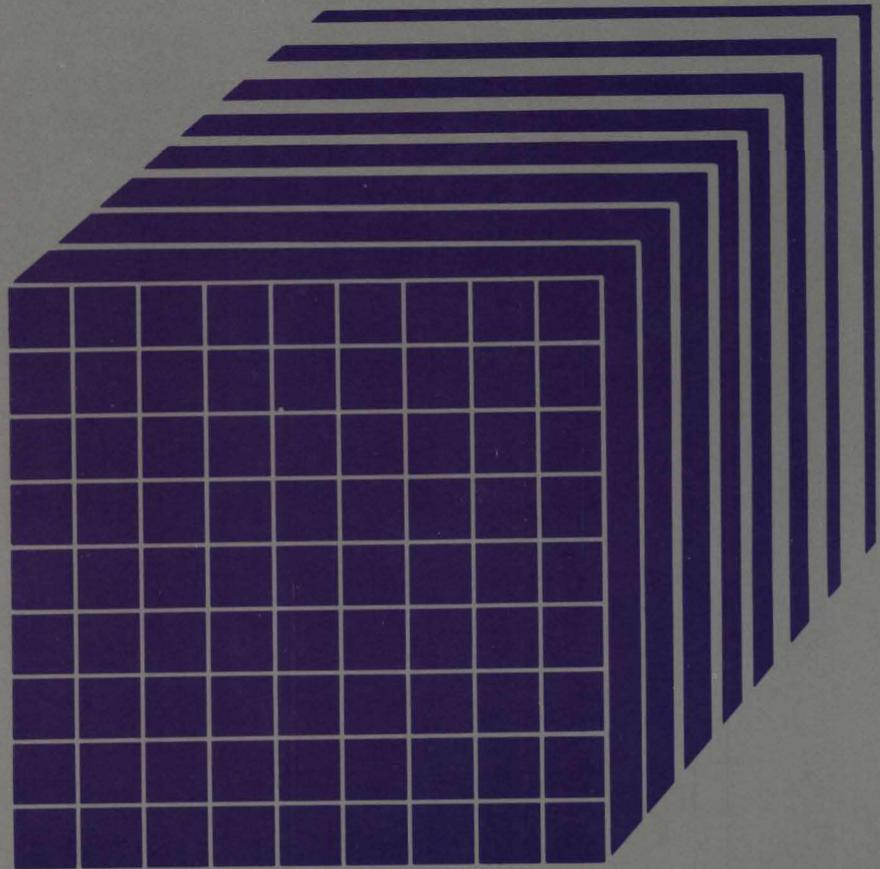




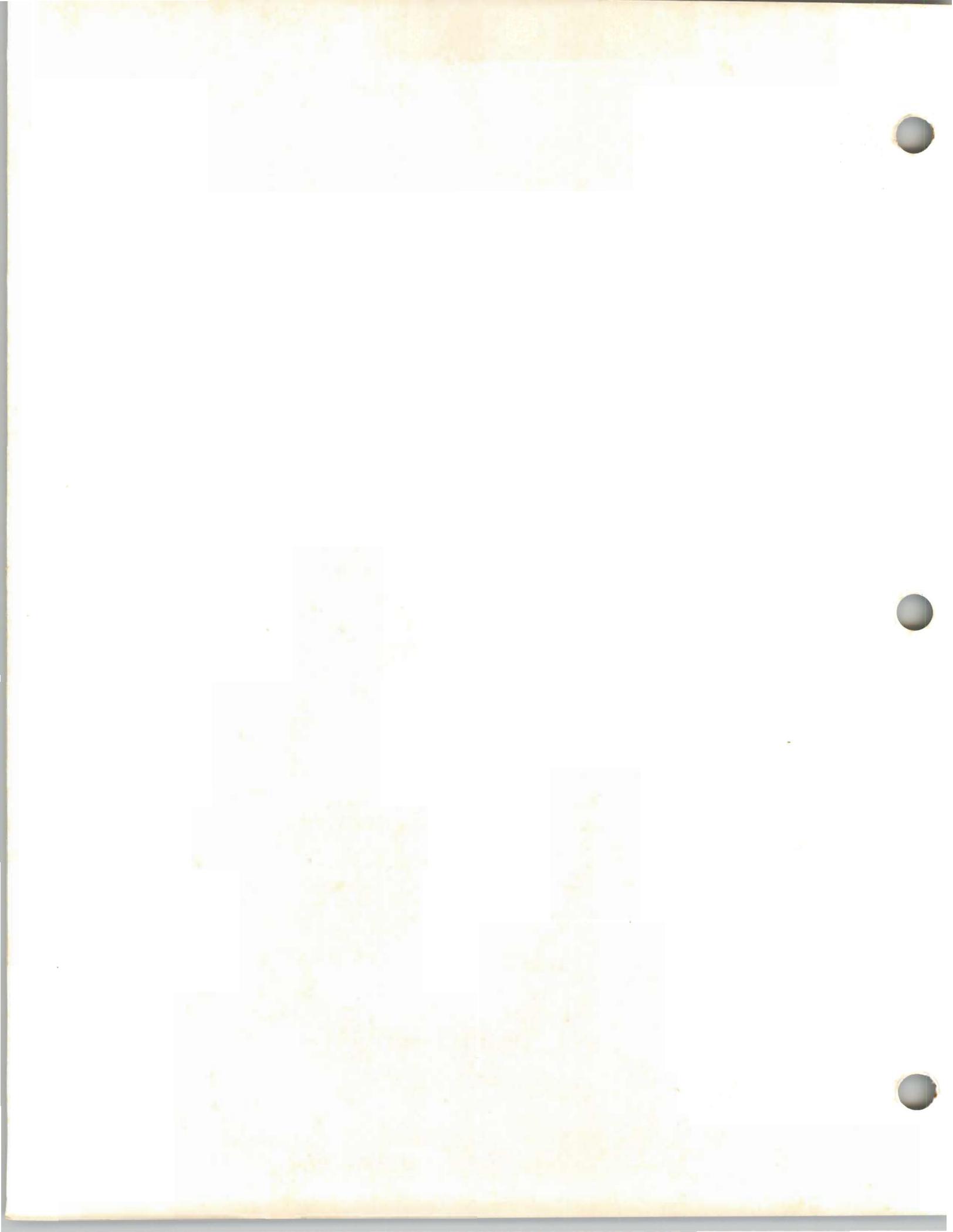
Virtual Machine/
System Product

**Data Areas and
Control Block Logic
Volume 2 (CMS)**

Release 3



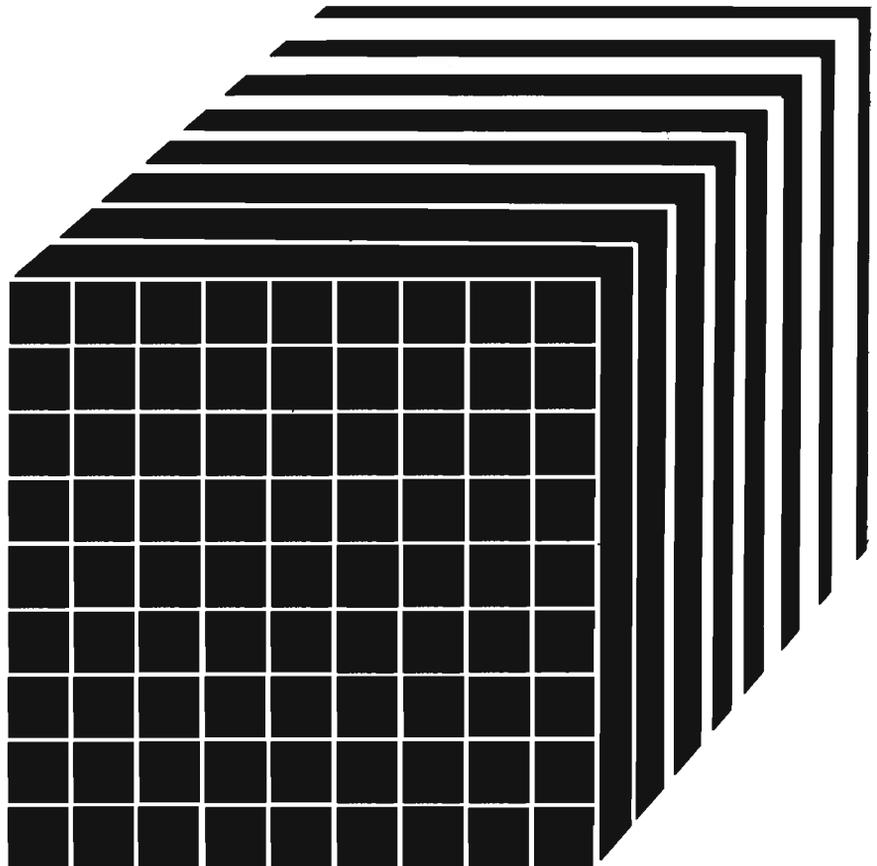
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System Product

**Data Areas and
Control Block Logic
Volume 2 (CMS)**

Release 3



First Edition (September 1983)

This edition LY24-5221-0, is a major revision of LY20-0891-1. For Release 3, LY20-0891-1 was reorganized and divided into two separate volumes: LY24-5220-0 (CP), and LY24-5221-0 (CMS). All changes apply to Release 3 of the Virtual Machine/System Product (5664-167) and to all subsequent releases (if any) and modifications until otherwise indicated in new editions or Technical Newsletters. Changes are periodically made to the information contained herein; before using this publication in connection with the operation of IBM systems, consult the latest IBM System/370 and 4300 Processors Bibliography, GC20-0001, for the editions that are applicable and current.

| Summary of Changes

For a list of changes, see page iii.

For Release 3, technical changes and additions to text or illustrations are indicated by a vertical bar to the left of the change.

References in this publication to IBM products, programs, or services does not imply that IBM intends to make these available in all countries in which IBM operates. Any references to an IBM program product in this publication is not intended to state or imply that only IBM's program products may be used. Any functionally equivalent program may be used instead.

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A form for readers' comments is provided at the back of this publication. If the form has been removed, comments may be addressed to IBM Programming Publications, Dept. G60, P.O. Box 6, Endicott, New York, U.S.A. 13760. IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

MAJOR CHANGES

Changed: Book Structure

The original Data Area and Control Block Logic book has been reorganized and divided into two separate volumes. See the Preface for more information.

New: Additions

Ten new data areas have been added to this volume. ABNXTCB, CMSLEVEL, COMCLIST, IMMBLOK, IMWKSECT, IUCVIDBK, IUCVPTBK, IUCVTAB, RTXSBFLD, SVCWORK.

Changed: Control Blocks

The following is a complete listing of the data areas that have been modified in this publication: ADTSECT, DESTYP, DEVTAB, EPLIST, FCBSECT, FRDSECT, FVSECT, IHADECB, LSCREEN, NUCON, OPSECT, PARMLIST, PROPCOM, PRSCB, QEL, RECSAVE, RTDSECT, SCBLOCK, SYNSUB, SYSNAMES, TOKLIST, ZDESC, ZFONC.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

MAJOR CHANGES

New: Additions

Thirteen data areas are added to this book. Four new CP areas are INTBLK, PFDATA, PFKTABLE and RETBUF. Nine new CMS areas are EPLIST, LOGFBFMT, PARMLIST, PROPCOM, PROPTAB, QEL, RTDSECT, SHVBLOCK and, TOKLIST. Minor changes have been made to many other data areas and control blocks.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

Summary of Changes
to LY20-0891-1
for VM/SP Service Level 106

MAJOR CHANGES

New: Format

This revision provides an easier to use format. Some of the highlights to the new format are:

- Graphic representations of the data areas and control blocks.
- All displacements are given in hexadecimal.
- Data area size values are given in hexadecimal numbers as compared to bit patterns in past editions.
- Bit values immediately follow the corresponding byte definition.

- The Cross Reference has a heading to describe what values it represents.

Five data areas, MNCHLIST, ORDBLOK, PDSSECT, VBFBLOK and VMPSCOM, are added to the book. In addition, minor changes have been made to many other data areas and control blocks.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

This publication, together with the VM/SP System Logic and Problem Determination Guide, Volumes 1 and 2, and VM/370 System Logic and Problem Determination Guide, Volume 3 is intended for use by system programmers responsible for updating VM/SP.

publication. Information on these data areas and control blocks can be found in the Virtual Machine/System Product: Service Routines Program Logic, Order No. LY20-0890.

HOW THIS MANUAL IS ORGANIZED

The original Data Area and Control Block Logic book has been reorganized and divided into two separate volumes:

- Volume 1 - Control Program (CP)
- Volume 2 - Conversational Monitor System (CMS)

This volume contains descriptions of the major data areas and control blocks used by the Conversational Monitor System. There is only one section with two appendixes, as follows:

- "CMS Data Areas and Control Blocks" contains information about CMS data areas and control blocks.
- "Appendix A. CMS Equate Symbols" contains assembler language equate symbols used by CMS to reference data.
- "Appendix B. CMS Data Areas and Control Block References" contains information on the modules that reference data areas and control blocks.

OTHER VM/SP DATA AREAS AND CONTROL BLOCKS

Some data areas and control blocks that affect VM/SP service and support programs are not included in this

PRE-REQUISITE PUBLICATIONS

To use this publication effectively and to understand it thoroughly, the following publications are prerequisite:

IBM System/370 Principles of Operation, Order No. GA22-7000

IBM OS/VS, DOS/VS, and VM/370 Assembler Language, Order No. GC33-4010

Related Publications

This publication should be used in conjunction with:

Virtual Machine/System Product:

System Logic and Problem Determination Guide,

Volume 1 Control Program (CP), Order No. LY20-0892

Volume 2 Conversational Monitor System (CMS), Order No. LY20-0893

System Programmer's Guide, Order No. SC19-6203

Library Guide and Master Index, Order No. GC19-6207

Virtual Machine Facility/370:

Volume 3 Remote Spooling Communication Subsystem (RSCS), Order No. GC20-1813.

For information on how to use the fourth component -- interactive problem control system -- and its facilities, the hardware and software support personnel or the installation system programmer should use:

Virtual Machine Facility/370:
Interactive Problem Control System
(IPCS) User's Guide, Order No.
GC20-1823.

The following communications provide information about the VTAM Communications Network Application (VM/VCNA) Program Product.

IBM VM/VCNA General Information,
GC27-0501

IBM VM/VCNA Installation,
Operation, and Terminal Use,
SC27-0502

HOW TO USE THIS PUBLICATION

This publication addresses and describes the major control blocks associated with CMS. Generally, data areas, or scratch areas that are created and exist only during the execution of a particular module are not described in this publication. In this publication, the data areas and control blocks are arranged in alphabetical order by DSECT name.

Control blocks and data areas are blocks of related information applicable to one or more system functions. They are usually defined by the DSECT instruction. The blocks can reflect current status, history information, or combinations of both, applicable to VM/SP functions. Control blocks and data areas provide the linkage and information for the user, the hardware, and the programs to work as one entity for the

successful execution of a job, task, or process.

For each data area or control block, a statement is given that defines the use of it. This statement is followed by a graphic representation of the arrangement of fields in the DSECT. Following this is listing-related information such as the hexadecimal displacement of the field into the DSECT, the name of the field and its definition in the listing, and a brief description of the contents and meaning of the field.

The following terms in this publication refer to the indicated support devices:

- "2305" refers to IBM 2305 Fixed Head Storage, Models 1 and 2.
- "270x" refers to IBM 2701, 2702, and 2703 Transmission Control Units or the Integrated Communications Adapter (ICA) on the System/370 Model 135.
- "2741" refers to the IBM 2741 and the 3767, unless otherwise specified.
- "3270" refers to a series of display devices, namely, the IBM 3275, 3276, 3277, 3278, and 3279 Display Stations. A specific device type is used only when a distinction is required between device types.

Information about display terminal usage also applies to the IBM 3138, 3148, and 3158 Display Consoles when used in display mode, unless otherwise noted.

Any information pertaining to the IBM 3284 or 3286 Printer also pertains to the IBM 3287, 3288, and 3289 printers, unless otherwise noted.

- "3262" refers to the IBM 3262 Printer, Models 1 and 11.
- "FB-512" refers to the IBM 3310 and 3370 Direct Access Storage Devices.
- "3330" refers to the IBM 3330 Disk Storage, Models 1, 2, or 11; the IBM 3333 Disk Storage and Control, Models 1 or 11; and the 3350 Direct Access Storage operating in 3330/3333 Model 1 or 3330/3333 Model 11 compatibility mode.
- "3340" refers to the IBM 3340 Disk Storage, Models A2, B1, and B2, and the 3344 Direct Access Storage Model B2.
- "3350" refers to the IBM 3350 Direct Access Storage Models A2 and B2 in native mode.
- "370x" refers to IBM 3704 and 3705 Communications Controllers.
- The term "3705" refers to the 3705 I and the 3705 II unless otherwise noted.

Note:

The symbol '**' is used in the Cross Reference listing to indicate that the field is equated with a value greater than x'FF'. Please refer to the data area mapping for the correct equate value.

Also, many data areas make use of a 'key'. This key is used in the graphics if the name (up to 8 letters) does not fit in the allotted space. For example, A*1 is the key for AFTFLG in AFTSECT. This key can then be traced in the listing to find the correct name and description associated with it.

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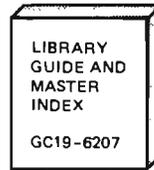
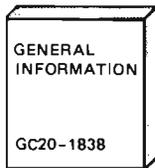
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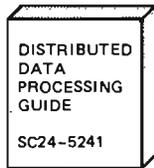
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The VM/SP Library

Evaluation



Planning



Installation



Administration



Operation



End Use



Reference Summaries

To order all the Reference Summaries, use order number SBOF 3820.

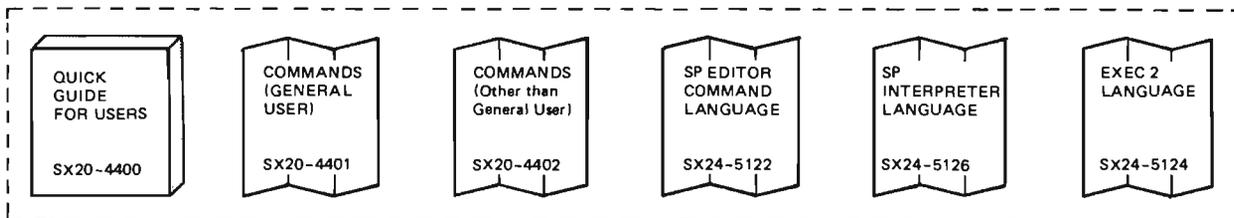
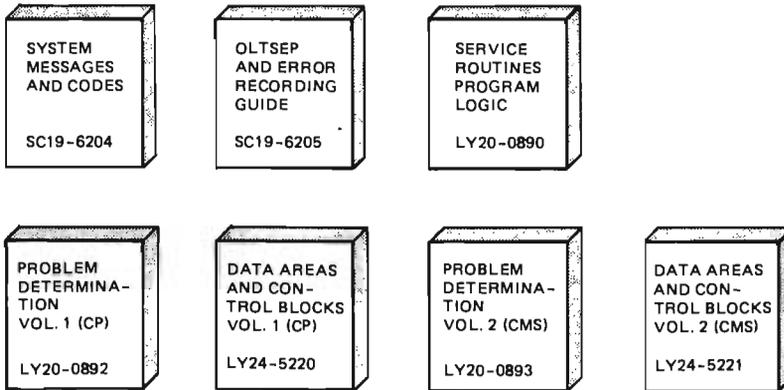
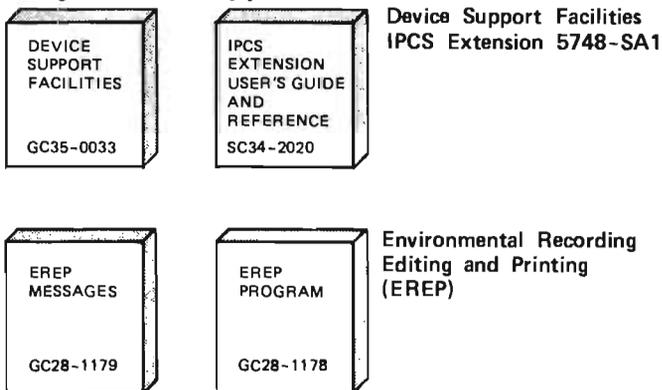


Figure 1. VM/SP Library - Interrelationship of Publications (Part 1 of 2)

Program Service



Auxiliary Service Support



Auxiliary Communication Support

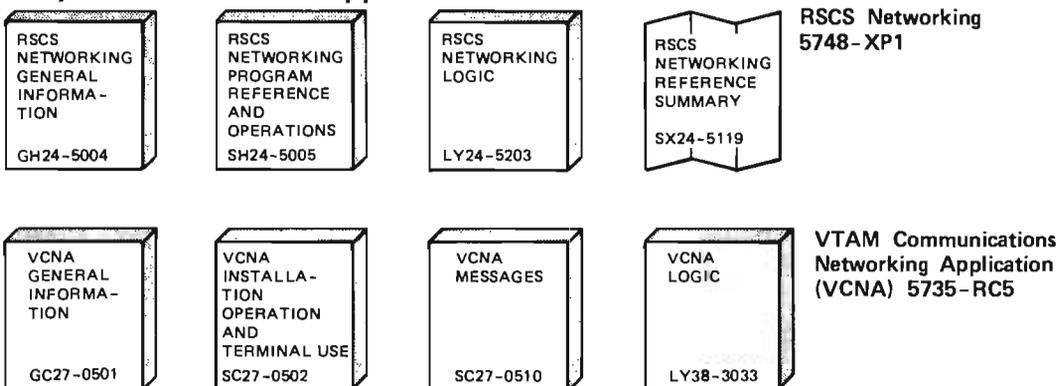


Figure 1. VM/SP Library - Interrelationship of Publications (Part 2 of 2)

CMS DATA AREAS AND CONTROL BLOCKS LOGIC

This volume contains descriptions of the CMS data areas and control blocks. Figure 2 shows how the control blocks interrelate.

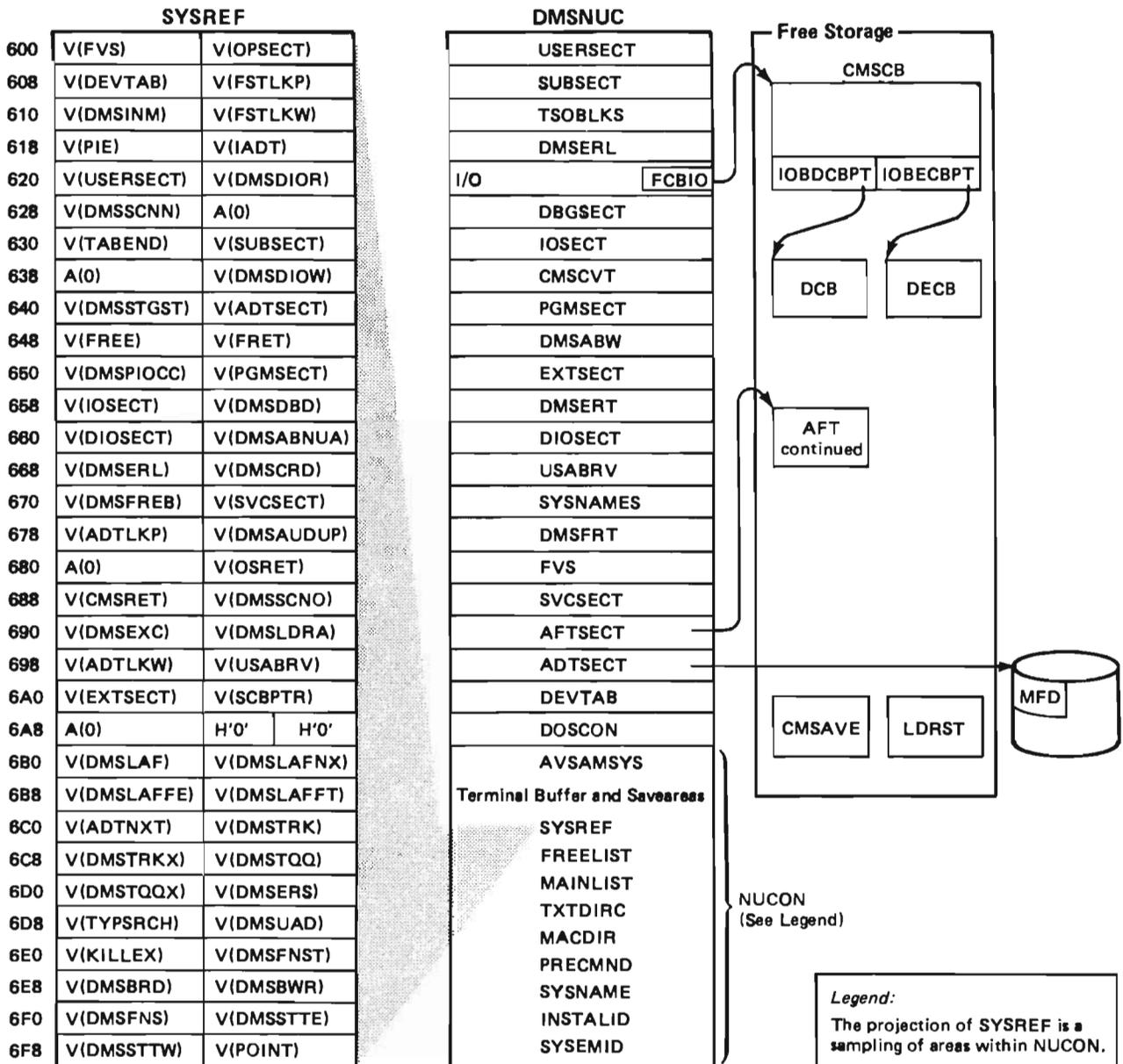
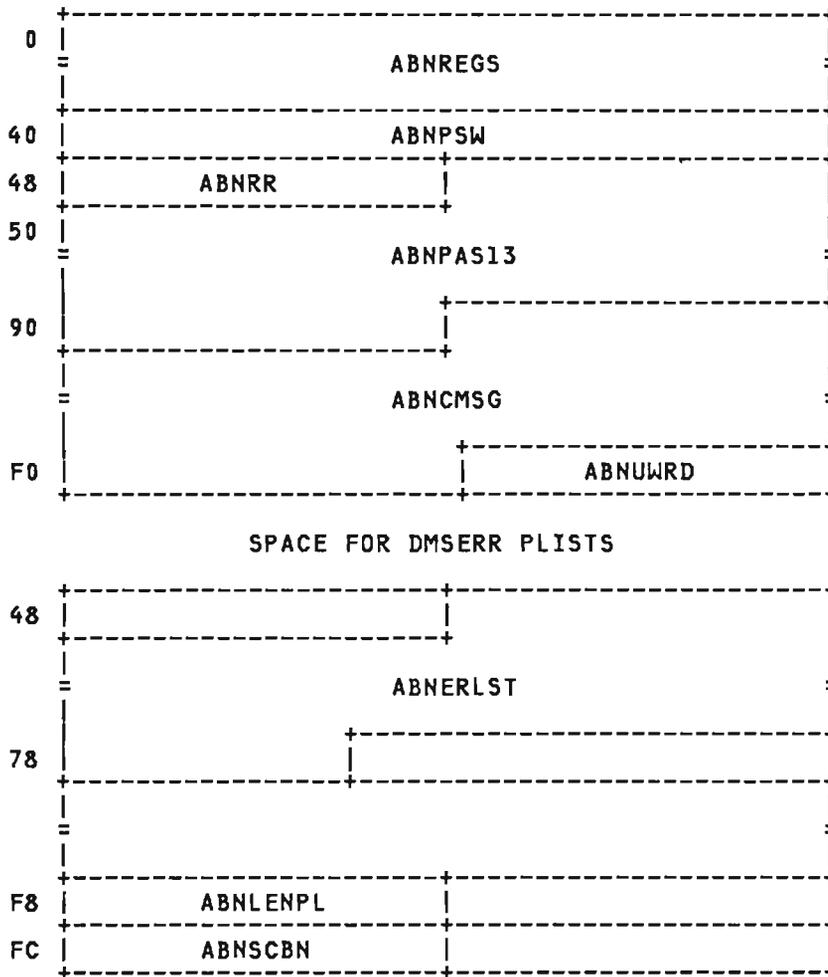


Figure 2. CMS Control Block Relationships

ABWSECT: ABEND RECOVERY WORKSPACE

ABWSECT describes the fields used for saving registers and other data during abend recovery. V-constants in DMSABN, DMSDBG, DMSFRE, DMSITI, DMSITP, and DMSITS point to the ABWSECT block. ABWSECT is defined in CSECT DMSABW in module DMSNUC.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	ABNREGS	64		REGISTERS AT TIME OF ABEND
40	ABNPSW	8		PSW AT TIME OF ABEND
48	ABNRR	4		TEMPORARY SAVEAREA
4C	ABNPAS13	72		AREA PASSED TO NUCLEUS ROUTINES

ABWSECT

ABWSECT

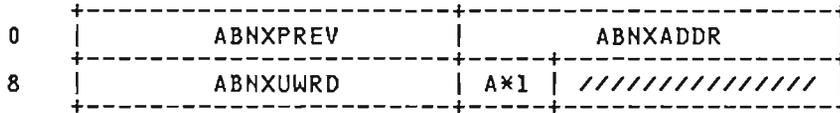
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
94	ABNCMSG	96		CONSOLE MESSAGE SAVE AREA FOR IPCS
| F4	ABNUWRD	4		ABEND EXIT USER WORD
|	SPACE FOR DMSERR PLISTS			
| 4C	ABNERLST	47		
| F8	ABNLENPL	4		LENGTH OF THE TOKENIZED PLIST USED BY DMSABN AND DMSINT
| FC	ABNSCBN	8		USED TO SAVE A NUCLEUS EXTENSION NAME TEMPORARILY

CROSS REFERENCE (Name Disp Value)

ABNCMSG 0094 ..	ABNPAS13 004C ..	ABNREGS 0000 ..	|	ABNSCBN 00FC ..
ABNERLST 004C ..	ABNPSW 0040 ..	ABNRR 0048 ..	|	ABNUWRD 00F4 ..
| ABNLENPL 00F8 ..				

ABNXTCB: ABEND EXIT CONTROL BLOCK

This block is created whenever a user establishes an abend exit; it contains information about the abend. ABNXTCB is invoked by the ABNXTCB macro.



Size

BLOCK LENGTH (DOUBLE WORD) (ABNXTCBL) 02

Disp	Name	Len	Key	Description
0	ABNXPREV	4		ADDRESS OF PREVIOUS BLOCK
4	ABNXADDR	4		EXIT ROUTINE ADDRESS
8	ABNXUWRD	4		USER WORD ADDRESS
C	ABNXFLAG	1	A*1	
	Bits defined in ABNXFLAG			
80	ABNXDRVN			EXIT DRIVEN FLAG

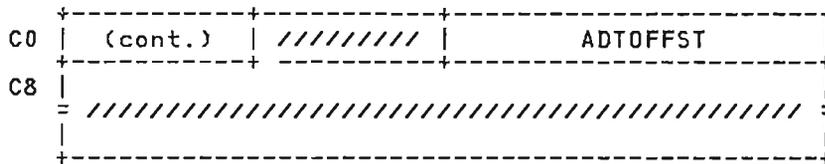
CROSS REFERENCE (Name Disp Value)

ABNXADDR 0004 ..	ABNXFLAG 000C ..	ABNXTCBL 0000 02
ABNXDRVN 000C 80	ABNXPREV 0000 ..	ABNXUWRD 0008 ..

ADTSECT: ACTIVE DISK TABLE

ADTSECT describes the attributes of virtual disks (A-Z) accessed by a virtual machine via the ACCESS command. Space is allocated for the ADT when DMSNUC is assembled. In the ADT, certain fields are defined for use by both CMS and OS. For example, ADTHBCT field at displacement 1C (hexadecimal) into ADTSECT is also defined as OSADTVTA for use by OS simulation routines. ADTSECT is invoked by the ADT macro.

