOCAL ROUTING
24	(18)	CHARACTER	8	NJHOPUNU	PUNCH SPECIAL LOCAL ROUTING
32	(20)	SIGNED	2	NJHOOJNO	OFFLOADED JOB NUMBER

Comment

 The bits in NJHOSAF reflect affinity for the
 system numbers from right to left, with the topmost
 bit indicating independent mode: 17654321

End of Comment

34	(22)	BITSTRING	1	NJHOSAF	System affinity; used by systems SP430 and below
35	(23)	BITSTRING	1		Reserved
36	(24)	CHARACTER	8	NJHOPRTN	Job print command authority node name, will be blanks for special local
44	(2C)	BITSTRING	2	NJHOPRRM	Job print command authority remote number
46	(2E)	CHARACTER	8	NJHOPUNN	Job punch command authority node name, will be blanks for special local
54	(36)	BITSTRING	2	NJHOPURM	Job punch command authority remote number
56	(38)	SIGNED	4	NJHOOJBN	Offloaded job number
60	(3C)	CHARACTER	8	NJHOSRVC	\$T'ed Service Class
68	(44)	CHARACTER	16	NJHOSCHE	\$T'ed SCHENV
84	(54)	SIGNED	4	NJHOEND (0)	END OF JES2 OFFLOAD SECTION
84	(54)	X'54	0	NJHOLLEN	**"NJHO" LENGTH OF JES2 OFFLOAD SECTION
84	(54)	X'6C	0	NJHLLN	"NJHLBCI+NJHGLLEN+NJH2LLEN+NJHELLEN+NJHOLLEN" LENGTH OF DEFAULT JOB HEADER RECORD

Offsets

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

ADD NJHULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION
NJHOFLG1 BIT DEFINITIONS

End of Comment

84	(54)	BITSTRING	0	NJHOF1HD	"B'10000000" JOB HELD PRIOR TO TRANSMIT
84	(54)	BITSTRING	0	NJHOF1HO	"B'01000000" ALL JOBS HELD BY OPERATOR PRIOR TO TRANSMIT
84	(54)	BITSTRING	0	NJHOF1MC	"B'00100000" JOB CLASS MODIFIED
84	(54)	BITSTRING	0	NJHOF1MS	"B'00010000" JOB AFFINITY MODIFIED
84	(54)	BITSTRING	0	NJHOF1MH	"B'00001000" JOB HOLD STATUS MODIFIED
84	(54)	BITSTRING	0	NJHOF1CV	"B'00000100" JOB HOLD FOR CONVERSION BEFORE SPOOL OFFLOAD

Comment

NJHOFLG2 BIT DEFINITIONS

End of Comment

84	(54)	BITSTRING	0	NJHOF2PR	"B'10000000" 'PROTECTED' attribute
84	(54)	BITSTRING	0	NJHOF2SD	"B'01000000" Service class \$T'ed
84	(54)	BITSTRING	0	NJHOF2ED	"B'00100000" SCHENV \$T'ed

Comment

SECTION TYPE FLAGS

End of Comment

84	(54)	.....	0	NTYPGEN	"B'00000000" GENERAL SECTION
84	(54)	BITSTRING	0	NTYPSUB	"B'10000000" SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPGDS	"B'10001001" DATA STREAM/ACCOUNTING SECTION
84	(54)	BITSTRING	0	NTYPGJS	"B'10001010" JOB SCHEDULING SECTION
84	(54)	BITSTRING	0	NTYPSAF	"B'10001100" Security Token Section
84	(54)	BITSTRING	0	NTYPACCT	"B'10001101" Job Accounting Section
84	(54)	BITSTRING	0	NTYPASP	"B'10000001" ASP SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPHASP	"B'10000010" HASP SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPJES1	"B'10000011" JES/RES SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPJES2	"B'10000100" JES2 SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPJES3	"B'10000101" JES3 SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPPWR	"B'10000110" POWER/VS SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPVNET	"B'10000111" VM/370 SUBSYSTEM SECTION
84	(54)	BITSTRING	0	NTYPUSE	"B'11000000" USER SECTION
84	(54)	X'8B	0	NJHMAXLN	"(253-4)*127+4" Maximum size of job header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Offsets

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

BLOCK CONTROL INFORMATION

End of Comment

0	(0)	ADDRESS	2	NJTLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJTFLAGS	FLAGS
3	(3)	BITSTRING	0	NJTSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4	0	NJTLBCI	"*-NJT" LENGTH OF BLOCK CONTROL INFORMATION

\$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
GENERAL SECTION					
End of Comment					
4	(4)	SIGNED	4	NJTG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJTGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJTGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJTGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJTGMOD	MODIFIER
		.... ....		NJTG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	BITSTRING	1	NJTGFLG1	FLAGS
9	(9)	CHARACTER	1	NJTGXCLS	ACTUAL EXECUTION CLASS
10	(A)	BITSTRING	2		RESERVED
12	(C)	SIGNED	8	NJTGSTRT	EXECUTION START TIME/DATE
20	(14)	SIGNED	8	NJTGSTOP	EXECUTION STOP TIME/DATE
28	(1C)	SIGNED	4	NJTGACPU	ACTUAL CPU TIME
32	(20)	SIGNED	4	NJTGALIN	ACTUAL OUTPUT LINES
36	(24)	SIGNED	4	NJTGACRD	ACTUAL OUTPUT CARDS
40	(28)	SIGNED	4	NJTGEXCP	EXCP COUNT
44	(2C)	ADDRESS	1	NJTGIXPR	INITIAL XEQ SELECTION PRIORITY
45	(2D)	ADDRESS	1	NJTGAXPR	ACTUAL XEQ SELECTION PRIORITY
46	(2E)	ADDRESS	1	NJTGIOPR	INITIAL OUTPUT SELECTION PRIORITY
47	(2F)	ADDRESS	1	NJGGAOPR	ACTUAL OUTPUT SELECTION PRIORITY
48	(30)	BITSTRING	4	NJTGCC (0)	Job completion codes
48	(30)	BITSTRING	1	NJTGCOMP	Job completion indicator
48	(30)	BITSTRING	0	NJTG CAB	"X'80" ABEND CODE
48	(30)	BITSTRING	0	NJTGCCC	"X'40" Completion code
48	(30)	X'1	0	NJTG CUNK	"0" No completion info
48	(30)	X'1	0	NJTG CNRM	"1" Job ended normally
48	(30)	X'2	0	NJTG CECC	"2" Job ended by cc
48	(30)	X'3	0	NJTG CJCL	"3" Job had a JCL error
48	(30)	X'4	0	NJTG CCAN	"4" Job was canceled
48	(30)	X'5	0	NJTG CABN	"5" Job ABENDED
48	(30)	X'6	0	NJTG CCAB	"6" Converter ABENDED
48	(30)	X'7	0	NJTG CSEC	"7" Security error
48	(30)	X'8	0	NJTG CEOM	"8" Job ABENDED in end of memory processing
49	(31)	BITSTRING	3	NJTG CODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
52	(34)	SIGNED	4	NJTGEND (0)	END OF GENERAL SECTION
52	(34)	X'30	0	NJTG LLEN	** -NJTG" LENGTH OF GENERAL SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTS	START OF ACCOUNTING SECTION
0	(0)	ADDRESS	2	NJTSLEN	LENGTH OF ACCOUNTING SECTION
2	(2)	BITSTRING	2	NJTSFLGS (0)	ACCOUNTING SECTION FLAGS
2	(2)	ADDRESS	1	NJTSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NJTSMOD	MODIFIER
		.... ....		NJT\$ACCT	"B'00000000" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJTSAPAG	NUMBER OF 'BEGIN PAGE' FIELDS
8	(8)	BITSTRING	4	NJTSABYT	NUMBER OF DATA BYTES
12	(C)	SIGNED	4	NJTSEND (0)	END OF ACCOUNTING SECTION
12	(C)	X'C	0	NJTS LLEN	** -NJTS" LENGTH OF ACCOUNTING SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTU	START OF USER SECTION
0	(0)	ADDRESS	2	NJTULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJTUFLGS (0)	SECTION TYPE FLAGS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2	(2)	ADDRESS	1	NJTUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJTUMOD NJTU\$MOD	MODIFIER -- "B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJTUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJTUCODE' & 'NJTUEND'
8	(8)	SIGNED	4	NJTUEND (0)	END OF USER SECTION
8	(8)	X'8	0	NJTULLEN	**-'NJTU' LENGTH OF USER SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJTOLN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJTOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJTOMOD	MODIFIER
3	(3)	BITSTRING	0	NJTO\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	SIGNED	4	NJTOTIME	OFFLOAD VERIFICATION TIME
8	(8)	SIGNED	4	NJTODATE	OFFLOAD VERIFICATION DATE
12	(C)	SIGNED	4	NJTOEND (0)	END OF JES2 OFFLOAD SECTION
12	(C)	X'C	0	NJTOLLEN	**-'NJTO' LENGTH OF JES2 OFFLOAD SECTION
12	(C)	X'4C	0	NJTLLN	"NJTLBCI+NJTGLLEN+NJTSLLN+NJTOLLEN" LENGTH OF DEFAULT JOB TRAILER RECORD

Comment

ADD NJTULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION

End of Comment

12	(C)	X'8B	0	NJTMAXLN	"(253-4)*127+4" Maximum size of job trailer: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.
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Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDH	NETWORK DATA SET HEADER RECORD

Comment

BLOCK CONTROL INFORMATION

End of Comment

0	(0)	ADDRESS	2	NDHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NDHFLAGS	FLAGS
3	(3)	BITSTRING	0	NDHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4	0	NDHLBCI	**-'NDH' LENGTH OF BLOCK CONTROL INFORMATION

Comment

GENERAL SECTION

End of Comment

4	(4)	SIGNED	4	NDHG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NDHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NDHGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NDHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NDHGMOD	MODIFIER
		....		NDHG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	CHARACTER	8	NDHGNODE	DESTINATION NODE NAME
16	(10)	CHARACTER	8	NDHGRMT	DESTINATION REMOTE NAME

\$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	CHARACTER	8	NDHGPROC	PROC INVOCATION NAME
32	(20)	CHARACTER	8	NDHGSTEP	STEP NAME
40	(28)	CHARACTER	8	NDHGDD	DD NAME
48	(30)	SIGNED	2	NDHGDSNO	DATA SET NUMBER
50	(32)	ADDRESS	1	NDHGSEC	SECURITY LEVEL
51	(33)	CHARACTER	1	NDHGCLAS	OUTPUT CLASS
52	(34)	SIGNED	4	NDHGNREC	RECORD COUNT
56	(38)	BITSTRING	1	NDHGFLG1	FLAGS
57	(39)	BITSTRING	1	NDHGRCFM	RECFM
58	(3A)	SIGNED	2	NDHGLREC	MAX LOGICAL RECORD LENGTH
60	(3C)	ADDRESS	1	NDHGDSCT	DATA SET COPY COUNT
61	(3D)	ADDRESS	1	NDHGFCBI	3211 FCB INDEX
62	(3E)	BITSTRING	1	NDHGLNCT	DATA SET LINCT (PAGE SIZE)
63	(3F)	BITSTRING	1		RESERVED FOR FUTURE USE
64	(40)	CHARACTER	8	NDHGFORM	FORMS ID
72	(48)	CHARACTER	8	NDHGFCB	FCB ID
80	(50)	CHARACTER	8	NDHGUCS	UCS ID
88	(58)	CHARACTER	8	NDHGXWTR	EXTERNAL WRITER ID
96	(60)	CHARACTER	8	NDHGNAME	Sysout DS name (DSNAME=)
104	(68)	BITSTRING	1	NDHGFLG2	SECOND FLAG BYTE
105	(69)	BITSTRING	1	NDHGUCSO	UCS OPTION BYTE
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	CHARACTER	8	NDHGPMDE	PROCESS MODE
116	(74)	SIGNED	4	NDHGSEGN	Segment ID
120	(78)	SIGNED	4	NDHGEN (0)	END OF GENERAL SECTION
120	(78)	X'74	0	NDHGLLEN	** -NDHG" LENGTH OF GENERAL SECTION
120	(78)	X'78	0	NDHLEN	** -NDH" LENGTH OF ENTIRE BLOCK