0	ADTPTR	ADTBWPTR
8	ADTDTA	ADTFDA
10	ADTDFP1	ADTDFP2
18	ADTDFP3	ADTHBCT
20	ADTFSTC	ADTCHBA
28	ADTCFST	ADTAMHO
30	ADTAMHD	OSADTSV1
38	ADTLEFT	ADTLAST
40	////////////////////////////////	A*1 | A*2 | A*3 | A*4
48	A*5 | A*6 | A*7 | /////	ADTDIOA
50	ADTDIOB	////////////////////////////////
58	ADTMSK	ADTAMP1
60	ADTAMP2	ADTAMP3
68	ADTDAMAP	ADTLHBA
70	ADTLFST	ADTANACW
78	ADTARES	ADTXNREC
80	ADTXAREC	ADTCHMAP
88	////////////////////////////////	////////////////////////////////
90	ADTIDENT	ADTID
98	(cont.) | ADTVER	ADTDBSIZ
A0	ADTDOP	ADTCYL
A8	ADTMCYL	ADTNUM
B0	ADTUSED	ADTFSTSZ
B8	ADTNFST	ADTDCRED



Size

LENGTH OF FULL ADT BLOCK (BYTES) (ADTLB) E0
 LENGTH OF THE LABEL PORTION (ADTLBSZ) 50

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	ADTPTR	4		POINTER TO NEXT ADT BLOCK IN CHAIN
4	ADTBWPTR	4		ADDRESS OF PREVIOUS ADT (BW CHAIN)
8	ADTDTA	4		DEVICE TABLE ADDRESS IN NUCON
C	ADTFDA	4		FILE DIRECTORY (PSTAT) ADDRESS
10	ADTDFP1	4		DIRECTORY FILE LEVEL 1 POINTER
14	ADTDFP2	4		DIRECTORY FILE LEVEL 2 POINTER
18	ADTDFP3	4		DIRECTORY FILE LEVEL 3 POINTER
Bits defined in ADTDFP3				
14	ADTMFDA			ADDRESS OF MFD
10	ADTMFDN			NUMBER OF DOUBLEWORDS IN MFD
1C	ADTHBCT	4		FST HYPERBLOCK COUNT
20	ADTFSTC	4		NUMBER OF FST ENTRIES IN DIRECTORY
24	ADTCHBA	4		ADDRESS OF CURRENT HYPERBLOCK
Bits defined in ADTCHBA				
24	OSADTFST			ADDRESS OF 1ST O/S FST
28	ADTCFST	4		DISPLACEMENT OF CURRENT FST ENTRY
Bits defined in ADTCFST				
28	OSADTVTB			ADDRESS OF UPPER O/S VTOC
2C	ADTAMHO	4		ALLOCATION MAP HBLK WITH NEXT HOLE
Bits defined in ADTAMHO				
2C	ADT1ST			FIRST EMPTY RECORD
30	ADTAMHD	4		DISPLACEMENT INTO HBLK DATA OF NEXT HOLE
Bits defined in ADTAMHD				
30	OSADTDSK			OS DISK ADDRESS
34	OSADTSV1	4		O/S SAVE AREA
38	ADTLEFT	4		NUMBER OF RECORDS LEFT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
3C	ADTLAST	4		INDICATOR FOR LAST RECORD
| 40		4		RESERVED
44	ADTM	1		MODE LETTER (A,B,C,....,X,Y,Z)
45	ADTMX	1		EXTENSION-OF-MODE LETTER
46	ADTFLG1	1		FLAG BYTE 1
Bits defined in ADTFLG1				
80	ADTF SF			ADT BLOCK IN FREE STORAGE
40	ADTF RO			CMS READ-ONLY DISK (ATTACH & READY)
20	ADTF RW			CMS READ-WRITE DISK (ATTACH & READY)
10	ADTF FSTF			1ST FST HYPBLK IS IN FREE STORAGE
08	ADTF FSTV			FST HYPBLKS ARE OF VARYING LENGTH
04	ADTF QQF			200-BYTE QQMSK IS IN FREE STORAGE
02	ADTF ROX			THIS DISK HAS READ ONLY EXTENSION(S)
01	ADTF MIN			ADT BLOCK IS MINIMUM SIZE
47	ADTFLG2	1		FLAG BYTE 2
Bits defined in ADTFLG2				
F8	ADTF ALUF			ALL UFD IS IN CORE
80	ADTF MFD			MFD IS IN CORE
40	ADTF ALNM			ALL FILENAMES ARE IN CORE
20	ADTF ALTY			ALL FILETYPES ARE IN CORE
18	ADTF ALMD			ALL MODES (0-5) ARE IN CORE
10	ADTF MDRO			MODES 1-5 ARE IN CORE
04	ADTF ROS			INDICATES THIS IS AN OS DISK
02	ADTF PSTM			ADT PSTAT CHAIN MODIFIED
01	ADTF DOS			INDICATES THIS IS A DOS DISK
48	ADTFLG3	1		FLAG BYTE 3
Bits defined in ADTFLG3				
80	ADTF UPD1			1ST HALF OF UPDISK CALLED
40	ADTF XCHN			EXTRA CHAIN LINK(S) NEED TO BE RETURNED
20	ADTF RWOS			READ-WRITE OS OR DOS DISK
10	ADTF SORT			ALL FST HYPERBLOCKS AND FST ENTRIES SORTED
08	ADTF FORCE			CMS/DOS/OS DISK FORCED READ-ONLY
04	ADTF NOAB			FOR DMSAUD - DON'T ABEND IF DISK ERROR
49	ADTFLG4	1		FLAG BYTE 4
Bits defined in ADTFLG4				
80	ADTF EDF			ENHANCED-DISK-FORMAT DISK
40	ADTF EDFAE			EDF ACCESS ERASE DONE
20	ADTF ADDED			ADT ADDED TO ADT CHAIN BY ADTLKP
4A	ADTF TYP	1		FILE TYPE FLAG BYTE
| 4B		1		RESERVED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
4C	ADTDIOA	4		DISK CONSTANTS TABLE IN DMSDIO
	Bits defined in ADTDIOA			
4C	ADTFBABF			FBA BLOCK TO CMS BLOCK FACTOR
50	ADTDIOB	4		SECTOR NUMBER TABLE IN DMSDIO
	Bits defined in ADTDIOB			
50	ADTFBALB			LAST FBA BLOCK OF THE MINIDISK
58	ADT2ND	0		
58	ADTMSK	4		800-BYTE (PQMSK) BIT MASK ADDRESS OR ALLOCATION MAP DATA HBLK CHAIN
5C	ADTAMP1	4		ALLOCATION MAP LEVEL 1 POINTER
60	ADTAMP2	4		ALLOCATION MAP LEVEL 2 POINTER
64	ADTAMP3	4		ALLOCATION MAP LEVEL 3 POINTER
68	ADTDAMAP	4		DEALLOCATION MAP HBLK CHAIN
	Bits defined in ADTDAMAP			
68	ADTPQM3			NUMBER OF DOUBLEWORDS IN PQMSK
64	ADTPQM2			NUMBER OF BIT MASK BYTES
60	ADTPQM1			NUMBER OF NON-MFD MASK BYTES
5C	ADTQQM			200-BYTE (PQQMSK) BIT-MASK ADDRESS
6C	ADTLHBA	4		POINTER TO LAST FST HYPER-BLOCK
70	ADTLFST	4		DISPLACEMENT OF LAST FST IN LAST HYPER-BLOCK
74	ADTANACW	4		ALTERNATE NUMBER OF ACTIVE WRITE FILES
	Bits defined in ADTANACW			
76	ADTNACW			NUMBER OF ACTIVE WRITE FILES
78	ADTARES	4		ALTERNATE RESERVE-COUNT
	Bits defined in ADTARES			
7A	ADTRES			RESERVE-COUNT (RESRVCNT)
7C	ADTXNREC	4		NUMBER DOUBLEWORDS OF EXTRA CHAIN LINK RECORDS
80	ADTXAREC	4		ADDRESS OF BLOCK OF EXTRA CHAIN LINK RECORDS
84	ADTCHMAP	4		CHANGE MAP HBLK CHAIN
| 88		4		RESERVED
	MAPPING OF VOLUME TABLE			
90	ADTIDENT	4		VOLUME START / LABEL IDENTIFIER
94	ADTID	6		VOLUME START / VOLUME IDENTIFIER
9A	ADTVER	2		VERSION LEVEL

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
9C	ADTDBSIZ	4		DISK BLOCK SIZE
A0	ADTDOP	4		DISK ORIGIN POINTER
A4	ADTCYL	4		NUMBER OF FORMATTED CYLINDERS ON DISK
A8	ADTMCYL	4		MAXIMUM NUMBER FORMATTED CYLINDERS ON DISK
AC	ADTNUM	4		DISK SIZE IN BLOCKS
B0	ADTUSED	4		NUMBER OF DISK BLOCKS IN USE
B4	ADTFSTSZ	4		SIZE OF FST
B8	ADTNFST	4		NUMBER OF FST'S PER BLOCK
BC	ADTDCRED	6		DISK CREATION DATE (YYMMDDHHMMSS)
| C2		2		RESERVED
C4	ADTOFFST	4		DISK OFFSET WHEN RESERVED
| C8		24		RESERVED

MAPPING OF OS FIELDS IN VOLUME LABEL

320	ADTRL	LOGICAL RECORD LENGTH
09B	OSADTVTA	VTOC ADDRESS OF O/S PACK
058	ADTLBM	LENGTH OF MINIMUM ADT BLOCK (BYTES) IN DOUBLEWORDS
01C	ADTLD	LENGTH OF FULL ADT BLOCK
00B	ADTLDM	LENGTH OF MINIMUM ADT BLOCK
00A	ADTMXBML	MAXIMUM BIT MAP LENGTH

NUCON DEVICE TABLE OFFSETS

04	DTAS	SYMBOLIC DEVICE NAME
03	DTADT	DEVICE TYPE BYTE
02	DTADC	DEVICE CLASS
00	DTAD	DEVICE NUMBER

CROSS REFERENCE (Name Disp Value)

ADTADDED	0049	20	ADTFALNM	0047	40	ADTFSTSZ	00B4	..	ADTOFFST	00C4	..
ADTAMHD	0030	..	ADTFALTY	0047	20	ADTFSTYP	004A	..	ADTPQM1	0068	60
ADTAMHO	002C	..	ADTFALUF	0047	F8	ADTFUPD1	0048	80	ADTPQM2	0068	64
ADTAMP1	005C	..	ADTFBABF	004C	4C	ADTFXCHN	0048	40	ADTPQM3	0068	68
ADTAMP2	0060	..	ADTFBALB	0050	50	ADTHBCT	001C	..	ADTPSTM	0047	02
ADTAMP3	0064	..	ADTFDA	000C	..	ADTID	0094	..	ADTPTR	0000	..
ADTANACW	0074	..	ADTFDOS	0047	01	ADTIDENT	0090	..	ADTQQM	0068	5C
ADTARES	0078	..	ADTFFSTF	0046	10	ADTLABSZ	0000	50	ADTRES	0078	7A
ADTBWPTR	0004	..	ADTFFSTV	0046	08	ADTLAST	003C	..	ADTRL	00C4	20
ADTCFST	0028	..	ADTFLG1	0046	..	ADTLB	0000	E0	ADTROX	0046	02
ADTCHBA	0024	..	ADTFLG2	0047	..	ADTLBM	00C4	58	ADTUSED	00B0	..
ADTCHMAP	0084	..	ADTFLG3	0048	..	ADTLD	00C4	1C	ADTVR	009A	..
ADTCYL	00A4	..	ADTFLG4	0049	..	ADTLDM	00C4	0B	ADTXAREC	0080	..
ADTDAMAP	0068	..	ADTFMDRO	0047	10	ADTLEFT	0038	..	ADTXNREC	007C	..
ADTDBSIZ	009C	..	ADTFMFD	0047	80	ADTLFST	0070	..	ADT1ST	002C	2C
ADTDCRED	00BC	..	ADTFMIN	0046	01	ADTLHBA	006C	..	ADT2ND	0058	..
ADTDFP1	0010	..	ADTFNOAB	0048	04	ADTM	0044	..	DTAD	00C4	00
ADTDFP2	0014	..	ADTFORCE	0048	08	ADTMCYL	00A8	..	DTADC	00C4	02
ADTDFP3	0018	..	ADTFQQF	0046	04	ADTMFDA	0018	14	DTADT	00C4	03
ADTDIOA	004C	..	ADTFRO	0046	40	ADTMFDN	0018	10	DTAS	00C4	04
ADTDIOB	0050	..	ADTFROS	0047	04	ADTMSK	0058	..	OSADTDSK	0030	30
ADTDOP	00A0	..	ADTFRW	0046	20	ADTMX	0045	..	OSADTFST	0024	24
ADTDTA	0008	..	ADTFRWOS	0048	20	ADTMXBML	00C4	0A	OSADTSV1	0034	..
ADTEDF	0049	80	ADTFFSF	0046	80	ADTNACW	0074	76	OSADTVTA	00C4	9B
ADTEDFAE	0049	40	ADTFFSORT	0048	10	ADTNFST	00B8	..	OSADTVTB	0028	28
ADTFALMD	0047	18	ADTFSTC	0020	..	ADTNUM	00AC	..			

AFTSECT: ACTIVE FILE TABLE

AFTSECT is used to describe a file currently open for a read or write. The AFT is created when a file is opened. Space for up to five AFTs is available in DMSNUC; any other must reside in free storage. AFTSECT is invoked via the AFT macro.

0	AFTPTR		AFTADT	
8	AFTCLD	AFTCLN	AFTCLA	
10	AFTDBD	AFTDBN	AFTDBA	
18	AFTCLB			
18	AFTUFP5		AFTUFP4	
20	AFTUFP3		AFTUFP2	
28	AFTUFP1		AFTRDBLK	
30	AFTRDID		AFTLSTRC	
38	AFTARP		AFTAWP	
40	AFTPHYP		AFTSVBLK	
48	AFTSVBLK (cont.)		AFTSVFP4	
50	AFTSVFP4 (cont.)		AFTSVFP3	
58	AFTSVFP3 (cont.)		AFTSVFP2	
60	AFTSVFP2 (cont.)		AFTSVFP1	
68	AFTSVFP1 (cont.)		AFTUBFAD	
70	AFTUBFLG		AFTMXBLK	
78	AFTBLKWD		AFTEBLIN	
80	AFTEBDSP		A*1	AFTPFST
88	AFTIN	AFTID	AFTFCLA	
90	AFTFCLX	AFTCLDX	A*2	///// AFTOCLDX
98	AFTN			
A0	AFTT			
A8	AFTD		AFTWP	AFTRP
B0	AFTM	AFTIC	AFTFCL	A*3 | A*4
B8	AFTIL		AFTDBC	AFTYR

C0	AFTFOP	AFTADBC		
C8	AFTAIC	A*5	A*6	AFTADATI
D0	AFTADATI (cont.)		////////////////////	

Size

LENGTH OF AFT BLOCK IN BYTES (AFTLB) D8
 LENGTH OF AFT BLOCK IN DOUBLEWORDS (AFTLD) 1B
 LENGTH OF AN EDF FST (AFTL2) 40
 LENGTH OF AFT BLOCK (AFTL) 28

Disp	Name	Len	Key	Description
0	AFTPTR	4		POINTER TO NEXT AFT BLOCK IN CHAIN
Bits defined in AFTPTR				
40	AFTFSF			AFTPTR BIT INDICATES IN FREE STORAGE
4	AFTADT	4		POINTER TO ACTIVE DISK TABLE
8	AFTCLD	2		DISK ADDRESS OF CURRENT CHAIN LINK
A	AFTCLN	2		NUMBER OF CURRENT CHAIN LINK
C	AFTCLA	4		CORE ADDRESS OF CHAIN LINK BUFFER
10	AFTDBD	2		DISK ADDRESS OF CURRENT DATA BLOCK
12	AFTDBN	2		NUMBER OF CURRENT DATA BLOCK
14	AFTDBA	4		CORE ADDRESS OF CURRENT DATA BLOCK
18	AFTCLB	80		CHAIN LINK BUFFER FROM 1ST CHAIN LINK
18	AFTUFP5	4		5TH LEVEL POINTER HBLK CHAIN
1C	AFTUFP4	4		4TH LEVEL POINTER HBLK CHAIN
20	AFTUFP3	4		3RD LEVEL POINTER HBLK CHAIN
24	AFTUFP2	4		2ND LEVEL POINTER HBLK CHAIN
28	AFTUFP1	4		1ST LEVEL POINTER HBLK CHAIN
2C	AFTRDBLK	4		DATA BLOCK CHAIN
30	AFTRDID	4		ITEM DISPLACEMENT IN BLOCK
34	AFTLSTRC	4		LAST RECORD NUMBER PROCESSED
38	AFTARP	4		ALTERNATE READ POINTER
3C	AFTAWP	4		ALTERNATE WRITE POINTER
40	AFTPHYP	4		A(HBLK HOLDING STATIC FST)
44	AFTSVBLK	8		SAVE DATA BLOCK DISPLACEMENT AND NUMBER
4C	AFTSVFP4	8		SAVE PTR4 BLOCK DISPLACEMENT AND NUMBER

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
54	AFTSVFP3	8		SAVE PTR3 BLOCK DISPLACEMENT AND NUMBER
5C	AFTSVFP2	8		SAVE PTR2 BLOCK DISPLACEMENT AND NUMBER
64	AFTSVFP1	8		SAVE PTR1 BLOCK DISPLACEMENT AND NUMBER
6C	AFTUBFAD	4		SAVE USER BUFFER ADDRESS
70	AFTUBFLG	4		SAVE USER BUFFER LENGTH
74	AFTMXBLK	4		MAXIMUM NUMBER OF ENTRIES IN A PTR BLOCK
78	AFTBLKWD	4		SAVE USER BUFFER DISPLACEMENT BLKWR
79	AFTBFORM	1		SAVE REAL FORMAT DURING BLOCK WORD
7A	AFTBPRCT	2		SAVE PREVIOUS RESIDUAL CT FOR V-FORM
7C	AFTEBLIN	4		CURRENT ITEM NUMBER
80	AFTEBDSP	4		CURRENT ITEM DISPLACEMENT
84	AFTFLG	1 A*1		FLAG BYTE
Bits defined in AFTFLG				
80	AFTUSED			ACTIVE FILE TABLE BLOCK IN USE
20	AFTICF			FIRST CHAIN LINK IN CORE FLAG
10	AFTFBA			FULL BUFFER ASSIGNED
08	AFTDBF			DATA BLOCK IN CORE FLAG
04	AFTWRT			ACTIVE WRITE
02	AFTRD			ACTIVE READ
01	AFTFULD			FULL-DISK SPECIAL CASE
85	AFTPFST	3		POINTER TO (STATIC) FST-ENTRY
88	AFTIN	2		CURRENT ITEM NUMBER
8A	AFTID	2		DISPLACEMENT OF CURRENT ITEM IN DATA BLOCK
8C	AFTFCLA	4		CORE ADDRESS OF FIRST CHAIN LINK
90	AFTFCLX	2		DISK ADDRESS OF SWAPPED FCL
92	AFTCLDX	2		DISK ADDRESS OF SWAPPED CHAIN LINK
94	AFTFLG2	1 A*2		SECOND FLAG-BYTE
Bits defined in AFTFLG2				
80	AFNEW			BRAND NEW FILE
80	AFTOVLAP			LENGTH ACROSS TWO DATA BLOCKS
40	AFTOLDCL			CURRENT CHAIN LINK EXISTED PREVIOUSLY
20	AFTCLX			ALTERNATE CHAIN-LINK ASSIGNED/IMPLIED
10	AFTREAD			FILE IS BEING READ
08	AFTVLGTH			LENGTH MUST BE HANDLED FOR V-FORM
04	AFTVLRCD			WRITING THE LAST V-FORMAT RECORD
02	AFTERR8			ERROR 8 : USER BUFFER LENGTH TOO
01	SAMELEN			FORCE SAME LENGTH UPDATE
| 95		1		RESERVED
96	AFTOCLDX	2		OLD VALUE (IF ANY) OF AFTCLDX

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
98	AFTFST	8		COPY OF FST BLOCK IMBEDDED IN AFT BLOCK
FILE STATUS TABLE (FILE DIRECTORY) BLOCK				
98	AFTN	8		FILE NAME
A0	AFTT	8		FILE TYPE
A8	AFTD	4		DATE/TIME LAST WRITTEN
AC	AFTWP	2		WRITE POINTER (ITEM #)
AE	AFTRP	2		READ POINTER (ITEM #)
B0	AFTM	2		FILE MODE
B2	AFTIC	2		ITEM COUNT
B4	AFTFCL	2		FIRST CHAIN LINK
B6	AFTFV	1	A*3	FIXED(F)/VARIABLE(V) FLAG
B7	AFTFB	1	A*4	FLAG BYTE (IF USED)

Bits defined in AFTFB

(applicable only to "STATEFST" copy of FST-ENTRY after successful "STATE" or "STATEW" call.)

C0	AFTFRWX			READ-ONLY EXTENSION OF READ-ONLY DISK
80	AFTFRW			READ/WRITE DISK
40	AFTFROX			READ-ONLY EXTENSION OF READ/WRITE DISK
07	AFTFACT			FILE "ACTIVE" - ONE OF THE FOLLOWING:
04	AFTFAR			FILE ACTIVE FOR READING
02	AFTFAW			FILE ACTIVE FOR WRITING
01	AFTFAP			FILE ACTIVE FROM A "POINT"
00	AFTFRO			READ-ONLY DISK

Applicable to FSCBFLG in plist

40	AFTITAV			ITEM AVAILABLE
20	AFTEPL			EXTENDED PLIST
01	AFTRECAV			PREVIOUS RECORD NULL
B8	AFTIL			(MAXIMUM) ITEM LENGTH
BC	AFTDBC	2		NUMBER OF DATA BLOCKS
BE	AFTYR	2		YEAR
FST EDF EXTENSION				
C0	AFTFOP	4		ALTERNATE FILE ORIGIN POINTER
C4	AFTADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
C8	AFTAIC	4		ALTERNATE ITEM COUNT
CC	AFTNLVL	1	A*5	NUMBER OF POINTER BLOCK LEVELS
CD	AFTPTRSZ	1	A*6	LENGTH OF A POINTER ELEMENT

Disp Name Len Key Description

CE AFTADATI 6 ALTERNATE DATE/TIME(Y Y MM DD HH MM SS)

FST HYPER-BLOCK PARAMETERS

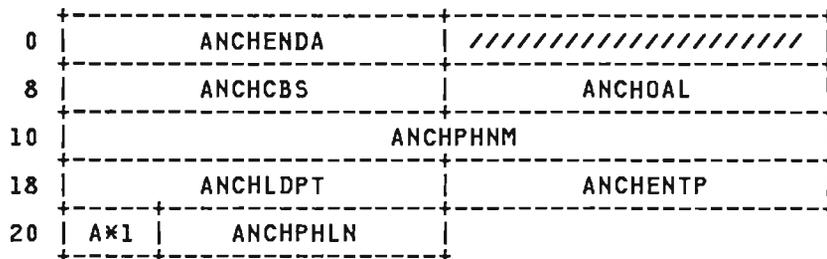
320 AFTBKWD 4 BACKWARD POINTER (TO PREVIOUS HYPERBLK IN CORE)
324 AFTFWDP 4 FORWARD POINTER (TO NEXT HYPERBLOCK IN CORE)

CROSS REFERENCE (Name Disp Value)

AFTADATI	00CE	..	AFTTPL	00B7	20	AFTICF	0084	20	AFTRDID	0030	..
AFTADBC	00C4	..	AFTERR8	0094	02	AFTID	008A	..	AFTREAD	0094	10
AFTADT	0004	..	AFTFACT	00B7	07	AFTIL	00B8	..	AFTRECAV	00B7	01
AFTAIC	00C8	..	AFTFAP	00B7	01	AFTIN	0088	..	AFTRP	00AE	..
AFTARP	0038	..	AFTFAR	00B7	04	AFTITAV	00B7	40	AFTSVBLK	0044	..
AFTAWP	003C	..	AFTFAW	00B7	02	AFTL	....	28	AFTSVFP1	0064	..
AFTBFORM	0079	..	AFTFB	00B7	..	AFTLB	....	D8	AFTSVFP2	005C	..
AFTBKWD	00CE	**	AFTFBA	0084	10	AFTLD	....	BD	AFTSVFP3	0054	..
AFTBLKWD	0078	..	AFTFCL	00B4	..	AFTLSTRC	0034	..	AFTSVFP4	004C	..
AFTBPRCT	007A	..	AFTFCLA	008C	..	AFTL2	....	40	AFTT	00A0	..
AFTCLA	000C	..	AFTFCLX	0090	..	AFTM	00B0	..	AFTUBFAD	006C	..
AFTCLB	0018	..	AFTFLG	0084	..	AFTMXBLK	0074	..	AFTUBFLG	0070	..
AFTCLD	0008	..	AFTFLG2	0094	..	AFTN	0098	..	AFTUFP1	0028	..
AFTCLDX	0092	..	AFTFOP	00C0	..	AFTNEW	0094	80	AFTUFP2	0024	..
AFTCLN	000A	..	AFTFRO	00B7	00	AFTNLVL	00CC	..	AFTUFP3	0020	..
AFTCLX	0094	20	AFTFROX	00B7	40	AFTOCLDX	0096	..	AFTUFP4	001C	..
AFTD	00A8	..	AFTFRW	00B7	80	AFTOLDCL	0094	40	AFTUFP5	0018	..
AFTDBA	0014	..	AFTFRWX	00B7	C0	AFTOVLAP	0094	80	AFTUSED	0084	80
AFTDBC	00BC	..	AFTFSF	0000	40	AFTPFST	0085	..	AFTVLGTH	0094	08
AFTDBD	0010	..	AFTFST	0098	..	AFTPHYP	0040	..	AFTVLREC	0094	04
AFTDBF	0084	08	AFTFULD	0084	01	AFTPTR	0000	..	AFTWP	00AC	..
AFTDBN	0012	..	AFTFV	00B6	..	AFTPTRSZ	00CD	..	AFTWRT	0084	04
AFTEBDSP	0080	..	AFTFWDP	00CE	**	AFTRD	0084	02	AFTYR	00BE	..
AFTEBLIN	007C	..	AFTIC	00B2	..	AFTRDBLK	002C	..	SAMELEN	0094	01

ANCHSECT: ANCHOR TABLE

ANCHSECT defines the VSE anchor table. This DSECT is used by DMSDOS when a CDLOAD (SVC 65) is issued, and the specified phase is not found in either the CMSVSAM or CMSAMS segment. In this case, the specified phase is loaded either from a CMS DOSLIB or a VSE core image library, and the name, load point, entry point and the length in bytes, of the phase are saved in an available slot in the anchor table. ANCHSECT is invoked by the ANCHTAB macro.



Disp Name Len Key Description

0	ANCHENDA	4		END ADDRESS OF ANCHOR TABLE
8	ANCHCBS	4		POINTER TO VSAM "AMCB" TABLE
FOLLOWED BY ONE OR MORE ANCHOR-TABLE ENTRIES OF THE FOLLOWING FORMAT:				
C	ANCHOAL	4		POINTER TO VSAM "OAL" (OPEN ACB) TABLE
10	ANCHPHNM	8		PHASE NAME
18	ANCHLDPT	4		LOAD POINT
1C	ANCHENTP	4		ENTRY POINT
20	ANCHSTSW	1	A*1	STATUS SWITCH

Bits defined in ANCHSTSW

7F	ANCHINST			PHASE IS ALREADY IN STORAGE
FF	ANCHRPJL			REQUESTED PHASE JUST LOADED BY ANOTHER TASK (ONLY IF AP=YES)
14	ANCHLENG			LENGTH OF ONE ANCHOR-TABLE ENTRY
00	ANCHMLOD			PHASE MUST BE LOADED
	ANCHSIZ			1024 DEFAULT SIZE OF ANCHOR TABLE IN BYTES
21	ANCHPHLN	3		LENGTH OF PHASE IN BYTES

CROSS REFERENCE (Name Disp Value)

ANCHCBS	0008	..	ANCHLDPT	0018	..	ANCHOAL	000C	..	ANCHRPJL	0020	FF
ANCHENDA	0000	..	ANCHLENG	0020	14	ANCHPHLN	0021	..	ANCHSIZ	0020	**
ANCHENTP	001C	..	ANCHMLOD	0020	00	ANCHPHNM	0010	..	ANCHSTSW	0020	..
ANCHINST	0020	7F									

AVRADR: VOLUME AND DEVICE CHARACTERISTICS

| AVRADR describes the characteristics of volumes and devices in response to a VSE SVC 99 request (GETVCE). AVRADR is invoked by AVRADR copy.

0	AVRPUB			AVRVOLID		
8		A*1	A*2	AVRVTOC	AVRVHH	
10	A*3	///	AVRLNO	A*4	A*5	DCTUCBC
18		DCTPCYL		DCTACYL	DCTTCYL	
20	DCTBTRK			DCTTFIX		
28	DCTMAXR	DCTROH		DCTFLG		

Size

DCTADR LENGTH IN BYTES (DCTLEN) 1C
 AVRADR LENGTH IN BYTES (AVRLEN) 30

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	AVRPUB	4		ADDRESS OF PUB
4	AVRVOLID	6		VOLUME IDENTIFIER
A	AVRFLAG	1	A*1	MASK OF INVALID FIELDS
	Bits defined in AVRFLAG			
02	AVRNLNO			AVRLNO INVALID
01	AVRNVOL			AVRVOLID AND AVRVTOC INVALID
B	AVRTYPE	1	A*2	DEVICE CHARACTERISTICS
	Bits defined in AVRTYPE			
01	AVRFBA			FB/E DEVICE
02	AVRCKD			CKD DEVICE
03	AVRRPS			DEVICE SUPPORTS RPS
C	AVRVTOC	6		VTOC POINTER
C	AVRVCC	2		CKD CYLNDER NUMBER
E	AVRVHH	2		CKD TRACK NUMBER
10	AVRVR	1	A*3	CKD RECORD NUMBER
C	AVRVC1	1		FB/E BLKS/CI IN VTOC
D	AVRVNUM	4		FB/E BLOCKNO

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
12	AVRLNO	2		LOGICAL UNIT NUMBER
Bits defined in AVRLNO				
14	AVRDEVC			DEVICE CHARACTERISTICS
14	DCTADR	1	A*4	
14	DCTPUBC	1		PUB CODE
15	DCTDTFC	1	A*5	
16	DCTUCBC	4		VSAM CATALOG CODE
1A	DCTPCYL	2		PRIMARY CYLS/BLKS PER VOLUME
1C	DCTACYL	2		ALTERNATE AREA CYLS/BLKS
1E	DCTTCYL	2		TRKS/CYL..CKD
20	DCTBTRK	4		CKD. BYTES PER TRK
24	DCTTFIX	4		CYL/BLKS UNDER FIXED ACCESS
28	DCTMAXR	2		MAXIMUM PHYSICAL RECORD SIZE
2A	DCTROH	3		DEVICE 0/HEAD
2D	DCTFLG	3		DEVICE TOLERANCE

CROSS REFERENCE (Name Disp Value)

AVRCKD	000B	02	AVRPUB	0000	..	AVRVOLID	0004	..	DCTLEN	....	1C
AVRDEVC	0012	14	AVRRPS	000B	03	AVRVR	0010	..	DCTMAXR	0028	..
AVRFBA	000B	01	AVRTYPE	000B	..	AVRTOC	000C	..	DCTPCYL	001A	..
AVRFLAG	000A	..	AVRVCC	000C	..	DCTACYL	001C	..	DCTPUBC	0014	..
AVRLEN	....	30	AVRVCI	000C	..	DCTADR	0014	..	DCTROH	002A	..
AVRLNO	0012	..	AVRVHH	000E	..	DCTBTRK	0020	..	DCTTCYL	001E	..
AVRNLNO	000A	02	AVRVNUM	000D	..	DCTDTFC	0015	..	DCTTFIX	0024	..
AVRNVOL	000A	01	AVRVOLC	0000	00	DCTFLG	002D	..	DCTUCBC	0016	..

BATLSECT: CMS BATCH USER JOB LIMITS

BATLSECT describes the fields in the user job limits table for CMS batch jobs. BATLSECT is invoked by the BATLIMIT macro.

0	BATCPUL	BATCPUC	BATPRTL	BATPRTC
8	BATPUNL	BATPUNC		

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>	
0	BATCPUL	2		VIRTUAL CPU LIMIT (SEC.)	- CAN BE RESET
2	BATCPUC	2		CURRENT CPU COUNT	- DO NOT RESET
4	BATPRTL	2		NUMBER PRINTED LINES LIMIT	- CAN BE RESET
6	BATPRTC	2		CURRENT LINE COUNT	- DO NOT RESET
8	BATPUNL	2		NUMBER PUNCHED CARDS LIMIT	- CAN BE RESET
A	BATPUNC	2		CURRENT CARD COUNT	- DO NOT RESET

CROSS REFERENCE (Name Disp Value)

BATCPUC	0002	..	BATPRTC	0006	..	BATPUNC	000A	..
BATCPUL	0000	..	BATPRTL	0004	..	BATPUNL	0008	..

BBOX: BOUNDARY BOX

BBOX contains the beginning addresses of the VSE partitions when CMS/DOS is active; one for each entry. BBOX is invoked by the BBOX macro.

0	PBEGIN	PENDLOG
8	PGEND	PFIXLMT
10	PFIXCNT	

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PBEGIN	4		PARTN START ADDR
4	PENDLOG	4		PARTN LOGICAL END
8	PGEND	4		PARTN PHYSICAL END
C	PFIXLMT	4		PFIX LIMIT ZERO FOR CMS
10	PFIXCNT	4		PFIX COUNT ZERO FOR CMS

CROSS REFERENCE (Name Disp Value)

PBEGIN	0000 ..	PFIXCNT	0010 ..	PFIXLMT	000C ..
PENDLOG	0004 ..			PGEND	0008 ..

BGCOM: VSE PARTITION COMMUNICATION REGION

BGCOM simulates the DOS/VS Partition Communication Region (BGCOM). The ABGCOM field in NUCON points to the BGCOM block. BGCOM is invoked by the BGCOM macro.

0	JOBDATE				
8	//////////	COMUSCR			
10	COMUSCR (cont.)				UPSI
18	COMNAME				
20	PPEND		HIPHAS		
28	HIPROG		LABLEN	PIK	
30	EOCADR		B*1	LTACT	SOB1 SOB2
38	JCSW1	JCSW2	JCSW3	JCSW4	////////// FOCLPT
40	PUBPT	FAVPT	JIBPT	//////////	
48	FICLPT	NICLPT	LUBPT	B*2	MMDD
50	MMDD (cont.)		YYDDD		
58	LIOCSCOM	PIBPT	CHKPTID	JOBZON	
60	DIBPT	B*3	///	IJBHCFAD	
68	cont.	///	PWTIMS	//////////	LTK
70	SYSPAR		JAPART		
78	TODCOM		PIB2PTR	PDTABB	
80	LABELPTR		BGCOMPT	B*4	B*5
88	//////////		B*6	B*7	B*8 B*9
90	B*9 (continued)				B*10
98	POVNAM				B*11
A0	POWPCB		JCSW5	JCSW6	//////////
A8	LUBEXT		B*12	B*13	B*14 B*15
B0	IJB JPL		IJB A FCB		
B8	IJB PHLST		IJB JOBLG		
C0	IJB JOBLG (cont.)				

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	JOBDATE	8		JOB DATE
8		4		RESERVED
C	COMUSCR	11		USER SCRATCH AREA
17	UPSI	1		UPSI BYTE
18	COMNAME	8		JOB NAME
20	PPEND	4		HIGHEST STORAGE ADDRESS OF PARTITION
24	HIPHAS	4		END ADDRESS OF LAST PHASE LOADED
28	HIPROG	4		END ADDRESS OF LONGEST PHASE LOADED
2C	LABLEN	2		LENGTH OF PROBLEM PROGRAM LABEL AREA
2E	PIK	2		PROGRAM INTERRUPT KEY
30	EOCADR	4		END OF VIRTUAL STORAGE ADDRESS
34	CONFIG	1	B*1	MACHINE CONFIGURATION BYTE
35	LTACT	1		SYSTEM CONFIGURATION BYTE
36	SOB1	1		STANDARD LANGUAGE TRANSLATOR OPTIONS
37	SOB2	1		STANDARD SUPERVISOR OPTIONS
38	JCSW1	1		JOB CONTROL BYTE
39	JCSW2	1		LINKAGE CONTROL BYTE
3A	JCSW3	1		NON-STD LANGUAGE TRANSLATOR OPTIONS
3B	JCSW4	1		JOB DURATION INDICATOR BYTE
3C		2		RESERVED
3E	FOCLPT	2		ADDRESS OF FOCL
40	PUBPT	2		ADDRESS OF PUB
42	FAVPT	2		ADDRESS OF FAVP
44	JIBPT	2		ADDRESS OF JIB
46		2		RESERVED
48	FICLPT	2		ADDRESS OF FICL
4A	NICLPT	2		ADDRESS OF NICL
4C	LUBPT	2		ADDRESS OF LUB
4E	SYSLINE	1	B*2	SYSLST LINE COUNT
4F	SYSDATE	9		SYSTEM DATE
4F	MMDD	4		MMDD OR DDMM

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
53	YYDDD	5		YYDDD PORTION OF DATE
| 58	LIOCS0M	2		LIOCS COMMUNICATION BYTES
5A	PIBPT	2		ADDRESS OF PIB
5C	CHKPTID	2		LAST CHECKPOINT NUMBER
5E	J0BZ0N	2		J0B ZONE IN MINUTES
60	DIBPT	2		BACKGROUND DIB POINTER
62	DEVFLG1	1 B*3		DEV FLAGS FOR AUTOCLOSE
| 63		1		RESERVED
64	IJBHCFAD	5		J0B STATEMENT ON HC FILE
| 69		1		RESERVED
6A	PWTIMS	2		KEY OF PROGRAM WITH IT SUPPORT
| 6C		2		RESERVED
6E	LTK	2		LOGICAL TRANSIENT KEY
70	SYSPAR	4		ADDRESS OF SYSPARM
74	JAPART	4		ADDRESS OF J0B ACCOUNTING TABLE
78	TODCOM	4		ADDRESS OF TOD COMMUNICATIONS AREA
7C	PIB2PTR	2		ADDRESS OF PIB EXTENSION
7E	PDTABB	2		ADDRESS OF MICR DTF TABLE
80	LABELPTR	4		ADDRESS OF LABEL SPACE
84	BGC0MPT	2		ADDRESS OF BACKGROUND COMREG
86	OPTNBYTE	1 B*4		OPTION INDICATOR BYTE
87	RMSROPEN	1 B*5		SYSTEM CONFIG BYTE 2
| 88		4		RESERVED
8C	STDOPT	1 B*6		STANDARD J0B CONTROL OPTION BYTE
8D	TEM0PT	1 B*7		TEMPORARY J0B CONTROL OPTION BYTE
8E	DISKCONF	1 B*8		DISK CONFIGURATION BYTE
8F	PROCNAM	8 B*9		PROCEDURE NAME
97	PSWTCH	1 B*10		INTERFACE BYTE FOR CATALOG PROCEDURE
98	POVNAM	7		SAVE AREA FOR STATEMENT NAME
9F	INSIZE	1 B*11		81 BYTE SYSIN INDICATOR
A0	POWPCB	4		ADDRESS OF PART CTL BLOCK
A4	POWFLG1	1 B*12		POWER/V5 FLAG BYTE 1

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
A5	POWFLG2	1	B*13	POWER/VS FLAG BYTE 2
A6		2		RESERVED
A8	LUBEXT	4		ADDRESS OF LUB TAB EXT
AC	JCSW5	1		JOB CTL SWITCH 5
AD	JCSW6	1		JOB CTL SWITCH 6
AE	STDOPT2	1	B*14	STANDARD OPTIONS 2
AF	TEMOPT2	1	B*15	TEMPORARY OPTIONS 2
B0	IJB JPL	4		ADDRESS OF JPL OF PARTITION
B4	IJB A FCB	4		SLOT FOR CICS
B8	IJB PHLST	4		ADDRESS OF FETCH/LOAD TRACE TABLE
BC	IJB JOBLG	8		ADDRESS OF LAST HC JOBSTMNT
C4	COMREND			

CROSS REFERENCE (Name Disp Value)

BGCOMPT	0084 ..	IJB JOBLG	00BC ..	LTACT	0035 ..	PROCNAM	008F ..
CHKPTID	005C ..	IJB JPL	00B0 ..	LTK	006E ..	PSWCH	0097 ..
COMNAME	0018 ..	IJB PHLST	00B8 ..	LUBEXT	00A8 ..	PUBPT	0040 ..
COMREND	00C4 ..	INSIZE	009F ..	LUBPT	004C ..	PWTIMS	006A ..
COMUSCR	000C ..	JAPART	0074 ..	MMDD	004F ..	RMSROPEN	0087 ..
CONFIG	0034 ..	JCSW1	0038 ..	NICLPT	004A ..	SOB1	0036 ..
DEVFLG1	0062 ..	JCSW2	0039 ..	OPNBYT2	0063 ..	SOB2	0037 ..
DIBPT	0060 ..	JCSW3	003A ..	OPTNBYTE	0086 ..	STDOPT	008C ..
DISKCONF	008E ..	JCSW4	003B ..	PDTABB	007E ..	STDOPT2	00AE ..
EOCADR	0030 ..	JCSW5	00AC ..	PIBPT	005A ..	SYSDATE	004F ..
FAVPT	0042 ..	JCSW6	00AD ..	PIB2PTR	007C ..	SYSLINE	004E ..
FICLPT	0048 ..	JIBPT	0044 ..	PIK	002E ..	SYSPAR	0070 ..
FOCLPT	003E ..	JOBDATE	0000 ..	POVNAM	0098 ..	TEMOPT	008D ..
HIPHAS	0024 ..	JOBZON	005E ..	POWFLG1	00A4 ..	TEMOPT2	00AF ..
HIPROG	0028 ..	LABELPTR	0080 ..	POWFLG2	00A5 ..	TODCOM	0078 ..
IJB A FCB	00B4 ..	LABLEN	002C ..	POWPCB	00A0 ..	UPSI	0017 ..
IJB HCFAD	0064 ..	LIOCSCOM	0058 ..	PPEND	0020 ..	YYDD	0053 ..

CMSLEVEL

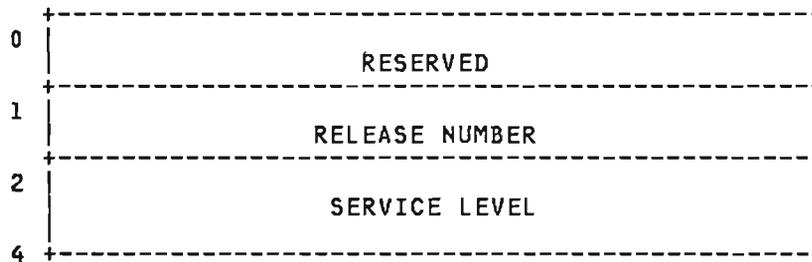
CMSLEVEL maps the contents returned by the QUERY CMSLEVEL CMS command. CMSLEVEL is invoked by the CMSLEVEL macro.

The following picture represents the contents of Register's and not of Storage.

QUERY CMSLEVEL LOADS R0 WITH THE FOLLOWING:



QUERY CMSLEVEL LOADS R1 WITH THE FOLLOWING:



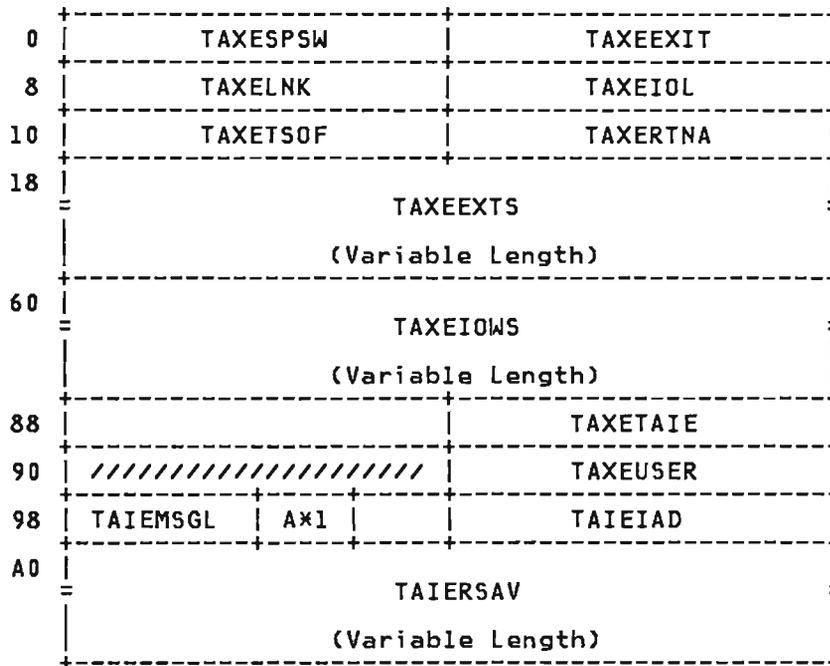
THE FOLLOWING BITS ARE DEFINED IN R1 AND FOUND IN DISPLACEMENTS 1 to 2.

<u>Name</u>	<u>Len</u>	<u>Description</u>
VMR6	00	VM/370 RELEASE 6
VMBSEP	01	VM/BSEP RELEASE 2
VMSEP	02	VM/SEP RELEASE 2
VMSP1	03	VM/SP RELEASE 1
VMSP2	04	VM/SP RELEASE 2
VMSP3	05	VM/SP RELEASE 3

SERVICE LEVEL is a halfword in binary format.

CMSTAXE: TERMINAL ATTENTION EXIT ELEMENT

CMSTAXE defines the fields used in a Terminal Attention Exit Element (TAXE). The TAXE is used mainly by DMSCIT for processing attention interrupts. CMSTAXE is invoked via the TSOBLOKS macro. The TAXEADDR field in NUCON points to CMSTAXE.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	TAXESPSW	4		LEFT HALF PSW FOR ATTENTION RETURN
4	TAXEEXIT	4		ATTENTION EXIT ADDRESS
8	TAXESTAT	4		STATUS OF EXIT RETURN
Bits defined in TAXESTAT				
80	TAXEFREQ			ATTENTION EXIT TAKEN
8	TAXELNK	4		NEXT TAXE ON QUEUE
C	TAXEIOIOL	4		LEFT HALF IO OLD PSW
10	TAXETSOFF	4		TSOFLAGS SAVED HERE
14	TAXERTNA	4		RETURN ADDRESS
18	TAXEEXTS	0		ATTENTION EXIT RETURN SAVE AREA
60	TAXEIOIOWS	0		DMSIOW SAVE AREA

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

ALSO ATTENTION EXIT PARAMETER LIST

8C	TAXETAIE	4		ADDRESS OF TAIE
94	TAXEDEF	4		DEFER INDICATOR
94	TAXEUSER	4		USER PARAMETER LIST ADDRESS

ALSO TERMINAL ATTENTION INTERRUPT ELEMENT (TAIE)

98	TAIEMSGL	2		RESERVED
9A	TAIETGET	1	A*1	RESERVED
9C	TAIEIAD	4		RIGHT HALF IO OLD PSW
A0	TAIERSAV	64		REGISTERS 0-15 INTERRUPTED PROGRAM

CROSS REFERENCE (Name Disp Value)

TAIEIAD	009C	..	TAXEEXIT	0004	..	TAXEIOWS	0060	..	TAXESTAT	0008	..
TAIEMSGL	0098	..	TAXEEXTS	0018	..	TAXELNK	0008	..	TAXETAIE	008C	..
TAIERSAV	00A0	..	TAXEFREQ	0008	80	TAXERTNA	0014	..	TAXETSOF	0010	..
TAIETGET	009A	..	TAXEIOL	000C	..	TAXESPSW	0000	..	TAXEUSER	0094	..
TAXEDEF	0094	..									

COMCLIST: COMMUNICATIONS CHECKING LIST

One of these control blocks is created for each node that is checked for its ability to communicate with the programmable operator facility. The programmable operator facility uses this block as a listing to verify which nodes have to be checked.

0	COMCNEXT		COMCWTT	COMCCHKT		
8	COMCNODE					
10	COMCWTC	COMCCHKC	C*1	C*2	C*3	///

Size

NODE LIST ENTRY LENGTH IN DOUBLEWORDS (COMCLEN) 03
 NODE LIST ENTRY LENGTH IN BYTES (COMCLEN) 18

Disp	Name	Len	Key	Description
0	COMCNEXT	4		ADDRESS OF NEXT COMCLIST BLOCK
4	COMCWTT	2		TIME TO WAIT FOR RESPONSE
6	COMCCHKT	2		TIME BETWEEN CHECKS ON THIS NODE
8	COMCNODE	8		ID OF NODE BEING CHECKED
10	COMCWTC	2		RESPONSE WAIT COUNT
12	COMCCHKC	2		CHECKING WAIT COUNT
14	COMCSTSF	1	C*1	FLAGS INDICATING CURRENT STATUS
Bits defined in COMCSTSF				
80	COMCUP			THIS NODE CURRENTLY OPERATIONAL
40	COMCRESP			THIS NODE HAS RESPONDED
20	COMCWAIT			AWAITING RESPONSE ON THIS NODE
10	COMCCKON			CHECKING IS ON FOR THIS NODE
15	COMCBLEN	1	C*2	CHKNODES BLOCK LENGTH IN DOUBLEWORDS
16	COMCCTYP	1	C*3	TYPE OF COMMUNICATION CHECKING
Bits defined in COMCCTYP				
02	COMCCPRP			INDICATES PROP CHECKING
01	COMCCHST			INDICATES HOST CHECKING
17		1		RESERVED

CROSS REFERENCE (Name Disp Value)

COMCBLEN 0015 ..	COMCCPRP 0016 02	COMCNEXT 0000 ..	COMCUP 0014 80
COMCCHKC 0012 ..	COMCCTYP 0016 ..	COMCNODE 0008 ..	COMCWAIT 0014 20
COMCCHKT 0006 ..	COMCLEN 18	COMCRESP 0014 40	COMCWTC 0010 ..
COMCCHST 0016 01	COMCLEND 03	COMCSTSF 0014 ..	COMCWTT 0004 ..
COMCCKON 0014 10			

Disp Name Len Key Description

CVTSECT: COMMUNICATIONS VECTOR TABLE AS SUPPORTED BY CMS

CVTSECT simulates the OS Communications Vector Table. CVTSECT is invoked via the CMSCVT macro. The ACMSCVT field in NUCON points to CMSCVT.

0	////////	CVTMDL	C*1
8	NOT SUPPORTED		
40	CVTDATE		
	NOT SUPPORTED		
58	CVTEXTIT	CVTBRET	
	NOT SUPPORTED		
78			C*2
80	CVTR13		
88	CVTNUCB		
	NOT SUPPORTED		
A0			CVTMZ00
	NOT SUPPORTED		
B8			CVTOPTA
	NOT SUPPORTED		
D0			CVTUSER
	NOT SUPPORTED		
108	CVTAVIB		

CVTSECT

CVTSECT

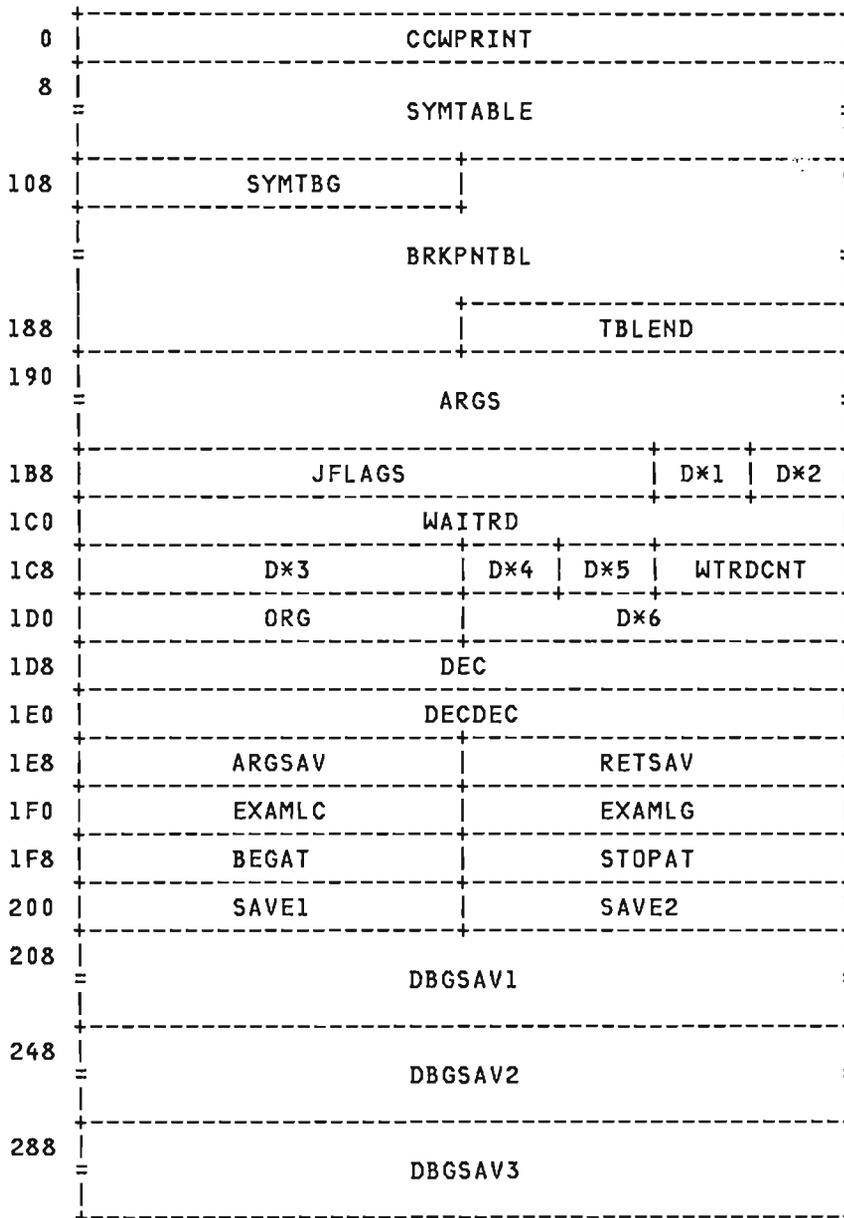
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
2	CVTMDL	2		CPU MODEL ID
| 4		4	C*1	'CSPR' - CMS SYSTEM PRODUCT RELEASE
8	CMSCVT	0		CVT START
| 40	CVTDATE	4		CURRENT DATE IN PACKED DECIMAL
58	CVTEXIT	2		AN SVC 3 INSTRUCTION (EXIT)
5A	CVTBRET	2		A BCR 15,14 INSTRUCTION
| 7C	CVTDCB	1	C*1	SYSTEM CONFIGURATION = PCP
80	CVTR13	4		R13 SAVED DURING 'OPEN'
88	CVTNUCB	4		LOWEST STORAGE ADDRESS NOT IN NUCLEUS
AC	CVTMZ00	4		HIGHEST STORAGE ADDRESS IN MACHINE
BE	CVTOPTA	2		BIT 7 - EXT-PREC FP HRDWRE IN CPU
D4	CVTUSER	4		FIELD AVAILABLE TO USER
108	CVTAVIB	4		ADDRESS OF VSAM INTFC BOOTSTRAP

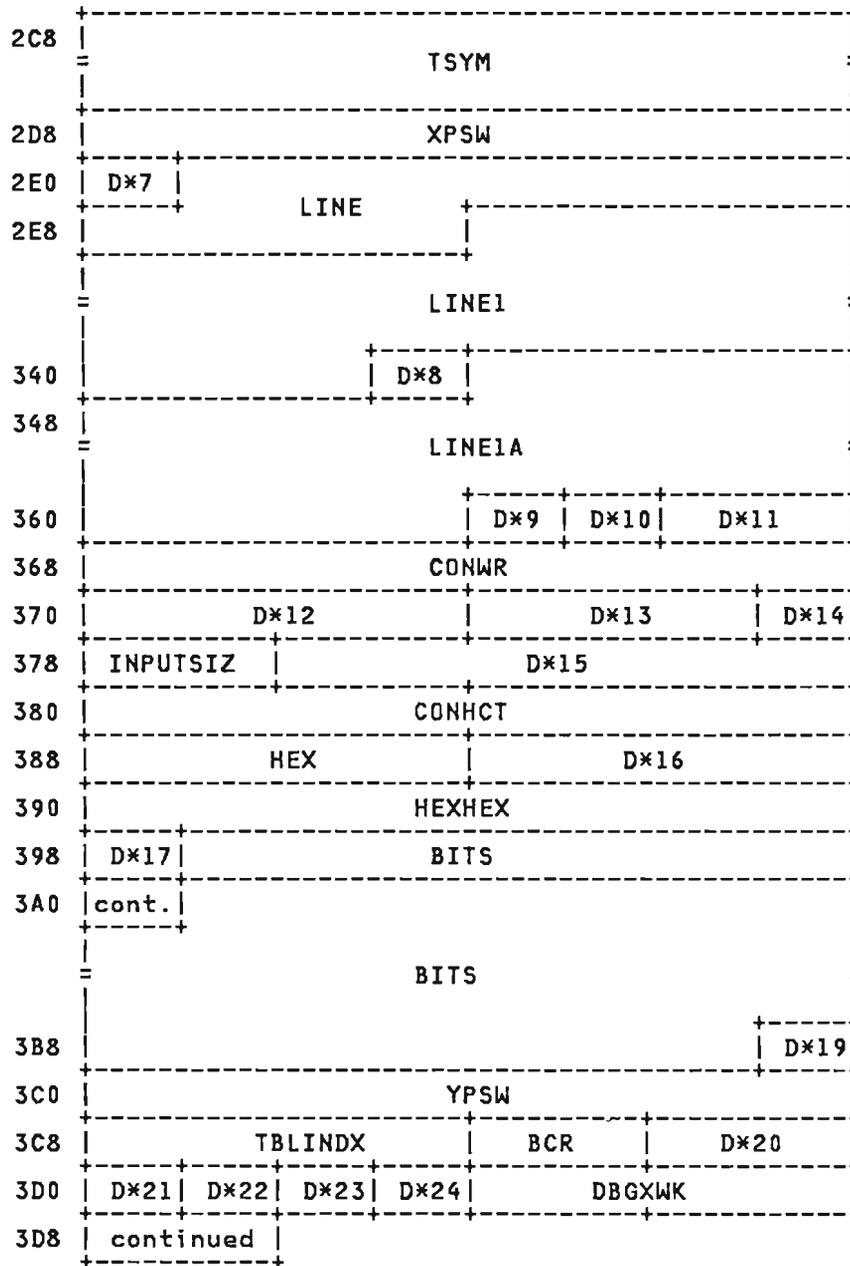
CROSS REFERENCE (Name Disp Value)

CMSCVT	0008	..	CVTDATE	0040	..	CVTMDL	0002	..	CVTOPTA	00BE	..
CVTAVIB	0108	..	CVTDCB	007C	..	CVTMZ00	00AC	..	CVTR13	0080	..
CVTBRET	005A	..	CVTEXIT	0058	..	CVTNUCB	0088	..	CVTUSER	00D4	..

DBGSECT: DEBUG WORK AREA

DBGSECT contains the files used by DEBUG for saving registers, breakpoints, PSWs, and other data. V-constants in DMSDBD, DMSDBG, and DMSITE point to the DEBUG work area. DBGSECT is invoked via the DBGSECT macro.





Size

FOR INITIALIZING TO ZERO (MVCNT2) 2F
 NUMBER OF BYTES IN ARGS (MVCNT1) 28

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	CCWPRINT	8		
8	SYMTABLE	256		USER DEFINED SYMBOL TABLE
108	SYMTBG	4		
10C	BRKPNTBL	64		BREAKPOINT TABLE
18C	TBLEND	4		END ADDRESS OF BREAKPOINT TABLE

STORAGE AND CONSTANTS FOR NEWLIN AND CONTROL

| 190 ARG5 40 ARGUMENTS STORED HERE

Bits defined in ARG5

| 1B8 ARGMAX END OF ARGUMENT AREA
 ARGMAX END OF ARGUMENT AREA
 | 28 MVCNT1 NUMBER OF BYTES IN ARGUMENT
 20 MVCNT2 NEEDED FOR SET GPR COMMAND

1B8 JFLAGS 6 FLAGS CORRESPONDING TO ARG5

| ONE FLAG FOR EACH PARAMETER: 00 = NUMERIC (0 - 9)
 F0 = HEX (A - F, 0 - 9)
 FF = ALPHABETIC (A - F)

1BE ARG5CT 1 D*1 NUMBER OF ARGUMENTS IN COMMAND LINE

1BF 1 D*2 UNUSED

1C0 WAITRD 8 PARAMETER LIST TO GET INPUT LINE

1C8 4 D*3 A(INPUT BUFFER)

1CC 1 D*4 CLEAN UP AND LOGICAL CARRIAGE RETURN

1CD 1 D*5

1CE WTRDCNT 2 BYTE COUNT FILLED IN HERE

1D0 ORG 4 ORIGIN OF ROUTINE BEING EXAMINED

1D4 4 D*6

THE FOLLOWING VARIABLES ARE USED BY DEBUG AND DEBDUMP

1D8 DEC 8 BINARY WORD

1E0 DECDEC 8 DECIMAL WORD

1E8 ARG5AV 4 STORAGE FOR ARGUMENT LOCATION

1EC RET5AV 4 STORAGE FOR RETURN ADDRESS

1F0 EXAMLC 4 FIRST LOCATION TO BE EXAMINED

1F4 EXAMLG 4 LENGTH OF FIELD TO BE EXAMINED

1F8 BEGAT 4 BEGINNING PARAMETER BEING PROCESSED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
1FC	STOPAT	4		LAST PARAMETER LOCATION
Bits defined in STOPAT				
	LASTLINE			32 BYTES FOR LAST LINE DUMPED
200	SAVE1	4		DEBDUMP USES FOR LINE COUNT
204	SAVE2	4		
208	DBGSAV1	64		DEBUG BALR-CALL SAVE
248	DBGSAV2	64		SAVE AREA FOR CONWAIT/CONREAD
| 288	DBGSAV3	64		SAVE AREA FOR USER REGISTERS
| 2C8	TSYM	16		SYMBOL ENTRY
| 2D8	XPSW	8		PSW TO BE LOADED UPON GO
| 2E0	OUTPT1	1 D*7		BYTE COUNT
2E1	LINE	11		I/O BUFFER
| 2EC	LINE1	87		
| 343	LINE1B	1 D*8		
| 344	LINE1A	32		
| 364	LINE1C	1 D*9		
| 365	LINE1D	1 D*10		
Bits defined in LINE1D				
| 31D	INPUT1			HEX PACK AREA
| 2E1	DBGOUT			OUTPUT BUFFER
| 2E1	INPUT			INPUT BUFFER
| 366		2 D*11		UNUSED
| 368	CONWR	8		PLIST TO TYPE OUTPUT LINE
| 370		4 D*12		
| 374		3 D*13		
| 377	CONWRL	1 D*14		
| 378	INPUTSIZ	2		SIZE OF TYPED IN INPUT LINE
| 37A		6 D*15		
| 380	CONHCT	8		
| 388	HEX	4		BINARY WORD
| 38C		4 D*16		
| 390	HEXHEX	8		PRINTER GRAPHIC WORD
| 398		1 D*17		

DBGSECT

DBGSECT

Disp Name Len Key Description

| 399 BITS 8
 | 3A1 15 D*18
 | 3BF DBGSWTCH 1 D*19 INTERNAL DEBUG STATUS FLAGS

Bits defined in DBGSWTCH

| 80 UNUSED FLAG
 | 40 UNUSED FLAG
 | 20 DBDEXIT SIGNALS EXIT FROM DEBDUMP
 | 10 DBDDMSG SIGNALS DUPLICATE MESSAGE IN DEBDUMP
 | 08 DBGSET SIGNALS SET COMMAND
 | 04 DBGPERM RESERVED FOR IBM USE
 | 02 DBGCOND RESERVED FOR IBM USE

THE FOLLOWING ARE RESERVED FOR FUTURE USE

| 3C0 YPSW 8 PSW CONTAINING NSI
 | 3C8 TBLINDX 4 CURRENT BRKPT TABLE INDEX
 | 3CC BCR 2 NOPR TO PAD DBGXWK WHEN NEEDED
 | 3CE 2 D*20 ADDITIONAL NOPR (IF NEEDED)
 | 3D0 ILC 1 D*21 ILC OF INSTRUCTION IN DBGXWK
 | 3D1 ILC11 1 D*22 3 HALFWORD INSTRUCTION (6 BYTES)
 | 3D2 ILC0110 1 D*23 2 HALFWORD INSTRUCTION (4 BYTES)
 | 3D3 ILC00 1 D*24 1 HALFWORD INSTRUCTION (2 BYTES)

Bits defined in ILC00

45 BAL BAL OP-CODE
 05 BALR BALR OP-CODE

3D4 DBGXWK 6 RECREATE INSTRUCTION AT BRKPT ADDRESS

CROSS REFERENCE (Name Disp Value)

ARGMAX 0190 **	DBDEXIT 037F 20	| ILC00 03D3 ..	MVCNT2 0000 2F
ARGS 0190 ..	DBGCOND 037F 02	| ILC0110 03D2 ..	ORG 01D0 ..
ARGSAV 01E8 ..	DBGOUT 0325 **	| ILC11 03D1 ..	OUTPT1 02A0 ..
ARGSCT 01BE ..	DBGPERM 037F 04	| INPUT 0325 **	RETSAV 01EC ..
BAL 0393 45	DBGSAV1 0208 ..	| INPUTSIZ 0378 ..	SAVE1 0200 ..
BALR 0393 05	DBGSAV2 0248 ..	| INPUT1 0325 **	SAVE2 0204 ..
BCR 03CC ..	DBGSET 037F 08	| JFLAGS 01B8 ..	STOPAT 01FC ..
BEGAT 01F8 ..	| DBGSWTCH 03BF ..	| LASTLINE 01FC **	SYMTABLE 0008 ..
BITS 0399 ..	DBGXWK 0394 ..	| LINE 02E1 ..	SYMTBG 0108 ..
BRKPNTBL 010C ..	DEC 01D8 ..	| LINE1 02EC ..	TBLEND 018C ..
CCWPRINT 0000 ..	DECDEC 01E0 ..	| LINE1A 0344 ..	| TBLINDX 03C8 ..
CONHCT 0380 ..	EXAMLC 01F0 ..	| LINE1B 0343 ..	TSYM 0288 ..
CONHXT 03B9 **	EXAMLG 01F4 ..	| LINE1C 0364 ..	WAITRD 01C0 ..
CONWR 0368 ..	HEX 0388 ..	| LINE1D 0365 ..	WTRDCNT 01CE ..
CONWRL 0377 ..	HEXHEX 0390 ..	| MVCNT 0190 20	XPSW 0298 ..
DBDDMSG 037F 10	ILC 03D0 ..	| MVCNT1 0000 28	| YPSW 03C0 ..

DCHSECT: DATA CONTROL HYPERBLOCK

DCHSECT is the data control hyperblock that is an in-storage representation of disk data blocks as well as the relationship of these blocks on the disk. DCHSECT is invoked via the DCH macro.

0	DCHFWPTR	DCHBWPTR			
8	DCHDWSIZ	DCHTRUNK			
10	DCHTDISP	DCHDTSIZ			
18	DCHSEQBD	D*1	D*2	D*3	D*4
20	DCHDAMAP	DCHCHMAP			
28	DCHRSV				
30	DCHDATA				

Size

PREFIX PORTION OF HBLK LENGTH IN BYTES (DCHPFIXL) 30

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DCHFWPTR	4		FORWARD POINTER
4	DCHBWPTR	4		BACKWARD POINTER
8	DCHDWSIZ	4		FULL HYPERBLK STOR SIZE IN DOUBLEWORDS
C	DCHTRUNK	4		ADDRESS OF NEXT BLOCK UP IN STRUCTURE
10	DCHTDISP	4		DISPLACEMENT TO DISK ADDRESS IN TRUNK POINTER BLOCK
14	DCHDTSIZ	4		DATA PORTION SIZE IN BYTES
18	DCHSEQBD	4		SEQUENTIAL DATA BLK DISPLACEMENT
1C	DCHFLG1	1	D*1	DCH FLAG 1
Bits defined in DCHFLG1				
80	DCHCHOP			DEALLOC THIS DIRECTORY BLOCK DURING DIRECTORY UPDATE
40	DCHNEW			DO NOT REALLOC THIS DIRECTORY BLOCK DURING DIRECTORY UPDATE
20	DCHDALLO			DISK ADDRESS OF BLOCK IS IN DE-ALLOCATION LIST
10	DCHCHGD			BLOCK HAS BEEN ALTERED
08	DCHRALLO			DISK ADDRESS OF BLOCK IS IN RE-ALLOCATION LIST
1D	DCHFLG2	1	D*2	DCH FLAG 2
Bits defined in DCHFLG2				
80	DCHFLL			ALL DISK BLOCKS ALLOCATED IN THIS HBLK
40	DCHDA			ALL DISK BLOCKS DEALLOCATED BY ERS
20	DCHLHBLK			LAST HBLK IN BUFFER CH FOR ERS
10	DCHDUM			DUMMY HBLK FOR CHAINING AUXILIARY DIRECTORY
08	DCHSHR			BLOCK IS IN SHARED STORAGE

DCHSECT

DCHSECT

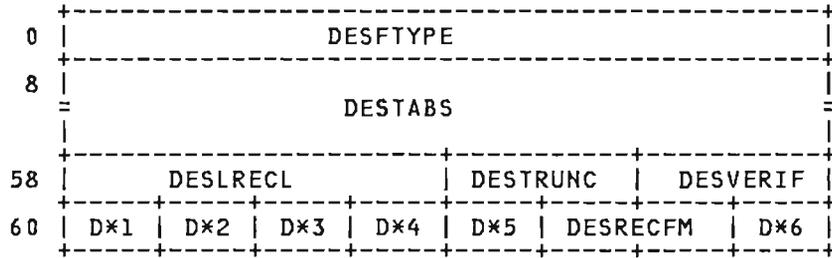
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
1E	DCHFLG3	1	D*3	DCH FLAG 3 - RESERVED -
1F	DCHFLG4	1	D*4	DCH FLAG 4 - RESERVED -
20	DCHDAMAP	4		DEALLOCATION MAP ADDRESS
24	DCHCHMAP	4		CHANGE MAP ADDRESS
28	DCHRSV	8		RESERVED
30	DCHDATA	8		

CROSS REFERENCE (Name Disp Value)

DCHBWPTR	0004	..	DCHDATA	0030	..	DCHFLG4	001F	..	DCHRALLO	001C	08
DCHCHGD	001C	10	DCHDTSIZ	0014	..	DCHFULL	001D	80	DCHRSV	0028	..
DCHCHMAP	0024	..	DCHDUM	001D	10	DCHFWPTR	0000	..	DCHSEQBD	0018	..
DCHCHOP	001C	80	DCHDWSIZ	0008	..	DCHLHBLK	001D	20	DCHSHR	001D	08
DCHDA	001D	40	DCHFLG1	001C	..	DCHNEW	001C	40	DCHTDISP	0010	..
DCHDALLO	001C	20	DCHFLG2	001D	..	DCHPFIXL	....	30	DCHTRUNK	000C	..
DCHDAMAP	0020	..	DCHFLG3	001E	..						

DESTYP: FILETYPE DESCRIPTOR

DESTYP is defined in DMSXTF and is used by the System Product Editor module DMSXIN to determine the filetype default settings. DESTYP is invoked via the ZDESTYP macro.



Size

LENGTH IN DOUBLEWORDS (DESLDES) 0D
 LENGTH IN BYTES (DESLDESB) 68

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DESFTYPE	8		FILETYPE
8	DESTABS	80		TABULATIONS
58	DESLRECL	4		LRECL
5C	DESTRUNC	2		TRUNCATION COLUMN
5E	DESVERIF	2		END VERIFY COLUMN
| 60	DESCFILL	1	D*1	FILLER CHARACTER
| 61	DESCESCA	1	D*2	ESCAPE CHARACTER
| 62	DESCASMU	1	D*3	CASE UPPERCASE/MIXED
| 63	DESNDISP	1	D*4	NONDISP CHARACTER
| 64		1	D*5	RESERVED
65	DESRECFM	2		RECFM F OR V
| 67	DESFLAG1	1	D*6	FLAG BYTE

Bits defined in DESFLAG1

80		X.....	RESERVED
40		.X.....	RESERVED
20		..X.....	RESERVED
10	DESSPLWD	...X....	SPILL WORD
08	DESSPLON	....X...	SPILL ON
04	DESCANON	.....X..	IMAGE CANON
02	DESIMGON	.....X.	IMAGE ON
01	DESSERON	.....X	SERIAL ON/OFF

DESTYP

DESTYP

CROSS REFERENCE (Name Disp Value)

DESCANON 0067 04	DESFTYPE 0000 ..	DESNDISP 0063 ..	DESSPLWD 0067 10
DESCASMU 0062 ..	DESIMGON 0067 02	DESRECFM 0065 ..	DESTABS 0008 ..
DESCESCA 0061 ..	DESLDESB 0000 68	DESSERON 0067 01	DESTRUNC 005C ..
DESCFILL 0060 ..	DESLDESD 0067 0D	DESSPLON 0067 08	DESVERIF 005E ..
DESFLAG1 0067 ..	DESLRECL 0058 ..		

DEVSECT: DEVICE TABLE DSECT

DEVSECT describes the device information required for input/output routines. DEVSECT is a DSECT corresponding to the data in a DEVTAB entry. DEVSECT is invoked via the DEVSECT macro.