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHA	START OF 3800 CHAR SECTION
0	(0)	ADDRESS	2	NDHALEN	LENGTH OF 3800 CHAR SECTION
2	(2)	BITSTRING	2	NDHAFLGS (0)	FLAGS AND MODIFIER
2	(2)	ADDRESS	1	NDHATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHAMOD	MODIFIER
3	(3)	BITSTRING	0	NDHA\$MOD	"B'10000000" VALUE OF MODIFIER (3800 CHAR)
4	(4)	BITSTRING	1	NDHAFLG1	FLAGS
5	(5)	ADDRESS	1	NDHAFLCT	FLASH COUNT
6	(6)	BITSTRING	1	NDHATREF	TABLE REFERENCE CHARACTER
7	(7)	BITSTRING	1		RESERVED
8	(8)	CHARACTER	8	NDHATAB1	TRANSLATE TABLE 1
16	(10)	CHARACTER	8	NDHATAB2	TRANSLATE TABLE 2
24	(18)	CHARACTER	8	NDHATAB3	TRANSLATE TABLE 3
32	(20)	CHARACTER	8	NDHATAB4	TRANSLATE TABLE 4
40	(28)	CHARACTER	8	NDHAFLSH	FLASH CARTRIDGE ID
48	(30)	CHARACTER	8	NDHAMODF	COPY MODIFICATION ID
56	(38)	BITSTRING	8	NDHACPYG	COPY GROUPS
64	(40)	SIGNED	4	NDHAEND (0)	END OF 3800 CHAR SECTION
64	(40)	X'40	0	NDHALLEN	** -NDHA" LENGTH OF 3800 CHAR SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHS	START OF DATASTREAM SECT
0	(0)	ADDRESS	2	NDHSLEN	LEN OF DATA STREAM SECTION
2	(2)	BITSTRING	2	NDHSFLGS (0)	FLAGS AND MODIFIERS
2	(2)	ADDRESS	1	NDHSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHSMOD	MODIFIER
		....		NDHS\$OUT	"B'00000000" VALUE OF MODIFIER (OUTPUT)
4	(4)	ADDRESS	2	NDHSFLEN	SUBSECTION FIXED LENGTH
6	(6)	BITSTRING	1	NDHSFLG1	DATA STREAM FLAG
6	(6)	BITSTRING	0	NDHS1CPD	"B'10000000" DATA SET HAS CPDS CHARA.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	8	NDHSJDVT	JDVT NAME
16	(10)	BITSTRING	4	NDHSNSTR	PAGE DATA PAGE COUNT
20	(14)	BITSTRING	8	NDHSGPID	OUTPUT NAME FOR DATA SET
20	(14)	X'1C '	0	NDHSLEN2	**-'NDHS' LENGTH OF DATA STREAM SECTION
28	(1C)	SIGNED	2	NDHSSDAT (0)	START OF VARIABLE DATA FOR SWBS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHC	START OF CHAR CHANGE SECT
0	(0)	ADDRESS	2	NDHCLEN	LENGTH OF CHAR CHANGE GENERAL SECT
2	(2)	BITSTRING	2	NDHCFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHCTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHCMOD	MODIFIER
3	(3)	BITSTRING	0	NDHC\$MOD	"B'01000000" VALUE OF MODIFIER (CHAR CHANGE)
4	(4)	BITSTRING	1	NDHCFLG1	FLAGS
5	(5)	BITSTRING	1	NDHCRCFM	RECFM
6	(6)	ADDRESS	2	NDHCLREC	MAXIMUM LRECL
8	(8)	SIGNED	4	NDHCEND (0)	END OF CHAR CHANGE GENERAL SECTION
8	(8)	X'8 '	0	NDHCLEN	**-'NDHC' LENGTH OF CHAR CHANGE GENERAL SECT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHT	Start of Security Section
0	(0)	ADDRESS	2	NDHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NDHTFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NDHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NDHTMOD	Modifier
		.... ....		NDHT\$MOD	"B'00000000" Value of Modifier
4	(4)	ADDRESS	2	NDHTLENP	Length of prefix sectn
6	(6)	ADDRESS	2		Reserved
8	(8)	CHARACTER	0	NDHTTOKN	Mapped SAF token
8	(8)	SIGNED	4	NDHTEND (0)	End of Security Section
8	(8)	X'8 '	0	NDHTLEN	**-'NDHT' Length of Security Section

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHU	START OF USER SECTION
0	(0)	ADDRESS	2	NDHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NDHUFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NDHUMOD	MODIFIER --
		.... ....		NDHU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NDHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NDHUCODE' & 'NDHUEND'
8	(8)	SIGNED	4	NDHUEND (0)	END OF USER SECTION
8	(8)	X'8 '	0	NDHULLEN	**-'NDHU' LENGTH OF USER SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHO	START OF SPOOL OFFLOAD SECT
0	(0)	ADDRESS	2	NDHOLEN	LENGTH OF SPOF SECTION
2	(2)	BITSTRING	2	NDHOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NDHOMOD	MODIFIER

\$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3	(3)	BITSTRING	0	NDHOS\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	CHARACTER	8	NDHOUSER	OWNING USERID
12	(C)	SIGNED	4	NDHOTIME	JOE CREATION TIME
16	(10)	SIGNED	4	NDHODSNO	FULLWORD DATA SET NUMBER
20	(14)	SIGNED	2	NDHOPRIO	PRIORITY OF DATA SET
22	(16)	BITSTRING	1	NDHOFLG1	Flags
22	(16)	BITSTRING	0	NDHOF1SF	"B'10000000" DS had store-and-forward token at time of offload
22	(16)	BITSTRING	0	NDHOF1NF	"B'01000000" DS had local token at time of offload
23	(17)	BITSTRING	1		RESERVED FOR FUTURE USE
24	(18)	SIGNED	4	NDHOEND (0)	END OF JES2 SPOF SECTION
24	(18)	X'18	0	NDHOLLEN	** -NDHO" LENGTH OF SPOF SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHOX	Start of TP offload section
0	(0)	ADDRESS	2	NDHOXLEN	Length of TP section
2	(2)	BITSTRING	2	NDHOXFGX (0)	Section type flags
2	(2)	ADDRESS	1	NDHOXTYP	Id for JES2 section
3	(3)	ADDRESS	1	NDHOXMOD	Modifier
3	(3)	BITSTRING	0	NDHOS\$MTP	"B'11000000" Value of modifier
4	(4)	BITSTRING	1	NDHOXFG1	DSCT flag byte 1
4	(4)	BITSTRING	0	NDHOX1UN	"B'10000000" Userid is undefined
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NDHOXJBN	Job name
16	(10)	CHARACTER	8	NDHOXWKD	Work unit identifier
24	(18)	BITSTRING	8	NDHOXEST	Entry start clock time
32	(20)	BITSTRING	8	NDHOXXST	Execution start clock time
40	(28)	SIGNED	4	NDHOXETS	Entry time in 1/100's sec
44	(2C)	SIGNED	4	NDHOXEDT	Entry date 00yydddf
48	(30)	CHARACTER	8	NDHOXUID	User identification field
56	(38)	CHARACTER	8	NDHOXTUD	Transaction Program Userid
64	(40)	CHARACTER	4	NDHOXACT	Account number
68	(44)	SIGNED	4	NDHOXEND (0)	END OF JES2 TP SPOF SECTION
68	(44)	X'44	0	NDHOXLLN	** -NDHOX" LENGTH OF TP SPOF SECTION

Comment

GENERAL SECTION, NDHGFLG1

End of Comment

68	(44)	BITSTRING	0	NDHGF1SP	"B'10000000" SPIN DATA SET
68	(44)	BITSTRING	0	NDHGF1HD	"B'01000000" HOLD DATA SET AT DESTINATION
68	(44)	BITSTRING	0	NDHGF1LG	"B'00100000" JOB LOG INDICATOR
68	(44)	BITSTRING	0	NDHGF1OV	"B'00010000" PAGE OVERFLOW INDICATOR
68	(44)	BITSTRING	0	NDHGF1IN	"B'00001000" PUNCH INTERPRET INDICATOR
68	(44)	BITSTRING	0	NDHGF1LC	"B'00000100" NDHLINCT SET INDICATOR
68	(44)	BITSTRING	0	NDHGF1ST	"B'00000010" JOB STATISTICS IN JOB LOG

Comment

GENERAL SECTION, NDHGFLG2

End of Comment

68	(44)	BITSTRING	0	NDHGF2PR	"B'10000000" DATASET IS BEING PRINTED
68	(44)	BITSTRING	0	NDHGF2PU	"B'01000000" DATASET IS BEING PUNCHED
68	(44)	BITSTRING	0	NDHGF2RM	"B'00100000" FIELD NDHGRMT CONTAINS TRUE REMOTE (NOT USERID)
68	(44)	BITSTRING	0	NDHGF2HB	"B'00010000" HOLD DATASET BEFORE PRINT OR PUNCH OPERATION
68	(44)	BITSTRING	0	NDHGF2HA	"B'00001000" HOLD DATASET AFTER PRINT OR PUNCH OPERATION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----+-----+-----+-----+-----					
| NDHGFLG1 | NDHGFLG2 | NDHGFLG2 | NOTE #1 -					
OUTDISP | NDHGF1HD | NDHGF2HB | NDHGF2HA | These bit					
-----+-----+-----+-----+-----| combinations only					
WRITE | 0 | 0 | 0 | 0 | occur when SYSOUT					
-----+-----+-----+-----+-----| created by a					
KEEP | #1 | 0 | 0 | 1 | 1 | version 4 system					
-----+-----+-----+-----+-----| is released by a					
WRITE | #1 | 0 | 1 | 1 | 0 | down level (pre					
-----+-----+-----+-----+-----| SP410) system.					
KEEP | #1 | 0 | 1 | 1 | 1 |					
-----+-----+-----+-----+-----					
HOLD | #2 | 1 | 0 | 0 | 0 |					
-----+-----+-----+-----+-----| NOTE #2 -					
KEEP | 1 | 1 | 0 | 1 | 1 | This combination will					
-----+-----+-----+-----+-----| be considered as					
HOLD | 1 | 1 | 1 | 0 | 0 | OUTDISP = HOLD when					
-----+-----+-----+-----+-----| received from a down					
LEAVE | 1 | 1 | 1 | 1 | 1 | level node.					
-----+-----+-----+-----+-----					
GENERAL SECTION,NDHGUCSO					

End of Comment					
68	(44)	BITSTRING	0	NDHGUCSO	"B'10000000" BLOCK DATA CHECK OPTION
68	(44)	BITSTRING	0	NDHGUCSF	"B'01000000" FOLD OPTION

Comment					
3800 CHARACTERISTICS GENERAL SECTION, NDHAFLG1					
End of Comment					
68	(44)	BITSTRING	0	NDHAF1J	"B'10000000" 'OPTCD=J' SPECIFIED
68	(44)	BITSTRING	0	NDHAF1BR	"B'01000000" 'BURST=YES' SPECIFIED
68	(44)	BITSTRING	0	NDHAF1BN	"B'00100000" 'BURST=NO' SPECIFIED
68	(44)	BITSTRING	0	NDHAF1BD	"B'01100000" TEST 'BURST DEFAULT' BYTE REAL DEFAULT IS '.00.....'
68	(44)	X'8B	0	NDHMAXLN	"(253-4)*127+4" Maximum size of dataset header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

\$NHD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NDHA\$MOD	3	80	NDHATAB2	10	40404040
NDHACPYG	38	0	NDHATAB3	18	40404040
NDHAEND	40		NDHATAB4	20	40404040
NDHAFLCT	5		NDHATREF	6	0
NDHAFLGS	2		NDHATYPE	2	
NDHAFLG1	4	0	NDHC\$MOD	3	40
NDHAFLSH	28	40404040	NDHCEND	8	
NDHAF1BD	44	60	NDHCFLGS	2	
NDHAF1BN	44	20	NDHCFLG1	4	0
NDHAF1BR	44	40	NDHCLEN	0	
NDHAF1J	44	80	NDHCLLEN	8	8
NDHALEN	0	40	NDHCLREC	6	
NDHALLEN	40	40	NDHCMOD	3	
NDHAMOD	3		NDHCRCFM	5	0
NDHAMODF	30	40404040	NDHCTYPE	2	
NDHATAB1	8	40404040	NDHFLAGS	2	0