0	DEVADDR	D*1	D*2	DEVNAME
8	DEVIPRA		DEVMISC	

Size

DEVICE TABLE SIZE IN BYTES (DEVSIZE) 10

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DEVADDR	2		VIRTUAL DEVICE ADDRESS
2	DEVFLAG	1	D*1	DEVICE FLAGS
3	DEVTYPE	1	D*2	DEVICE TYPE
4	DEVNAME	4		SYMBOLIC DEVICE NAME
8	DEVIPRA	4		INTERRUPT PROCESSING ROUTINE ADDRESS
C	DEVMISC	4		MISCELLANEOUS - DEVICE DEPENDENT

CROSS REFERENCE (Name Disp Value)

DEVADDR	0000 ..	DEVIPRA	0008 ..	DEVNAME	0004 ..	DEVSIZE	.... 10
DEVFLAG	0002 ..	DEVMISC	000C ..			DEVTYPE	0003 ..

DEVTAB: DEVICE TABLE

DEVTAB contains the entries for the various devices handled by CMS (disks, tapes, reader, punch, printer, and console). DEVTAB is pointed to by V-constants in DMSIOW and DMSITI, and is also referenced indirectly by the ADEVTAB field in NUCON. DEVTAB is invoked via the DEVTAB macro.

0	CONSOLE	F0	ODISK
C	COIECB	100	PDISK
10	ADISK	110	QDISK
20	BDISK	120	RDISK
30	CDISK	130	SDISK
40	DDISK	140	TDISK
50	EDISK	150	UDISK
60	FDISK	160	VDISK
70	GDISK	170	WDISK
80	HDISK	180	XDISK
90	IDISK	190	YDISK
A0	JDISK	1A0	ZDISK
B0	KDISK	1B0	READER1
C0	LDISK	1C0	PUNCH1
D0	MDISK	1D0	PRINTER1
E0	NDISK	1E0	READER2

1F0	PUNCH2	230	TAPE3
200	PRINTER2	240	TAPE4
210	TAPE1	250	DUMMY
220	TAPE2	260	TABEND

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	CONSOLE	0		DEVICE TABLE ENTRY FOR CONSOLE
| C	CONIECB	4		CONSOLE ECB
10	ADISK	0		DEVICE TABLE ENTRY FOR ADISK
20	BDISK	0		DEVICE TABLE ENTRY FOR BDISK
30	CDISK	0		DEVICE TABLE ENTRY FOR CDISK
40	DDISK	0		DEVICE TABLE ENTRY FOR DDISK
50	EDISK	0		DEVICE TABLE ENTRY FOR EDISK
60	FDISK	0		DEVICE TABLE ENTRY FOR FDISK
70	GDISK	0		DEVICE TABLE ENTRY FOR GDISK
80	HDISK	0		DEVICE TABLE ENTRY FOR HDISK
90	IDISK	0		DEVICE TABLE ENTRY FOR IDISK
A0	JDISK	0		DEVICE TABLE ENTRY FOR JDISK
B0	KDISK	0		DEVICE TABLE ENTRY FOR KDISK
C0	LDISK	0		DEVICE TABLE ENTRY FOR LDISK
D0	MDISK	0		DEVICE TABLE ENTRY FOR MDISK
E0	NDISK	0		DEVICE TABLE ENTRY FOR NDISK
F0	ODISK	0		DEVICE TABLE ENTRY FOR ODISK
100	PDISK	0		DEVICE TABLE ENTRY FOR PDISK
110	QDISK	0		DEVICE TABLE ENTRY FOR QDISK
120	RDISK	0		DEVICE TABLE ENTRY FOR RDISK
130	SDISK	0		DEVICE TABLE ENTRY FOR SDISK
140	TDISK	0		DEVICE TABLE ENTRY FOR TDISK
150	UDISK	0		DEVICE TABLE ENTRY FOR UDISK
160	VDISK	0		DEVICE TABLE ENTRY FOR VDISK
170	WDISK	0		DEVICE TABLE ENTRY FOR WDISK

DEVTAB

DEVTAB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
180	XDISK	0		DEVICE TABLE ENTRY FOR XDISK
190	YDISK	0		DEVICE TABLE ENTRY FOR YDISK
1A0	ZDISK	0		DEVICE TABLE ENTRY FOR ZDISK
1B0	READER1	0		DEVICE TABLE ENTRY FOR READER1
1C0	PUNCH1	0		DEVICE TABLE ENTRY FOR PUNCH1
1D0	PRINTER1	0		DEVICE TABLE ENTRY FOR PRINTER1
1E0	READER2	0		DEVICE TABLE ENTRY FOR READER2
1F0	PUNCH2	0		DEVICE TABLE ENTRY FOR PUNCH2
200	PRINTER2	0		DEVICE TABLE ENTRY FOR PRINTER2
210	TAPE1	0		DEVICE TABLE ENTRY FOR TAPE1
220	TAPE2	0		DEVICE TABLE ENTRY FOR TAPE2
230	TAPE3	0		DEVICE TABLE ENTRY FOR TAPE3
240	TAPE4	0		DEVICE TABLE ENTRY FOR TAPE4
250	DUMMY	0		DEVICE TABLE ENTRY FOR DUMMY
260	TABEND	0		

CROSS REFERENCE (Name Disp Value)

ADISK	0010 ..	HDISK	0080 ..	PRINTER2	0200 ..	TAPE2	0220 ..
BDISK	0020 ..	IDISK	0090 ..	PUNCH1	01C0 ..	TAPE3	0230 ..
CDISK	0030 ..	JDISK	00A0 ..	PUNCH2	01F0 ..	TAPE4	0240 ..
CONSOLE	0000 ..	KDISK	00B0 ..	QDISK	0110 ..	TDISK	0140 ..
CONIECB	000C ..	LDISK	00C0 ..	RDISK	0120 ..	UDISK	0150 ..
DDISK	0040 ..	MDISK	00D0 ..	READER1	01B0 ..	VDISK	0160 ..
DUMMY	0250 ..	NDISK	00E0 ..	READER2	01E0 ..	WDISK	0170 ..
EDISK	0050 ..	ODISK	00F0 ..	SDISK	0130 ..	XDISK	0180 ..
FDISK	0060 ..	PDISK	0100 ..	TABEND	0260 ..	YDISK	0190 ..
GDISK	0070 ..	PRINTER1	01D0 ..	TAPE1	0210 ..	ZDISK	01A0 ..

DIB: DISK INFORMATION BLOCK TABLE

DIB simulates the VSE disk information block. The DIBPT field of BGC0M points to the DIB. DIB is invoked via the DIB macro.

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0		7		SYSLINK DIB ENTRY CCH000
7		1		STARTING ADDR PCIL CYLINDER

SYSIN DIB ENTRY

18		1		CURRENT ADDRESS BBCCHHR
1F		3		KEY AND DATA LENGTH KDD
22		1		END ADDRESS BBCCHHR
29		1		UPPER AND LOWER HEAD LIMIT
2B		1		MAXIMUM NUMBER OF RECORDS
2C		1		RECORD COUNT

SYSPUNCH DIB ENTRY

30		1		CURRENT ADDRESS BBCCHHR
37		3		KEY AND DATA LENGTH KDD
3A		1		END ADDRESS BBCCHHR
41		1		UPPER AND LOWER HEAD LIMIT
43		1		MAXIMUM NUMBER OF RECORDS
44		2		RECORD COUNT

SYSLST DIB ENTRY

48		1		CURRENT ADDRESS BBCCHHR
4F		3		KEY AND DATA LENGTH KDD
52		1		END ADDRESS BBCCHHR
59		1		UPPER AND LOWER HEAD LIMIT
5B		1		MAXIMUM NUMBER OF RECORDS
5C		2		RECORD COUNT

DIB

DIB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

PROCEDURE DIB ENTRY

60		1		CURRENT ADDRESS BBCCHHR
67		3		KEY AND DATA LENGTH KDD
6A		1		END ADDRESS BBCCHHR
71		2		UPPER AND LOWER HEAD LIMIT
73		1		MAXIMUM NUMBER OF RECORDS
74		2		RECORD COUNT

CROSS REFERENCE (Name Disp Value)

DIB 0000 ..

DIOSECT: DISK I/O WORK AREA

DIOSECT describes the fields used by DMSDIO as a work area when reading and writing actual blocks of data on CMS disks. DIOSECT is pointed to by a V-constant in DMSNUC, and referenced indirectly by ADIOSECT in NUCON. DIOSECT is invoked via the DIOSECT macro.

0	IOOLD		
8	DIOCSW		
10	PWAIT		
20	QQDSK1		
28			
50	SEEKADR		A*1
58			
70	A*2	//////////	FBACD1M0
78	FBACD1FB		FBACD1LB
80	A*3	/A*4/	FBACL1NB
88	LASTCYL		LASTHED
90	A*5	A*6	
A8	SENSB		
B0	SENCCW		
B8	DOUBLE		
C0	XRSAVE		
F8			A*7
100	FREER0		DIOFREE
108	SAVEADT		
110			
118	A*8	A*9	A*10
120	DIOCCW01		

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	I0OLD	8		I/O-OLD-PSW (FROM INTERRUPT ROUTINE)
8	DIOCSW	8		CSW (FROM INTERRUPT ROUTINE)
WAIT CALLING SEQUENCE				
10	PWAIT	8		
24	QQDSK1	2		TWO BYTES ALWAYS = 0
26	QQDSK2	2		2ND HALFWORD COPY OF 16TH TRACK DISK-ADDRESS
CCW CHAIN				
50	SEEKADR	7		SEEK/SEARCH INFORMATION (1ST 3 BYTES ARE 0)
57	SECTNUM	1	A*1	SECTOR NUMBER
FBA CCWS FOR USE IN ONE-CMS-BLK OPERATIONS				
70	FBACD1	1	A*2	MASK
74	FBACD1M0	4		MAJOR OFFSET
78	FBACD1FB	4		FIRST BLOCK OFFSET
7C	FBACD1LB	4		LAST BLOCK OFFSET
LOCATE LIST				
80	FBACL1	1	A*3	OPERATION
82	FBACL1NB	2		NUMBER OF BLOCKS
84	FBACL1B0	4		BLOCK OFFSET
I/O INFORMATION				
88	LASTCYL	4		BECOMES 'LAST CYLINDER-NUMBER USED'
8C	LASTHED	4		BECOMES 'LAST HEAD-NUMBER USED'
90	DEVTYP	1	A*5	01 = 2311,08 = 2314,09 = 3330,
91	DIOFLAG	1	A*6	RDTK/WRTK FLAG:
Bits defined in DIOFLAG				
18	DIAGNUM			NUMBER ASSIGNED BY 'CP' FOR DIAGNOSE I/O
04	TOOBIG			BYTE-COUNT > 800
02	WRTKF			WRITING FIRST CHAIN LINK
01	QQTRK			HANDLING FIRST CHAIN LINK
92	SENSB	24		SENSE INFORMATION

DIOSECT

DIOSECT

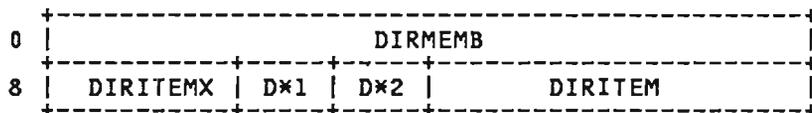
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
B8	DOUBLE	8		(SCRATCH-AREA, FOR CVD USE ETC.)
KEEP THE FOLLOWING IN ORDER:				
C0	XRSAVE	4		REGISTERS 0-14 SAVED HERE FOR RDTK-WRTK
FF	ERRCODE	1	A*7	ERROR-CODE (IN R15 AT EXIT)
KEEP THE FOLLOWING TWO IN ORDER:				
100	FREERO	4		NUMBER OF DOUBLEWORDS OF FREE STORAGE (IF ANY)
104	DIOFREE	4		ADDRESS OF FREE STORAGE FOR BUFFER OR CCW'S
108	SAVEADT	4		HANDY PLACE FOR AN ADT ADDRESS
118	DIAGRET	1	A*8	CP'S DIAGNOSE RETURN CODE IF NON-ZERO
119	IOCOMM	1	A*9	SET TO READ (06) OR WRITE (05)
11A	LASTREC	1	A*10	NUMBER (1-14) OF THE LAST RECORD PROCESS
120	DIOCCW01	8		CCW BUILD AREA FOR LONG OPERATIONS

CROSS REFERENCE (Name Disp Value)

CC	0120	40	FBACL1	0080	..	IOOLD	0000	..	SECTNUM	0057	..
CD	0120	80	FBACL1B0	0084	..	LASTCYL	0088	..	SEEK	0120	07
DEVTyp	0090	..	FBACL1NB	0082	..	LASTHED	008C	..	SEEKADR	0050	..
DIAGNUM	0091	18	FBADEF	0120	63	LASTREC	011A	..	SENSB	0092	..
DIAGRET	0118	..	FBADWDT	0120	C0	NOP	0120	03	SENSE	0120	04
DIOCCW01	0120	..	FBADWIN	0120	40	PCIF	0120	08	SETSEC	0120	23
DIOCSW	0008	..	FBAIPL	0120	02	PWAIT	0010	..	SILI	0120	20
DIOFLAG	0091	..	FBALOC	0120	43	QQDSK1	0024	..	SKIP	0120	10
DIOFREE	0104	..	FBALRDT	0120	06	QQDSK2	0024	26	TIC	0120	08
DOUBLE	00B8	..	FBALWDT	0120	01	QQTRK	0091	01	TOOBIG	0091	04
ERRCODE	00FF	..	FBARD	0120	42	RDCONS	0120	0A	WRDATA	0120	05
FBACD1	0070	..	FBAWR	0120	41	RDDATA	0120	06	WRITE	0120	01
FBACD1FB	0078	..	FREERO	0100	..	READ	0120	02	WRITE1	0120	09
FBACD1LB	007C	..	IDA	0120	04	SAVEADT	0108	..	WRTKF	0091	02
FBACD1M0	0074	..	IOCOMM	0119	..	SEARCH	0120	31	XRSAVE	00C0	..

DIRSECT: CMS PDS DIRECTORY ENTRY

DIRSECT describes the fields of a CMS PDS directory entry. DIRSECT is invoked by the LIB macro.



Size

DIRECTORY ENTRY LENGTH IN BYTES (DIRENTSZ) 10

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DIRMEMB	8		MEMBER NAME
8	DIRITEMX	2		SCP 2 BYTE START ITEM NUMBER
A	DIRFLG1	1	D*1	FLAG BYTE 1
B	DIRFLG2	1	D*2	FLAG BYTE 2
Bits defined in DIRFLG2				
80	DIRNA			NOT AN ALIAS
C	DIRITEM	4		STARTING ITEM NUMBER OF MEMBER
Bits defined in DIRITEM				
10	DIRNEXT			

CROSS REFERENCE (Name Disp Value)

DIRENTSZ	....	10	DIRFLG2	000B ..	DIRITEMX	0008 ..	DIRNA	000B 80
DIRFLG1	000A ..		DIRITEM	000C ..	DIRMEMB	0000 ..	DIRNEXT	000C 10

DMSCCB: COMMAND CONTROL BLOCK

DMSCCB describes all fields of a VSE command control block (CCB). This DSECT is used by DMSXCP to map the CCB specified by a user for an SVC 0 (EXCP). DMSCCB passes the address of CCB to DMSXCP. DMSCCB is invoked via the DMSCCB macro.

0	CCBCNT	A*1	A*2	A*3	A*4	A*5	A*6
8	A*7	CCBCCW		A*8	CCBCSW		
10	CCBLDATB			CCBLCCWB			
18				A*9	CCBFSCCW		
20	CCBRDCCW			CCBWTCCW			
28	CCBLWCCW						
30							
38	CCBNCCB						

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	CCBST			START CCB
0	CCBD			COMMAND CONTROL BLOCK
0	CCBLEN	16		MAP OF THE DOS CCB
0	CCBCNT	2		RESIDUAL COUNT
2	CCBERMAP	4		4 BYTES USED TO CHECK ERRORS
2	CCBCOM1	1	A*1	COMMUNICATIONS BYTE NUMBER 1
Bits defined in CCBCOM1				
80	CCBWAIT			TRAFFIC BIT(SET AT CE)
40	CCBE0F			END-OF-FILE
20	CCBIOERR			UNRECOVERABLE I/O ERROR
10	CCBERROK			ACCEPT UNRECOVERABLE ERROR
08	CCBRDC			RETURN DATA CHECKS
04	CCBPDE			POST AT DEVICE END
02	CCBDCV			RETURN DATA CHECK RD/CHK
01	CCBUERR			USER ERROR ROUTINE
3	CCBCOM2	1	A*2	COMMUNICATIONS BYTE NUMBER 2

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

Bits defined in CCBCOM2

80	CCBDCCNT			DATA CHECK IN COUNT AREA
40	CCBTRKOV			TRACK OVERRUN
20	CCBEOC			END-OF-CYLINDER
10	CCBDC			DATA CHECK
08	CCBNOREC			NO-RECORD-FOUND
04	CCBRETRY			RETRY NO RECORD FOUND
02	CCBVER			VERIFY ERROR
01	CCBCC			COMMAND CHAIN(RETRY)

4	CCBCSW1	1	A*3	CSW STATUS BIT NUMBER 1
---	---------	---	-----	-------------------------

Bits defined in CCBCSW1

80	CCBATTN			ATTENTION
40	CCBSTMOD			STATUS MODIFIER
20	CCBCUE			CONTROL UNIT END
10	CCBBUSY			BUSY
08	CCBCE			CHANNEL END
04	CCBDE			DEVICE END
02	CCBUC			UNIT CHECK
01	CCBUE			UNIT EXCEPTION

5	CCBCSW2	1	A*4	CSW STATUS BIT NUMBER 2
---	---------	---	-----	-------------------------

Bits defined in CCBCSW2

80	CCBPCI			PROGRAM-CONTROLLED INTERRUPT
40	CCBILEN			INCORRECT LENGTH
20	CCBPROGM			PROGRAM CHECK
10	CCBPROT			PROTECTION CHECK
08	CCBCHAND			CHANNEL DATA CHECK
04	CCBCHANC			CHANNEL CONTROL CHECK
02	CCBICtrl			INTERFACE CONTROL CHECK
01	CCBCHAIN			CHAINING CHECK

6	CCBSYMU	2		SYMBOLIC UNIT(SYSUN)
---	---------	---	--	----------------------

6	CCBSUCLS	1	A*5	U - LUB CLASS
---	----------	---	-----	---------------

7	CCBSUNUM	1	A*6	N - LUB NUMBER WITHIN CLASS
---	----------	---	-----	-----------------------------

8	CCBLIOBS	1	A*7	RESERVED FOR LIOBS
---	----------	---	-----	--------------------

9	CCBCCW	3		POINTER TO START OF CHANNEL PROGRAM
---	--------	---	--	-------------------------------------

C	CCBCOM3	1	A*8	COMMUNICATION BYTE NUMBER 3
---	---------	---	-----	-----------------------------

Bits defined in CCBCOM3

40	CCBAPEND			APPENDAGE EXIT AT INTERRUPT
D	CCBCSW	3		POINT TO CSW OR POINT APPENDAGE RETURN
10	CCBLDATB	4		ADDRESS OF LAST DATA BLOCK
14	CCBLCCWB	4		ADDRESS OF LAST CCW BLOCK

Disp Name Len Key Description

1C CCBUFLGS 1 A*9 I/O MANAGER CCB FLAGS

Bits defined in CCBUFLGS

80	CCBUEAIC		ERROR ANALYSIS IN CONTROL
40	CCBUEAC		ERROR ANALYSIS COMPLETE
20	CCBURDCW		READ CCW ACTIVE
10	CCBRPS		RPS CHAN PGM CANDIDATE
1D	CCBFSCCW	3	SAVE AREA FOR FIRST CCW ADDRESS
20	CCBRDCCW	4	ADDRESS OF FIRST READ CCW
24	CCBWTCCW	4	ADDRESS OF FIRST WRITE CCW
28	CCBLWCCW	4	ADDRESS OF THE LAST WRITE CCW

THIS CHAIN FIELD MUST HAVE SAME DISPLACEMENT AS FCBCHAIN IN FCDB AND BKPFSTBK IN BKPHD.

38 CCBNCCB 4 ADDRESS OF NEXT CCB BLOCK

CROSS REFERENCE (Name Disp Value)

CCBAPEND	000C	40	CCBCUE	0004	20	CCBLDATB	0010	..	CCBSTMOD	0004	40
CCBATTN	0004	80	CCBD	0000	00	CCBLEN	0000	..	CCBSUCLS	0006	..
CCBBUSY	0004	10	CCBDC	0003	10	CCBLIOBS	0008	..	CCBSUNUM	0007	..
CCBCC	0003	01	CCBDCCNT	0003	80	CCBLWCCW	0028	..	CCBSYMU	0006	..
CCBCCW	0009	..	CCBDCV	0002	02	CCBNCCB	0038	..	CCBTRKOV	0003	40
CCBCE	0004	08	CCBDE	0004	04	CCBNOREC	0003	08	CCBUC	0004	02
CCBCHAIN	0005	01	CCBEOC	0003	20	CCBPCI	0005	80	CCBUE	0004	01
CCBCHANC	0005	04	CCBEOF	0002	40	CCBPDE	0002	04	CCBUEAC	001C	40
CCBCHAND	0005	08	CCBERMAP	0002	..	CCBPROGM	0005	20	CCBUEAIC	001C	80
CCBCNT	0000	..	CCBERROK	0002	10	CCBPROT	0005	10	CCBUERR	0002	01
CCBCOM1	0002	..	CCBFSCCW	001D	..	CCBRDC	0002	08	CCBUFLGS	001C	..
CCBCOM2	0003	..	CCBICTRL	0005	02	CCBRDCCW	0020	..	CCBURDCW	001C	20
CCBCOM3	000C	..	CCBILEN	0005	40	CCBRETRY	0003	04	CCBVER	0003	02
CCBCSW	000D	..	CCBIQERR	0002	20	CCBRPS	001C	10	CCBWAIT	0002	80
CCBCSW1	0004	..	CCBLCCWB	0014	..	CCBST	0000	00	CCBWTCCW	0024	..
CCBCSW2	0005	..									

DOSSECT: VSE SIMULATION CONTROL BLOCK

DOSSECT simulates the CMS file control block (FCB) in the CMS/DOS environment. DOSSECT is invoked by the DOSCB macro.

The DOS simulation control blocks are chained together. The DOSFIRST field in NUCON points to the first DOSCB in the chain, or if no chain exists, contains zero.

0	DOSNEXT				DOSCBID			
8	DOSDD							
10	DOSOP							
18	DOSDSNAM							
20	DOSDSTYP							
28	DOSDSMD		////////				DOSBUFF	
30	DOSBYTE				D*1	D*2	////////	
38	DOSREAD				DOSITEM			
40	DOSCOUT				D*3	D*4	DOSBLKSZ	
48	DOSWORK							
50	D*5	D*6	D*7	D*8	DOSOSFST			
58	DOSOSDSN				DOSVOLTB			
60	DOSEXTTB				DOSSENSE		D*9	D*10
68	DOSBUFSP				DOSUCNAM			
70	DOSUCNAM (cont.)							
= DOSSAVE =								
88					D*11	D*12	////////	
90	DOSDTF				DOSFIAD			
98	DOSCC		DOSHH		DOSR	////////		
A0	DOSEND							

Size

DOSSECT SIZE IN DOUBLEWORDS (DOSENSIZ) 14

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DOSINIT	1		DOSCB FLAG BYTE
Bits defined in DOSINIT				
40	DOSOS			CREATED BY 'OS' USER
20	DOSDOS			DEFINED FOR NON-CMS DISK
10	DOSCMS			DEFINED FOR CMS DISK
08	DOSDDCAT			USER CATALOG DATASET
04	DOSPERM			PERMANENT CONTROL BLOCK
02	DOSJCAT			SEARCH VSAM JOB CATALOG
01	DOSUCAT			SEARCH VSAM USER CATALOG
0	DOSNEXT	4		AL3 (NEXT DOSCB)
4	DOSCBID	4		'DLBL' TO DISTINGUISH FROM CMSCB
8	DOSDD	8		DATA DEFINITION NAME
10	DOSOP	8		CMS OPERATION
18	DOSTAPID	1		TAPE IDENTIFICATION
18	DOSDSNAM	8		DATASET NAME
20	DOSDSTYP	8		DATASET TYPE
28	DOSDSMD	2		DATASET MODE
2A		2		RESERVED
2C	DOSBUFF	4		A (INPUT/OUTPUT BUFFER)
30	DOSBYTE	4		SIZE OF BUFFER (DATA COUNT)
34	DOSFORM	1	D*1	FILE FORMAT: FIXED/VARIABLE
35	DOSEPL	1	D*2	EXTENDED PLIST
36		2		RESERVED
38	DOSREAD	4		N'BYTES ACTUALLY READ
3C	DOSITEM	4		ITEM (RECORD) NUMBER
40	DOSCOUT	4		RECORDS PER CMS PHYSICAL BLOCK
44	DOSDEV	1	D*3	DEVICE TYPE CODE
Bits defined in DOSDEV				
14	DC:DSK			DISK
00	DJSUM			DUMMY DEVICE
45	DOSTAPMD	1	D*4	TAPE MODESET SAVE
46	DOSBLKSZ	2		BLOCK SIZE
48	DOSWORK	8		WORK AREA
50	DOSYSXXX	2		LOGICAL UNIT FOR CMS/DOS
50	DOSSYS	1	D*5	SYS/PROG UNIT: X'00' =SYS, X'01' =PROG

DOSSECT

DOSSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
51	DOSXXX	1	D*6	NUMBER FROM 000-255 ASSOC WITH UNIT
52	DOSEXT	1	D*7	NUMBER DOS EXTENTS LEFT TO PROCESS
53	DOSEXTCT	1	D*8	CURRENT DOS EXTENT
54	DOSOSFST	4		POINTER TO OS FST
58	DOSOSDSN	4		POINTER TO OS DSNAME BLOCK
5C	DOSVOLTB	4		A(VOLUME ID TABLE)-VSAM MULTIVOL DATASET
60	DOSEXTTB	4		A(EXTENT TABLE) FOR VSAM DATASPACE
64	DOSSENSE	2		I/O SENSE DATA
66	DOSVOLNO	1	D*9	NUMBER VOLUMES (ENTRIES IN DOSVOLTB)
67	DOSEXTNO	1	D*10	NUMBER EXTENTS (ENTRIES IN DOSEXTTB)
68	DOSBUFSP	4		SIZE OF VSAM I/O BUFFER(S)
6C	DOSUCNAM	8		VSAM USER CATALOG DDNAME
74	DOSSAVE	24		TEMPORARY SAVE FOR RE-ENTRANT CODE
8C	DOSEXTCX	1	D*11	CURRENT EXTENT (USED BY DMSXCP)
8D	DOSTYPE	1	D*12	DATASET TYPE (SAM=S, VSAM=A)
90	DOSDTF	4		POINTER TO DTF
94	DOSFIAD	4		POINTER TO F1 LABEL
Bits defined in DOSFIAD				
98	DOSCCHHR			DOS CCHHR
98	DOSCC	2		DOS CC - CYLINDER
9A	DOSHH	2		DOS HH - TRACK
9C	DOSR	1		DOS R - RECORD
9D		3		RESERVED
A0	DOSEND	8		END ADDRESS OF THIS BLOCK

CROSS REFERENCE (Name Disp Value)

DOSBLKSZ	0046	..	DOSDSMD	0028	..	DOSFIAD	0094	..	DOSSAVE	0074	..
DOSBUFF	002C	..	DOSDSNAM	0018	..	DOSHH	009A	..	DOSSENSE	0064	..
DOSBUFSP	0068	..	DOSDSTYP	0020	..	DOSINIT	0000	..	DOSSYS	0050	..
DOSBYTE	0030	..	DOSDTF	0090	..	DOSITEM	003C	..	DOSTAPID	0018	..
DOSCBID	0004	..	DOSDUM	0044	00	DOSJCAT	0000	02	DOSTAPMD	0045	..
DOSCC	0098	..	DOSEND	00A0	..	DOSNEXT	0000	..	DOSTYPE	008D	..
DOSCCCHR	0094	98	DOSENSIZ	....	14	DOSOP	0010	..	DOSUCAT	0000	01
DOSCMS	0000	10	DOSEPL	0035	..	DOSOS	0000	40	DOSUCNAM	006C	..
DOSCOU	0040	..	DOSEXT	0052	..	DOSOSDSN	0058	..	DOSVOLNO	0066	..
DOSDD	0008	..	DOEXTCT	0053	..	DOSOSFST	0054	..	DOSVOLT	005C	..
DOSDDCAT	0000	08	DOEXTCX	008C	..	DOSPERM	0000	04	DOSWORK	0048	..
DOSDEV	0044	..	DOEXTNO	0067	..	DOSR	009C	..	DOSXXX	0051	..
DOSDOS	0000	20	DOEXTTB	0060	..	DOSREAD	0038	..	DOSYSXXX	0050	..
DOSDSK	0044	14	DOSFORM	0034	..						

DTFSD: OPEN DTF MAP

DTFSD describes fields within the DTF for sequential disk files and is used in the CMS/DOS environment. DTFSD is invoked by the DTFSD macro.

0	DTFCOUNT		DTFTRANS		DTFCSW		D*1	DTFLU
8	D*2	DTFCCW		D*3	D*4			
10	D*5	DTFLGMOD		D*6	D*7	DTFNAME		
18	DTFNAME (cont.)				D*8	D*9	D*10	
20	D*11	D*12	D*13	D*14	D*15	D*16	D*17	D*18
28	D*19	D*20	D*21	D*22	D*23	DTFIOA1		
30	DTFULADR			DTFLHLIM		DTFULPBN		
38	(cont.)	D*24	D*25	D*26	D*27	D*28	D*29	
40	D*30	D*31	DTFRECSZ		D*32	DTFWERAD		
48	D*33	D*34	DTFBLKSZ		D*35	D*36	D*37	
50	D*38	D*39	DTFCPDTL		D*40	D*41	D*42	D*43
58	DTFAVAIL			DTFLOGRS				
60	DTFIEND			D*44	DTFDERAD			
68	D*45	D*46						
70	D*47							
A0	D*48	DTFFLEOX		D*49	DTFULEOX			
A8	D*50			DTFVLEOX				
B0	DTFVIRLN			DTFVUPBN				
B8	D*51	DTFCFEOX		DTFVULBL		D*52		
C0	D*52 (continued)							
C8	DTFVORLN			DTFVOSRR				
D0	D*53	D*54		D*55				
D8	DTFVURLN			D*56	D*57	D*58	D*59	
E0	D*60			DTFVUCI1				
E8	DTFVULB1	D*61		D*62	D*63	D*64	D*65	

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DTFCCB			CCB
0	DTFCOUNT	2		CCB-COUNT
2	DTFTRANS	2		CCB-TRANSMISSION INFORMATION
Bits defined in DTFTRANS				
80	DTFTRAF			CCB-TRAFFIC BIT
80	DTFDCH1			DASD DATA CHECK
40	DTFE0F			CCB-END OF FILE
20	DTFUNRC			CCB-UNRECOVERED I/O ERROR
10	DTFACPT			CCB-ACCEPT UNRECOVERED ERROR
10	DTFDCH2			DASD DATA CHECK
04	DTFNRCF			NO RECORD FOUND FOR DASD
02	DTFVERR			DASD VERIFY ERROR
4	DTFCSW	2		CCB-CSW STATUS BITS
Bits defined in DTFCSW				
40	DTFINCL			INCORRECT LENGTH SPECIFICATION
06	DTFTYPLU			CCB-TYPE/LOGICAL UNIT
01	DTFUE			CCB-UNIT EXCEPTION
6	DTFTYPC	1 D*1		CCB-TYPE CODE
Bits defined in DTFTYPC				
01	DTFPLU			1=PROG LOG UNIT
7	DTFLU	1		CCB-LOGICAL UNIT
8		1 D*2		WORD WITH CCW POINTER
9	DTFCCW	3		CCB-CCW ADDRESS
| C		1 D*3		RESERVED FOR PIOCS
| D		3 D*4		CCB-CCW ADDRESS IN CSW
| 10	DTFLGMDA			WORD WITH LOGIC MODULE ADDRESS
10	DTFFLG1	1 D*5		DTF FLAGS
Bits defined in DTFFLG1				
80	DTFDQEXT			DEQUE OLD VOL XTNTS
80	DTFDAULI			1=DA PH TRL LABELS 0=DA PH HDR LABELS
40	DTFSPECL			SPECIAL SYSTEM OPEN
20	DTFIGNOP			COBOL IGN OPTION
10	DTFBLHLD			BLOCK HOLD OPTION SPECIFIED
04	DTFTRLBL			PROC TRAILER LBL-CLOSE
02	DTFSPAND			SPANNED PROCESSING
01	DTFEOEXT			COBOL END-OF-EXTENT
11	DTFLGMOD	3		LOGIC MOD ADDRESS
14	DTFTYPE	1 D*6		DTF TYPE

DTFSD

DTFSD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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15	DTFFLG2	1	D*7	DTF FLAGS
----	---------	---	-----	-----------

Bits defined in DTFFLG2

80	DTFDAOUT			1=DA OUTPUT, 0=DA INPUT
40	DTFBLKFL			BLOCKED FILE
40	DTFWKDLT			DELETE WORKFILE
40	DTFDAVER			DTFDA VERIFY OPTION
20	DTFWRKFL			WORKFILE
20	DTFDASCH			DTFDA SRCHM OPTION
10	DTFWORKA			WORKA = YES SPECIFIED
10	DTFWKPTO			1 = POINT OPEN
10	DTFDAAFT			DTFDA AFTER = YES SPECIFIED
08	DTFVER2			VERSION 2 DTF
04	DTFOPEN			1 = OPEN, 0 = CLOSED
04	DTFDAUND			DTFDA UNDEFINED FORMAT
02	DTFINPUT			1 = INPUT, 0 = OUTPUT
01	DTFUSRLB			USER LABELS SPECIFIED

16	DTFNAME	7		DTF NAME
----	---------	---	--	----------

1D	DTFDEVTP	1	D*8	DEVICE TYPE
----	----------	---	-----	-------------

1E	DTFF1ADD			BCCHHR FMT1 ADDRESS
----	----------	--	--	---------------------

1E	DTFWTKCP			WORKFILE TRCK CAPACITY
----	----------	--	--	------------------------

1E	DTFDAFSU			DTFDA 1ST SYM UNIT
----	----------	--	--	--------------------

1E	DTFPHEOF			EOF INDICATOR FOR DTFPH
----	----------	--	--	-------------------------

1E	DTFWKTKC	1	D*9	WORKFILE FIRST TRACK CAPACITY BYTE
----	----------	---	-----	------------------------------------

1F		1	D*10	UNUSED
----	--	---	------	--------

20	DTFF1ADR			FMT1 LABEL ADDRESS IN VTOC
----	----------	--	--	----------------------------

20		1	D*11	UNUSED
----	--	---	------	--------

Bits defined in &l

40	DTFDARPS			DTFDA INDICATES THAT DEVICE SUPPORTS RPS
20	DTFPHMV3			VERSION 3 INDICATOR DTFPH MOUNTED = ALL
01	DTFDAXTN			DTFDA INDICATES THAT DTF HAS BEEN EXTENDED FOR THE REENTRANT DAM LOGICMODS

21	DTFDAULR			ADDRESS OF USER LABEL ROUTINE
----	----------	--	--	-------------------------------

21	DTFIDXSQ	1	D*12	EXTENT SEQUENTIAL NUMBER IN D/X
----	----------	---	------	---------------------------------

22	DTFIF1SQ	1	D*13	EXTENT SEQUENTIAL NUMBER IN F1
----	----------	---	------	--------------------------------

23	DTFFMT1R	1	D*14	FMT1 R OF CKD CCHHR
----	----------	---	------	---------------------

24	DTFDAXXR			ADDRESS OF DA XTNT EXIT INFORMATION RETURNED
----	----------	--	--	--

24	DTFVOLNO			VOLUME SEQUENCE NUMBER
----	----------	--	--	------------------------

24	DTFWKSEQ	1	D*15	EXTNT SEQUENTIAL NO-WKFILE
----	----------	---	------	----------------------------

25	DTFWKOCF	1	D*16	WORKFILE OPN COM FIELD
----	----------	---	------	------------------------

Bits defined in DTFWKOCF

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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40	DTFWKRPS			INDICATOR DEVICE SUPPORTS RPS
20	DTFWKV3			VERSION 3 INDICATOR WORKFILE
10	DTFWKXTF			INDIC ALL EXTENTS PROCESSED
08	DTFWKNWV			EXTENT ON NEW VOLUME
04	DTFWKFID			OK FOR = FILE ID
02	DTFWKXTD			AN EXTENT WAS OPENED

26	DTFFLG3	1	D*17	DTF FLAGS
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Bits defined in DTFFLG3

80	DTFNOEXT			INPUT - NO MORE XTNTS OUTPUT-NO MORE XTNTS
40	DTFUPDAT			INPUT - UPDATE FILE
40	DTFOXTCL			OUTPUT - XTNT NEEDED AT CLOSE TIME
20	DTFPRTL			INPUT - PROCESS TRL LABEL
				OUTPUT - PROCESS TRL LABEL
10	DTFUEOF			INPUT - EXIT TO USERS EOF ROUTINE
10	DTFOHDRL			OUTPUT - PROCESS HDR LABEL
08	DTFNEWVL			INPUT - EXTENT ON NEW VOLUME
				OUTPUT - EXTENT ON NEW VOLUME
04	DTFIRTCL			INPUT - RETURN TO CLOSE
04	DTF1052			OUTPUT - XTNT VIA CONSOLE
02	DTFIHDRL			INPUT - PROCESS HDR LABEL
02	DTFTLCL			OUTPUT - PROCESS TRAILER LABELS AT CLOSE
01	DTFDUMEX			INPUT - DUMMY EXTENTS
				OUTPUT - UNREF FOR FBA

27	DTFODXSQ	1	D*18	DTF FLAGS-IF OUTPUT-SEQUENTIAL NUMBER OF CURRENT EXTENT OPENED
----	----------	---	------	--

Bits defined in DTFODXSQ

80	DTFEXBYP			INPUT - XTNT BYPASSED BEFORE FILE OPENED
40	DTFFE0V			INPUT - FEOV ISSUED
20	DTFLSTVL			INPUT - LAST VOLUME

| 28	DTFFLNML			FILENAME.L
| 28	DTFSNLEO			SEQUENTIAL NUMBER OF LAST EXTENT OPENED
| 28	DTFDARTA	1	D*19	DISPLACEMENT TO DTFDA RELATIVE TRACK ADDRESS TABLE
29	DTFULRTN			ADDRESS OF USER LABEL RETURNED
| 29		1	D*20	UNREFERENCED
| 2A	DTFCPDIF	1	D*21	CP DI FLAGS

Bits defined in DTFCPDIF

40	DTFRPSXC			RPS CP/DI EXTENSION CREATED
01	DTFRPSXS			RPS CP/DI SUPPORTED

| 2B		1	D*22	UNREFERENCED
----	--	---	------	--------------

2C	DTFFLG5	1	D*23	DTF FLAGS
----	---------	---	------	-----------

Bits defined in DTFFLG5

80	DTFCPIN			INPUT FILE FOR DTFCP
40	DTFSDRPS			INDIC DEVICE SUPPORTS RPS
20	DTFCPFP			FIRST PASS INDICATOR FOR DTF CP
20	DTFPHSV3			VERSION 3 INDICATOR PH SEQUENTIAL
10	DTFCP2I			TWO IO AREAS FOR DTFCP
10	DTFVAROU			VARIABLE OUTPUT FILE FOR DTFSD FEOVD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
08	DTFPHSMO			DTFPH OPEN BY SPACE MANAGEMENT
04	DTFCPLP			SYSLST OR SYSPCH FOR DTFCP
02	DTFGVIOA			IOAREA(S) GETVISED
2D	DTFIOA1	3		ADDRESS OF IO AREA 1, AND IO AREA 2 FOR DTFCP
30	DTFULADR	4		VTOC ADDRESS OF USER LABELS
Bits defined in DTFULADR				
20	DTFDIV3			VERSION 3 INDICATOR FOR DTFCP & DTFDI
34	DTFLHLIM	2		ZEROS FOR FBA
36	DTFULPBN	4		EXTENT UL PBN
3A	DTFSKADR			ZEROS FOR FBA
3A	DTFWKSKA	1	D*24	WORKFILE SEEK ADDRESS
3B		1	D*25	UNREFERENCED
3C	DTFLPBNR			PHYSICAL POSITION OF CURRENT LOGICAL BLOCK
3C	DTFLLPBN			EXTENT LL PBN
3C	DTFWKRNO	1	D*26	RECORD NUMBER FOR WORKFILE
3D	DTFWKLMS	1	D*27	WORKFILE LOGIC MODS SW
Bits defined in DTFWKLMS				
80	DTFWKWT1			FIRST WRITE-WRKFL
40	DTFWRUPD			WRITE UPDATE INDICATOR
20	DTFWPNTS			POINTS INDICATOR
02	DTFWXTCL			EXTENT NEEDED AT CLOSE
3E	DTFWBKSZ			MAXIMUM BLOCK SIZE
3E	DTFSRCH1	1	D*28	1ST H OF CCHH CKD SEARCH ARGUMENT
3F		1	D*29	UNREFERENCED
40	DTFRECN0	1	D*30	RECORD NUMBER
41	DTFE0FAD	1	D*31	INPUT - EOF ADDRESS
42	DTFRECSZ	2		BUCKET TO SAVE RECSIZE REGISTER FOR OUTPUT
44	DTFCTRLF	1	D*32	CONTROL FIELD
Bits defined in DTFCTRLF				
80	DTFWEADR			UNREFERENCED
40	DTFWEIGN			ERROPT = IGNORE - WORK FILE
20	DTFWFUNB			RECFORM = FIXNUB - WORK FILE
10	DTFWVYES			VERIFY = YES WORKFILE
08	DTFWESKP			ERROPT = SKIP WORKFILE
45	DTFWERAD	3		USER ERROR ROUTINE ADDRESS
48	DTFRECKT	1	D*33	UNREFERENCED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 49	DTFFLG6	1	D*34	DTF FLAGS
	Bits defined in DTFFLG6			
	80	DTFENTB4		NOT FIRST ENTRY
	20	DTFORTCL		OUTPUT-EXTENT NEEDED AT CLOSE
	20	DTFPBLK		LOGIC MODS - PARTIAL BLOCK TO BE WRITTEN
	10	DTFSKIPR		FIXED OUTPUT - SKIP THIS RECORD
	10	DTFTRUNR		FIXED INPUT - TRUNCATE REQUEST
	08	DTFUEOX		UPDATE-END OF EXTENT
	08	DTFNXTCL		NEW XTNT REQUIRED BY CLOSE
	04	DTFTRNSP		TRUNC NOT SPECIFIED
	04	DTFBFLO		VARIABLE - BLOCK OVERFLOW
	02	DTFPUTTD		INPUT - PUT UPDATE OUTSTANDING
	01	DTFCIOFL		VARIABLE - CI OVERFLOW
	4A	DTFBLKSZ	2	BLKSIZE-1 SD DATAFILE
	4C	DTFLLADR		CCHHR OF LOW LIMIT
| 4C	DTFLOLIM			LL PBN
| 4C		2	D*35	UNREFERENCED
	4E	DTFLOLHI	1	D*36 1ST H OF CCHH CKD LOWLIM FIELD
| 4F		1	D*37	UNREFERENCED
	50	DTFRCNUM	1	D*38 RECORD NUMBER
| 51	DTFWLRRT			INPUT-ADDRESS OF USER WLR RETURNED
	51	DTFFLG7	1	D*39 OUTPUT-FLAG BYTE
	Bits defined in DTFFLG7			
	80	DTFCFE0V		CONSECUTIVE FEOVDS DETECTED
	40	DTFFE0VD		OUTPUT - FEOVD
| 52	DTFTKCAP			OUTPUT - TRACK CAPACITY
	52	DTFCPDTL	2	DATA LENGTH FOR DTFCP
| 54	DTFIOREG			LOAD I/O REGISTER INSTRUCTION
| 54		1	D*40	MNEMONIC OF INSTRUCTION (47 OR 58)
	55	DTFIORGS	1	D*41 RR FIELD OR INSTRUCTION
| 56		1	D*42	UNUSED
| 57	DTFIOADS	1	D*43	RELATIVE DISPLACEMENT IN DTF OF IOAREA ADDRESS
	58	DTFAVAIL	4	ADDRESS OF AVAILABLE IO AREA
	5C	DTFLOGRS	4	LOGICAL RECORD SIZE
	60	DTFIEND	4	INPUT-AREA FOR SAVING RECORD LENGHT - OUTPUT ADDR OF END OF IOAREA
| 64	DTFLGIND	1	D*44	LOGICAL INDICATORS
	Bits defined in DTFLGIND			

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
80	DTFDEADR			ERROPT = ADDRESS DATAFILE
40	DTFDEIGN			ERROPT = IGNORE DATA FILE
20	DTFDESKP			ERROPT = SKIP DATAFILE
10	DTFDVYES			VERIFY = YES SPECIFIED
08	DTF2IOAS			2 IOAREAS SPECIFIED
04	DTFOUNDL			OUTPUT - UNDEFINED LENGTH RECORDS
04	DTFWLRER			INPUT - USER HAS WRONG LENGTH ERROR ROUTINE
02	DTFFXVUL			1 = FIXED LENGTH RECORDS, 0=VAR OR UNDEFINED LENGTH RECORD
01	DTFCNTRL			CONTROL PARM SPECIFIED
65	DTFDERAD	3		USER ERROR ROUTINE ADDRESS - DATAFILE
68	DTFSKCCW			CKD SEEK CCW
68	DTFDFSEK	1	D*45	CKD DATA FILE SEEK
69		7	D*46	UNREFERENCED
70		48	D*47	UNUSED 112 - 159
A0	DTFVOSPR			SPACE REMAINING IN BUFFER
A0		1	D*48	UNREFERENCED
A1	DTFFLEOX	3		EOX RETURNED ADDRESS FOR OUTPUT FIXED LENGTH RECORDS USED BY COBOL
A4	DTFEOXUL	1	D*49	LABEL NEEDED FOR OVERLAY
A5	DTFULEOX	3		EOX RETURNED ADDRESS FOR OUTPUT UNDEFINED LENGTH RECORDS USED BY COBOL
A8		5	D*50	UNREFERENCED
AD	DTFVLEOX	3		EOX RETURNED ADDRESS FOR OUTPUT VARIABLE LENGTH RECORDS USED BY COBOL
B0	DTFVIRLN	4		VARIABLE INPUT - RECORD LENGTH
B4	DTFVILRR			VARIABLE INPUT - INSTRUCTION TO LOAD RECSIZE REG
B4	DTFVUPBN	4		VARIABLE UPDATE - PBN OF HELD CI
B8	DTFVUNIL			VARIABLE UPDATE - NOTE ID LAST SEGMENT
B8	DTFVUCIL			VARIABLE UPDATE - RELATIVE CI OF LAST SEGMENT
B8		1	D*51	UNREFERENCED
B9	DTFCFEOX	3		EOX RETURNED ADDRESS FOR OUTPUT FIXED LENGTH RECORDS WITH CONTROL SPECIFIED USED BY COBOL
BC	DTFVULBL	2		VARIABLE UPDATE - LOGICAL BLOCK NUMBER OF LAST SEGMENT
BE		10	D*52	UNREFERENCED
C8	DTFVORLN	4		VARIABLE OUTPUT - RECORD LENGTH
CC	DTFVOSRR	4		VARIABLE OUTPUT - INSTRUCTION TO STORE RECSIZE REG
D0	DTFVOFLG	1	D*53	VAR OUTPUT - CONTROL FLAGS

Bits defined in DTFVOFLG

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
20	DTFVOSLS			LEADING SEGMENT
10	DTFVOSBT			OUTPUT BLOCK TRUNCATED
08	DTFVOSET			END OF TRACK
04	DTFVOSTT			TRACK TRUNCATED
02	DTFVOSSA			SAVE DISK ADDRESS
01	DTFVOSMS			MULTI-SEGMENT RECORD
| D1		3	D*54	UNREFERENCED
| D4	DTFVOCNT			VARIABLE OUTPUT - COUNT SAVE AREA
| D4		4	D*55	UNREFERENCED
D8	DTFVURLN	4		VARIABLE UPDATE - RECORD LENGTH
| DC	DTFVULRR			VARIABLE UPDATE - INSTRUCTION TO LOAD RECSIZE REG
DC	DTFVOXST			VARIABLE OUTPUT - EXTENT STATUS SAVE AREA
| DC	DTFVOXFL	1	D*56	VARIABLE OUTPUT - EXTENT CHANGE FLAGS
Bits defined in DTFVOXFL				
10	DTFV01VL			FIRST VOLUME OF FILE
08	DTFVOROK			REREAD COMPLETED OK
04	DTFVORRD			REREAD IN PROGRESS
01	DTFVOPEN			OUTPUT OPEN IN PROGRESS
DD	DTFVOXSN	1	D*57	VARIABLE OUTPUT - EXTENT SEQUENTIAL NUMBER OF NETED RECORDS
| DE	DTFVOXS1	1	D*58	VARIABLE OUTPUT - EXTENT SEQUENTIAL NUMBER OF 1ST EXTENT ON CURRENT VOLUME
DF	DTFVOXOB	1	D*59	VARIABLE OUTPUT - COPY OF OPEN COM BYTE
Bits defined in DTFVOXOB				
08	DTFVOXNV			NEXT EXTENT ON NEW VOLUME
| E0		4	D*60	UNREFERENCED
| E4	DTFVUNI1			VARIABLE UPDATE - NOTED ID OF 1ST SEGMENT
E4	DTFVUCI1	4		VARIABLE UPDATE - RELATIVE CI OF 1ST SEGMENT
E8	DTFVULB1	2		VARIABLE UPDATE - LOGICAL BLOCK NUMBER OF 1ST SEGMENT
| EA		2	D*61	UNREFERENCED
| EC	DTFVUXST	1		VARIABLE UPDATE - EXTENT STATUS SAVE AREA
| EC	DTFVUXSL	1	D*62	VARIABLE UPDATE - EXTENT SEQUENCE NUMBER OF LAST SEGMENT
| ED	DTFVUXS1	1	D*63	VARIABLE UPDATE - EXTENT SEQUENCE NUMBER OF 1ST SEGMENT
EE	DTFVUXFL	1	D*64	VARIABLE UPDATE - FLAGS
Bits defined in DTFVUXFL				
80	DTFVUXSH			A SPANNED 1ST SEGMENT IS HELD
08	DTFVUXLD			DUMMY EXTENT MODE FOR LAST SEGMENT
04	DTFVUX1D			DUMMY EXTENT MODE FOR FIRST SEGMENT

DTFSD

DTFSD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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EF		1	D*65	UNREFERENCED
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| THESE DECLARES ARE OVERLAYS FOR FIELDS IN DTFSD VARIABLE DATA FILES WHERE BOUNDARY ALIGNMENTS WOULD CAUSE OVERLAP IF THE LABELS WERE INSERTED IN LINE.

A4	DTFVOCIC	2		VARIABLE OUTPUT - REMAINING CI CAPACITY
A8	DTFVOLVB	4		VARIABLE OUTPUT - INSTRUCTION TO LOAD VARBLD REG
| AC		3		UNREFERENCED
| D4	DTFVONID			VARIABLE OUTPUT - NOTE ID
D4	DTFVOCID	4		VARIABLE OUTPUT - RELATIVE CI PART OF NOTE ID
D8	DTFVOLBN	2		VARIABLE OUTPUT - LOGICAL BLOCK NUMBER IN NOTE ID
| 24	DTFDAEXR			ADDRESS OF DA XTNT EXIT INFORMATION RTN
| 24		1		UNREFERENCED
25	DTFDAEER	3		DTFPH MOUNT=ALL XTNT EXIT POINTER

| THIS DECLARE IS AN OVERLAY FOR FIELDS IN DTFSD WORKFILES.

| 28	DTFWKEXT			WORKFILE UL/LL PBN
28	DTFWKRLT	2		RECORD LENGTH
2A	DTFWKLLI	4		INIT EXTNT LL PBN
2E	DTFWKLLC	4		CURRENT EXTNT LL PBN
32	DTFWKULC	4		CURRENT EXTNT UL PBN
| 36		2		UNUSED
| 38	DTFWPBNR			POSITION IN FILE
| 38	DTFWKSRH			SEARCH ADDRESS
38	DTFWPBCC	2		CC FIELD OF SEARCH ADDRESS
3A	DTFWPBHH	2		HH FIELD OF SEARCH ADDRESS
3C	DTFWKSRR	1		RECORD NUMBER OF SEARCH ADDRESS

END OF DTFSD WORKFILE OVERLAY

Bits defined in DTFWKSRR

C6	DTFEOPFH	DTFPH EOF INDICATOR
33	DTFTPDI	DTFDI DTF TYPE INDICATOR
32	DTFTPCP3	DTFCP DISK = YES DTF TYPE INDICATOR
30	DTFTPCP1	DTFCP DISK OMITTED DTF TYPE INDICATOR
23	DTFTPPHM	DTFPH-MNTF = ALL
22	DTFTPDA	DTFDA DTF TYPE INDICATOR
21	DTFTPPH	DTFPH DTF TYPE INDICATOR
20	DTFTPSD	DTFSD DTF TYPE INDICATOR

CKD CONTROL FACTOR OVERLAY

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 44	DTFCTRL			CKD CONTROL FACTOR
44	DTFCTRLC	2		CONTROL FACTOR CC
46	DTFCTRLH	2		CONTROL FACTOR HH
CKD CURRENT SYSFIL DIB ADDRESS OVERLAY				
3A	DTFCDIBA	7		CKD CURRENT DIB ADDRESS BBCCHRR
CKD CP/DI SEEK OVERLAY				
58	DTFCPDIS	1		CKD CP/DI SEEK
WORKFILE LOWER/UPPER HEAD LIMIT OVERLAY				
| 26	DTFWKLMT			
26	DTFWKLLL	1		WORKFILE LOWER HEAD LIMIT
27	DTFWKLUL	1		WORKFILE UPPER HEAD LIMIT
LOWER HEAD LIMIT AND UPPER PBN LIMIT OVERLAY				
34	DTFLOWHL	2		LOWER HEAD LIMIT
36	DTFPBNUL	4		UPPER PBN LIMIT
DTFDA DESCRIPTOR STRING DISPLACEMENT/TRACK CONSTANTS/SIX BASIC CCWS OVERLAY				
| 4E	DTFDAOVY			DTFDA DTF OVERLAY
| 4E	DTFDADSD			DTFDA DESCRIPTOR STRING FIELD
4E	DTFDADRI	1		DISPLACEMENT TO READID STRING
4F	DTFDADRK	1		DISPLACEMENT TO READ KEY STRUCTURE
50	DTFDADWI	1		DISPLACEMENT TO WRITE ID STRUCTURE
51	DTFDADWK	1		DISPLACEMENT TO WRITE KEY ST
52	DTFDADW0	1		DISPLACEMENT TO WRITE RZERO
53	DTFDADWA	1		DISPLACEMENT TO WRITE AFTER
54	DTFDATKC	2		DTFDA TRACK CONSTANT
56	DTFDARIC	2		DTFDA RECORD CONSTANT
| 58		2		FILLER
| 5A	DTFDASUL			USER LABEL SAVE AREA
5A	DTFDASYM	1		SYMBOLIC UNIT
| 5B		1		BIN# (NOT USED)
5C	DTFDAULA	4		USER LABEL DASD ADDRESS
| 60	DTFDACCW			6 BASIC CCWS OVERLAY
66	DTFDAKLN	2		KEY LENGTH FIELD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
68		24		3RD - 5TH BASIC CCW
80		4		UNREFERENCED
84	DTFDACC6	1		FLAG FOR 6TH CCW
85		3		
88		3		UNREFERENCED CCWS
A8		6		UNREFERENCED
AE	DTFDAMRS	2		MAXIMUM RECORD SIZE FIELD

CROSS REFERENCE (Name Disp Value)

DTFACPT	0002	10	DTFDARPS	001E	40	DTFF1ADR	001E	20	DTFPRTL	0026	20
DTFAVAIL	0058	..	DTFDARTA	0028	..	DTFGVIOA	002C	02	DTFPUTTD	0049	02
DTFBFLO	0049	04	DTFDASCH	0015	20	DTFIDXSQ	0021	..	DTFRCNUM	0050	..
DTFBLHLD	0010	10	DTFDASUL	005A	..	DTFIEND	0060	..	DTFRECNO	0040	..
DTFBLKFL	0015	40	DTFDASYM	005A	..	DTFIF1SQ	0022	..	DTFREC SZ	0042	..
DTFBLKSZ	004A	..	DTFDATKC	0054	..	DTFIGNOP	0010	20	DTFRECTK	0048	..
DTFCCB	0000	00	DTFDAULA	005C	..	DTFIHDRL	0026	02	DTFRPSXC	002A	40
DTFCCW	0009	..	DTFDAULI	0010	80	DTFINCL	0004	40	DTFRPSXS	002A	01
DTFCWA	0007	08	DTFDAULR	0021	..	DTFINPUT	0015	02	DTFSDRPS	002C	40
DTFCDIBA	003A	..	DTFDAUND	0015	04	DTFIOADS	0057	..	DTFSKADR	003A	..
DTFCFEOV	0051	80	DTFDAVER	0015	40	DTFIOA1	002D	..	DTFSKCCW	0068	..
DTFCFEOX	00B9	..	DTFDAXTN	001E	01	DTFIOREG	0054	..	DTFSKIPR	0049	10
DTFCIOFL	0049	01	DTFDAXXR	0024	..	DTFIORGS	0055	..	DTFSNLEO	0028	..
DTFCNTRL	0064	01	DTFDCH1	0002	80	DTFIRTCL	0026	04	DTFSPAND	0010	02
DTFCOUNT	0000	..	DTFDCH2	0002	10	DTFLGIND	0064	..	DTFSPECL	0010	40
DTFCPDIF	002A	..	DTFDEADR	0064	80	DTFLGMDA	0009	10	DTFSRCH1	003E	..
DTFCPDIS	0058	..	DTFDEIGN	0064	40	DTFLGMOD	0011	..	DTFTKCAP	0052	..
DTFCPDTL	0052	..	DTFDERAD	0065	..	DTFLHLIM	0034	..	DTFTLCL	0026	02
DTFCPPF	002C	20	DTFDESKP	0064	20	DTFLADR	004C	..	DTFTPCP1	0030	..
DTFCPIN	002C	80	DTFDEVTP	001D	..	DTFLLPBN	003C	..	DTFTPCP3	0032	..
DTFCPLP	002C	04	DTDFSEK	0068	..	DTFLGRS	005C	..	DTFTPDA	0022	..
DTFCP2I	002C	10	DTFDIV3	0030	20	DTFLOLH1	004E	..	DTFTPDI	0033	..
DTFCSW	0004	..	DTFDQEXT	0010	80	DTFLOLIM	004C	..	DTFTPPH	0021	..
DTFCTRL	0044	..	DTFDUMEX	0026	01	DTFLOWHL	0034	..	DTFTPPHM	0023	..
DTFCTRLC	0044	..	DTFDVYES	0064	10	DTFLPBNR	003C	..	DTFTPSD	003C	20
DTFCTRLF	0044	..	DTFENTB4	0049	80	DTFLSTVL	0027	20	DTFTRAF	0002	80
DTFCTRLH	0046	..	DTFE0EXT	0010	01	DTFLU	0007	..	DTFTRANS	0002	..
DTFDAAFT	0015	10	DTFE0F	0002	40	DTFNAME	0016	..	DTFTRLBL	0010	04
DTFDACCW	005C	60	DTFE0FAD	0041	..	DTFNEWVL	0026	08	DTFTRNSP	0049	04
DTFDACC6	0084	..	DTFE0FPH	00C6	..	DTFNOEXT	0026	80	DTFTRUNR	0049	10
DTFDADR1	004E	..	DTFE0XUL	00A4	..	DTFNRCF	0002	04	DTFTYPE	0006	..
DTFDADRK	004F	..	DTFEXBYP	0027	80	DTFNXTCL	0049	08	DTFTYPE	0014	..
DTFDADSD	004E	..	DTFFE0V	0027	40	DTFODXSQ	0027	..	DTFTYPLU	0006	..
DTFDADWA	0053	..	DTFFE0VD	0051	40	DTFOHDRL	0026	10	DTFUE	0004	01
DTFDADWI	0050	..	DTFFLEOX	00A1	..	DTFOPEN	0015	04	DTFUEOF	0026	10
DTFDADWK	0051	..	DTFFLG1	0010	..	DTFORTCL	0049	20	DTFUEOX	0049	08
DTFDADW0	0052	..	DTFFLG2	0015	..	DTFOUNDL	0064	04	DTFULADR	0030	..
DTFDAEER	0025	..	DTFFLG3	0026	..	DTFOXTCL	0026	40	DTFULEOX	00A5	..
DTFDAEXR	0024	..	DTFFLG5	002C	..	DTFPBLK	0049	20	DTFULPBN	0036	..
DTFDAFSU	001E	..	DTFFLG6	0049	..	DTFPBNUL	0036	..	DTFULRTN	0029	..
DTFDAKLN	0066	..	DTFFLG7	0051	..	DTFPHEOF	001E	..	DTFUNRC	0002	20
DTFDAMRS	00AE	..	DTFFLNML	0028	..	DTFPHMV3	001E	20	DTFUPDAT	0026	40
DTFDAOUT	0015	80	DTFFMT1R	0023	..	DTFPHSMO	002C	08	DTFUSRLB	0015	01
DTFDAOVY	004E	..	DTFFXVUL	0064	02	DTFPHSV3	002C	20	DTFVAROU	002C	10
DTFDARIC	0056	..	DTFF1ADD	001E	..	DTFPLU	0006	01	DTFVERR	0002	02

DTFSD

DTFSD

DTFVER2	0015	08	DTFVOSTT	00D0	04	DTFVUX1D	00EE	04	DTFWKSKA	003A	..
DTFVILRR	00B4	..	DTFVOXFL	00DC	..	DTFWBKSZ	003E	..	DTFWKSRH	0038	..
DTFVIRLN	00B0	..	DTFVOXNV	00DF	08	DTFWEADR	0042	80	DTFWKSRR	003C	..
DTFVLEOX	00AD	..	DTFVOXOB	00DF	..	DTFWEIGN	0042	40	DTFWKT KC	001E	..
DTFVOCIC	00A4	..	DTFVOXSN	00DD	..	DTFWERAD	0045	..	DTFWKULC	0032	..
DTFVOCID	00D4	..	DTFVOXST	00DC	..	DTFWESKP	0042	08	DTFWKV3	0025	20
DTFVOCNT	00D4	..	DTFVOXS1	00DE	..	DTFWFUNB	0042	20	DTFWKWT1	003D	80
DTFVOFLG	00D0	..	DTFVO1VL	00DC	10	DTFWKDLT	0015	40	DTFWKXTD	0025	02
DTFVOLBN	00D8	..	DTFVUCIL	00B8	..	DTFWKEXT	0028	..	DTFWKXTF	0025	10
DTFVOLNO	0024	..	DTFVUCI1	00E4	..	DTFWKFID	0025	04	DTFWLRER	0064	04
DTFVOLVB	00A8	..	DTFVULBL	00BC	..	DTFWKLLC	002E	..	DTFWLRRT	0051	..
DTFVONID	00D4	..	DTFVULB1	00E8	..	DTFWKLLI	002A	..	DTFWORKA	0015	10
DTFVOPEN	00DC	01	DTFVULRR	00DC	..	DTFWKLLL	0026	..	DTFWPBCC	0038	..
DTFVORLN	00C8	..	DTFVUNIL	00B8	..	DTFWKLMS	003D	..	DTFWPBHH	003A	..
DTFVOROK	00DC	08	DTFVUNI1	00E4	..	DTFWKLMT	0026	..	DTFWPBNR	0038	..
DTFVORRD	00DC	04	DTFVUPBN	00B4	..	DTFWKLUL	0027	..	DTFWPNTS	003D	20
DTFVOSBT	00D0	10	DTFVURLN	00D8	..	DTFWKNWV	0025	08	DTFWRKFL	0015	20
DTFVOSET	00D0	08	DTFVUXFL	00EE	..	DTFWKOCF	0025	..	DTFWRUPD	003D	40
DTFVOSLS	00D0	20	DTFVUXLD	00EE	08	DTFWKPTO	0015	10	DTFWTKCP	001E	..
DTFVOSMS	00D0	01	DTFVUXSH	00EE	80	DTFWKRLT	0028	..	DTFWVYES	0042	10
DTFVOSPR	00A0	..	DTFVUXSL	00EC	..	DTFWKRNO	003C	..	DTFWXTCL	003D	02
DTFVOSRR	00CC	..	DTFVUXST	00EC	..	DTFWKRPS	0025	40	DTF1052	0026	04
DTFVOSSA	00D0	02	DTFVUXS1	00ED	..	DTFWKSEQ	0024	..	DTF2IOAS	0064	08

DTFX: DTF EXTENSION

DTFX describes the fields in the DTF extension. DTFX is used in the CMS/D05 environment. DTFX is invoked via the DTFX macro.

0	DTFXIDEN					
8	DTFXCBRC		DTFXCBTI		DTFXCBST	DTFXCBTC
10	D*1	DTFXCCWA			D*2	DTFXCWCS
18	D*3	DTFXRBPT				
20						DTFXRSV1
28	D*4	DTFXFBLP			D*5	DTFXFBUP
30	D*6	DTFXCI1P			D*7	DTFXCI1UP
38	D*8	DTFXD1LP			D*9	DTFXD1UP
40	D*10	DTFXE1LP			D*11	DTFXE1UP
48	D*12	D*13	D*14	D*15	DTFXDUMY	
50	DTFXFBA0				DTFXDTF	
58	DTFXNDTF				DTFXORSP	
60	DTFXXLN				D*16	DTFXOCWP
68	DTFXCISZ				D*17	DTFXLMPT
70	DTFXLMSA					
B0	DTFXFBAB				D*18	
B8	DTFXCCWP				DTFXMSWA	
C0	DTFXSMWP				DTFXERXT	
C8	DTFXULLX				DTFXULUX	
D0	DTFXI0A1				DTFXSI01	
D8	DTFXSI02				DTFXBLSZ	
E0						
E8	DTFXCI1P			DTFXCI1C		DTFXCI1H
F0	D*19	D*20	D*21	DTFXCINC		DTFXCINH

F8	D×22	D×23	DTFXCI11		DTFXLCBC			
100	DTFXRLEN		DTFXLBLN		DTFXIOAD			
108	DTFXSSPR				D×24	DTFXRCIN		
110	D×25	D×26	D×27	D×28	D×29	D×30	D×31	D×32
118	DTFXNLBO		DTFXNRDF		DTFXLBRD		DTFXRCIC	
120	DTFXEXFR				D×33	D×34		
128					DTFXFXLC		DTFXFXLH	
130	DTFXFXUC		DTFXFXUH		D×35	DTFXRELL		
138	(cont)	DTFXHRBA			DTFXCISB		D×36	
140	(cont)	DTFXTPC		DTFXTPC1		DTFXCIM4		D×37
148	(cont)	DTFXSSRW			DTFXLHH		D×38	
150	(cont)							

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DTFXIDEN	8		EYE CATCHER
8	DTFXCCB	2		IORB IN DTF EXTENSION
8	DTFXCCBI	2		CCB IN IORB
8	DTFXCBRC	2		RESIDUAL COUNT
8	DMSCCB			
A	DTFXCBTI	2		TRANSMISSION INFORMATION
Bits defined in DTFXCBTI				
80	DTFXTRAF			TRAFFIC BIT
C	DTFXCBST	2		STATUS BITS
E	DTFXCBTC	2		TYPE CODE
Bits defined in DTFXCBTC				
08	DTFXECBI			ECB POINTER IS PRESENT
04	DTFXIORB			IORB INDICATOR
10	DTFXCBLI	1	D×1	LIOCS BITS
11	DTFXCCWA	3		CCW POINTER
14	DTFXCBPI	1	D×2	PIOCS BITS
15	DTFXCWCS	3		CCW IN CSW
18	DTFXIOFL	1		FIX LIST POINTER

DTFX

DTFX

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
18	DTFXRBFL	1	D*3	IORB FLAGS
19	DTFXRBPT	3		FIX LIST POINTER
24	DTFXRSV1	4		RESERVED FOR IORB EXPANSION
28	DTFXFLS1	1		FIX LIST 1
28	DTFXFLB1	1		IORB FIX LIST
28	DTFXFBLF	1	D*4	LOWER FLAG
29	DTFXFBLP	3		LOWER IORB POINTER
2C	DTFXFBUF	1	D*5	UPPER FLAG
2D	DTFXFBUP	3		UPPER IORB POINTER
30	DTFXFLC1	1		CCW FIX LIST
30	DTFXC1LF	1	D*6	LOWER FLAG
31	DTFXC1LP	3		LOWER CCW POINTER
34	DTFXC1UF	1	D*7	UPPER FLAG
35	DTFXC1UP	3		UPPER CCW POINTER
38	DTFXFLD1	1		DATA AREA FIX LIST 1
38	DTFXD1LF	1	D*8	LOWER FLAG
39	DTFXD1LP	3		LOWER DATA POINTER
3C	DTFXD1UF	1	D*9	UPPER FLAG
3D	DTFXD1UP	3		UPPER DATA POINTER
40	DTFXFLE1	1		ECB FIX LIST 1
40	DTFXE1LF	1	D*10	LOWER FLAG
41	DTFXE1LP	3		LOWER ECB POINTER
44	DTFXE1UF	1	D*11	UPPER FLAG
45	DTFXE1UP	3		UPPER ECB POINTER
48	DTFXFLG1	1		FLAG BYTES
48	DTFXFLF1	1	D*12	END OF FIX LIST
49	DTFXFL10	1	D*13	SSR CONTROL FLAGS