\$NHD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NDHG	4		NDHOXACT	40	
NDHG\$MOD	7		NDHOXEDT	2C	
NDHGCLAS	33	C1	NDHOXEND	44	
NDHGDD	28	40404040	NDHOXEST	18	
NDHGDSCT	3C		NDHOXETS	28	
NDHGDSNO	30	0	NDHOXFGX	2	
NDHGEND	78		NDHOXFG1	4	
NDHGFCB	48	40404040	NDHOXJBN	8	
NDHGFCBI	3D		NDHOXLEN	0	
NDHGFLGS	6		NDHOXLLN	44	44
NDHGFLG1	38	0	NDHOXMOD	3	
NDHGFLG2	68	0	NDHOXTUD	38	
NDHGFORM	40	40404040	NDHOXTYP	2	
NDHGF1HD	44	40	NDHOXUID	30	
NDHGF1IN	44	8	NDHOXWKD	10	
NDHGF1LC	44	4	NDHOXXST	20	
NDHGF1LG	44	20	NDHOX1UN	4	80
NDHGF1OV	44	10	NDH\$SOUT	3	
NDHGF1SP	44	80	NDHSEQ	3	0
NDHGF1ST	44	2	NDHSFLEN	4	1C
NDHGF2HA	44	8	NDHSFLGS	2	
NDHGF2HB	44	10	NDHSFLG1	6	0
NDHGF2PR	44	80	NDHSGPID	14	0
NDHGF2PU	44	40	NDHSJDVT	8	0
NDHGF2RM	44	20	NDHSLEN	0	
NDHGLEN	4		NDHSLEN2	14	1C
NDHGLLEN	78	74	NDHSMOD	3	
NDHGLNCT	3E		NDHSNSTR	10	0
NDHGLREC	3A	0	NDHSSDAT	1C	
NDHGMOD	7		NDHSTYPE	2	
NDHGNAME	60	40404040	NDHS1CPD	6	80
NDHGNODE	8	40404040	NDHT\$MOD	3	
NDHGNREC	34	0	NDHTEND	8	
NDHGPMDE	6C	40404040	NDHTFLGS	2	
NDHGPROC	18	40404040	NDHTLEN	0	
NDHGRCFM	39	0	NDHTLENP	4	
NDHGRMT	10	40404040	NDHTLLEN	8	8
NDHGSEC	32		NDHTMOD	3	
NDHGSEGN	74	0	NDHTTOKN	8	
NDHGSTEP	20	40404040	NDHTTYPE	2	
NDHGTYPE	6		NDHU\$MOD	3	
NDHGUCS	50	40404040	NDHUCODE	4	40404040
NDHGUCSD	44	80	NDHUEND	8	
NDHGUCSF	44	40	NDHUFLGS	2	
NDHGUCSO	69	0	NDHULEN	0	
NDHGXWTR	58	40404040	NDHULLEN	8	8
NDHLBCI	3	4	NDHUMOD	3	
NDHLEN	0		NDHUTYPE	2	
NDHLLEN	78	78	NJHA\$MOD	3	
NDHMAXLN	44	8B	NJHAFLEN	6	8
NDHO\$MOD	3	80	NJHAFLGS	2	
NDHO\$MTP	3	C0	NJHAFLG1	4	
NDHODSNO	10	0	NJHAF1OV	4	80
NDHOEND	18		NJHAJAC1	B	
NDHOFLGS	2		NJHAJLEN	8	
NDHOFLG1	16		NJHAJNR	A	
NDHOF1NF	16	40	NJHALEN	0	
NDHOF1SF	16	80	NJHAMOD	3	
NDHOLEN	0		NJHAOFFS	6	
NDHOLLEN	18	18	NJHATYPE	2	
NDHOMOD	3		NJHE\$JS	3	
NDHOPRIO	14	0	NJHEBYTE	8	0
NDHOTIME	C	0	NJHEEND	C	
NDHOTYPE	2		NJHEFLGS	2	
NDHOUSER	4	40404040	NJHELEN	0	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NJHELLEN	C	C	NJHOF1G1	4	0
NJHEMOD	3		NJHOF1G2	5	0
NJHEPAGE	4	0	NJHOF1CV	54	4
NJHETYPE	2		NJHOF1HD	54	80
NJHFLAGS	2	0	NJHOF1HO	54	40
NJHG	4		NJHOF1MC	54	20
NJHG\$MOD	7		NJHOF1MH	54	8
NJHGACCT	14	40404040	NJHOF1MS	54	10
NJHGBLDG	C0	40404040	NJHOF2ED	54	20
NJHGDEPT	B8	40404040	NJHOF2PR	54	80
NJHGECRD	98	0	NJHOF2SD	54	40
NJHGELIN	94	0	NJHOLEN	0	
NJHGEND	D8		NJHOLLEN	54	54
NJHGETIM	90	0	NJHOMOD	3	
NJHGETS	3C	0	NJHOOJBN	38	
NJHGFLGS	6		NJHOOJNO	20	0
NJHGFLG1	C	0	NJHOPRIO	6	0
NJHGFORM	84	40404040	NJHOPRRM	2C	0
NJHGF1CA	C	4	NJHOPRTN	24	40404040
NJHGF1CF	C	8	NJHOPRTU	10	40404040
NJHGF1JN	C	40	NJHOPUNN	2E	40404040
NJHGF1NE	C	1	NJHOPUNU	18	40404040
NJHGF1PE	C	2	NJHOPURM	36	0
NJHGF1PR	C	80	NJHOSAF	22	0
NJHGHOPS	12	0	NJHOSCHE	44	
NJHGICRD	8C	0	NJHOSRVC	3C	
NJHGJCLS	A	C1	NJHOTIME	8	0
NJHGJCPY	F		NJHOTYPE	2	
NJHGJID	8	0	NJHOXFGS	2	
NJHGJNAM	1C	40404040	NJHOXFG1	4	0
NJHGJNO	CC	0	NJHOXLLN	A	A
NJHGLEN	4		NJHOXLN	0	
NJHGLLEN	D8	D4	NJHOXMOD	3	
NJHGLNCT	10		NJHOXOFF	6	
NJHGMCLS	B	C1	NJHOXSAF	A	
NJHGMOD	7		NJHOXSAL	8	
NJHGMPAS	34		NJHOXTYP	2	
NJHGNTY	C8	0	NJHOX1IM	4	80
NJHGNTYN	D0	40404040	NJHOX1NY	4	40
NJHGORGN	44	40404040	NJHSEQ	3	0
NJHGORGQ	E		NJHT\$MOD	3	
NJHGORGR	4C	40404040	NJHTEND	8	
NJHGORGU	D8	24	NJHTFLGS	2	
NJHGPASS	2C		NJHTFLG0	6	0
NJHGPRGN	9C	40404040	NJHTF0JB	6	80
NJHGPRIO	D		NJHTLEN	0	
NJHGPRTN	64	40404040	NJHTLENP	4	
NJHGPRTR	6C	40404040	NJHTLLEN	8	8
NJHGPUNN	74	40404040	NJHTMOD	3	
NJHGPUNR	7C	40404040	NJHTTOKN	8	
NJHGROOM	B0	40404040	NJHTTYPE	2	
NJHGTYPE	6		NJHU\$MOD	3	
NJHGUSID	24	40404040	NJHUCODE	4	40404040
NJHGXEQN	54	40404040	NJHUEND	8	
NJHGXEQU	5C	40404040	NJHUFLGS	2	
NJHLBCI	3	4	NJHULEN	0	
NJHLEN	0		NJHULLEN	8	8
NJHLLN	54	6C	NJHUMOD	3	
NJHMAXLN	54	8B	NJHUTYPE	2	
NJHO\$AFF	3	C0	NJH2\$MOD	3	
NJHO\$MOD	3	80	NJH2\$RSV	3	1
NJHOCLAS	7	0	NJH2ACCT	8	40404040
NJHODATE	C	0	NJH2ACML	2C	34
NJHOEND	54		NJH2END	34	
NJHOF1G1	2		NJH2FJOB	34	3

\$NHD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NJH2FLGS	2		NJTSAPAG	4	0
NJH2FLG1	4	0	NJTSEND	C	
NJH2FSTC	34	1	NJTSEQ	3	0
NJH2FTSU	34	2	NJTSFLGS	2	
NJH2GRP	1C	0	NJTSLEN	0	
NJH2LEN	0		NJTSLLEN	C	C
NJH2LLEN	34	34	NJTSMOD	3	
NJH2MOD	3		NJTSTYPE	2	
NJH2SGRP	2C	0	NJTU\$MOD	3	
NJH2SUSR	24	0	NJTUCODE	4	40404040
NJH2TPO	34	8	NJTUEND	8	
NJH2TYPE	2		NJTUFLGS	2	
NJH2USE	34	4	NJTULEN	0	
NJH2USID	C	40404040	NJTULLEN	8	8
NJH2USR	14	0	NJTUMOD	3	
NJT\$ACCT	3		NJTUTYPE	2	
NJTFLAGS	2	0	NTYPACCT	54	8D
NJTG	4		NTYPASP	54	81
NJTG\$MOD	7		NTYPGDS	54	89
NJTGACPU	1C	0	NTYPGEN	54	
NJTGACRD	24	0	NTYPGJS	54	8A
NJTGALIN	20	0	NTYPHASP	54	82
NJTGAOPR	2F		NTYPJES1	54	83
NJTGAXPR	2D		NTYPJES2	54	84
NJTGCAB	30	80	NTYPJES3	54	85
NJTGCABN	30	5	NTYPPOWR	54	86
NJTGCC	30		NTYPSAF	54	8C
NJTGCCAB	30	6	NTYPSUB	54	80
NJTGCCAN	30	4	NTYPUSER	54	C0
NJTGCCC	30	40	NTYPVNET	54	87
NJTGCCCC	30	2			
NJTGCCCEOM	30	8			
NJTGCJCL	30	3			
NJTGCNRM	30	1			
NJTGCODE	31				
NJTGCOMP	30				
NJTGCSEC	30	7			
NJTGCUNK	30				
NJTGEND	34				
NJTGEXCP	28	0			
NJTGFLGS	6				
NJTGFLG1	8	0			
NJTGIOPR	2E				
NJTGIXPR	2C				
NJTGLEN	4				
NJTGLLEN	34	30			
NJTGMOD	7				
NJTGSTOP	14	0			
NJTGSTRT	C	0			
NJTGTYPE	6				
NJTGXCLS	9	C1			
NJTLBCI	3	4			
NJTLEN	0				
NJTLLEN	C	4C			
NJTMAXLN	C	8B			
NJTO\$MOD	3	80			
NJTODATE	8	0			
NJTOEND	C				
NJTOFLGS	2				
NJTOLEN	0				
NJTOLLEN	C	C			
NJTOMOD	3				
NJTOTIME	4	0			
NJTOTYPE	2				
NJTSABYT	8	0			

\$NIT Programming Interface information

Programming Interface information

\$NIT

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

- NITNSACT
- NITPASS
- NITSPASS

End of Programming Interface information

\$NIT Heading Information

Common Name: Node Information Table
Macro ID: \$NIT
DSECT Name: NIT NITPSECT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of NITs is preceded by an eyecatcher *****\$NIT POOL***** in the header for the pool.
 Offset: HDPID-HDP
 Length: 13

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

Size: NITMINL during JES2 initialization
 NITMINL plus NITPL*\$NUMPATH (later)

Created by: JES2 initialization
Pointed to by: \$NITABLE field of the \$HCT data area
 \$OWNNIT field of the \$HCT data area
 NSANIT field of the \$NSACT data area
 NITNXTSB field of the \$NIT data area
 NITPLINE field of the \$NIT data area
 NITPPNOD field of the \$NIT data area
 NATPNIT field of the \$NAT data area
 NATSNIT field of the \$NAT data area

Serialization: JES2 main task serialization for most fields.
 There are some fields that can only be used under the subtask in "full path" processing.