Bits defined in DTFXFL10

80	DTFXSSHD	HOLD = YES SPECIFIED IN DTF
40	DTFXSSLC	SSR TO OPERATE IN LOCATE
20	DTFXSSFT	SSR FIRST ENTRY TAKEN
10	DTFXSSFW	FORCED WRITES REQUIRED
08	DTFXRPS	RPS DEVICE
04	DTFXNHRB	DON'T UPDATE HIGH RBA
02	DTFX1411	DEVICE IS A 2311 OR 2314
01	DTFXNOMT	MULTI-TRACK READ COUNT AHEAD NOT TO BE DONE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
4A	DTFXFL20	1	D*14	CCW INITIALIZATION STATE
	Bits defined in DTFXFL20			
80	DTFXCCRD			CCWS INITIALIZED FOR READ
40	DTFXCCWT			CCWS INITIALIZED FOR FORMATTED WRITE
20	DTFXCCWU			CCWS INITIALIZED FOR UNFORMATTED WRITE
10	DTFXCCRC			CCWS INITIALIZED FOR READ COUNT
4B	DTFXFL30	1	D*15	MORE FLAGS
	Bits defined in DTFXFL30			
80	DTFXSSSK			ERROPT = SKIP FOR DTFSD
40	DTFXSSIG			ERROPT = IGNORE FOR DTFSD
20	DTFXERNM			ERROPT = NAME FOR DTFSD
10	DTFXWORK			WORKA = YES FOR DTFSD
08	DTFXTRNC			TRUNCS = YES SPECIFIED
04	DTFXUPDT			UPDATE = YES SPECIFIED
02	DTFXNIOA			NO IOAREAS SPECIFIED
01	DTFXVYES			VERIFY = YES SPECIFIED FOR DTFSD - ALWAYS ON FOR CP
4C	DTFXDSAP	4		POINTER TO DSA
4C	DTFXDUMY	4		DUMMY TO GET DSAP GENNED
50	DTFXFBA0	4		FBA OPEN POINTER
54	DTFXDTF	4		POINTER TO OLD DTF
58	DTFXNDTF	4		POINTER TO NEXT IN DTF LIST
5C	DTFXORSP	4		POINTER TO OPEN SAVE AREA
60	DTFXXLEN	4		LENGTH OF THIS EXTENSION
64	DTFXOCCW	1		POINTER TO OLD CCW
64	DTFXSFSW	1	D*16	SYSFIL SWITCH
	Bits defined in DTFXSFSW			
80	DTFXIOPT			IOPTR SPECIFIED IN DTFCP
40	DTFXFRVS			FREEVIS DTFEXTEN
20	DTFXMECP			MULTIPLE EXTENT CP IS ALLOWED
65	DTFXOCWP	3		OLD CCW POINTER
68	DTFXCISZ	4		CI SIZE IN BYTES
6C	DTFXLMSP	1		POINTER TO OLD LOGIC MOD
6C	DTFXLMSW	1	D*17	FLAGS
	Bits defined in DTFXLMSW			
80	DTFXCPCP			THIS IS FOR DTFCP
40	DTFXSDSD			THIS IS FOR DTFSD
20	DTFXDIDI			THIS IS FOR DTFDI
10	DTFXSDWF			DTFSD TYPE = WORKFILE
08	DTFXVER3			DTF IS VERSION 3
04	DTFXSPRO			SPANNED RECORD FILE REOPEN REQUEST
02	DTFXCEOX			COBOL EOX TAKEN
01	DTFXRSVD			NOT USED

DTFX

DTFX

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
6D	DTFXLMPT	3		POINTER TO OLD LOGIC MOD
70	DTFXLMSA	64		LOGIC MOD SAVEAREA
B0	DTFXFBAB	4		FBA BLOCKSIZE OR PHYSICAL RECORD SIZE FOR CKD
B4	DTFXODVT	1	D*18	DEVICE TYPE
B8	DTFXCCWP	4		POINTER TO CCW WORK AREA
B8	DTFXDEOC	1		OP CODE
B8	DTFXCCWW	4		
B8	DTFXCCWS	4		FBA CCW STRING
B8	DTFXDFX1	4		DEFINE EXTENT CCW
B9	DTFXDEXP	3		EXTENT POINTER
BC	DTFXMSWA	4		POINTER TO MAP STRING WORK AREA
BC	DTFXDECF	1		CHAINING FLAGS
BD	DTFXDERS	1		RESERVED
BE	DTFXDEBC	2		BYTE COUNT
C0	DTFXLOC1	4		LOCATE CCW
C0	DTFXSMWP	4		POINTER TO SPACE MANAGEMENT WORK AREA
C0	DTFXLOOC	1		OP CODE
C1	DTFXLOLP	3		LOCATE LIST POINTER
C4	DTFXERXT	4		ERROPT = ADDRESS ADDR
C4	DTFXLOCF	1		CHAINING FLAGS
C5	DTFXLORS	1		RESERVED
C6	DTFXLOBC	2		BYTE COUNT
C8	DTFXRWCW	4		READ/WRITE CCW
C8	DTFXULLX	4		USER LABEL LOWER EXTENT
C8	DTFXRWOC	1		OP CODE
C9	DTFXRWDP	3		DATA POINTER
CC	DTFXULUX	4		USER LABEL UPPER EXTENT
CC	DTFXRWCF	1		CHAINING FLAGS
Bits defined in DTFXRWCF				
40	DTFXCWCN			COMMAND CHAIN FLAG
CD	DTFXRWRS	1		RESERVED
CE	DTFXRWLN	2		LENGTH

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
D0	DTFXVNOP	1		NOP CCW
D0	DTFXIOA1	4		ADDRESS OF USERS I/O AREA 1
D0	DTFXVLOC	1		OP CODE
D1	DTFXVLLP	3		DATA POINTER FOR NOP CCW
D4	DTFXSI01	4		ADDRESS OF I/O AREA 1 SPECIFIED BY USER ON DTF
D4	DTFXVLCF	1		CHAINING FLAGS
D5	DTFXVLRS	1		RESERVED
D6	DTFXVLBC	2		BYTE COUNT
D8	DTFXSI02	4		ADDRESS OF I/O AREA 2 SPECIFIED BY USER ON DTF
D8	DTFXRSV4	16		RESERVED FOR CHANNEL PROGRAM EXPANSION
DC	DTFXBLSZ	4		BLOCKSIZE SPECIFIED BY USER ON THE DTF
E8	DTFXXTNT	4		DEFINE EXTENT DATA
E8	DTFXCI1	4		CI HEADER
E8	DTFXCI1P	4		CI BUFFER ADDRESS
E8	DTFXXTMB	1		MASK BYTE
E9	DTFXXRSV	3		RESERVED
EC	DTFXPBNR	2		CURRENT POSITION
EC	DTFXCI1B	2		PBN OR CCHH OF CI
EC	DTFXCI1C	2		CC
EC	DTFXXTFB	4		FIRST BLOCK ON MEDIA
EE	DTFXCI1H	2		HH
F0	DTFXCI1R	1	D*19	ZERO FOR FBA, PHYSICAL RECORD NUMBER FOR CKD
F0	DTFXXTFD	4		FIRST BLOCK ON DS
F2	DTFXCI12	1	D*20	IO PASSBACK FIELD

Bits defined in DTFXCI12

80	DTFXEOXH	END OF EXTENT
40	DTFXIOEH	I/O ERROR OCCURRED
20	DTFXIOWP	WRITE IN PROGRESS
10	DTFXIORP	READ IN PROGRESS
08	DTFXCITL	LOGICAL BLOCK TOO LONG
04	DTFXPONV	POSITION NOT VALID
02	DTFXEOFH	EOF ENCOUNTERED

DTFX

DTFX

Disp Name Len Key Description

F3 DTFXCI13 1 D*21 CI STATUS

Bits defined in DTFXCI13

80	DTFXFREE		CI OR TRACK IS TO BE FREED
40	DTFXFWRQ		FORMATTED WRITE REQUIRED
20	DTFXUWRQ		UNFORMATTED WRITE REQUIRED
10	DTFXRETR		RETRY BEING DONE
08	DTFXFORW		FORCED WRITE BEING DONE
04	DTFXVALC		CI CONTENTS ARE VALID
02	DTFXLSIO		LAST I/O FOR THE CI

F4 DTFXCI1N 2 NEXT POSITION FOR CI FORMAT CKD OR CCCH OF FIRST TRACK OF FIRST EXTENT FOR NON-CI FORMAT CI

F4 DTFXCIN 2 PBN OR CCHH OF NEXT CI

F4 DTFXCINC 2 CC

F4 DTFXXTLD 4 LAST BLOCK ON DS

F6 DTFXCINH 2 HH

F8 DTFXLOCD 1 LOCATE DATA

F8 DTFXCINR 1 D*22 R

F8 DTFXLCOB 1 OPERATION BYTE

F9 DTFXCI14 1 D*23 FUNCTION FLAGS

Bits defined in DTFXCI14

80	DTFXSARC		STAND ALONE READ COUNT REQUESTED
40	DTFXMTRQ		MULTI-TRACK READ COUNT TO BE DONE
20	DTFXTRHD		TRACK IS TO BE HELD ON THIS REQUEST

F9 DTFXLCRC 1 REPLICATION COUNT

FA DTFXCI11 2 CURRENT LOGICAL BLOCK NUMBER

FA DTFXLCBC 2 BLOCK COUNT

FC DTFXLCDD 4 DATA DISPLACEMENT

SSR INTERFACE

100 DTFXRLEN 2 REQUESTED DATA LENGTH

102 DTFXLBLN 2 LOGICAL BLOCK LENGTH

104 DTFXIOAD 4 LOGICAL BLOCK ADDRESS POINTER

108 DTFXSSPR 4 POINTER TO SAM SERVICE RTN

10C DTFXRCIR 1 FULL NOTE/REPOSITION ID

10C DTFXRLCI 1 RELATIVE CI REPOSITION AND NOTE

10C DTFXNPCK 1 EXTENDED NOTE/POINT ARGUMENT DEFINITION

10C DTFXRLC1 1 D*24 HIGH ORDER BYTE

10C DTFXNPCC 2 CC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
10D	DTFXRCIN	3		RELATIVE CI NUMBER FOR NOTE ID
10D	DTFXNWCC	2		CC
10D	DTFXNW	3		EXTENDED NOTE/POINT ARGUMENT DEFINITION
10E	DTFXNPH	2		H
10F	DTFXNWH	1		H
110	DTFXSSL1	1	D*25	FIRST BYTE OF LOGICAL BLOCK NUMBER
110	DTFXNPR	1		R
110	DTFXSSLB	1		LOGICAL BLOCK FOR REPOSITION AND NOTE FOR CI FORMAT, REMAINING SPACE FOR NON-CI FORMAT OTHER THAN WORKFILES, OR FOR WORKFILES
111	DTFXSSL2	1	D*26	SECOND BYTE OF LOGICAL BLOCK NUMBER
112	DTFXSPB1	1	D*27	SSR PASSBACK
Bits defined in DTFXSPB1				
80	DTFXEOX			END OF EXTENT
40	DTFXNLBF			NO LOGICAL BLOCK FOUND
20	DTFXREOC			READ ERROR OCCURRED
10	DTFXWEOC			WRITE ERROR OCCURRED
08	DTFXLBTL			LOGICAL BLOCK TOO LONG
04	DTFXSEOF			SOFTWARE EOF ENCOUNTERED
02	DTFXRQCP			REQUEST COMPLETE
01	DTFXBOE			BEGIN OF EXTENT
113	DTFXSPB2	1	D*28	SSR PASSBACK
Bits defined in DTFXSPB2				
80	DTFXBOF			BEGIN OF FILE
40	DTFXBSL			BACKSPACE TO BE REISSUED
20	DTFXBSLR			BACKSPACE IN PROGRESS
114	DTFXSPR1	1	D*29	PREVIOUS ACTION REQUEST
115	DTFXSPR2	1	D*30	PREVIOUS REQUEST
116	DTFXSSIC	1	D*31	SSR STATUS
Bits defined in DTFXSSIC				
80	DTFXRPIP			REPOSITION IN PROGRESS
40	DTFXERIP			ERROR EXIT IN PROGRESS
20	DTFXSKEX			SKIP RETURN FROM ERROR EXIT
10	DTFXSCDF			INITIALIZE CIDF
08	DTFXRIOE			RESUME AFTER IO ERROR
04	DTFXDWCI			DONT WRITE CI
02	DTFXLMEP			EXPLICIT FREE REQUEST
117	DTFXSSR1	1	D*32	RESERVED
118	DTFXNLBO	2		NEXT LOGICAL BLOCK OFFSET
11A	DTFXNRDF	2		NEXT RDF OFFSET
11C	DTFXLBRD	2		LOGICAL BLOCK WITHIN RDF

DTFX

DTFX

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
11E	DTFXRCIC	2		REMAINING CI/TRACK CAPACITY
120	DTFXEXF	4		EXPLICIT FREE ADDRESS
120	DTFXEXFR	4		EXPLICIT FREE CI BLOCK NUMBER OR CCHH
124	DTFXEXR	1	D*33	R
125	DTFXSSOP	1	D*34	SSR OP CODE
12C	DTFXFXLL	2		FILE LOWER EXTENT
12C	DTFXFXLC	2		CC
12E	DTFXFXLH	2		HH
130	DTFXFXUU	2		FILE UPPER EXTENT
130	DTFXFXUL	2		PBN OF FIRST BLOCK OF LAST CI IN THE EXTENT OR CCHH OF FIRST PHYSICAL RECORD OF LAST CI IN THE EXTENT
130	DTFXFXUC	2		CC
132	DTFXFXUH	2		HH
134	DTFXFXUR	1	D*35	RECORD NUMBER
135	DTFXRELL	4		RELATIVE CI NUMBER OF FIRST CI IN THIS EXTENT
139	DTFXHRBA	4		HIGH USED RBA
13D	DTFXCISB	2		NUMBER BLOCKS PER CI FOR FBA, PHYSICAL RECORDS PER CI FOR CI FORMAT CKD
13F	DTFXBCM1	2		NUMBER BLOCKS PER CI MINUS 1
13F	DTFXPRPT	2	D*36	PHYSICAL RECORDS PER TRACK FOR CI FORMAT CKD -- SPACE REQUIRED FPR EOF NON-CI FORMAT CKD
141	DTFX2BCI	2		TWICE NUMBER BLOCKS PER CI
141	DTFXTPC	2		TRACKS PER CYLINDER FOR CI FORMAT CKD
143	DTFX2BM1	2		TWICE BLOCKS PER CI MINUS 1
143	DTFXTPC1	2		TRACKS PER CYLINDER MINUS 1 FOR CI FORMAT CKD-- COUNT/GAP COMPUTATION CONSTANT FOR NON-CI FORMAT
145	DTFXCIM4	2		CISIZE MINUS 4 BYTES FOR CI FORMAT--TRACK CAPACITY FOR NON-CI FORMAT
147	DTFXCIMX	2	D*37	CISIZE MINUS 10 BYTES FOR CI FORMAT--COUNT/GAP OVERHEAD CONSTANT FOR NON-CI FORMAT CKD
149	DTFXSSRW	4		ADDRESS OF SSR AND LOGIC MODULE WORKAREA
14D	DTFXLHH	2		LOWER CYLINDER HEAD LIMIT FOR NON-CI CKD, 0 IF NOT SPLIT CYLINDER
14F	DTFXUHH	2	D*38	UPPER CYLINDER HEAD LIMIT FOR NON-CI FORMAT CKD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
THIS IS A DESCRIPTION OF THE CCB BLOCK				
8	CCBST			START CCB
8	CCBD			COMMAND CONTROL BLOCK
8	CCBLEN	0		MAP OF THE DOS CCB
8	CCBCNT	2		RESIDUAL COUNT
A	CCBERMAP	0		4 BYTES USED TO CHECK ERRORS
A	CCBCOM1	1		COMMUNICATIONS BYTE NUMBER 1
Bits defined in CCBCOM1				
80	CCBWAIT			TRAFFIC BIT (SET AT CE)
40	CCBE0F			END-OF-FILE
20	CCBIOERR			UNRECOVERABLE I/O ERROR
10	CCBERROK			ACCEPT UNRECOVERABLE ERROR
08	CCBRDC			RETURN DATA CHECKS
04	CCBPDE			POST AT DEVICE END
02	CCBDCV			RETURN DATA CHECK RD/CHK
01	CCBUERR			USER ERROR ROUTINE
B	CCBCOM2	1		COMMUNICATIONS BYTE NUMBER 2
Bits defined in CCBCOM2				
80	CCBDCNT			DATA CHECK IN COUNT AREA
40	CCBTRKOV			TRACK OVERRUN
20	CCBE0C			END-OF-CYLINDER
10	CCBDC			DATA CHECK
08	CCBNOREC			NO-RECORD-FOUND
04	CCBRETRY			RETRY NO RECORD FOUND
02	CCBVER			VERIFY ERROR
01	CCBCC			COMMAND CHAIN (RETRY)
C	CCBCSW1	1		CSW STATUS BIT NUMBER 1
Bits defined in CCBCSW1				
80	CCBATTN			ATTENTION
40	CCBSTMOD			STATUS MODIFIER
20	CCBCUE			CONTROL UNIT END
10	CCBBUSY			BUSY
08	CCBCE			CHANNEL END
04	CCBDE			DEVICE END
02	CCBUC			UNIT CHECK
01	CCBUE			UNIT EXCEPTION
D	CCBCSW2	1		CSW STATUS BIT NUMBER 2
Bits defined in CCBCSW2				
80	CCBPCI			PROGRAM-CONTROLLED INTERRUPT
40	CCBILEN			INCORRECT LENGTH
20	CCBPROGM			PROGRAM CHECK
10	CCBPROT			PROTECTION CHECK
08	CCBCHAND			CHANNEL DATA CHECK
04	CCBCHANC			CHANNEL CONTROL CHECK
02	CCBICTRL			INTERFACE CONTROL CHECK
01	CCBCHAIN			CHAINING CHECK

DTFX

DTFX

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
E	CCBSYMU	0		SYMBOLIC UNIT (SYSUN)
E	CCBSUCLS	1		U - LUB CLASS
F	CCBSUNUM	1		N - LUB NUMBER WITHIN CLASS
10	CCBLIOBS	1		RESERVED FOR LIOBS
11	CCBCCW	3		POINTER TO START OF CHANNEL PROGRAM
14	CCBCOM3	1		COMMUNICATION BYTE NUMBER 3
Bits defined in CCBCOM3				
40	CCBAPEND			APPENDAGE EXIT AT INTERRUPT
15	CCBCSW	3		PT TO CSW OR PT APPENDAGE RETURN
18	CCBLDATB	4		ADDRESS OF LAST DATA BLOCK
1C	CCBLCCWB	4		ADDRESS OF LAST CCW BLOCK
24	CCBUFLGS	1		I/O MANAGER CCB FLAGS
Bits defined in CCBUFLGS				
80	CCBUEAIC			ERROR ANALYSIS IN CONTROL
40	CCBUEAC			ERROR ANALYSIS COMPLETE
20	CCBURDCW			READ CCW ACTIVE
10	CCBRPS			RPS CHAN PGM CANDIDATE
25	CCBFSCCW	3		SAVE AREA FOR FIRST CCW ADDRESS
28	CCBRDCCW	4		ADDRESS OF FIRST READ CCW
2C	CCBWTCCW	4		ADDRESS OF FIRST WRITE CCW
30	CCBLWCCW	4		ADDRESS OF THE LAST WRITE CCW
40	CCBNCCB	4		ADDRESS OF NEXT CCB BLOCK

CROSS REFERENCE (Name Disp Value)

CCBAPEND 0014 40	CCBDC 000B 10	CCBNOREC 000B 08	CCBUEAIC 0024 80
CCBATTN 000C 80	CCBDCCNT 000B 80	CCBPCI 000D 80	CCBUERR 000A 01
CCBBUSY 000C 10	CCBDCV 000A 02	CCBPDE 000A 04	CCBUFLGS 0024 ..
CCBCC 000B 01	CCBDE 000C 04	CCBPROGM 000D 20	CCBURDCW 0024 20
CCBCCW 0011 ..	CCBEOC 000B 20	CCBPROT 000D 10	CCBVER 000B 02
CCBCE 000C 08	CCBEOF 000A 40	CCBRDC 000A 08	CCBWAIT 000A 80
CCBCHAIN 000D 01	CCBERMAP 000A ..	CCBRDCCW 0028 ..	CCBWTCCW 002C ..
CCBCHANC 000D 04	CCBERROK 000A 10	CCBRETRY 000B 04	DMSCCB 0008 ..
CCBCHAND 000D 08	CCBFSCCW 0025 ..	CCBRPS 0024 10	DTFXBCM1 013F ..
CCBCNT 0008 ..	CCBICTRL 000D 02	CCBST 0008 ..	DTFXBLSZ 00DC ..
CCBCOM1 000A ..	CCBILEN 000D 40	CCBSTMOD 000C 40	DTFXBOE 0112 01
CCBCOM2 000B ..	CCBIQERR 000A 20	CCBSUCLS 000E ..	DTFXBOF 0113 80
CCBCOM3 0014 ..	CCBLCCWB 001C ..	CCBSUNUM 000F ..	DTFXBSL 0113 40
CCBCSW 0015 ..	CCBLDATB 0018 ..	CCBSYMU 000E ..	DTFXBSLR 0113 20
CCBCSW1 000C ..	CCBLEN 0008 ..	CCBTRKOV 000B 40	DTFXCBLI 0010 ..
CCBCSW2 000D ..	CCBLIOBS 0010 ..	CCBUC 000C 02	DTFXCBPI 0014 ..
CCBCUE 000C 20	CCBLWCCW 0030 ..	CCBUE 000C 01	DTFXCBRC 0008 ..
CCBD 0008 ..	CCBNCCB 0040 ..	CCBUEAC 0024 40	DTFXCBST 000C ..

DTFXCBTC	000E	..	DTFXERIP	0116	40	DTFXLMSP	006C	..	DTFXSCDF	0116	10
DTFXCBTI	000A	..	DTFXERNM	004B	20	DTFXLMSW	006C	..	DTFXSDSD	006C	40
DTFXCCB	0008	..	DTFXERXT	00C4	..	DTFXLO3C	00C6	..	DTFXSDWF	006C	10
DTFXCCBI	0008	..	DTFXEXF	0120	..	DTFXLOCD	00F8	..	DTFXSEOF	0112	04
DTFXCCRC	004A	10	DTFXEXFR	0120	..	DTFXLOCF	00C4	..	DTFXSFSW	0064	..
DTFXCCRD	004A	80	DTFXEXR	0124	..	DTFXLOC1	00C0	..	DTFXSIO1	00D4	..
DTFXCCWA	0011	..	DTFXE1LF	0040	..	DTFXLOLP	00C1	..	DTFXSIO2	00D8	..
DTFXCCWP	00B8	..	DTFXE1LP	0041	..	DTFXLOOC	00C0	..	DTFXSKEK	0116	20
DTFXCCWS	00B8	..	DTFXE1UF	0044	..	DTFXLORS	00C5	..	DTFXSMWP	00C0	..
DTFXCCWT	004A	40	DTFXE1UP	0045	..	DTFXLSIO	00F3	02	DTFXSPB1	0112	..
DTFXCCWU	004A	20	DTFXFBAB	00B0	..	DTFXMECP	0064	20	DTFXSPB2	0113	..
DTFXCCWW	00B8	..	DTFXFBAO	0050	..	DTFXMSWA	00BC	..	DTFXSPRO	006C	04
DTFXCEOX	006C	02	DTFXFBLF	0028	..	DTFXMTRQ	00F9	40	DTFXSPR1	0114	..
DTFXCIMX	0147	..	DTFXFBLP	0029	..	DTFXNDTF	0058	..	DTFXSPR2	0115	..
DTFXCIM4	0145	..	DTFXFBUF	002C	..	DTFXNHRB	0049	04	DTFXSSFT	0049	20
DTFXCIN	00F4	..	DTFXFBUP	002D	..	DTFXNIOA	004B	02	DTFXSFW	0049	10
DTFXCINC	00F4	..	DTFXFLB1	0028	..	DTFXNLBF	0112	40	DTFXSSHHD	0049	80
DTFXCINH	00F6	..	DTFXFLC1	0030	..	DTFXNLBO	0118	..	DTFXSSIC	0116	..
DTFXCINR	00F8	..	DTFXFLD1	0038	..	DTFXNQMT	0049	01	DTFXSSIG	004B	40
DTFXCISB	013D	..	DTFXFLE1	0040	..	DTFXNPCC	010C	..	DTFXSSLB	0110	..
DTFXCISZ	0068	..	DTFXFLF1	0048	..	DTFXNPCK	010C	..	DTFXSSLC	0049	40
DTFXCITL	00F2	08	DTFXFLG1	0048	..	DTFXNPH	010E	..	DTFXSSL1	0110	..
DTFXCI1	00E8	..	DTFXFLS1	0028	..	DTFXNPR	0110	..	DTFXSSL2	0111	..
DTFXCI1B	00EC	..	DTFXFL10	0049	..	DTFXNRDF	011A	..	DTFXSSOP	0125	..
DTFXCI1C	00EC	..	DTFXFL20	004A	..	DTFXNW	011D	..	DTFXSSPR	0108	..
DTFXCI1H	00EE	..	DTFXFL30	004B	..	DTFXNWCC	010D	..	DTFXSSRW	0149	..
DTFXCI1N	00F4	..	DTFXFORW	00F3	08	DTFXNWH	010F	..	DTFXSSR1	0117	..
DTFXCI1P	00E8	..	DTFXFREE	00F3	80	DTFXOCCW	0064	..	DTFXSSSK	004B	80
DTFXCI1R	00F0	..	DTFXFRVS	0064	40	DTFXOCWP	0065	..	DTFXTPC	0141	..
DTFXCI11	00FA	..	DTFXFWRQ	00F3	40	DTFXODVT	00B4	..	DTFXTPC1	0143	..
DTFXCI12	00F2	..	DTFXFXLC	012C	..	DTFXORSP	005C	..	DTFXTRAF	000A	80
DTFXCI13	00F3	..	DTFXFXLH	012E	..	DTFXPBNR	00EC	..	DTFXTRHD	00F9	20
DTFXCI14	00F9	..	DTFXFXLL	012C	..	DTFXPONV	00F2	04	DTFXTRNC	004B	08
DTFXCPCP	006C	80	DTFXFXUC	0130	..	DTFXPRPT	013F	..	DTFXUHH	014F	..
DTFXCWCH	00CC	40	DTFXFXUH	0132	..	DTFXRBFL	0018	..	DTFXULLX	00C8	..
DTFXCWCS	0015	..	DTFXFXUL	0130	..	DTFXRBPT	0019	..	DTFXULLUX	00CC	..
DTFXC1LF	0030	..	DTFXFXUR	0134	..	DTFXRCIC	011E	..	DTFXUPDT	004B	04
DTFXC1LP	0031	..	DTFXFXUU	0130	..	DTFXRCIN	010D	..	DTFXUWRQ	00F3	20
DTFXC1UF	0034	..	DTFXHRBA	0139	..	DTFXRCIR	010C	..	DTFXVALC	00F3	04
DTFXC1UP	0035	..	DTFXIDEN	0000	..	DTFXRELL	0135	..	DTFXVER3	006C	08
DTFXDEBC	00BE	..	DTFXIOAD	0104	..	DTFXREOC	0112	20	DTFXVLBC	00D6	..
DTFXDECF	00BC	..	DTFXIOA1	00D0	..	DTFXRETR	00F3	10	DTFXVLCF	00D4	..
DTFXDEOC	00B8	..	DTFXIOEH	00F2	40	DTFXRIOE	0116	08	DTFXVLLP	00D1	..
DTFXDERS	00BD	..	DTFXIOFL	0018	..	DTFXRLCI	010C	..	DTFXVLOC	00D0	..
DTFXDEXP	00B9	..	DTFXIOPT	0064	80	DTFXRLC1	010C	..	DTFXVLR5	00D5	..
DTFXDFX1	00B8	..	DTFXIORB	000E	04	DTFXRLEN	0100	..	DTFXVNOP	00D0	..
DTFXDIDI	006C	20	DTFXIORP	00F2	10	DTFXRPIP	0116	80	DTFXVYES	004B	01
DTFXDSAP	004C	..	DTFXIOWP	00F2	20	DTFXRPS	0049	08	DTFXWEOC	0112	10
DTFXDTF	0054	..	DTFXLBN	0102	..	DTFXRQCP	0112	02	DTFXWORK	004B	10
DTFXDUMY	004C	..	DTFXLBRD	011C	..	DTFXRSVD	006C	01	DTFXXLEN	0060	..
DTFXDWCI	0116	04	DTFXLBTL	0112	08	DTFXRSV1	0024	..	DTFXXRSV	00E9	..
DTFXD1LF	0038	..	DTFXLCBC	00FA	..	DTFXRSV4	00D8	..	DTFXXTFB	00EC	..
DTFXD1LP	0039	..	DTFXLCDD	00FC	..	DTFXRWCF	00CC	..	DTFXXTFD	00F0	..
DTFXD1UF	003C	..	DTFXLCOB	00F8	..	DTFXRWCW	00C8	..	DTFXXTLD	00F4	..
DTFXD1UP	003D	..	DTFXLCRC	00F9	..	DTFXRWDP	00C9	..	DTFXXTMT	00E8	..
DTFXECBI	000E	08	DTFXLHH	014D	..	DTFXRWLN	00CE	..	DTFXXTNB	00E8	..
DTFXEOFH	00F2	02	DTFXLMEP	0116	02	DTFXRWOC	00C8	..	DTFX1411	0049	02
DTFXEQX	0112	80	DTFXLMPT	006D	..	DTFXRWRS	00CD	..	DTFX2BCI	0141	..
DTFXEOXH	00F2	80	DTFXLMSA	0070	..	DTFXSARC	00F9	80	DTFX2BML	0143	..

EDCB: EDIT CONTROL BLOCK

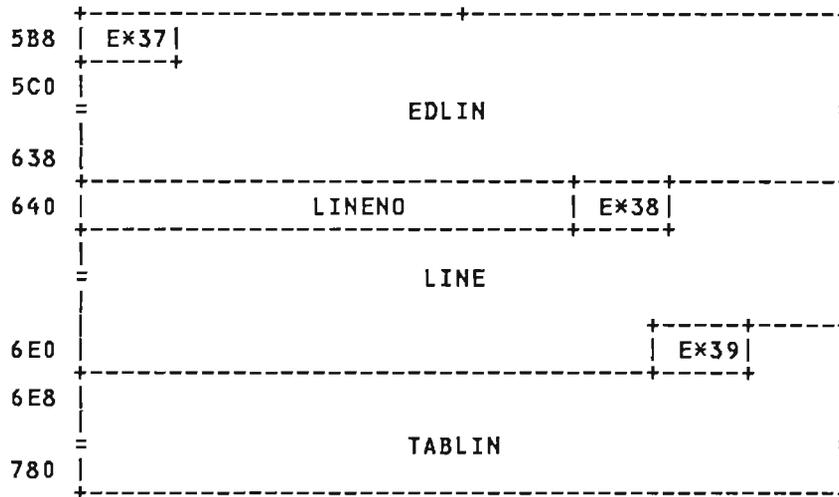
EDCB is used by all CMS EDIT modules to define common free storage control blocks. It is initialized by DMSEDX, the EDIT bootstrap routine, and built dynamically from user free storage each time a user issues the EDIT command. EDCB is invoked by the EDCB macro.