Function: To define the nodes in the network this JES2 system is a part of, as well as the paths to those nodes. The NIT is a contiguous piece of virtual storage, with one element for each node (\$MAXNODE during initialization, (NJEDEF NODENUM) after initialization). The correct length at any one time is in the \$NITESIZ HCT field.

\$NIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NIT	
0	(0)	X'3'	0	NITVERS	"3" Current NIT version
0	(0)	CHARACTER	8	NITNODE	NODE IDENTIFICATION
8	(8)	SIGNED	2	NITNUM	INTERNAL NODE NUMBER (BINARY)
10	(A)	BITSTRING	1	NITPRINC	JOB RECEIVER PRIORITY INCREMENT
11	(B)	BITSTRING	1	NITPR LIM	JOB RECEIVER PRIORITY LIMIT
12	(C)	SIGNED	2	NITLOGN	LOGON DCT NUMBER
14	(E)	BITSTRING	1	NITFLAG	FLAGS
Comment					
EQU B'10000000' RESERVED FOR FUTURE USE					
End of Comment					
14	(E)	BITSTRING	0	NITFLAGA	"B'01000000" AUTO DIAL BSC LINE
14	(E)	BITSTRING	0	NITFLAGX	"B'00100000" EXCLUSIVE CONNECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	BITSTRING	0	NITFLAGR	"B'00001000" NODE RESTRICTED FROM LOCAL COMMANDS
14	(E)	BITSTRING	0	NITFLAGJ	"B'00000100" NODE RESTRICTED FROM JOB COMMANDS
14	(E)	BITSTRING	0	NITFLAGD	"B'00000010" NODE RESTRICTED FROM DEVICE COMMANDS
14	(E)	BITSTRING	0	NITFLAGS	"B'00000001" NODE RESTRICTED FROM SYSTEM COMMANDS
15	(F)	BITSTRING	1	NITFLG2	Flag byte
15	(F)	BITSTRING	0	NIT2NOPM	"B'10000000" Nonpath manager indicator
15	(F)	BITSTRING	0	NIT2PRIV	"B'01000000" Private node indicator
15	(F)	BITSTRING	0	NIT2TRAC	"B'00100000" \$TRACE this node
15	(F)	BITSTRING	0	NIT2OWN	"B'00010000" Local node indicator
15	(F)	BITSTRING	0	NIT2ADJ	"B'00001000" Adjacent node indicator
15	(F)	BITSTRING	0	NIT2IRST	"B'00000100" Ignore resistance from node if non-PM signon
15	(F)	BITSTRING	0	NIT2ENDN	"B'00000010" End node only indicator
16	(10)	BITSTRING	1	NITSF	SYSTEM CONDITION FLAGS
16	(10)	BITSTRING	0	NITSFPJT	"B'10000000" JOB TRANSMITTERS ARE DRAINED
16	(10)	BITSTRING	0	NITSFPJR	"B'01000000" JOB RECEIVERS ARE DRAINED
16	(10)	BITSTRING	0	NITSFPST	"B'00100000" SYSOUT TRANSMITTERS ARE DRAINED
16	(10)	BITSTRING	0	NITSFPSR	"B'00010000" SYSOUT RECEIVERS ARE DRAINED
16	(10)	BITSTRING	0	NITSFHJR	"B'00001000" JOB RECEIVERS ARE TO HOLD JOBS
16	(10)	BITSTRING	0	NITSFHJR	"B'00000100" SYSOUT RECEIVERS ARE TO HOLD JOBS
16	(10)	BITSTRING	0	NITSPEN	"B'00000010" Use Password encryption
16	(10)	BITSTRING	0	NITSFREA	"B'00000001" Node is currently reachable
17	(11)	CHARACTER	8	NITPASS	Password expected from node
25	(19)	CHARACTER	8	NITSPASS	Password sent to node
33	(21)	BITSTRING	1	NITCMPCT	COMPACTION TABLE ID
34	(22)	SIGNED	2	NITREST	DEFAULT APPL RESISTANCE
36	(24)	SIGNED	4	(0)	
36	(24)	ADDRESS	4	NITNSACT	Ptr to related NSACT entry
40	(28)	ADDRESS	4	NITNXTSB	Ptr to next NIT in subnet
44	(2C)	CHARACTER	8	NITSUBST	Subnet name
52	(34)	CHARACTER	8	NITLMODE	Default VTAM logmode
60	(3C)	SIGNED	2	NITLINE	Dedicated line number
62	(3E)	SIGNED	2		Reserved for future use
62	(3E)	X'40	0	NITMINL	**-"NIT" Minimum (INIT) NIT elmt len
64	(40)	ADDRESS	4	NITNAT	Chain of related NATs

Comment

 The following 3 fields are used by full path.

End of Comment

68	(44)	ADDRESS	4	NITNITPN	Next NIT in full path chain
72	(48)	ADDRESS	4	NITNITPP	Prev NIT in full path chain
76	(4C)	ADDRESS	4	NITBNITP	Addr of best unexplored NPMNITP
80	(50)	ADDRESS	4	NITRESV3	Reserved for future use
80	(50)	X'54	0	NITBLEN	**-"NIT" Length of the base NIT
84	(54)	BITSTRING	1	NITPATH1	First path information

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITPSECT	INDIVIDUAL PATH FIELDS
0	(0)	X'10'	0	NITP	**,"16" Path element
0	(0)	ADDRESS	4	NITPLINE	Associated DCT or NIT
0	(0)	X'4'	0	NITL	"NITPLINE-NITPSECT,4" Offset for line
4	(4)	ADDRESS	4	NITPREST	PATH RESISTANCE
4	(4)	X'4 00004'	0	NITR	"NITPREST-NITPSECT,4" Offset for resistance
4	(4)	BITSTRING	0	NITPMT	"X'7FFFFFFF" Indicate empty path
8	(8)	ADDRESS	4	NITPPNOD	Addr of prev NIT in path

\$NIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	BITSTRING	1	NITPFLAG	Flag byte
12	(C)	BITSTRING	0	NITPFSTA	"B'10000000" Path is via static connect
12	(C)	BITSTRING	0	NITPFNIT	"B'01000000" NITPLINE points to a NIT
12	(C)	BITSTRING	0	NITPFSUB	"B'00100000" Path is through a subnet
13	(D)	BITSTRING	1	NITPMEMB	Member number if NITPFSTA is set
13	(D)	X'D 00001'	0	NITM	"NITPMEMB-NITPSECT,1" Offset for member
14	(E)	BITSTRING	1	NITPMEMP	Member with primary line
14	(E)	X'E 00001'	0	NITMP	"NITPMEMP-NITPSECT,1" Offset for primary member
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	SIGNED	4	(0)	Ensure fullword alignment
16	(10)	X'10 '	0	NITPL	"*-NITPSECT"
16	(10)	X'10 '	0	NITPNEXT	"**"

\$NIT Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
NITBLEN	50	54		NITSFHSR	10	4
NITBNITP	4C			NITSFPEN	10	2
NITCMPCT	21	0		NITSF PJR	10	40
NITFLAG	E			NITSF PJT	10	80
NITFLAGA	E	40		NITSFPSR	10	10
NITFLAGD	E	2		NITSF PST	10	20
NITFLAGJ	E	4		NITSF FREA	10	1
NITFLAGR	E	8		NITSPASS	19	40404040
NITFLAGS	E	1		NITSUBST	2C	
NITFLAGX	E	20		NITVERS	0	3
NITFLG2	F			NIT2ADJ	F	8
NITL	0	4		NIT2ENDN	F	2
NITLINE	3C			NIT2IRST	F	4
NITLMODE	34			NIT2NOPM	F	80
NITLOGN	C			NIT2OWN	F	10
NITM	D	D	00001	NIT2PRIV	F	40
NITMINL	3E	40		NIT2TRAC	F	20
NITMP	E	E	00001			
NITNAT	40					
NITNITPN	44					
NITNITPP	48					
NITNODE	0	40404040				
NITNSACT	24					
NITNUM	8	0				
NITNXTSB	28					
NITP	0	10				
NITPASS	11	40404040				
NITPATH1	54					
NITPFLAG	C	0				
NITPFNIT	C	40				
NITPFSTA	C	80				
NITPFSUB	C	20				
NITPL	10	10				
NITPLINE	0					
NITPMEMB	D					
NITPMEMP	E					
NITPMT	4	FF				
NITPNEXT	10	10				
NITPPNOD	8					
NITPREST	4					
NITPRINC	A	0				
NITPR LIM	B	F				
NITR	4	4	00004			
NITREST	22					
NITRESV3	50					
NITSF	10					
NITSFHJR	10	8				

\$NJTWORK Programming Interface information

Programming Interface information

\$NJTWORK

End of Programming Interface information

\$NJTWORK Heading Information

Common Name: JES2 Job Transmitter PCE Work Area
Macro ID: \$NJTWORK
DSECT Name: PCE (\$NJTWORK 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 JTWPCEWS 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: \$NJTPCE field of the \$HCT data area
 \$OJTPCE field of the \$HCT data area
 \$NRTPCE field of the \$HCT data area
 DCTPCE field of the \$DCT 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 Job Transmitter Processor and by its support routines and exits. \$NJTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NJTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENJTID or PCENRTID in the second byte of field PCEID.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

\$NJTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
0	(0)	BITSTRING	8	JTWKEY (0)	JOB AND DATA SET KEYS
0	(0)	BITSTRING	4	JTWJBKEY	JOB IDENTIFIER KEY
4	(4)	BITSTRING	4	JTWDSKEY	DATA SET KEY
8	(8)	SIGNED	4	JTWNJTON (2)	PROCESSOR SIGN-ON TIME AND DATE
16	(10)	DBL WORD	8	JTWEXTPL	\$EXTP PARAMETER LIST AREA
24	(18)	BITSTRING	1	JTWRSRCB	SRCB SAVED FOR ROUTE RECEIVER
25	(19)	BITSTRING	1	JTWFLAG1	FLAG BYTE
26	(1A)	SIGNED	2	JTWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
28	(1C)	SIGNED	4	JTWCOUNT	COUNT OF RECORDS TRANSMITTED
32	(20)	ADDRESS	4	JTWSBUF	SMF BUFFER POINTER
36	(24)	ADDRESS	4	JTWNJH	Address of job header
40	(28)	ADDRESS	4	JTWNJT	Address of job trailer
44	(2C)	ADDRESS	4	JTWIOT	IOT Buffer address
48	(30)	ADDRESS	4	JTWJCT	JCT Buffer address
52	(34)	ADDRESS	4	JTWDSBUF	JCL/SYSIN data buffer
56	(38)	ADDRESS	4	JTWRECCT	Total record count

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	ADDRESS	4	JTWCURRC	Current record count, not including header/trailer records
64	(40)	BITSTRING	1	JTWORCFM	Previous RECFM
65	(41)	BITSTRING	1	JTWNRCFM	New RECFM
66	(42)	BITSTRING	1	JTWOLRCL	Previous LRECL
67	(43)	BITSTRING	1	JTWNLRCL	New LRECL
68	(44)	CHARACTER	10	JTWDEVN	Device name for messages
78	(4E)	BITSTRING	2		Reserved for future use

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

80	(50)	DBL WORD	8		SNA WORK AREA
88	(58)	BITSTRING	256	JTWORK	WORK AREA
344	(158)	ADDRESS	4	JTWPARM	NODE TABLE ADDRESS
348	(15C)	ADDRESS	4		CONTROL BLOCK ADDRESS
352	(160)	ADDRESS	4		CLASS LIST ADDRESS
356	(164)	ADDRESS	4		ADDRESS OF JQE
360	(168)	ADDRESS	1		CLASS LIST LENGTH
361	(169)	ADDRESS	1		QUEUE TYPE SPECIFIED
362	(16A)	ADDRESS	1		WORK SELECTION TYPE FLAG
363	(16B)	ADDRESS	1		RESERVED FOR FUTURE USE
363	(16B)	X'58 00014'	0	JTWLST	"JTWPARM,*-JTWPARM" QGET PARAMETER LIST STORAGE
363	(16B)	X' '	0	JTWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA JTWFLAG1
363	(16B)	BITSTRING	0	JTWF1MSG	"B'10000000" INACTIVE MESSAGE HAS BEEN ISSUED
363	(16B)	BITSTRING	0	JTWF1DAT	"B'01000000" INVALID DATA BLOCK MSG REQUIRED
363	(16B)	BITSTRING	0	JTWF1HLD	"B'00100000" HOLD JOB AFTER RESTART OF DEVICE
363	(16B)	BITSTRING	0	JTWF1PEF	"B'00010000" PASSWORD ENCRYPTION FAILED
363	(16B)	BITSTRING	0	JTWF1JDM	"B'00001000" Write JOB deleted message
363	(16B)	BITSTRING	0	JTWF1CUQ	"B'00000100" Return job to current queue
363	(16B)	BITSTRING	0	JTWF1NDT	"B'00000010" No data records have been transmitted yet.
363	(16B)	BITSTRING	0	JTWF1SRC	"B'00000001" Found an SCR; LRECL/RECFM may have changed

\$NJTWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JTWCOUNT	1C		JTWNLRCL	43	
JTWCURRC	3C		JTWNRCFM	41	
JTWDEVN	44		JTWOLRCL	42	
JTWDSBUF	34		JTWORCFM	40	
JTWDSKEY	4		JTWPARM	158	
JTWEXTPL	10		JTWPCEWS	16B	
JTWFLAG1	19		JTWRECCT	38	
JTWF1CUQ	16B	4	JTWSRRCB	18	
JTWF1DAT	16B	40	JTWSBUF	20	
JTWF1HLD	16B	20	JTWORK	58	
JTWF1JDM	16B	8			
JTWF1MSG	16B	80			
JTWF1NDT	16B	2			
JTWF1PEF	16B	10			
JTWF1SRC	16B	1			
JTWHDRLN	1A				
JTWIOT	2C				
JTWJBKEY	0				
JTWJCT	30				
JTWKEY	0				
JTWLST	16B	58			00014
JTWNJH	24				
JTWNJT	28				
JTWNJTON	8				

\$NJTWORK Cross Reference

\$NSACT Programming Interface Information

Programming Interface Information

\$NSACT

End of Programming Interface Information

\$NSACT Heading Information

Common Name: Network Subnet AnChor Table Entry
Macro ID: \$NSACT
DSECT Name: NSACT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: NSA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 0
 Key: 1
 Residency: VIRTUAL - Anywhere REAL - Anywhere
Size: See NSALEN
Created by: PSTNODE termination
Pointed to by: PCTNSAAQ fields of the PCT data area
 NSANEXT fields of the NSACT data area
 FREQUENCY: One per each defined subnet
Serialization: Normal PCE dispatch serialization
Function: The NSACT is a linked list of the subnets currently defined to the system and a pointer to a list of NITs describing the members of that subnet.

\$NSACT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1'	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18'	0	NSALEN	"*-NSACT" Length of an NSACT

\$NSRWORK Programming Interface information

Programming Interface information

\$NSRWORK

End of Programming Interface information

\$NSRWORK Heading Information

Common Name: JES2 SYSOUT Receiver PCE Work Area
Macro ID: \$NSRWORK
DSECT Name: PCE (\$NSRWORK 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 SRWPCEWS 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 \$NSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Network SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
 The \$OSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Offload SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
 The DCTPCE field of the \$DCT data area (see "Function" below)

Serialization: Normal PCE dispatch serialization

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

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

\$NSRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1 '	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18	0	NSALEN	"*-NSACT" Length of an NSACT

\$NSRWORK Map

\$NSTWORK Programming Interface information

Programming Interface information

\$NSTWORK

End of Programming Interface information

\$NSTWORK Heading Information

Common Name: JES2 Sysout Transmitter PCE Work Area
Macro ID: \$NSTWORK
DSECT Name: PCE (\$NSTWORK 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 STWPCEWS 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 \$NSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first network sysout transmitter PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The \$OSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first offload sysout transmitter 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 the JES2 Network Sysout Transmitter and the Offload Sysout Transmitter processor and by its support routines and exits. \$NSTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NSTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSTID in the second byte of field PCEID.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

\$NSTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP NETWORK SYSOUT TRANSMITTER
0	(0)	X' '	0	STWINIT	*** START OF DATA TO BE ZEROED AT INITIALIZATION
0	(0)	SIGNED	2	STWNODE	DESTINATION NODE FOR CURRNT JOB
2	(2)	BITSTRING	1	STWDCTF	FLAGS TO BE MOVED TO DCT
3	(3)	BITSTRING	1	STWJQEF	FLAGS TO BE MOVED TO JQE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	1	STWFLAGS	INTERNAL FLAGS FOR TRANSMITTER
4	(4)	BITSTRING	0	STW\$NORM	"B'10000000" NORMAL DATA SETS TO TRANSMIT
4	(4)	BITSTRING	0	STW\$SPIN	"B'01000000" SPIN DATA SETS TO TRANSMIT
4	(4)	BITSTRING	0	STW\$IDLE	"B'00100000" 'IDLE' MESSAGE ISSUED
4	(4)	BITSTRING	0	STW\$MULT	"B'00010000" MULTI-DESTINATION SCAN MODE
4	(4)	BITSTRING	0	STW\$AUTH	"B'00000100" Authorization failure
4	(4)	BITSTRING	0	STW\$IOT	"B'00000010" IOT SPOOL I/O ERROR
4	(4)	BITSTRING	0	STW\$INV	"B'00000001" FIRST BLOCK IS INVALID
5	(5)	BITSTRING	1	STWFLAG2	SPOOL OFFLOAD FLAG BYTE
5	(5)	BITSTRING	0	STW\$HCQ	"B'10000000" DS FOUND ON HARDCPY QUEUE
5	(5)	BITSTRING	0	STW\$NODH	"B'01000000" This dataset header not to be sent (exit from multi-dest mode)
6	(6)	BITSTRING	1	STWFLAG3	GENERAL USE FLAG BYTE
6	(6)	BITSTRING	0	STW3ES57	"B'10000000" PRODUCE THE ESS SECTION OF THE SMF TYPE 57 RECORD
6	(6)	BITSTRING	0	STW3BFER	"B'01000000" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
6	(6)	BITSTRING	0	STW3MERG	"B'00100000" SWBTU merge is required for this data set
6	(6)	BITSTRING	0	STW3SWRD	"B'00010000" 1 - The JOE SWBIT chain is to be read in 0 - The PDDB SWBIT chain is to be read in
6	(6)	BITSTRING	0	STW3OPER	"B'00001000" A SWBIT read error occurred
6	(6)	BITSTRING	0	STW3XIST	"B'00000100" Data stream section was found in an existing DSH
6	(6)	BITSTRING	0	STW3ERON	"B'00000010" The JOE SWBIT chain only contains erase lists
6	(6)	BITSTRING	0	STW3SMAB	"B'00000001" Abend in \$SWBMERG service
7	(7)	BITSTRING	1	STWFLAG4	General use flag byte
7	(7)	BITSTRING	0	STW4JHS	"B'10000000" Network job header needs to be sent for this data set
7	(7)	BITSTRING	0	STW4SMRC	"B'01000000" Abend in \$SWBMERG cleanup call
7	(7)	BITSTRING	0	STW4HJOS	"B'00100000" Hold all the JOEs on the transmitter chain
8	(8)	ADDRESS	4	STWIOTBF	IOT BUFFER ADDRESS
12	(C)	ADDRESS	4	STWENPDB	POINTER PAST END OF PDDB'S IN IOT
16	(10)	ADDRESS	4	STWSPINJ	CURRENT SPIN JOE ADDRESS
20	(14)	ADDRESS	4	STWDSBUF	DATA SET BUFFER ADDRESS
24	(18)	ADDRESS	4	STWENBUF	END-OF-BUFFER ADDR FOR COMPARISON
28	(1C)	ADDRESS	4	STWHDBUF	DATA SET HEADER BUFFER ADDRESS
32	(20)	ADDRESS	4	STWHDTTR	MTRR OF BLOCK IN STWHDBUF
36	(24)	ADDRESS	4	STWNJH	Job header buffer address
40	(28)	ADDRESS	4	STWNJT	Job trailer buffer address
44	(2C)	ADDRESS	4	STWNDH	DS header buffer address

Comment

Fields STWNSWB through STWIPSWL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.

End of Comment

48	(30)	SIGNED	2	STWNSWB	Total number of SWBTUs
50	(32)	SIGNED	2	STWSWBL	Total size of SWBTUs
52	(34)	SIGNED	2	STWPSWBL	Total size of PDDB SWBTUs
54	(36)	SIGNED	2	STWJSWBL	Total size of JOE SWBTUs
56	(38)	SIGNED	2	STWPLSIZ	Size of SWBTU merge or splice pointer list entry
58	(3A)	SIGNED	2	STWMRGLN	Length of merged SWBTU storage area
60	(3C)	SIGNED	4	STWSEGID	Segment ID from PDDB
64	(40)	ADDRESS	4	STWSWBUF	PDDB SWBIT buffer chain
68	(44)	ADDRESS	4	STWJSWBF	JOE SWBIT buffer chain
72	(48)	ADDRESS	4	STWSWMRG	Address of \$SWBMERG parameter list
76	(4C)	ADDRESS	4	STWMRGTU	Address of merged SWBTU storage area
80	(50)	ADDRESS	4	STWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
84	(54)	ADDRESS	4	STWSPLIC	Addr of spliced SWBTU
88	(58)	ADDRESS	4	STWIPSWB	Address of merged SWBTU (after IPADDR processing)

\$NSTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
92	(5C)	SIGNED	2	STWSPLIL	Length of the spliced SWBTU
94	(5E)	SIGNED	2	STWIPLLEN	Length of the IP SWB area
96	(60)	SIGNED	2	STWIPSWL	Length of the merged SWBTU (after IPADDR processing)
98	(62)	SIGNED	2		Reserved
100	(64)	ADDRESS	4	STWJCT	JOB CONTROL TABLE BUFFER ADDRESS

Comment

THE FOLLOWING TWO FIELD MUST BE CONTIGIOUS

End of Comment

104	(68)	SIGNED	8	STWKEY (0)	JOB AND DATA SET KEYS
104	(68)	SIGNED	4	STWJBKEY	JOB KEY
108	(6C)	SIGNED	4	STWDSKEY	DATA SET KEY
112	(70)	SIGNED	4	STWSCRST	START ADDRESS OF SCR RECORD
116	(74)	SIGNED	4	STWMTTRL	MTTR FOR CURRENT BUFFER
120	(78)	SIGNED	4	STWMTTRC	MTTR OF CURRENT PDDB
124	(7C)	SIGNED	4	STWJQEO	JOB QUEUE ELEMENT OFFSET
128	(80)	SIGNED	4	STWNETCH	HEAD OF XMITTER'S JOE CHAIN
132	(84)	SIGNED	4	STWJOEO	CURRENT JOE OFFSET
136	(88)	BITSTRING	1	STWRECTP	SAVED SPANNED RECORD TYPE
137	(89)	BITSTRING	1	STWPFLG1	PDDBFLG1 OF LAST DS SENT
140	(8C)	SIGNED	4	STWNTTR	THIS JOBS NEWS TRACK ADDR
144	(90)	SIGNED	2	STWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
146	(92)	BITSTRING	2		RESERVED
148	(94)	SIGNED	4	STWRECCT	SUM OF JOERECCT'S
152	(98)	SIGNED	4	STWHDRCT	NUMBER OF DS HEADERS IN CURRENT MULTI-DEST DS
156	(9C)	SIGNED	4	STWCURRC	NUMBER OF JOERECCT ALREADY SENT
160	(A0)	SIGNED	4	STWCOUNT	COUNT OF LOGICAL TP RECORDS
164	(A4)	ADDRESS	4	STWSBUF	SMF BUFFER POINTER
168	(A8)	DBL WORD	8	STWEXTPL	EXTP PARAMETER LIST AREA
176	(B0)	DBL WORD	8	STWDBL	SCRATCH DOUBLEWORD
184	(B8)	DBL WORD	8	STWSTIME	SYSOUT TRANSMISSION START TIME
192	(C0)	ADDRESS	4	STWPDDB	Next PDDB to transmit
196	(C4)	SIGNED	4	STWNRECT	JESNEWS line count
200	(C8)	SIGNED	4	STWNPGCT	JESNEWS page count
200	(C8)	X'CC	0	STWINITL	** -STWINIT" LENGTH TO CLEAR AT INITIALIZATION
208	(D0)	DBL WORD	8	(0)	
208	(D0)	X'D0	0	STWVAR	*** START OF VARIABLE (OVERLAID) PORTION OF PCE WORK AREA