0	FNAME			
8	FTYPE			
10	FMODE	FV	E×1	TRUNCOL
18	ZONE2	VERCOL1	VERCOL2	VERLEN
20	SCRBUFAD		CARDINCR	
28	LMSTART	LMINCR	FLAG	E×2
=				
TABS				
=				
48	SEQNAME	E×3	PADBUF	
50	PADBUF (continued)		PTRCONS	
58	PTR1			
60	PTR2		PTR3	
68	AEXTEND		CORITEM	
70	SPARES		FPTR	
78	ITEM		AFSTFNRD	
80	FREELEN		FREEAD	
88	EDRET		EDMSK	
90	MAINAD			
=				
AUTOREG				
=				
C8	CARDNO		COUNT	
D0	LMCURR			
D8	BUFFL		BUFFA	

E0	CANSAV		
100	DUALNOS		
1F8	DECIMAL		HALF
200	REGSAVE		
210	REGSAVX		
218	REPCNT		
220	SAVEAR		
260	XYCNT		CHNGNUM
268	TIN		
270	cont.	AEDLIN	E*4 E*5
278	TOUT		
280	TOUT (continued)		TYPFLG
288	IOLIST		
290	IOID		
298	E*6		
2A0	IOMODE	////////	IOAD
2A8	E*7	E*8	PLSTFLGS
2B0	PLSTFLGS (cont.)		PLSTITEM
2B8	RECS		
2C0	RECS (cont.)		ALTLIST
2C8	ALTLIST (cont.)		EDWORK
2D0	ERDWORK (cont.)		E*9
2D8	E*9 (cont.)		ALTMODE

2E0	ALTMODE (cont.)		////////////////////////////////	
2E8	////////////////////////////////			
2F0	////////////////////////////////		E*10	////////////////////////////////
2F8	////////////////////////////////		E*11	
300	E*11 (cont.)		STACKAT	
308	STACKAT (continued)			
310	STACKATL		ATTN	
318	ATTN (continued)			
320	ATTNLEN		RENLIST	
328	RENLIST (cont.)		RPLIST	
330	RPLIST (cont.)			
338	STRTNO		INCRNO	
340	AINCORE		FSIZE	
348	DECLTH			
350	RANGE			
358	////////////////////////////////			
360	E*12	BUFAD	FLG	CTL | WRCOUNT
368	BUFFLOC		ALINELOC	
370	ANUMLOC		AFLAGLOC	
378	TRNCNUM		AUOCNT	AUOCURR
380	CHNGCNT	DITCNT	EDCT	LINELOC
388	NUMLOC	SAVCNT	TVERCOL1	TVERCOL2
390	E*13	E*14	AREA	
398	AREA(cont.)	BYTE	E*15	
3A0	= CHNGMSG =			
3B0	E*16	CHGTRUNC		
3B8				
3C0	E*17			

3C8	CMODE				
3D0	FILEMS				
3E0			E*18	E*19	
3E8	E*20				
	JAR				
				NEWNAME	
438	NEWNAME (cont.)			NEWTYPE	
440	NEWTYPE (cont.)		NEWMODE	E*21	
448	E*21 (cont.)			E*22	
450	E*22 (cont)	E*23	E*24		
458	TEMPTAB				
			E*25	E*26	
470	E*27	E*28	SCLNO		
478	SCLNO(cont)	E*29	E*30	XAREA	
	E*31				
500				YAREA	
508	E*32				
				E*33	
590	E*34		E*35	E*36	
598	XXXCWD				
5A0	SAVCWD				
5A8	INVLDHDR			MACROHDR	
5B0	continued	INVLD	MACRO		



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	BLOC			
0	FNAME	8		FILENAME
8	FTYPE	8		FILETYPE
10	FMODE	2		FILEMODE
12	FV	1		RECORD FORMAT
13	CASESW	1	E*1	CASE SETTING
14	TRUNCOL	2		COLUMN OF TRUNCATION
16	ZONE1	2		BEGINNING ZONE (INITIALIZE TO COLUMN 1)
18	ZONE2	2		END ZONE
1A	VERCOL1	2		VERIFY COLUMN 1
1C	VERCOL2	2		VERIFY COLUMN 2
1E	VERLEN	2		VERIFY LENGTH
20	SCRBUFAD	4		ADDRESS OF GETMAIN BUFFER
24	CARDINCR	4		INCREMENT FOR SERIALIZATION
28	LMSTART	2		WHERE LINE NUMBERS START
2A	LMINCR	2		AUTOMATIC LINE NUMBERS DEFAULT INCREMENT
2C	FLAG	1		FLAGS FOR LINE MONITORING
2D	FLAG2	1	E*2	MISCALENEOUS FLAGS
2E	TABS	26		A MAXIMUM OF 25 TABS IS ALLOWED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
48	ENDTABS			END OF TABS
48	SEQNAME	3		NAME, IF ANY, FOR SERIALIZATION
4B	PADCHAR	1 E*3		'0' ON RIGHT, ' ' ON LEFT
4C	ENDBLOC			END OF BLOCX
| 4C	PADBUF	9		PAD CHARACTERS (PADBUF MUST REMAIN DIRECTLY BEHIND PADCHAR)
55	PTRCONS			SAME AS PTRCONS IN DMSEDI
58	PTR1	8		'TOP' POINTER (FOR DUMMY TOP LINE)
60	PTR2	4		CURRENT LINE POINTER
64	PTR3	4		POINTER TO BOTTOM LINE
68	AEXTEND	4		POINTER TO END OF USED AREA OF CORE
6C	CORITEM	4		NUMBER OF BYTES FOR ONE LINE IN CORE
70	SPARES	4		NUMBER OF SPARE LINES
74	FPTR	4		FREE-LIST POINTER
78	ITEM	4		ITEM LENGTH
7C	AFSTFNRD	4		ANCHOR FOR STACKED LINES UPON ENTRY
80	FREELN	4		LENGTH OF FREE STORAGE
84	FREEAD	4		ADDRESS OF FREE STORAGE
88	EDRET	4		CMS RETURN ADDRESS
8C	EDMSK	4		DMSSCR EDIT MASK
90	MAINAD	4		LOADSYS ADDRESS / 0 IF LOADMOD
94	EPTRCONS			
| 94	AUTOREG	52		AUTOCHECK SAVE AREA
C8	CARDNO	4		SEQUENTIAL NUMBER SAVE AREA
CC	COUNT	4		NUMBER OF CHARS IN EDLIN
D0	LMCURR	8		PROMPTER CURRENT LINE NUMBER
D8	BUFFL	4		LENGTH OF STRING (EDC)
DC	BUFFA	4		ADDRESS OF STRING (EDC)
| E0	CANSAV	36		REGISTER SAVE (EDC)
104	DUALNOS	240		TEMPORARY STRING BUFFER (EDC)
1F8	DECIMAL	4		USED BY DECBIN & BINDEC
1FC	HALF	4		BINDEC ONLY EDITS 4 CHARACTERS
| 200	REGSAV	20		REGISTER SAVE AREA

EDCB

EDCB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 214	REGSAVX	12		REGISTER SAVE AREA
220	REPCNT	4		'FOR' COUNT
| 224	SAVEAR	60		DMSSCR SAVE AREA
260	XYCNT	4		X OR Y EXECUTION COUNT
264	CHNGNUM	4		NUMBER OF LINES TO CHANGE
| 268	TIN	9		WAITRD PLIST
| 268		8		'WAITRD'
| 270		1		'1' FOR CONSOLE NUMBER 1
271	AEDLIN	3		A(EDLIN)
274	CASEREAD	1 E*4		DEFAULT TO UPPER CASE
| 275		3 E*5		LENGTH PUT HERE
| 278	TOUT	13		TYPLIN PLIST
| 278		8		'TYPLIN'
| 280		1		'1' FOR CONSOLE NUMBER 1
| 281		3		ADDRESS GOES HERE
| 284		1		'B' FOR BLACK RIBBON
| 285	TYPFLG	3		X'20' MAXIMUM LENGTH OVERRIDE
	Bits defined in TYPFLG			
80	CRBIT			SUPPRESS CARRIAGE RETURN
288	IOLIST	8		(INITIAL. FOR 'ESTATE' OF SOURCE)
| 288		8		'ESTATE'
290	IOID	8		'EDIT'
| 298		8 E*6		'CMSUT1'
2A0	IOMODE	2		'A1'
| 2A2		2		RESERVED
2A4	IOAD	4		'****' DON'T ALLOW '*S
| 2A8		4 E*7		'133' (XINSCRIPT USE 'LINE')
2AC	PLSTFV	1 E*8		FV FLAG
| 2AD	PLSTFLGS	7		PLIST FLAGS (EXTENDED PLIST)
| 2AE		2		RESERVED
| 2B0		4		READ BYTE COUNT
2B4	PLSTITEM	4		EXTENDED ITEM NUMBER

EDCB

EDCB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 2B8	RECS	12		EXTENDED NUMBER OF ITEMS
| 2BC		4		WRITE POINTER
| 2C0		4		READ POINTER
2C4	ALTLIST	8		
| 2C4		8		'RENAME'
2CC	EDWORK	8		'EDIT'
| 2D4		8	E×9	'CMSUT1'
2DC	ALTMODE	8		'A1'
| 2E4		16		RESERVED
| 2F4		2	E×10	'*'
| 2F6		6		RESERVED
| 2FC		8	E×11	'FF' FENCE
| 304	STACKAT	12		PLIST TO STACK FIFO
| 304		8		'ATTN'
| 30C		4		'FIFO'
310	STACKATL	4		LENGTH & ADDRESS OF LINE TO STACK
| 314	ATTN	12		
| 314		8		'ATTN'
| 31C		4		'LIFO'
320	ATTNLEN	4		LENGTH & ADDRESS OF LINE TO STACK
324	RENLIST	8		RENUM PLIST
| 324		8		'RENUM'
32C	RPLIST	12		FILEID
338	STRNO	4		STARTING NUMBER
33C	INCRNO	4		INCREMENT NUMBER
340	AINCORE	4		INCORE COPY ADDRESS
344	FSIZE	4		RECORD LENGTH
348	DECLTH	8		DMSSCR WORK AREA
350	RANGE	8		MESSAGE DATA AREA
358		8		RESERVED
360	CMDBLOK	1	E×12	X'19'
361	BUFAD	3		BUFFER ADDRESS

EDCB

EDCB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
364	FLG	1		CCW FLAG
365	CTL	1		CONTROL BYTE
366	WRCOUNT	2		WRITE COUNT
368	GIOPLIST			DMSSCR PLIST FOR DMSGIO, (FULLWORD BOUNDARY)
368	BUFFLOC	4		BUFFER LOCATION
36C	ALINELOC	4		A(LINELOC)
370	ANUMLOC	4		A(NUMLOC)
374	AFLAGLOC	4		A(FLAGLOC)
378	TRNCNUM	4		NUMBER OF LINES TRUNCATED
37C	AUTOCNT	2		AUTOSAVE PARAMETER
37E	AUTOCURR	2		CURRENT MODIFICATION COUNT
380	CHNGCNT	2		TEMPORARY AREA FOR CHANGE
382	DITCNT	2		NUMBER LINES STACKED BY DITTO
384	EDCT	2		NEXT CHAR IN EDLIN
386	LINELOC	2		DISPLAY LINE NUMBER
388	NUMLOC	2		DISPLAY COUNT
38A	SAVCNT	2		SPOT TO SAVE COUNT FOR DITTO
38C	TVERCOL1	2		TEMPORARY AREA FOR VERIFY COL 1
38E	TVERCOL2	2		TEMPORARY AREA FOR VERIFY COL 2
390	ALCHAR1	1	E*13	TEMPORARY USED BY ALTER
391	ALCHAR2	1	E*14	ANOTHER ONE
392	AREA	8		EDIT INSTRUCTION WORK
39A	BYTE	1		TEMPORARY (USED BY GET)
39B	CHNGFLAG	1	E*15	FLAG FOR CHANGE
39C	CHNGMSG	20		LINES CHANGED MESSAGES
3B0		2	E*16	C','
3B2	CHGTRUNC	13		C'.... LINE(S) '
3BF		9	E*17	C'TRUNCATED'
3C8	CMODE	4		FILEMODE FOR MODECHK ROUTINE
3CC	FILEMS	26		RETRY MESSAGE
3E6	FLAGLOC	1	E*18	FLAG FOR DMSGIO
3E7	GETFLAG	1	E*19	FLAG FOR GETFILE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
3E8	HOLDFLAG	1	E*20	DMSSCR 'SCRFLGS'
| 3E9	JAR	76		SAVE AREA FOR PRESERVE
435	NEWNAME	8		NAME AREA FOR FILE & SAVE
43D	NEWTPE	8		TYPE AREA FOR FILE & SAVE
445	NEWMODE	2		MODE AREA FOR FILE & SAVE
447	SERSAV	8	E*21	SERIAL NUMBER SAVE AREA
44F	SERTSEQ	3	E*22	TEMPORARY SERIAL AREA
452	SERTSW	1	E*23	TEMPORARY USED BY SERIAL
453	SIGNAL	1	E*24	SIGNAL BETWEEN ROUTINES
| 454	TEMPTAB	26		TEMPORARY SPOT FOR NEW TABS
46E	UTILFLAG	1	E*25	DMSSCR UTILITY FLAGS
46F	XYFLAG	1	E*26	X/Y ACTIVE FLAG
470	SCRFLGS	1	E*27	SCREEN FUNCTION FLAGS
471	SCRFLG2	1	E*28	MORE SCREEN FUNCTION FLAGS
| 472	SCLNO	8		SAVE LINEMODE SEQUENTIAL NUMBER
47A	TWITCH	1	E*29	LOCATION FLAGS
47B	TYPSCR	1	E*30	DISPLAY SIZE INDEX VALUE
| 47C	XAREA	2		'X' LENGTH AND REQUEST BUFFER
| 47E		135	E*31	(SAME LENGTH AS EDLIN)
| 506	YAREA	2		'Y' LENGTH AND REQUEST BUFFER
| 508		135	E*32	(SAME LENGTH AS EDLIN)
58F	FLAG3	1	E*33	MISCELLANEOUS FLAGS
| 590		6	E*34	ALIGNMENT FOR XXXCWD
| 596		1	E*35	MORE ALIGNMENT
597	BLANK1	1	E*36	BLANK FOR CLEARING XXXCWD
598	XXXCWD	8		EDIT TOKEN BUFFER
5A0	SAVCWD	8		SPOT TO SAVE XXXCWD
5A8	INVLDHDR	6		'?EDIT:' FOR INVALID REQUEST MSG
5AE	MACROHDR	4		'EXEC' FOR EDIT MACRO STACKING
| 5B2	INVL D	2		SPOT TO HOLD INVLDHDR
5B4	MACRO	4		SPOT TO HOLD MACROHDR (IN INVL D)
| 5B8		1	E*37	BLANK USED FOR CLEARING EDLIN

EDCB

EDCB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
5B9	EDLIN	135		TERMINAL INPUT BUFFER
640	LINENO	5		LINE NUMBER FOR TYPEOUT
645	BLANK2	1	E×38	BLANK FOR CLEARING LINE
646	LINE	160		CURRENT LINE IS HELD HERE
6E6	BLANK3	1	E×39	BLANK FOR CLEARING TABLIN
6E7	TABLIN	160		OUTPUT FROM SPREAD
788	EDCBEND			
788	EDCBLTH			LENGTH OF EDCB WAW

CROSS REFERENCE (Name Disp Value)

AEDLIN	0271	..	COUNT	00CC	..	IOAD	02A4	..	SAVEAR	0224	..
AEXTEND	0068	..	CRBIT	0285	80	IOID	0290	..	SCLNO	0472	..
AFLAGLOC	0374	..	CTL	0365	..	IOLIST	0288	..	SCRBUFAD	0020	..
AFSTFNRD	007C	..	DECIMAL	01F8	..	IOMODE	02A0	..	SCRFLGS	0470	..
AINCORE	0340	..	DECLTH	0348	..	ITEM	0078	..	SCRFLG2	0471	..
ALCHAR1	0390	..	DITCNT	0382	..	JAR	03E9	..	SEQNAME	0048	..
ALCHAR2	0391	..	DUALNOS	0104	..	LINE	0646	..	SERSAV	0447	..
ALINELOC	036C	..	EDCBEND	0788	..	LINELOC	0386	..	SERTSEQ	044F	..
ALTLIST	02C4	..	EDCBLTH	0788	..	LINENO	0640	..	SERTSW	0452	..
ALTMODE	02DC	..	EDCT	0384	..	LMCRR	00D0	..	SIGNAL	0453	..
ANUMLOC	0370	..	EDLIN	05B9	..	LMINCR	002A	..	SPARES	0070	..
AREA	0392	..	EDMSK	008C	..	LMSTART	0028	..	STACKAT	0304	..
ATTN	0314	..	EDRET	0088	..	MACRO	05B4	..	STACKATL	0310	..
ATTNLEN	0320	..	EDWORK	02CC	..	MACROHDR	05AE	..	STRTNO	0338	..
AUTOCNT	037C	..	ENDBLOC	004C	..	MAINAD	0090	..	TABLIN	06E7	..
AUTOCURR	037E	..	ENDTABS	0048	..	NEWMODE	0445	..	TABS	002E	..
AUTOREG	0094	..	EPTRCONS	0094	..	NEWNAME	0435	..	TEMPTAB	0454	..
BLANK1	0597	..	FILEMS	03CC	..	NEWTYP	043D	..	TIN	0268	..
BLANK2	0645	..	FLAG	002C	..	NUMLOC	0388	..	TOUT	0278	..
BLANK3	06E6	..	FLAGLOC	03E6	..	PADBUF	004C	..	TRNCNUM	0378	..
BLOC	0000	00	FLAG2	002D	..	PADCHAR	004B	..	TRUNCOL	0014	..
BUFAD	0361	..	FLAG3	058F	..	PLSTFLGS	02AD	..	TVERCOL1	038C	..
BUFFA	00DC	..	FLG	0364	..	PLSTFV	02AC	..	TVERCOL2	038E	..
BUFFL	00D8	..	FMODE	0010	..	PLSTITEM	02B4	..	TWITCH	047A	..
BUFFLOC	0368	..	FNAME	0000	..	PTRCONS	0055	..	TYPFLG	0285	..
BYTE	039A	..	FPTR	0074	..	PTR1	0058	..	TYPSCR	047B	..
CANSV	00E0	..	FREED	0084	..	PTR2	0060	..	UTILFLAG	046E	..
CARDINCR	0024	..	FREENEN	0080	..	PTR3	0064	..	VERCOL1	001A	..
CARDNO	00C8	..	FSIZE	0344	..	RANGE	0350	..	VERCOL2	001C	..
CASEREAD	0274	..	FTYPE	0008	..	RECS	02B8	..	VERLEN	001E	..
CASESW	0013	..	FV	0012	..	REGSAV	0200	..	WRCOUNT	0366	..
CHGTRUNC	03B2	..	GETFLAG	03E7	..	REGSAVX	0214	..	XAREA	047C	..
CHNGCNT	0380	..	GIOPLIST	0368	..	RENLIST	0324	..	XXXCWD	0598	..
CHNGFLAG	039B	..	HALF	01FC	..	REPCNT	0220	..	XYCNT	0260	..
CHNGMSG	039C	..	HOLDFLAG	03E8	..	RESVD1	0358	..	XYFLAG	046F	..
CHNGNUM	0264	..	INCRNO	033C	..	RPLIST	032C	..	YAREA	0506	..
CMDBLOK	0360	..	INVLD	05B2	..	SAVCNT	038A	..	ZONE1	0016	..
CMODE	03C8	..	INVLDHDR	05A8	..	SAVCWD	05A0	..	ZONE2	0018	..
CORITEM	006C	..									

EPLIST: EXTENDED PLIST DSECT

EPLIST is used to map the extended plist. EPLIST is found in the EPLIST macro.

0	EPLCMD	EPLARGBG
8	EPLARGND	////////////////////
10	EPARGLST	EPFUNRET

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	EPLCMD	4		ADDRESS OF COMMAND TOKEN
4	EPLARGBG	4		ADDRESS OF BEGINNING OF ARGUMENTS
8	EPLARGND	4		ADDRESS OF END OF ARGUMENTS
Bits defined in EPLARGND				
B	EPLCMDFL			EXTENDED PLIST AVAILABLE FLAG
5	EPFUNSUB			EXTERNAL FUNCTION PLIST AVAILABLE
1	EPLFNCFL			EXTENDED PLIST AVAILABLE FLAG
C		4		RESERVED
10	EPARGLST	4		ADDRESS OF FUNCTION ARGUMENT LIST
14	EPFUNRET	4		ADDRESS FOR RETURN OF FUNCTION DATA

Note: The extended PLIST FLAGS indicates the presence of an extended PLIST in REGISTER 0. The high order byte of REGISTER 1 will contain either EPLCMDFL or EPLFNCFL to indicate that the extended PLIST is available. Only the first 4 words of the extended PLIST are available with these codes.

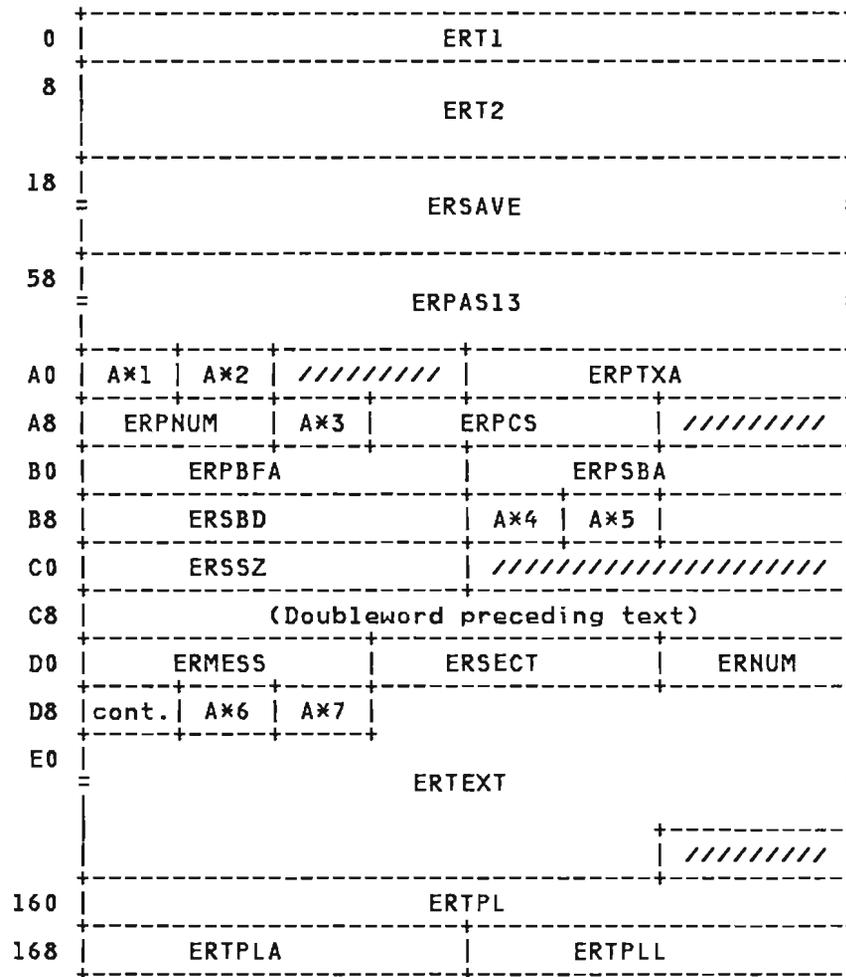
If the high order byte of REGISTER 1 contains EPFUNSUB, then the invocation is an external function/subroutine called from REX. With this PLIST, all 6 words of the PLIST are available. Word 5 points to a list of doublewords ADLENS (ADDRESS-LENGTH PAIRS) that describes the arguments to the routine (EPARGLST). Word 6 (EPFUNRET) is the location for the called routine to store the address of an EVALBLOK to return data to the calling program.

CROSS REFERENCE (Name Disp Value)

EPLARGBG 0004 ..	EPFUNRET 0014 ..	EPLCMD 0000 ..	EPLCMDFL 0008 0B
EPARGLST 0010 ..	EPLARGND 0008 ..		EPLFNCFL 0008 01

ERDSECT: ERROR HANDLING ROUTINE DSECT

ERDSECT describes the fields in a work area used for giving responses and error via the DMSERR or LINKEDIT macros. The field NUCERT in NUCON points to the DMSERT CSECT in DMSNUC. ERDSECT is invoked by the DMSERT macro.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	ERT1	8		DOUBLEWORD WORKSPACE
8	ERT2	16		TWO DOUBLEWORDS WORKSPACE
SAVE AREA				
18	ERSAVE	64		
58	ERPAS13	72		PASS THIS SAVE AREA IN REG 13 TO BALR'ED-TO ROUTINES

Disp Name Len Key Description

RECONSRUCTED PLIST AREA

A0 ERPF1 1 A*1 FIRST FLAG BYTE

Bits defined in ERPF1

80 ERF1TX TEXT ADDRESS IN PLIST
 40 ERF1HD HEADER IN PLIST
 20 ERF1BF BUFFER ADDRESS IN PLIST
 10 ERF1SB1 ONE SUBSTITUTION
 08 ERF1SBN MULTIPLE SUBSTITUTIONS (> 1)

A1 ERPF2 1 A*2 SECOND FLAG BYTE

Bits defined in ERPF2

first three bits indicate 'DISP' field)

80 ERF2CM BLANK COMPRESSION WANTED
 40 ERF2DT DOT AT END OF LINE WANTED
 20 ERF2DI 'DIE = YES' WANTED
 (Previous three bits indicate 'DISP' field)
 05 ERF2CP CPCOMM
 04 ERF2PR PRINT
 03 ERF2NO NONE
 02 ERF2SI SIO
 01 ERF2TY TYPE
 00 ERF2ER ERRMSG

A2 2 RESERVED

A4 ERPTXA 4 TEXT ADDRESS

A8 ERPHDR 6 ERROR MESSAGE HEADER

A8 ERPNUM 2 MESSAGE NUMBER

AA ERPLET 1 A*3 MESSAGE LETTER

AB ERPCS 3 CSECT NAME

AE 2 RESERVED

B0 ERPBFA 4 BUFFER ADDRESS (FOR 'BUFFA')

FIELDS FOR SUBSTITUTIONS

B4 ERPSBA 4 POINTER TO FIRST (NEXT) GROUP OF SUB PARAMS IN ORIGINAL

B8 ERSBD 4 DATA ADDRESS/VALUE OR CURRENT SUB

BC ERSBF 1 A*4 SUB FLAG BYTE FOR CURRENT SUB

Bits defined in ERSBF

80 ERSFLST THE LAST SUBSTITUTION PARAM
 40 ERSFA 'A'-TYPE OPTION
 20 ERSFL LENGTH SPECIFIED
 (Previous three bits give option type)
 04 ERSFC8 CHAR8A
 03 ERSFH4 HEX4A
 02 ERSFC CHARA
 01 ERSFD DEC OR DECA
 00 ERSFH HEX OR HEXA

ERDSECT

ERDSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
BD	ERSBL	1	A*5	SUB LENGTH BYTE FOR CURRENT SUB
| BE		2		RESERVED
C0	ERSSZ	4		SIZE OF SUB FIELD (# DOTS - 1)
| C4		4		RESERVED

MESSAGE CONSTRUCTION AREA

D0	ERMESS	3		FIRST LETTERS OF HEADER
D3	ERSECT	3		DSECT NAME
D6	ERNUM	3		MESSAGE NUMBER
D9	ERLE	1	A*6	MESSAGE LEVEL LETTER
DA	ERBL	1	A*7	BLANK

Bits defined in ERBL

82	ERTSIZE			MAX TEXT SIZE
| DB	ERTEXT	131		MESSAGE TEXT AREA
'TYPLIN'/'PRINTR' PLIST CONSTRUCTION AREA				
160	ERTPL	8		
| 168	ERTPLA	4		MESSAGE TEXT ADDRESS
| 16C	ERTPLL	4		MESSAGE LENGTH

CROSS REFERENCE (Name Disp Value)

ERBL	00DA ..	ERF2SI	00A1 02	ERPNUM	00A8 ..	ERSFH	00BC 00
ERF1BF	00A0 20	ERF2TY	00A1 01	ERPSBA	00B4 ..	ERSFH4	00BC 03
ERF1HD	00A0 40	ERLET	00D9 ..	ERPTXA	00A4 ..	ERSFL	00BC 20
ERF1SBN	00A0 08	ERMESS	00D0 ..	ERSAVE	0018 ..	ERSFLST	00BC 80
ERF1SB1	00A0 10	ERNUM	00D6 ..	ERSBD	00B8 ..	ERSSZ	00C0 ..
ERF1TX	00A0 80	ERPAS13	0058 ..	ERSBF	00BC ..	ERTEXT	00DB ..
ERF2CM	00A1 80	ERPBF A	00B0 ..	ERSBL	00BD ..	ERTPL	0160 ..
ERF2CP	00A1 05	ERPCS	00AB ..	ERSECT	00D3 ..	ERTPLA	0168 ..
ERF2DI	00A1 20	ERPF1	00A0 ..	ERSFA	00BC 40	ERTPLL	016C ..
ERF2DT	00A1 40	ERPF2	00A1 ..	ERSFC	00BC 02	ERTSIZE	00DA 82
ERF2ER	00A1 00	ERPHDR	00A8 ..	ERSFC8	00BC 04	ERT1	0000 ..
ERF2NO	00A1 03	ERPLET	00AA ..	ERSFD	00BC 01	ERT2	0008 ..
ERF2PR	00A1 04						

EXTSECT: EXTERNAL INTERRUPT WORK AREA

EXTSECT describes the fields in the external interrupt work area referenced by DMSITE. EXTSECT is pointed to by the AEXTSECT field in NUCON. EXTSECT is invoked via the EXTSECT macro.

0	EXSAVE		
40	TYPLIST		
48	TIMCCW		
50	TIMCHAR		
58	SCAW		
60	TIMINIT		
68	EXSAVE1		
A8	EXTPSW		
B0	SAVEXT		
B8	EXTRET		
C0	JR0	JR1	
C8	STIMEXIT	A*1	////////////////

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	EXSAVE	64		SAVED REGISTERS
40	TYPLIST	8		P-LIST TO TYPE BLIP-CHAR'S
48	TIMCCW	4		
50	TIMCHAR	5		BLIP-CHARACTER(S)
58	SCAW	12		SAVED CSW-CAW
64	TIMINIT	4		VALUE TO SET TIMER = 2 SECONDS

STORAGE FOR EXTERNAL (OTHER THAN TIMER) INTERRUPT

68	EXSAVE1	64		SAVED REGISTERS
A8	EXTPSW	8		FILLED-IN PSW...
B0	SAVEXT	8		FIRST 4 BYTE TRANSFER-ADDRESS FOR EXTERNAL INTERRUPT SECOND 4 BYTE ADDRESS OF BMSDBG

EXTSECT

EXTSECT

Disp Name Len Key Description

STORAGE FOR EXTERNAL INTERRUPT SET UP BY 'TRAP'

B8	EXTRET	8		SAVED EXT-OLD-PSW
C0	JR0	4		22 DOUBLEWORDS FOR FPRS & USER-SAVEAREA
C4	JR1	4		ADDRESS OF FREE STORAGE
C8	STIMEXIT	4		ADDRESS OF STIMER EXIT ROUTINE
CC	EXTFLAG	1	A*1	

Bits defined in EXTFLAG

80	REALTIMR			REAL TIMER INDICATOR
----	----------	--	--	----------------------

CROSS REFERENCE (Name Disp Value)

EXSAVE	0000	..	EXTRET	00B8	..	SAVEXT	00B0	..	TIMCHAR	0050	..
EXSAVE1	0068	..	JR0	00C0	..	SCAW	0058	..	TIMINIT	0064	..
EXTFLAG	00CC	..	JR1	00C4	..	STIMEXIT	00C8	..	TYPLIST	0040	..
EXTPSW	00A8	..	REALTIMR	00CC	80	TIMCCW	0048	..			

FCBSECT: SIMULATED OS CONTROL BLOCKS

FCBSECT consists of the CMS file control block (FCB) used for file management under CMS, the simulated OS job file control block (JFCB), input/output block (IOB), and data extent block (DEB). FCBSECT is invoked via the CMSCB macro. FCBSECT is dynamically allocated from CMS free storage each time the FILEDEF command is issued.

0	FCBNEXT			FCBPROC		
8	FCBDD					
10	FCBOP					
18	FCBDSNAM					
20	FCBDSTYP					
28	FCBDSMD	////////	FCBBUFF			
30	FCBBYTE		A*1	A*2	////////	
38	FCBREAD			FCBITEM		
40	FCBCOUT			FCBWPTR		
48	FCBRPTR		A*3	A*4	////////	
50	FCBRECL	A*5	A*6	FCBR13		
58	FCBKEYS			FCBPDS		
60	JFCBMASK					
68	JFCBCRDT	JFCBXPDT		A*7	A*8	
70	A*9	A*10	JFCBUFL	A*11	A*12	///
78	A*13(cont)	JFCDSORG	A*14	A*15	JFCBLKSI	
80	JFCLRECL	A*16	A*17	////////////////////		
88	DEBTCBAD			SEBSAV		
90	DEBOFLGS			DEBOPATB		
98	IOBNXTAD			IOBECB		
A0	DEBDCBAD			IOBECBPT		
A8	IOBCSW					
B0	IOBSTART			IOBDCBPT		
B8	FCBMEMBR					
C0	FCBOSFST			FCBOSDSN		
C8	FCBXTENT					
D0	FCBEND					

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
38	FCBREAD	4		N'BYTES ACTUALLY READ
3C	FCBITEM	4		EXTENDED PLIST ITEM COUNT
40	FCBCOUT	4		EXTENDED PLIST RECORDS / PHYSICAL BLOCK
44	FCBWPTR	4		EXTENDED PLIST WRITE POINTER
48	FCBRPTR	4		EXTENDED PLIST READ POINTER
4C	FCBDEV	1 A*3		DEVICE TYPE CODE
Bits defined in FCBDEV				
1C	FCBCRT			CRT
18	FCBPCH			PUNCH
14	FCBDSK			DISK
10	FCBTAP			TAPE
0C	FCBCON			CONSOLE TERMINAL
08	FCBRDR			READER
04	FCBPTR			PRINTER
00	FCBDUM			DUMMY DEVICE
4D	FCBMODE	1 A*4		MODE: 1,2,3,4,5
| 4E		2		RESERVED
50	FCBRECL	2		DCB LRECL AT OPEN TIME
52	IOBIOFLG	1 A*5		I/O FLAGS
53	FCBDCBCT	1 A*6		NUMBER OF DCB'S USING THIS FCB
54	FCBR13	4		SAVEAREA VECTOR R13
58	FCBKEYS	4		A(DDS IN-CORE KEY TABLE)
5C	FCBPDS	4		A(PDS IN-CORE DIRECTORY)
60	JFCBMASK	8		VARIOUS MASK BITS
| 68	JFCBCRDT	3		DATA SET CREATION DATE (YDD)
| 6B	JFCBXPDT	3		DATA SET EXPIRATION DATE (YDD)
6E	JFCBIND1	1 A*7		INDICATOR ONE
6F	JFCBIND2	1 A*8		INDICATOR TWO
70	JFCBUFNO	1 A*9		NUMBER OF BUFFERS
| 71	JFCBFTEK	0		BUFFERING TECHNIQUE
71	JFCBFALN	1 A*10		BUFFER ALIGNMENT
72	JFCBUFL	2		BUFFER LENGTH
74	JFCEROPT	1 A*11		ERROR OPTION
75	JFCKEYLE	1 A*12		KEYLENGTH
| 76		1		---NOT USED---
77	JFCLIMCT	3 A*13		BDAM SEARCH LIMIT

FCBSECT

FCBSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
7A	FCBDSORG	0		DATA SET ORGANIZATION
7A	JFCDSORG	2		
7C	FCBRECFM	0		RECORD FORMAT
7C	JFCRECFM	1	A*14	
7D	JFCOPTCD	1	A*15	OPTION CODES
7E	FCBBLKSZ	0		BLOCK SIZE
7E	JFCBLKSI	2		
80	FCBLRECL	0		LOGICAL RECORD LENGTH
80	JFCLRECL	2		
82	FCBIOSW	1	A*16	I/O OPERATION INDICATOR
Bits defined in FCBIOSW				
80	FCBCLOSE			DURING "CLOSE"
40	FCBCLEAV			DISP = LEAVE DURING CLOSE
20	FCBPROCC			GOTO FCBPROC DURING CLOSE
10	FCBPROCO			GOTO FCBPROC DURING OPEN
08	FCBCASE			ON=LOWER CASE CONSOLE I/O
04	FCBPVMB			PUT-MOVE-VAR-BLK
02	FCBIOWR			WRITE/PUT
01	FCBIORD			READ/GET
83	FCBIOSW2	1	A*17	I/O OPERATION INDICATORS
Bits defined in FCBIOSW2				
80	FCBWRTSW			INDICATE DCB OPEN FOR WRITE
08	FCBMVFIL			MOVE FILE IS ACTIVE
02	FCBMMV			MOVE PDS SWITCH FOR FIND
01	FCBMVPDS			SW FOR MOVEFILE WITH PDS OPTION
84	DEBLNGTH	0		LENGTH OF DEB IN DOUBLEWORDS
Bits defined in DEBLNGTH				
40	FCBTCLOS			A CLOSE TYPE T WAS DONE
84		4		---NOT USED---
88	IHADEB	0		*** DATA EXTENT BLOCK ***
88	DEBTCBAD	4		A(MOVE-MODE USER BUFFER)
8C	SEBSAV	4		DYNAMIC SAVE FOR RETURN ADDRESS FOR SEB (OS I/O SIM)
90	DEBOFLGS	4		DATA SET STAU5 FLAGS
94	DEBOPATB	4		OPEN/CLOSE OPTION BYTE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 98	IOBFLG	0		(START OF IOBPREFIX FOR NORMAL SCHEDULING)
	Bits defined in IOBFLG			
	40 IOBOUT			"WRITE,PUT" IN PROGRESS
	20 IOBIN			"READ,GET" IN PROGRESS
	10 IOBUPD			"QSAM PUTX" IN PROCESS
	00 IOBBFLG			DISPLACEMENT OF IOB FLAG IN IOB
	98 IOBNXTAD	4		A(NEXT BUFFER TO BE USED)
	9C IOBECB	4		ECB FOR QSAM NORMAL SCHEDULING
| A0	IHAIOB	0		*** INPUT/OUTPUT BLOCK ***
| A0	DEBDEBID	0		DEB IDENTIFICATION
	A0 DEBDCBAD	4		A(DATA CONTROL BLOCK)
| A4	IOBECBCC	0		ECB COMPLETION CODE
	Bits defined in IOBECBCC			
	0C IOBBECBC			DISPLACEMENT OF ECB CODE IN IOB
	0C IOBBECBP			DISPLACEMENT OF ECB POINTER IN IOB
	A4 IOBECBPT	4		A(EVENT CONTROL BLOCK)
| A8	IOBFLAG3	0		I/O ERROR FLAG
	Bits defined in IOBFLAG3			
	10 IOBBCSW			DISPLACEMENT OF CSW IN IOB
	A8 IOBCSW	8		LAST CCW STORED (I.E., RESIDUAL COUNT)
	B0 IOBSTART	4		X'ID-NEXT BUFFER' ,AL3(INITIAL BUFFER)
	B4 IOBDCBPT	4		A(DATA CONTROL BLOCK)
| B8	IOBEND	0		END-OF-INPUT/OUTPUT BLOCK
	B8 FCBMEMBR	8		OS PDS MEMBER NAME
	C0 FCBOSFST	4		POINTER TO OS FST
	C4 FCBOSDSN	4		POINTER TO OS DSNAME BLOCK
	C8 FCBXTENT	4		NUMBER OF ITEMS IN EXTENT
| CC	FCBTEOV	4		ADDRESS OF TEOVEXIT ROUTINE
	D0 FCBTSAVE	4		ADDRESS OF SYSTEM REGISTER SAVE AREA FOR TEOVEXIT
| D4	FCBFLAG1	1		MISCELLANEOUS FLAG BITS
	Bits defined in FCBFLAG1			
|	80 FCBTEOVS	1000	0000	TAPE-END-OF-VOLUME EXIT AVAILABLE
|	40 FCBTEOVA	0100	0000	TEOV EXIT IS ACTIVE
D8	FCBEND	0		END-OF FCB, JFCB, DEB, IOB BLOCKS