Comment

STWRIDW AND STWORK SHOULD NEVER BE SEPARATED BECAUSE THE TWO FIELDS ARE USED IN HASPSNA AS A CONSECUTIVE FIELD

End of Comment

208	(D0)	BITSTRING	8	STWRIDW	EXTP PUT RID AREA
216	(D8)	CHARACTER	260	STWORK	WORK AREA FOR MESSAGES
216	(D8)	X'D8	0	STWREC	"STWORK" START OF TEXT CONSTRUCTION AREA FOR CONTROL RECORDS
216	(D8)	X'	0	STWPCEWS	** -PCEWORK" LENGTH OF PCE WORK AREA

\$NSTWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
STW\$AUTH	4	4	STWSCRST	70	
STW\$HCQ	5	80	STWSEGID	3C	
STW\$IDLE	4	20	STWSPINJ	10	
STW\$INV	4	1	STWSPLIC	54	
STW\$IOT	4	2	STWSPLIL	5C	
STW\$MULT	4	10	STWSTIME	B8	
STW\$NODH	5	40	STWSWBL	32	
STW\$NORM	4	80	STWSWBUF	40	
STW\$SPIN	4	40	STWSWMRG	48	
STWCOUNT	A0		STWSWPTL	50	
STWCURRC	9C		STWVAR	D0	D0
STWDBL	B0		STWORK	D8	
STWDCTF	2		STW3BFER	6	40
STWDSBUF	14		STW3ERON	6	2
STWDSKEY	6C		STW3ES57	6	80
STWENBUF	18		STW3MERG	6	20
STWENPDB	C		STW3OPER	6	8
STWEXTPL	A8		STW3SMAB	6	1
STWFLAGS	4		STW3SWRD	6	10
STWFLAG2	5		STW3XIST	6	4
STWFLAG3	6		STW4HJOS	7	20
STWFLAG4	7		STW4JHS	7	80
STWHDBUF	1C		STW4SMRC	7	40
STWHDRCT	98				
STWHDRLN	90				
STWHDTR	20				
STWINIT	0				
STWINITL	C8	CC			
STWIOTBF	8				
STWIPLN	5E				
STWIPSWB	58				
STWIPSWL	60				
STWJBKEY	68				
STWJCT	64				
STWJOEO	84				
STWJQEF	3				
STWJQEO	7C				
STWJSWBF	44				
STWJSWBL	36				
STWKEY	68				
STWMRGLN	3A				
STWMRGTU	4C				
STWMTTRC	78				
STWMTTRL	74				
STWNDH	2C				
STWNETCH	80				
STWNJH	24				
STWNJT	28				
STWNODE	0				
STWNPCT	C8				
STWNRECT	C4				
STWNSWB	30				
STWNTTR	8C				
STWPCEWS	D8				
STWPDDB	C0				
STWPFLG1	89				
STWPLSIZ	38				
STWPSWBL	34				
STWREC	D8	D8			
STWRECCT	94				
STWRECTP	88				
STWRIDW	D0				
STWSBUF	A4				

\$NSTWORK Cross Reference

\$NTW Programming Interface information

Programming Interface information

\$NTW

End of Programming Interface information

\$NTW Heading Information

Common Name: HASP Network Path Manager Trace Work Area
Macro ID: \$NTW
DSECT Name: NTW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'NTW '
 Offset: NTWID-NTW
 Length: 4

Storage Attributes: Subpool: Subpool 0 for the permanent NTW; Subpool 1 for the temporary NTW.
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.

Size: See NTWLEN
Created by: JES2 Initialization
 JES2 Line Manager Processor

Pointed to by: PCTNTW field of the \$PCT data area (for the permanent work area created during JES2 initialization.)

Serialization: No special serialization other than that currently implied by the Network Path Manager.

Function: This DSECT maps a work area used to save information to be included in the following trace records: trace id 21, 22, 23 and 24.

There are 2 types of NTWs: permanent and temporary. The permanent one is obtained for the Network Path Manager and is used for most of the traces issued by the Network Path Manager. The temporary NTW is used by the Line Manager when sending an I-record.

The data in the NTW is used as an object of a \$TRACE macro (DATA=, LEN=). The trace formatting routine uses the \$TRACE macro to convert the internal representation to a printable format.

\$NTW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NTW	
0	(0)	CHARACTER	4	NTWID	NTW identifier
4	(4)	ADDRESS	1	NTWVERS	NTW version
4	(4)	X'2 '	0	NTWVERS	"2" Version number
8	(8)	SIGNED	4	NTWSTART (0)	Start of \$TRACE data
8	(8)	CHARACTER	1	NTWTYPE	Rec type: M, N, I, J, K, L,
9	(9)	BITSTRING	1	NTWFLAG1	
9	(9)	BITSTRING	0	NTW1SEND	"B'10000000" This is a send record
9	(9)	BITSTRING	0	NTW1DFUL	"B'01000000" Rec discon. by full path
9	(9)	BITSTRING	0	NTW1FFUL	"B'00100000" Rec forced full path rout.
9	(9)	BITSTRING	0	NTW1NCC	"B'00010000" An NCC was passed
9	(9)	BITSTRING	0	NTW1GAR	"B'00001000" Record is garbage
9	(9)	BITSTRING	0	NTW1MAS	"B'00000100" MAS validation NCC record
9	(9)	BITSTRING	0	NTW1MASP	"B'00000010" MAS validation pending
9	(9)	BITSTRING	0	NTW1MASD	"B'00000001" MAS validation completed
10	(A)	BITSTRING	1	NTWSTAT	Status for connection
11	(B)	BITSTRING	1	NTWOSTAT	Previous status for conn
12	(C)	BITSTRING	1	NTWRRRC	Reason code for why record Was rejected or sent
13	(D)	ADDRESS	1	NTWMEMB	Node qualifier
14	(E)	ADDRESS	2	NTWNODE	Node from which record rcvd

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	8	NTWCONS	Where record was from: LINEnnnn, MLINEn, 'FULLPATH', 'LINEDOWN', 'CONSOLE', 'PARMLIB'
24	(18)	SIGNED	4	NTWOCES	Previous CES
24	(18)	X'4	0	NTWCESL	"4" Length of unconverted CES
24	(18)	X'10	0	NTWCESL	"16" Length of converted CES
28	(1C)	SIGNED	4	NTWREC (0)	
28	(1C)	BITSTRING	0	NTWNAT	Space for NAT record
28	(1C)	BITSTRING	0	NTWNCCI	Space for NCC I/J record
28	(1C)	BITSTRING	0	NTWNCCK	Space for NCC K/L record
28	(1C)	BITSTRING	0	NTWNCCM	Space for NCC M/N record
28	(1C)	BITSTRING	3	NTWNCCB	Space for NCC B record
31	(1F)	X'17	0	NTWSIZE	** -NTWSTART" Size of NPM trace record
31	(1F)	X'1F	0	NTWLEN	** -NTW" Len of NPM work area

Comment

NTWRRC Reason codes

End of Comment

31	(1F)	X'1	0	NTWRINN	"1" Invalid Node Name
31	(1F)	X'2	0	NTWRMEM	"2" Invalid Member Number
31	(1F)	X'3	0	NTWRNSA	"3" No Storage Available
31	(1F)	X'4	0	NTWRICR	"4" Invalid resistance
31	(1F)	X'5	0	NTWRICS	"5" Invalid CES
31	(1F)	X'6	0	NTWRNDA	"6" No Devices Available
31	(1F)	X'7	0	NTWRTOL	"7" TOD Tolerance exceeded
31	(1F)	X'8	0	NTWRILP	"8" Invalid Line Password
31	(1F)	X'9	0	NTWRINP	"9" Invalid Node Password
31	(1F)	X'A	0	NTWRLNX	"10" Line Not Transparent
31	(1F)	X'B	0	NTWRIGN	"11" Ignored, Line Active
31	(1F)	X'C	0	NTWRGARB	"12" Ignored, Invalid record
31	(1F)	X'D	0	NTWRERR	"13" Ignored, ABEND processing
31	(1F)	X'E	0	NTWRKNOW	"14" Ignored, more recent connect exists
31	(1F)	X'F	0	NTWROWN	"15" Connection involves local node and member
31	(1F)	X'10	0	NTWRIFF	"16" Invalid NJE signon feature flags
31	(1F)	X'11	0	NTWRIPM	"17" Incorrect value for PATHMGR=
31	(1F)	X'12	0	NTWRIPT	"18" Non path manager CES received
31	(1F)	X'13	0	NTWRNOIB	"19" PREVIOUS I OR J RECORD WAS NOT ONLY IN BUFFER
31	(1F)	X'14	0	NTWROLDR	"20" IGNORED, AN OLD SUBTRACT NCC RECORD WAS RECEIVED
31	(1F)	X'15	0	NTWRLNPM	"21" IGNORED, RECORD RECEIVED ON A NON-PM LINE
31	(1F)	X'16	0	NTWRIGNA	"22" Ignored, line no longer active
31	(1F)	X'17	0	NTWRDUPM	"23" Duplicate primary and secondary node/member
31	(1F)	X'18	0	NTWRIMT	"24" Incorrect multi-trunk
31	(1F)	X'19	0	NTWRDCES	"25" Records with duplicate CES values were received

\$NTW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NTWCESL	18	10	NTWOCES	18	
NTWCESL	18	4	NTWOSTAT	B	
NTWCONS	10		NTWRDCES	1F	19
NTWFLAG1	9		NTWRDUPM	1F	17
NTWID	0	D5E3E640	NTWREC	1C	
NTWLEN	1F	1F	NTWRERR	1F	D
NTWMEMB	D		NTWRGARB	1F	C
NTWNAT	1C		NTWRICR	1F	4
NTWNCCB	1C		NTWRICS	1F	5
NTWNCCI	1C		NTWRIFF	1F	10
NTWNCCK	1C		NTWRIGN	1F	B
NTWNCCM	1C		NTWRIGNA	1F	16
NTWNODE	E		NTWRILP	1F	8

\$NTW Cross Reference

Name	Hex Offset	Hex Value
NTWRIMT	1F	18
NTWRINN	1F	1
NTWRINP	1F	9
NTWRIPM	1F	11
NTWRIPT	1F	12
NTWRKNOW	1F	E
NTWRLNPM	1F	15
NTWRLNX	1F	A
NTWRMEM	1F	2
NTWRNDA	1F	6
NTWRNOIB	1F	13
NTWRNSA	1F	3
NTWROLDLDR	1F	14
NTWROWN	1F	F
NTWRRC	C	
NTWRTOL	1F	7
NTWSIZE	1F	17
NTWSTART	8	
NTWSTAT	A	
NTWTYPE	8	
NTWVERS	4	
NTWVERSN	4	2
NTW1DFUL	9	40
NTW1FFUL	9	20
NTW1GAR	9	8
NTW1MAS	9	4
NTW1MASD	9	1
NTW1MASP	9	2
NTW1NCC	9	10
NTW1SEND	9	80

\$OCR Programming Interface Information

Programming Interface Information

\$OCR

End of Programming Interface Information

\$OCR Heading Information

Common Name: JES2 Output Control Record
Macro ID: \$OCR
DSECT Name: OCR
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Offset: N/A
Subpool and Key: Subpool 1 and key 1
Size: 128 bytes
Created by: HASPRDR, one for each /*OUTPUT card in a job
Pointed to by: \$OCTs are contained contiguously within a \$OCT starting at field OCTOCR
Serialization: Normal JES2 dispatch serialization
Function: The \$OCR contains the information supplied on a /*OUTPUT JES2 JCL statement. The OCRs are contained in the OCT.

\$OCR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	OCR	OUTPUT CONTROL RECORD DSECT
0	(0)	CHARACTER	4	OCRCODE	FORMS CODE
4	(4)	CHARACTER	5	(0)	KEEP MOD AND MODC TOGETHER
4	(4)	CHARACTER	4	OCRMODF	N/I PRINTER COPY-MOD IMAGE
8	(8)	BITSTRING	1	OCRMODFT	N/I PRINTER MODIFY TAB REF CHAR
9	(9)	BITSTRING	1	OCRFLAGS	OUTPUT FLAGS
10	(A)	BITSTRING	1	OCRINDEX	PRINT INDEX
11	(B)	BITSTRING	1	OCRCOPY	COPY COUNT (MUST PRECEDE COPYG)
12	(C)	CHARACTER	8	OCRCOPYG	N/I PRINTER COPY GROUPS
20	(14)	CHARACTER	4	OCRFORMS	FORMS SPECIFICATION
24	(18)	CHARACTER	4	OCRFCB	FCB SPECIFICATION
28	(1C)	CHARACTER	4	OCRUCS	UCS SPECIFICATION
32	(20)	SIGNED	4	OCRRECNT	RECORD COUNT LIMIT
36	(24)	CHARACTER	4	OCRCHAR1	N/I PRINTER TRANS-TABLE 1
40	(28)	CHARACTER	4	OCRCHAR2	N/I PRINTER TRANS-TABLE 2
44	(2C)	CHARACTER	4	OCRCHAR3	N/I PRINTER TRANS-TABLE 3
48	(30)	CHARACTER	4	OCRCHAR4	N/I PRINTER TRANS-TABLE 4
52	(34)	SIGNED	4	OCRDEST1	DESTINATION 1
56	(38)	CHARACTER	8	OCRUSER1	DESTINATION 1 USERID/RMTID
56	(38)	X'C	0	OCRUSDST	**-OCRDEST1" LNGTH OF 1 OCR USERID/DEST UNIT
64	(40)	SIGNED	4	OCRDEST2	DESTINATION 2
68	(44)	CHARACTER	8	OCRUSER2	DESTINATION 2 USERID/RMTID
76	(4C)	SIGNED	4	OCRDEST3	DESTINATION 3
80	(50)	CHARACTER	8	OCRUSER3	DESTINATION 3 USERID/RMTID
88	(58)	SIGNED	4	OCRDEST4	DESTINATION 4
92	(5C)	CHARACTER	8	OCRUSER4	DESTINATION 4 USERID/RMTID
92	(5C)	X'30	0	OCRUDND	**-OCRDEST1" END OF DEST/USER ID SECTION
100	(64)	CHARACTER	5	(0)	KEEP FLASH, FLASH CNT TOGETHER
100	(64)	CHARACTER	4	OCRFLASH	N/I PRINTER FLASH
104	(68)	BITSTRING	1	OCRFLSHC	N/I PRINTER # FLASH COPIES
105	(69)	BITSTRING	1	OCRCPN	COMPACTION TABLE NUMBER
106	(6A)	SIGNED	2	OCRCKPTP	NO. OF LOGICAL PAGES/CKPT
108	(6C)	SIGNED	2	OCRCKPTL	NO. OF LINES/LOGICAL PAGE
110	(6E)	BITSTRING	1	OCRINCT	LINECT
111	(6F)	BITSTRING	12		RESERVED
124	(7C)	SIGNED	4	OCREND (0)	END OF OUTPUT CONTROL RECORD
124	(7C)	X'7C	0	OCRLENG	**-OCR"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
OCRFLAGS					
					End of Comment
124	(7C)	BITSTRING	0	OCRBRSTN	"B'10000000" N/I PRINTER BURST=NO FLAG
124	(7C)	BITSTRING	0	OCRBRSTY	"B'01000000" N/I PRINTER BURST=YES FLAG
124	(7C)	BITSTRING	0	OCRLNCTF	"B'00100000" LINECT SPECIFIED
124	(7C)	BITSTRING	0	OCRFLAG3	"B'00010000" RESERVED
124	(7C)	BITSTRING	0	OCRFLAG4	"B'00001000" RESERVED
124	(7C)	BITSTRING	0	OCRFLAG5	"B'00000100" RESERVED
124	(7C)	BITSTRING	0	OCRFLAG6	"B'00000010" RESERVED
124	(7C)	BITSTRING	0	OCRFLAG7	"B'00000001" RESERVED

\$OCR Cross Reference

Name	Hex Offset	Hex Value
OCRBRSTN	7C	80
OCRBRSTY	7C	40
OCRCHAR1	24	
OCRCHAR2	28	
OCRCHAR3	2C	
OCRCHAR4	30	
OCRCKPTL	6C	
OCRCKPTP	6A	
OCRCODE	0	
OCRCOPY	B	
OCRCOPYG	C	
OCRCPPTN	69	
OCRDEST1	34	
OCRDEST2	40	
OCRDEST3	4C	
OCRDEST4	58	
OCREND	7C	
OCRFCB	18	
OCRFLAGS	9	
OCRFLAG3	7C	10
OCRFLAG4	7C	8
OCRFLAG5	7C	4
OCRFLAG6	7C	2
OCRFLAG7	7C	1
OCRFLASH	64	
OCRFLSHC	68	
OCRFORMS	14	
OCRINDEX	A	
OCRLENG	7C	7C
OCRLINCT	6E	
OCRLNCTF	7C	20
OCRMODF	4	
OCRMODFT	8	
OCRRECNT	20	
OCRUCS	1C	
OCRUDND	5C	30
OCRUSDST	38	C
OCRUSER1	38	
OCRUSER2	44	
OCRUSER3	50	
OCRUSER4	5C	

\$OCR Cross Reference

\$OCT Programming Interface information

Programming Interface information

\$OCT

End of Programming Interface information

\$OCT Heading Information

Common Name: Output Control Table
Macro ID: \$OCT
DSECT Name: OCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: OCT
 Offset: OCTID-OCT
 Length: L'OCTID

Storage Attributes: Subpool: 7 for Main Task, 230 for User Environment
 Key: 1
 Residency: The \$OCT is a JES2 spool resident control block. Virtual and real storage can be anywhere.

Size: See OCTLENG for the length of the control block.
 The OCT is contained in a buffer of size \$BUFSIZE which is a field in \$HCT.

Created by: Initially created by HASPRDR when a job encounters a /*OUTPUT card.

Pointed to by: OCTOCT field of the \$OCT data area
 SJBOCT field of the \$SJB data area
 OCTOCTTR field of the \$OCT data area (addr on spool)
 JCTOCTTR field of the \$JCT data area (addr on spool)
 Various fields in the processor work areas

Serialization: While a job is in execution, the OCT resides in the user address space, so that no other JES2 PCE will update the OCT. At other times, the JES2 dispatcher is used.

Function: The OCT is used to hold data from the /*OUTPUT control card until a PDDB is created into which the data is then moved.

\$OCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	OCT	HASP OUTPUT CONTROL TABLE DSECT
Comment					

The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					

End of Comment					
0	(0)	X' '	0	OCTOCT	"BUFMEMW1-BFPDSECT+OCT" Storage address of next OCT
Comment					

End of buffer prefix fields					

End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X' '	0	OCTSTART	*** START OF DATA WRITTEN TO SPOOL

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Reserved - 2 bytes Job number - 2 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)</p>					
End of Comment					
0	(0)	CHARACTER	4	OCTID	Eyecatcher
4	(4)	CHARACTER	8	OCTJNAME	Job name
12	(C)	BITSTRING	2		Reserved
14	(E)	SIGNED	2	OCTJOBNO	Job number
16	(10)	SIGNED	4	OCTJBKEY	Job key
20	(14)	BITSTRING	4		Reserved
20	(14)	X'18	0	OCTSPLNG	"*-OCTID"
24	(18)	ADDRESS	2	OCTLENG	LENGTH OF OCT INCLUDING PREFIX
26	(1A)	SIGNED	2		RESERVED FOR FUTURE USE
28	(1C)	BITSTRING	4	OCTTRACK	TRACK ADDRESS OF THIS OCT
32	(20)	BITSTRING	4	OCTOCTTR	TRACK ADDRESS OF NEXT OCT
36	(24)	SIGNED	4	OCTOCROF	OFFSET BEYOND LAST OCR IN OCT
40	(28)	BITSTRING	4		RESERVED FOR FUTURE USE
44	(2C)	BITSTRING	1	OCTOCR	START OF OUTPUT CONTROL RECORDS

\$OCT Cross Reference

Name	Hex Offset	Hex Value
OCTID	0	
OCTJBKEY	10	
OCTJNAME	4	
OCTJOBNO	E	
OCTLENG	18	
OCTOCR	2C	
OCTOCROF	24	
OCTOCT	0	
OCTOCTTR	20	
OCTSPLNG	14	18
OCTSTART	0	
OCTTRACK	1C	

\$OCT Cross Reference

\$ODPARM Programming Interface information

Programming Interface information

\$ODPARM

End of Programming Interface information

\$ODPARM Heading Information

Common Name: Output Descriptor Parameter Block
Macro ID: \$ODPARM
DSECT Name: ODPARM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'ODP '
 Offset: ODPID-ODP
 Length: 4

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

Size: See ODPSIZE

Created by: SJF Services processor for each request that is passed to the Output Descriptor Modify Subtask processor.

Pointed to by: SFRODP field of the \$SFRB data area

Serialization: None required; HASPSJFR subtask assigns one ODPARM per subtask to process a request.

Function: This macro provides the mapping of the parameters needed by the Output Descriptor routine called by the generalized subtask in support of SWB Modify processing.

\$ODPARM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ODPARM	
0	(0)	X' '	0	ODPBGN	***
0	(0)	CHARACTER	4	ODPID	Acronym set to 'ODP '
4	(4)	BITSTRING	1	ODPVER	Version number of ODPARM
4	(4)	X'1 '	0	ODPV#	"1" Current version number of ODPARM
5	(5)	BITSTRING	1	ODPRSV1	Reserved
6	(6)	SIGNED	2	ODPRSV2	Reserved
8	(8)	ADDRESS	4	ODPWAVE	Address of WAVE
12	(C)	ADDRESS	4	ODPJEOA	Address of JOE

Comment

Output descriptor subtask work area begins here
 Footprints for SWB Modify Subtask

End of Comment

16	(10)	BITSTRING	1	ODPFOOT	Footprint area - current
17	(11)	BITSTRING	1	ODPFOOTP	Footprint area - previous
17	(11)	X'1 '	0	ODPFSTR	"1" Footprint - Convert Dest
17	(11)	X'2 '	0	ODPFCNV	"2" Footprint - Convert Dest
17	(11)	X'3 '	0	ODPFSAF	"3" Footprint - SAF calls
17	(11)	X'4 '	0	ODPFMGI	"4" Footprint - Merge init.
17	(11)	X'5 '	0	ODPFDSP	"5" Footprint - Despool SWBITs
17	(11)	X'6 '	0	ODPFMGS	"6" Footprint - \$Merge setup
17	(11)	X'7 '	0	ODPFSJM	"7" Footprint - SJF/\$MERG
17	(11)	X'8 '	0	ODPFSJS	"8" Footprint - SJF Split
17	(11)	X'9 '	0	ODPFTUS	"9" Footprint - Move TUs
17	(11)	X'A '	0	ODPFWRI	"10" Footprint - Write init.
17	(11)	X'B '	0	ODPFIOT	"11" Footprint - IOT access
17	(11)	X'C '	0	ODPFMTR	"12" Footprint - Alloc MTTR

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
17	(11)	X'D	0	ODPFSPL	"13" Footprint - Write SWBIT
17	(11)	X'E	0	ODPFCLP	"14" Footprint - Merge cleanup
17	(11)	X'F	0	ODPPREC	"15" Footprint - In recovery

Comment

Error Reason Codes from SWB Modify Subtask

End of Comment

17	(11)	X'4	0	ODPRSAF	"4" SAF call failure (\$SEAS)
17	(11)	X'8	0	ODPRIOE	"8" I/O error on Spool
17	(11)	X'C	0	ODPRSERV	"12" JES2 service rtn error
17	(11)	X'10	0	ODPRDEST	"16" Dest processing error
17	(11)	X'14	0	ODPRMERG	"20" Error during Merge service
17	(11)	X'18	0	ODPRSPLT	"24" Error during Split service
17	(11)	X'1C	0	ODPRABN	"28" Subtask abended
17	(11)	X'20	0	ODPRIOT	"32" IOT is not valid
17	(11)	X'24	0	ODPRBADP	"36" Bad parm. or control block
17	(11)	X'8	0	ODPERR8	"8" Subtask return code
18	(12)	BITSTRING	1	ODPFLG1	Flag
18	(12)	BITSTRING	0	ODPNOBAS	"B'00000001" No base SWBITs in JOE
18	(12)	BITSTRING	0	ODPERBAS	"B'00000010" Base Erase Tus exist
18	(12)	BITSTRING	0	ODPNOOVR	"B'00000100" No override SWBTU present
18	(12)	BITSTRING	0	ODPNOMRG	"B'00001000" No \$SWBMERG required
18	(12)	BITSTRING	0	ODPABND	"B'00010000" Recovery routine entered
18	(12)	BITSTRING	0	ODPRCUR	"B'00100000" Abend recursion flag
19	(13)	BITSTRING	1	ODPFLG2	Processing status flag (used by both JES2&subtsk)

Comment

 The following two bits are mutually exclusive.
 If neither is on, the current destination is kept
 as is.

End of Comment

19	(13)	BITSTRING	0	ODP2NOIP	"B'10000000" Dest is NOT in IP format
19	(13)	BITSTRING	0	ODP2IPAD	"B'01000000" Dest is in IP format
19	(13)	BITSTRING	0	ODP2ERAS	"B'00100000" Dest is to be erased
20	(14)	SIGNED	2	ODPDATLN	Size of SWBIT Data area
22	(16)	SIGNED	2	ODPRSVW1	Reserved for subtask use
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	CHARACTER	20	ODPDSAFW	20 byte DEST/SAF work area
44	(2C)	SIGNED	4	ODPWKR1	Work area for subtask
48	(30)	SIGNED	4	ODPWKR2	Work area for subtask
52	(34)	ADDRESS	4	ODPSERV	MERGE/SPLIT parm area
56	(38)	ADDRESS	4	ODPSERVL	MERGE/SPLIT parm length
60	(3C)	ADDRESS	4	ODPMTUAD	\$MERGE SWBTU output addr
64	(40)	ADDRESS	4	ODPFINB	First input SWBIT buffer
68	(44)	ADDRESS	4	ODPFIRB	First output SWBIT buffer
72	(48)	ADDRESS	4	ODPCURB	Current SWBIT buffer addr
76	(4C)	ADDRESS	4	ODPPREB	Previous SWBIT buffer addr
80	(50)	ADDRESS	4	ODPERAD	Cumulative erase TU addr
84	(54)	ADDRESS	4	ODPTUAD	address of merged SWBTU
88	(58)	SIGNED	2	ODPERCLN	Cumulative erase TU length
90	(5A)	SIGNED	2	ODPTUCLN	Cumulative SWBTU length
92	(5C)	SIGNED	2	ODPTUNUM	Number of base SWBTUs
94	(5E)	SIGNED	2	ODPRSVH1	Reserved for devel.
96	(60)	ADDRESS	4	ODPSJIO	Address of SJJOB
100	(64)	ADDRESS	4	ODPGETH	GETHP work area
104	(68)	ADDRESS	4	ODPIOTB	Addr IOT buffers
108	(6C)	SIGNED	4	ODPSJRC	SJF Service return code
112	(70)	SIGNED	4	ODPSJRS	SJF Service reason code

\$ODPARM Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
116	(74)	ADDRESS	4	ODPPCE	Address of PCE
120	(78)	SIGNED	4	ODPRSVS1	Reserved for service
128	(80)	DBL WORD	8	(0)	Alignment
128	(80)	CHARACTER	0	ODPJQE	Work-JQE area
128	(80)	CHARACTER	0	ODPCHJOE	Char-JOE area
128	(80)	CHARACTER	8	ODPJUSER	Input - JOEUSER from characteristic JOE Output - Userid included in modify SWBTU or '<IP>' if new dest is in IP-format.
136	(88)	BITSTRING	4	ODPROUT	Route code from DEST mod TU
140	(8C)	CHARACTER	4	ODPTKWRK	Security token work area
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	CHARACTER	0	ODPJQE	Work-JQE area
144	(90)	DBL WORD	8	(0)	End on a Dblword boundary
144	(90)	X'90	0	ODPSIZE	**"-ODPBGN" Size of parameter area

\$ODPARM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ODPABND	12	10	ODPRCUR	12	20
ODPBGN	0		ODPRDEST	11	10
ODPCHJOE	80		ODPRIQE	11	8
ODPCURB	48		ODPRIOT	11	20
ODPDATLN	14		ODPRMERG	11	14
ODPDSAFW	18		ODPROUT	88	
ODPERAD	50		ODPRSAF	11	4
ODPERBAS	12	2	ODPRSERV	11	C
ODPERCLN	58		ODPRSPLT	11	18
ODPERR8	11	8	ODPRSVH1	5E	
ODPFCLP	11	E	ODPRSVS1	78	
ODPFCNV	11	2	ODPRSVW1	16	
ODPFDSP	11	5	ODPRSV1	5	
ODPFINB	40		ODPRSV2	6	
ODPFIOT	11	B	ODPSERV	38	
ODPFIRB	44		ODPSERVV	34	
ODPFLG1	12		ODPSIZE	90	90
ODPFLG2	13		ODPSJIO	60	
ODPFMGI	11	4	ODPSJRC	6C	
ODPFMGS	11	6	ODPSJRS	70	
ODPFMTR	11	C	ODPTKWRK	8C	
ODPFOOT	10		ODPTUAD	54	
ODPFOOTP	11		ODPTUCLN	5A	
ODPFSAF	11	3	ODPTUNUM	5C	
ODPFSJM	11	7	ODPV#	4	1
ODPFSJS	11	8	ODPVER	4	
ODPFSPL	11	D	ODPWAVE	8	
ODPFSTR	11	1	ODPWWRK1	2C	
ODPFTUS	11	9	ODPWWRK2	30	
ODPFWRI	11	A	ODP2ERAS	13	20
ODPGETH	64		ODP2IPAD	13	40
ODPID	0		ODP2NOIP	13	80
ODPIOTB	68				
ODPJQE	80				
ODPJQEA	C				
ODPJQE	90				
ODPJUSER	80				
ODPMTUAD	3C				
ODPNOBAS	12	1			
ODPNOMRG	12	8			
ODPNOOVR	12	4			
ODPPCE	74				
ODPPREB	4C				
ODPPREC	11	F			
ODPRABN	11	1C			
ODPRBADP	11	24			

\$OPAWORK Heading Information

Common Name: JES2 Output Priority Aging PCE Work Area
Macro ID: \$OPAWORK
DSECT Name: PCE (\$OPAWORK 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 OPAPCEWS 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 \$PRYOPCE field of the \$HCT data area
 See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization

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

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

\$OPAWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
0	(0)	BITSTRING	0	OPATQE	HASP Timer Queue Element
0	(0)	SIGNED	4		Reserved for future use
8	(8)	DBL WORD	8	(0)	Force double-word alignment
8	(8)	X' '	0	OPAPCEWS	**-PCEWORK" Length of work area

\$OPAWORK Map

\$OUTWORK Programming Interface information

Programming Interface information

\$OUTWORK

End of Programming Interface information

\$OUTWORK Heading Information

Common Name: JES2 Output PCE Work Area
Macro ID: \$OUTWORK
DSECT Name: PCE (\$OUTWORK 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 OUTWKSIZ 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 \$OUTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Output 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 Output Processor and by its support routines and exits. \$OUTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$OUTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOUTID in the second byte of field PCEID.

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

\$OUTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
0	(0)	BITSTRING	0		\$RDRWORK LEN (FOR HASPRJCS)
0	(0)	SIGNED	4	OUTIOTBF	ADDRESS OF IOT BUFFER CHAIN
4	(4)	SIGNED	4	OUTJCTBF	ADDRESS OF JCT BUFFER
8	(8)	SIGNED	4	OUTPDDB	RESTART PDDB POINTER
12	(C)	SIGNED	4	OUTIMEON (2)	OUTPUT PROCESSOR TIME/DATE
20	(14)	BITSTRING	1	OUTWORK (0)	PROTOTYPE WORK-JOE
20	(14)	BITSTRING	1	OUTCHAR (0)	PROTOTYPE CHAR-JOE
20	(14)	SIGNED	4	OUTDBEND	1ST FREE PDDB SLOT IN IOT
24	(18)	SIGNED	4	OUTIOT	RESTART IOT ADDRESS
28	(1C)	SIGNED	4	OUTJBKEY	JOB KEY FROM JCTJBKEY
32	(20)	BITSTRING	1	OUTJCOPY	JOB LEVEL COPY COUNT FROM JCT
33	(21)	BITSTRING	2		RESERVED
35	(23)	BITSTRING	1	OUTFLAGS	OUTPUT PROCESSOR FLAGS
36	(24)	SIGNED	4	OUTX40PL	Address of Exit 40 parmlist
40	(28)	SIGNED	4	OUTGGTOK	GENERIC GROUPING TOKEN
44	(2C)	SIGNED	4	OUTEXPRM (0)	EXIT 16 PARAMETER LIST
44	(2C)	SIGNED	4	OUTMADD	EXIT MESSAGE ADDRESS
48	(30)	SIGNED	4	OUTMPRM	EXIT PARM LIST ADDRESS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	SIGNED	4	OUTMJCT	ADDRESS OF JCT
56	(38)	ADDRESS	4	OUTDSSCB	ADDR OF DSSCB WORK AREA
60	(3C)	CHARACTER	0	OUTGRPPM	OUTPUT GROUPING PARM LIST
60	(3C)	ADDRESS	4	OUTQPARM	NODE TABLE ADDRESS
64	(40)	ADDRESS	4		CONTROL BLOCK ADDRESS
68	(44)	ADDRESS	4		CLASS LIST ADDRESS
72	(48)	ADDRESS	4		ADDRESS OF JQE
76	(4C)	ADDRESS	1		CLASS LIST LENGTH
77	(4D)	ADDRESS	1		QUEUE TYPE SPECIFIED
78	(4E)	ADDRESS	1		WORK SELECTION TYPE FLAG
79	(4F)	ADDRESS	1		RESERVED FOR FUTURE USE
79	(4F)	X'3C 00014'	0	OUTPLST	"OUTQPARM,*-OUTQPARM" QGET PARAMETER LIST STORAGE
79	(4F)	X' '	0	OUTWKSIZ	"*-PCEWORK" LENGTH OF HOPE PCE WORK AREA
Comment					
OUTFLAGS					
End of Comment					
79	(4F)	BITSTRING	0	OUTSTATS	"B'10000000" JOB Statistics created
79	(4F)	BITSTRING	0	OUTJOBBER	"B'00001000" Job finished abnormally

\$OUTWORK Cross Reference

Name	Hex Offset	Hex Value
OUTCHAR	14	
OUTDBEND	14	
OUTDSSCB	38	
OUTEXPRM	2C	
OUTFLAGS	23	
OUTGGTOK	28	
OUTGRPPM	3C	
OUTIMEON	C	
OUTIOT	18	
OUTIOTBF	0	
OUTJBKEY	1C	
OUTJCOPY	20	
OUTJCTBF	4	
OUTJOBBER	4F	8
OUTMADD	2C	
OUTMJCT	34	
OUTMPRM	30	
OUTPDDB	8	
OUTPLST	4F	3C 00014
OUTQPARM	3C	
OUTSTATS	4F	80
OUTWKSIZ	4F	
OUTWORK	14	
OUTX40PL	24	

\$OUTWORK Cross Reference

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This book also documents intended Programming Interfaces that allow the customer to write programs to obtain the services of OS/390.

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

```
_____ Product-Sensitive Programming Interface _____  
                                     Data Area Name  
_____ End of Product-Sensitive Programming Interface _____
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Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** in the header is 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**.

When an entire data area is classified as a programming interface, "RESERVED FOR USER" fields are part of the interface; all other "**RESERVED ...**" fields are **NOT** part of the interface.

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 this book.

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)

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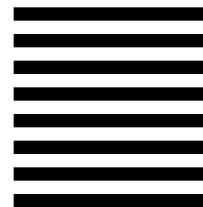
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