FCBSECT

FCBSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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SPECIAL FIELDS FOR TAPE FILES ONLY

18	FCBTAPID	4		TAPE IDENTIFICATION
1C	FCBLABT	1		TAPE LABEL TYPE

Bits defined in FCBLABT

20	FCBNL			NO LABELS
10	FCBNSLMD			NSL ROUTINE IS A MODULE
08	FCBNSL			NONSTANDARD USER LABELS
06	FCBSUL			IBM AND USER STANDARD LABELS
04	FCBUSER			USER STANDARD LABELS
02	FCBSL			IBM STANDARD LABELS
01	FCBBLP			BYPASS LABELS - JUST POSITION TAPE
00	FCBOFF			NO LABEL PROCESSING AT ALL

1D	FCBTPSW	1		TAPE SWITCH
----	---------	---	--	-------------

Bits defined in FCBTPSW

80	FCBLEAVE			DO NOT REPOSITION TAPE FOR OPEN
40	FCBNOEOV			DO NOT DO ANY EOVS PROCESSING AT ALL
1E	FCBPOS	2		POSITION PARAMETER
20	FCBNSLNM	8		NSL ROUTINE NAME
24	FCBIOOUT	8		SPECIAL I/O COMMAND LIST
2C	FCBIOBUF	4		A(DATA BUFFER)
30	FCBCONCR	1	A*18	CONSOLE COLOR CODE
31	FCBCONMS	1	A*19	CONSOLE MISCELLANEOUS INFORMATION
32	FCBIOCNT	2		L'DATA BUFFER
B8	FCBLABPT	4		POINTER TO LABSECT
BC	FCBBLKCT	4		BLOCK COUNT FOR TAPE FILE

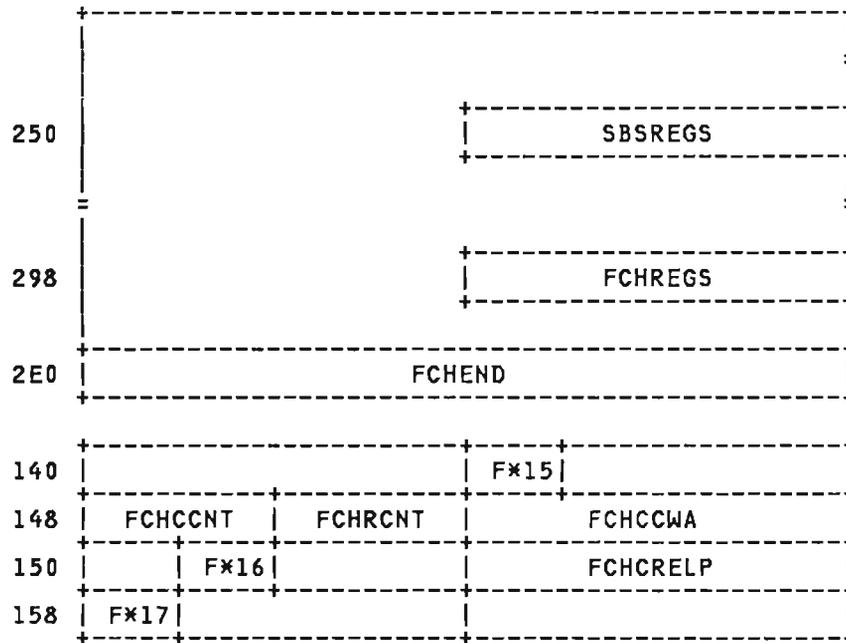
CROSS REFERENCE (Name Disp Value)

DEBDCBAD	00A0	..	FCBEPL	0035	..	FCBPDS	005C	..	IOBBFLG	0098	00
DEBDEBID	00A0	..	FCBFLAG1	00D4	..	FCBPERM	0000	04	IOBCSW	00A8	..
DEBLNGTH	0084	..	FCBFORM	0034	..	FCBPOS	001E	..	IOBDCBPT	00B4	..
DEBOFLGS	0090	..	FCBINIT	0000	..	FCBPROC	0004	..	IOBECB	009C	..
DEBOPATB	0094	..	FCBIOBUF	002C	..	FCBPROCC	0082	20	IOBECBCC	00A4	..
DEBTCBAD	0088	..	FCBIOCNT	0032	..	FCBPROCO	0082	10	IOBECBPT	00A4	..
FCBBATCH	0000	02	FCBIOOUT	0024	..	FCBPRPU	0020	24	IOBEND	00B8	..
FCBBLKCT	00BC	..	FCBIORD	0082	01	FCBPTR	004C	04	IOBFLAG3	00A8	..
FCBBLKSZ	007E	..	FCBIOSW	0082	..	FCBPVMB	0082	04	IOBFLG	0098	..
FCBBLP	001C	01	FCBIOSW2	0083	..	FCBRDR	004C	08	IOBIN	0098	20
FCBBUFF	002C	..	FCBIOWR	0082	02	FCBREAD	0038	..	IOBIOFLG	0052	..
FCBBYTE	0030	..	FCBITEM	003C	..	FCBREFCM	007C	..	IOBNXTAD	0098	..
FCBCASE	0082	08	FCBKEYS	0058	..	FCBRECL	0050	..	IOBOUT	0098	40
FCBCATLD	0000	40	FCBLABPT	00B8	..	FCBRPTR	0048	..	IOBSTART	00B0	..
FCBCATML	0000	01	FCBLABT	001C	..	FCBR13	0054	..	IOBUPD	0098	10
FCBCLEAV	0082	40	FCBLEAVE	001D	80	FCBSL	001C	02	JFCBCRDT	0068	..
FCBCLOSE	0082	80	FCBLRECL	0080	..	FCBSUL	001C	06	JFCBDSNM	0018	..
FCBCON	004C	0C	FCBMEMBR	00B8	..	FCBTAP	004C	10	JFCBFALN	0071	..
FCBCONCR	0030	..	FCBMMV	0083	02	FCBTAPID	0018	..	JFCBFTEK	0071	..
FCBCONMS	0031	..	FCBMODE	004D	..	FCBTBSP	0028	..	JFCBIND1	006E	..
FCBCOUT	0040	..	FCBMVFIL	0083	08	FCBTCLOS	0084	40	JFCBIND2	006F	..
FCBCRT	004C	1C	FCBMVPDS	0083	01	FCBTEOVA	00D4	40	JFCBLKSI	007E	..
FCBDCBCT	0053	..	FCBNEXT	0000	..	DCBTEOVS	00D4	80	JFCBMASK	0060	..
FCBDD	0008	..	FCBNL	001C	20	FCBTPSW	001D	..	JFCBUFL	0072	..
FCBDEV	004C	..	FCBNOEOV	001D	40	FCBUSER	001C	04	JFCBUFNO	0070	..
FCBDID	0080	..	FCBNSL	001C	08	FCBWPTR	0044	..	JFCBXPDT	006B	..
FCBDOSL	0000	20	FCBNSLMD	001C	10	FCBWRTSW	0083	80	JFCDSORG	007A	..
FCBDSK	004C	14	FCBNSLNM	0020	..	FCBXTENT	00C8	..	JFCEROPT	0074	..
FCBDSMD	0028	..	FCBOFF	001C	00	IHADEB	0088	..	JFCKEYLE	0075	..
FCBDSNAM	0018	..	FCBOP	0010	..	IHAIOB	00A0	..	JFCLIMCT	0077	..
FCBDSORG	007A	..	FCBOPCB	0000	08	IHAJFCB	0018	..	JFCLRECL	0080	..
FCBDSTYP	0020	..	FCBOS	0000	10	IOBBCSW	00A8	10	JFCOPTCD	007D	..
FCBDUM	004C	00	FCBOSDSN	00C4	..	IOBBECBC	00A4	0C	JFCREFCM	007C	..
FCBEND	00D8	..	FCBOSFST	00C0	..	IOBBECBP	00A4	0C	SEBSAV	008C	..
FCBENSIZ	0000	1A	FCBPCH	004C	18						

FCHSECT: FETCH WORK AREA

FCHSECT contains a BLDL list, note list address, DCB, DECB, point field, FILEDEF PLIST, read buffer, and register save areas. The NUCAFCHS field in the NUCON control block points to the fetch work area.

0	FCHBLDL				FCHNAME			
8	(cont.)				FCHTRR		F*1	
10	F*2		FCHTXT		FCHNOTE			
18	cont.	F*3	F*4	F*5	FCHLENG		F*6	
20	F*6	FHCEPA		F*7	F*8	F*9		
28	F*9(cont)		FCHAMEM					
=								
40					FCHNOTAD			
48	F*10	F*11		FCHSAV10				
50	FCHSAV14				FCHPOINT			
58	FCHREGN				F*12			
=								
C0	F*13							
=								
D0					FDEF			
D8	FDEF (cont.)				FDEFDD			
E0	FDEFDD (cont.)				FDEFDEV			
E8	FDEFDEV (cont.)				FDEFNAME			
F0	FDEFNAME (cont.)				FDEFTYPE			
F8	FDEFTYPE (cont)				FDEFMODE			
100	FDEFMODE (cont)							
=								
118					FSTLIST			
=								
140					F*14			



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FCHBLDL	4		BLDL LIST
4	FCHNAME	8		MODULE NAME
C	FCHTTR	3		MODULE TTR ADDRESS
F	FCHCONC	1	F*1	CONCATENATION NUMBER
11	FCHMISC	1	F*2	ALIAS INDICATOR AND MISC INFORMATION
12	FCHTXT	3		TTR OF FIRST TEXT RECORD
16	FCHNOTE	3		TTR OF NOTE OR SCATTER LIST
19	FCHNNOTE	1	F*3	NUMBER OF NOTE LIST ENTRIES

THE FOLLOWING SETTINGS REPRESENT THE 'ON' CONDITION

1A FCHATT1 1 F*4 MODULE ATTRIBUTES

Bits defined in FCHATT1

80	FCHRENT	THE MODULE IS REENTERABLE
40	FCHREUS	THE MODULE IS REUSEABLE
20	FCHOVLY	THE MODULE IS OVERLAY MODULE
10	FCHTEST	THE MODULE IS UNDER TEST
08	FCHLOAD	THE MODULE IS ONLY LOADABLE
04	FCHSCAT	THE MODULE HAS SCTR FORMAT
02	FCHEXEC	THE MODULE IS EXECUTABLE
01	FCH1TXT	THE MODULE HAS 1 TXT, NO RLD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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1B	FCHATT2	1	F*5	MORE ATTRIBUTES
----	---------	---	-----	-----------------

Bits defined in FCHATT2

80	FCHLEDE			THE MODULE NO RELINK BY 'E'
40	FCHORIG			THE ORIGIN OF 1ST TXT = 0
20	FCHENTP			THE MODULE ENTRY POINT = 0
10	FCHNRDL			THE MODULE HAS NO RLD RECS
08	FCHEDIT			THE MODULE CAN'T BE RELINKED
04	FCHTRAN			THE MODULE HAS TESTRAN RECS
02	FCHCOMP			THE MODULE LINK-EDITED
01	FCHREFR			THE MODULE IS REFRESHABLE

1C	FCHLENG	3		MODULE LENGTH
----	---------	---	--	---------------

1F	FCHTXTL	2	F*6	LENGTH OF 1ST TEXT RECORD
----	---------	---	-----	---------------------------

21	FCHEPA	3		ASSIGNED ENTRY POINT ADDRESS
----	--------	---	--	------------------------------

24	FCHATT3	1	F*7	ATTRIBUTE FIELD NUMBER 2
----	---------	---	-----	--------------------------

Bits defined in FCHATT3

80	FCHLVS			PROCESSED BY OS/V5 L.E.
40	FCHRES1			RESERVED UNUSED
20	FCHPAG			PAGE ALIGNMENT REQ'D
10	FCHSSI			SSI PRESENT

25	FCHRES2	1	F*8	UNUSED ATTRIBUTE BYTES
----	---------	---	-----	------------------------

THE FOLLOWING FIELDS ONLY APPLY WHEN AN ALIAS IS USED

27	FCHAENT	3	F*9	ENTRY POINT ADDRESS OF MEMBER
----	---------	---	-----	-------------------------------

2A	FCHAMEM	8		MEMBER NAME
----	---------	---	--	-------------

44	FCHNOTAD	4		ADDRESS OF NOTE LIST
----	----------	---	--	----------------------

48	FCHFLAG	1	F*10	FETCH PROCESS FLAG
----	---------	---	------	--------------------

49	FCHOFLG	1	F*11	2ND FETCH FLAG BYTE
----	---------	---	------	---------------------

4C	FCHSAV10	4		SAVE AREA FOR REG 10
----	----------	---	--	----------------------

50	FCHSAV14	4		SAVE AREA FOR REG 14
----	----------	---	--	----------------------

54	FCHPOINT	4		POINT BUFFER
----	----------	---	--	--------------

58	FCHREGN	4		POINTER TO LAST REGN RELOCATED
----	---------	---	--	--------------------------------

5C	FCHDCB	1	F*12	\$SYSLIB DCB
----	--------	---	------	--------------

C0	FCHDECB	1	F*13	DECB WORK AREA
----	---------	---	------	----------------

D4	FDEF	8		CMS COMMAND
----	------	---	--	-------------

DC	FDEFDD	8		DDNAME
----	--------	---	--	--------

E4	FDEFDEV	8		DEVICE
----	---------	---	--	--------

EC	FDEFNAME	8		DEFAULT FILENAME
----	----------	---	--	------------------

F4	FDEFTYPE	8		FILE TYPE
----	----------	---	--	-----------

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
FC	FDEFMODE	8		ANY MODE
104		8		START OF OPTIONS
10C		8		CONCATENATION
114		1		STANDARD FENCE
Bits defined in &1				
48	FDEFLEN			LENGTH OF FILEDEF PLIST
11C	FSTLIST	8		CMS COMMAND
124		8		DEFAULT LIBRARY NAME
12C		8		LIBRARY TYPE
134		8		LIBRARY MODE
13C		1		FENCE
Bits defined in &1				
28	FSTTLEN			LENGTH OF STATE PLIST
144	FCHRLDBF	1 F*14		BUFFER FOR MODULE INPUT
Bits defined in FCHRLDBF				
	BUFLEN			270 EQUATE FOR BUFFER LENGTH
254	SBSREGS	4		REG SAVE AREA FOR READ
29C	FCHREGS	4		REGISTER SAVE AREA
2E0	FCHEND	8		END OF FETCH WORK AREA DSECT
Bits defined in FCHEND				
78	FCHCLRLN			FDEF-FCHDCB: LENGTH OF AREA TO CLEAR
00	FCHSCTLN			FCHEND-FCHSECT: LENGTH OF FETCH WORK AREA
144	FCHCID	1 F*15		IDENTIFICATION
148	FCHCNT	2		BYTE COUNT OF CONTROL INFORMATION
14A	FCHRCNT	2		BYTE COUNT OF RLD INFORMATION
14C	FCHCCWA	4		ADDRESS PORTION OF CCW
151	FC.ICCWL	1 F*16		LENGTH PORTION OF CCW
154	FCHCRELP	4		R AND P INFORMATION
158	FCHCFLAG	1 F*17		FLAG BYTE
Bits defined in FCHCFLAG				
60	FLRELOC			RECORD TO BE RELOCATED
02	FLSUBTR			SUBTRACT OFFSETS
01	FLNORP			NO R AND P FOLLOWING

FCHSECT

FCHSECT

CROSS REFERENCE (Name Disp Value)

BUFLEN	0144	**	FCHEND	02E0	..	FCHPAG	0024	20	FCHTRAN	001B	04
FCHAENT	0027	..	FCHENTP	001B	20	FCHPOINT	0054	..	FCHTTR	000C	..
FCHAMEM	002A	..	FCHEPA	0021	..	FCHRCNT	014A	..	FCHTXT	0012	..
FCHATT1	001A	..	FCHEXEC	001A	02	FCHREFR	001B	01	FCHTXTL	001F	..
FCHATT2	001B	..	FCHFLAG	0048	..	FCHREGN	0058	..	FCH1TXT	001A	01
FCHATT3	0024	..	FCHLEDE	001B	80	FCHREGS	029C	..	FDEF	00D4	..
FCHBLDL	0000	..	FCHLENG	001C	..	FCHRENT	001A	80	FDEFDD	00DC	..
FCHCCNT	0148	..	FCHLOAD	001A	08	FCHRES1	0024	40	FDEFDEV	00E4	..
FCHCCWA	014C	..	FCHLVS	0024	80	FCHRES2	0025	..	FDEFLEN	0114	48
FCHCCWL	0151	..	FCHMISC	0011	..	FCHREUS	001A	40	FDEFMODE	00FC	..
FCHCFLAG	0158	..	FCHNAME	0004	..	FCHRLDBF	0144	..	FDEFNAME	00EC	..
FCHCID	0144	..	FCHNNOTE	0019	..	FCHSAV10	004C	..	FDEFTYPE	00F4	..
FCHCLRLN	02E0	78	FCHNOTAD	0044	..	FCHSAV14	0050	..	FLNORP	0158	01
FCHCOMP	001B	02	FCHNOTE	0016	..	FCHSCAT	001A	04	FLRELOC	0158	60
FCHCONC	000F	..	FCHNRLD	001B	10	FCHSCTLN	02E0	00	FLSUBTR	0158	02
FCHCRELP	0154	..	FCHOFLG	0049	..	FCHSECT	0000	..	FSTLIST	011C	..
FCHDCB	005C	..	FCHORIG	001B	40	FCHSSI	0024	10	FSTTLEN	013C	28
FCHDECB	00C0	..	FCHOVLY	001A	20	FCHTEST	001A	10	SBSREGS	0254	..
FCHEDIT	001B	08									

FCHTAB: FETCH TABLE

FCHTAB contains a fetch/load parameter list that points to a 34-byte directory list. The fetch table is used when a VSE program issues a FETCH or LOAD request without the LIST= parameter. The IJBFTTAB field in the SYSCOM block in the DOSCON CSECT of NUCON points to the fetch table. FCHTAB is invoked via the FCHTAB macro.

0	FCHAPHNM	A*1	FCHALSNM
8	DIRNAME		
10	DIRTTR	A*2	DIRTT DIRLL
18	A*3 /A*4/	DIRPPP	DIREEE
20	DIRRR	A*5	DIRAAA /A*6/
28	DIRVEE		

Size

TOTAL LENGTH (42) IN BYTES (FCHLENG) 2A
 TOTAL LENGTH IN DOUBLEWORDS (FCHLENDW) 06

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FCHAPHNM	4		ADDRESS OF PHASE NAME
4	FCHOPT	1	A*1	OPTIONS
5	FCHALSNM	3		ADDRESS OF LISTNAME

34-BYTE DIRECTORY LIST

8	DIRNAME	8		PHASE NAME
10	DIRTTR	3		PHASE TTR
13	DIRN	1	A*2	NUMBER HALF WORDS IN DIRECTRY
14	DIRTT	2		NUMBER TEXT BLOCKS IN PHASE
16	DIRLL	2		LENGTH LAST TEXT BLOCK
18	DIRC	1	A*3	FLAG BYTE

Bits defined in DIRC

80	SELFREL			PHASE SELF RELOCATABLE
40	RELPHSE			PHASE TO BE RELOCATED
20	SVAELIG			PHASE SVA ELIGIBLE
10	SVAPHSE			PHASE IN SVA
08	PCLPHSE			PHASE IN PRIV C.I.L.
04	PNOTFND			PHASE NOT FOUND
02	DACTIVE			PHASE DIRECTORY ACTIVE
01	NOTEXT			TEXT = NO SPECIFIED
19	DIRT	1	A*4	RESERVED

FCHTAB

FCHTAB

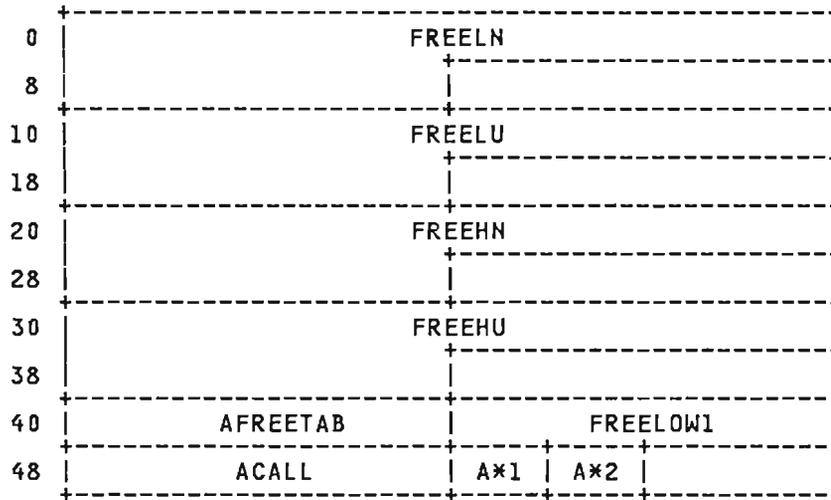
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
1A	DIRPPP	3		PHASE LOAD POINT
1D	DIREEE	3		PHASE ENTRY POINT
20	DIRRR	2		NUMBER RLD ITEMS IN PHASE
22	DIRR	1	A*5	NUMBER ADDITIONAL RLD BLOCKS
23	DIRAAA	3		PARTITION START ADDRESS
26	DIRK	1	A*6	UNUSED
27	DIRVEE	3		PHASE ENTRY POINT IN SVA

CROSS REFERENCE (Name Disp Value)

DACTIVE	0018	02	DIRNAME	0008	..	DIRVEE	0027	..	PCLPHSE	0018	08
DIRAAA	0023	..	DIRPPP	001A	..	FCHALSNM	0005	..	PNOTFND	0018	04
DIRC	0018	..	DIRR	0022	..	FCHAPHNM	0000	..	RELPHSE	0018	40
DIREEE	001D	..	DIRRR	0020	..	FCHLENDW	....	06	SELFREL	0018	80
DIRK	0026	..	DIRT	0019	..	FCHLENG	....	2A	SVAELIG	0018	20
DIRLL	0016	..	DIRTT	0014	..	FCHOPT	0004	..	SVAPHSE	0018	10
DIRN	0013	..	DIRTTR	0010	..	NOTEXT	0018	01			

FRDSECT: FREE CHAIN ELEMENT HEADER BLOCKS

FRDSECT describes the fields used by DMSFRE to reference the four free chain element header blocks. FRDSECT is invoked by the macro DMSFRT. The DMSFRT DSECT is pointed to by a V-constant in DMSFREE, and also by the ADMSFRT field in NUCON.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FREELN	0		LOWCORE NUCLEUS
10	FREELU	0		LOWCORE USER CHAIN
20	FREEHN	0		HIGHCORE NUCLEUS
30	FREEHU	0		HIGHCORE USER CHAIN

THE FOLLOWING SYMBOLIC EQUATES DESCRIBE THE FORMAT OF EACH OF THE FOUR FREE CHAIN ELEMENT HEADER BLOCKS.

00	POINTER	POINT TO FIRST FREE ELEMENT
04	NUM	NUMBER OF ELEMENTS IN CHAIN
08	MAX	MAXIMUM SIZE OF AN ELEMENT
0C	FLAGS	FLAG BYTE
0D	SKEY	STORAGE KEY FOR THIS CHAIN
0E	TCODE	FREETAB TABLE CODE
0F	*UNUSED	
10	BLOCKLEN	SYMBOLIC LENGTH OF BLOCK

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

DEFINITIONS FOR THE 'FLAGS' FLAG BYTE

80	FLCLN			CLEAN-UP FLAG
40	FLCLB			CLOBBERED CHAIN FLAG
20	FLHC			HIGH-CORE FLAG
10	FLNU			NUCLEUS FLAG
08	FLPA			PAGE AVAILABLE ON CHAIN

DEFINITIONS FOR 'SKEY' STORAGE KEY VALUES

F0	NUCKEY			NUCLEUS STORAGE KEY
E0	USERKEY			USER STORAGE KEY

DEFINITIONS FOR 'TCODE' FREETAB TABLE CODE VALUES

05	SYSCODE			SYSTEM PAGE
05	MAXCODE			MAXIMUM POSSIBLE CODE VALUE
04	USARCODE			USER AREA PAGE
03	TRNCODE			TRANSIENT AREA PAGE
02	NUCCODE			NUCLEUS FREE STORAGE PAGE
01	USERCODE			USER FREE STORAGE PAGE
40	AFREETAB	4		ADDRESS OF FREETAB TABLE
44	FREELOW1	4		ORIGINAL VALUE OF FREELOWE (SET BY INIT2)
48	ACALL	4		ADDRESS OF CALLER (FOR ERRORS)
4C	FREEFLG1	0		

Bits defined in FREEFLG1

80	FRF1C			CONDITIONAL REQUEST
40	FRF1V			VARIABLE REQUEST
20	FRF1N			NUCLEUS REQUEST
10	FRF1E			FREE (VS FRET) REQUEST
08	FRF1L			LOW-CORE IS OK
04	FRF1H			HIGH-CORE IS OK
02	FRF1M			MESSAGES WANTED ON ERROR
01	FRF1B			'TYPCALL' EQUALS 'BALR' IN MACRO

THE FOLLOWING BYTE HOLDS FLAGS INTERNAL TO THE DMSFRE ROUTINE.

4D	FREEFLG2	0		
----	----------	---	--	--

Bits defined in FREEFLG2

80	FRF2CL			CLEANUP FLAG
40	FRF2SVP			SCHVPGE FLAG
20	FRF2NOI			2ND INITIALIZATION ROUTINE HAS NOT YET BEEN CALLED
10	FRF2CKE			DO A 'CHECK' EACH TIME FREE OR FRET IS CALLED
08	FRF2CKT			DO A CHECK THIS TIME
04	FRF2CKX			EXECUTING 'CHECK' ROUTINE NOW

| FREE CHAIN ELEMENT DESCRIPTION

|	*POINTER	0		POINTER TO NEXT FREE ELEMENT
|	SIZE	4		SIZE OF THIS ELEMENT IN BYTES

FRDSECT

FRDSECT

CROSS REFERENCE (Name Disp Value)

ACALL	0048	..	FREEHN	0020	..	FRF1N	004C	20	NUCKEY	0030	F0
AFREETAB	0040	..	FREEHU	0030	..	FRF1V	004C	40	NUM	0030	04
BLOCKLEN	0030	10	FREELN	0000	..	FRF2CKE	004D	10	POINTER	0030	00
FLAGS	0030	0C	FREELOW1	0044	..	FRF2CKT	004D	08	SIZE	004D	04
FLCLB	0030	40	FREELU	0010	..	FRF2CKX	004D	04	SKEY	0030	0D
FLCLN	0030	80	FRF1B	004C	01	FRF2CL	004D	80	SYSCODE	0030	05
FLHC	0030	20	FRF1C	004C	80	FRF2NOI	004D	20	TCODE	0030	0E
FLNU	0030	10	FRF1E	004C	10	FRF2SVP	004D	40	TRNCODE	0030	03
FLPA	0030	08	FRF1H	004C	04	MAX	0030	08	USARCODE	0030	04
FREEFLG1	004C	..	FRF1L	004C	08	MAXCODE	0030	05	USERCODE	0030	01
FREEFLG2	004D	..	FRF1M	004C	02	NUCCODE	0030	02	USERKEY	0030	E0

FSCBD: FILE SYSTEM CONTROL BLOCK

FSCBD is a PLIST defined for general use by routines that use the CMS file system. FSCBD is generated when the user invokes the FSCBD macro.

0	FSCBCOMM		
8	FSCBFN		
10	FSCBFT		
18	FFSCBFM	FSCBITNO	FSCBBUFF
20	FSCBSIZE	FSCBFV2	FSCBNOIT
28	FSCBNORD	FSCBAITN	
30	FSCBANIT	FSCBWPTR	
38	FSCBRPTR		

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FSCBCOMM	8		FILE SYSTEM COMMAND (RDBUF,WRBUF,ETC)
8	FSCBFN	8		FILENAME
10	FSCBFT	8		FILETYPE
18	FSCBFM	2		FILEMODE
1A	FSCBITNO	2		RELATIVE RECORD NUMBER TO BE READ/WITTEN
1C	FSCBBUFF	4		ADDRESS OF R/W BUFFER OR OF STATEFST
20	FSCBSIZE	4		LENGTH OF BUFFER
24	FSCBFV	2		RECFM - C'F' OR C'V'
25	FSCBFLG	2		FLAG BYTE
Bits defined in FSCBFLG				
40	FSCBITAV			ITEM AVAILABLE
20	FSCBEPL			EXTENDED PLIST
01	FSCBRCAV			PREVIOUS RECORD NULL
26	FSCBNOIT	2		NUMBER OF RECORDS TO BE READ/WITTEN
28	FSCBNORD	4		NUMBER OF BYTES ACTUALLY READ
2C	FSCBAITN	4		EXTENDED RECORD NUMBER
30	FSCBANIT	4		EXTENDED NUMBER OF RECORDS
34	FSCBWPTR	4		EXTENDED WRITE POINTER
38	FSCBRPTR	4		EXTENDED READ POINTER

CROSS REFERENCE (Name Disp Value)

FSCBAITN	002C	..	FSCBFLG	0025	..	FSCBITAV	0025	40	FSCBRCAV	0025	01
FSCBANIT	0030	..	FSCBFM	0018	..	FSCBITNO	001A	..	FSCBRPTR	0038	..
FSCBBUFF	001C	..	FSCBFN	0008	..	FSCBNOIT	0026	..	FSCBSIZE	0020	..
FSCBCOMM	0000	..	FSCBFT	0010	..	FSCBNORD	0028	..	FSCBWPTR	0034	..
FSCBEPL	0025	20	FSCBFV	0024	..						

FSTD: FILE STATUS TABLE ENTRY DSECT

FSTD describes the fields in a 40-byte file status table entry as found by STATE, STATEW, DMSLF or DMSLFSW. FSTD is functionally equivalent to the FSTSECT DSECT.

0	FSTFNAME				
8	FSTFTYPE				
10	FSTDATEW	FSTTIMEW	FSTWRPNT	FSTRDPNT	
18	FSTFMODE	FSTRECCT	FSTFCLPT	F*1	F*2
20	FSTLRECL		FSTBLKCT	FSTYEARW	
28	FSTFOP		FSTADBC		
30	FSTAIC		NLVL	PTRSZ	FSTADATI
38	FSTADATI (CONT.)				

Size

FST SIZE IN BYTES (FSTDSIZE) 40

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FSTFNAME	8		FILE NAME
8	FSTFTYPE	8		FILE TYPE
10	FSTDATEW	2		DATE LAST WRITTEN - MMDD
12	FSTTIMEW	2		TIME LAST WRITTEN - HHMM
14	FSTWRPNT	2		WRITE POINTER - ITEM NUMBER
16	FSTRDPNT	2		READ POINTER - ITEM NUMBER
18	FSTFMODE	2		FILE MODE - LETTER AND NUMBER
1A	FSTRECCT	2		NUMBER OF LOGICAL RECORDS
1C	FSTFCLPT	2		FIRST CHAIN LINK POINTER
1E	FSTRECFM	1	F*1	RECORD FORMAT - F OR V

Disp Name Len Key Description

1F FSTFLAGS 1 F*2 FST FLAG BYTE

Bits defined in FSTFLAGS

00	FSTRODSK		READ/ONLY DISK
C0	FSTXWDSK		EXTENSION OF R/W DISK
80	FSTRWDSK		READ/WRITE DISK
40	FSTXRDSK		EXTENSION OF R/O DISK
40	FSTDIA		ITEM AVAILABLE
20	FSTEPL		EXTENDED PLIST
07	FSTFILEA		THE FILE IS ACTIVE
04	FSTACTRD		ACTIVE FOR READING
02	FSTACTWR		ACTIVE FOR WRITING
01	FSTDRA		PREVIOUS RECORD NULL
01	FSTACTPT		ACTIVE FROM A POINT
20	FSTLRECL	4	LOGICAL RECORD LENGTH
24	FSTBLKCT	2	NUMBER OF 800 BYTE BLOCKS
26	FSTYEARW	2	YEAR LAST WRITTEN
28	FSTFOP	4	ALTERNATE FILE ORIGIN POINTER
2C	FSTADBC	4	ALTERNATE NUMBER OF DATA BLOCKS
30	FSTAIC	4	ALTERNATE ITEM COUNT
34	FSTNLVL	1	NUMBER OF POINTER BLOCK LEVELS
35	FSTPTRSZ	1	LENGTH OF A POINTER ELEMENT
36	FSTADATI	6	ALTERNATE DATE/TIME(YY MM DD HH MM SS)

CROSS REFERENCE (Name Disp Value)

FSTACTPT 001F 01	FSTDIA 001F 40	FSTFNAME 0000 ..	FSTRECFM 001E ..
FSTACTRD 001F 04	FSTDRA 001F 01	FSTFOP 0028 ..	FSTRODSK 001F 00
FSTACTWR 001F 02	FSTDSIZE 40	FSTFTYPE 0008 ..	FSTRWDSK 001F 80
FSTADATI 0036 ..	FSTEPL 001F 20	FSTLRECL 0020 ..	FSTTIMEW 0012 ..
FSTADBC 002C ..	FSTFCLPT 001C ..	FSTNLVL 0034 ..	FSTWRPNT 0014 ..
FSTAIC 0030 ..	FSTFILEA 001F 07	FSTPTRSZ 0035 ..	FSTXRDSK 001F 40
FSTBLKCT 0024 ..	FSTFLAGS 001F ..	FSTRDPNT 0016 ..	FSTXWDSK 001F C0
FSTDATEW 0010 ..	FSTFMODE 0018 ..	FSTRECCT 001A ..	FSTYEARW 0026 ..

FSTSECT: FILE STATUS TABLE

FSTSECT defines the file status table (FST) which describes the attributes of a file on a CMS virtual disk. FSTSECT is invoked by the macro FSTB.

The file status tables for all files on the disk are grouped into 800-byte disk records referred to as file status table blocks (FSTBs). Each file status table block can accommodate up to 20 file status tables.

0	FSTN				
8	FSTT				
10	FSTD	FSTWP	FSTRP		
18	FSTM	FSTIC	FSTFCL	F*1	F*2
20	FSTIL	FSTDBC	FSTYR		
28	FSTFOP	FSTADBC			
30	FSTAIC	F*3	F*4	FSTADATI	
38	continue				

Size

LENGTH OF AN EDF FST. (FSTL2) 40
 LENGTH OF FSTSECT IS (FSTL) 28

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	FSTN	8		FILE NAME
8	FSTT	8		FILE TYPE
10	FSTD	4		DATE/TIME LAST WRITTEN
14	FSTWP	2		WRITE POINTER (ITEM #)
16	FSTRP	2		READ POINTER (ITEM #)
18	FSTM	2		FILE MODE
1A	FSTIC	2		ITEM COUNT
1C	FSTFCL	2		FIRST CHAIN LINK
1E	FSTFV	1	F*1	FIXED(F)/VARIABLE(V) FLAG
1F	FSTFB	1	F*2	FLAG BYTE (IF USED)
Bits defined in FSTFB				
00	FSTFRO			READ-ONLY DISK
C0	FSTFRWX			READ-ONLY EXTENSION OF READ-ONLY DISK
80	FSTFRW			READ-WRITE DISK
40	FSTFROX			READ-ONLY EXTENSION OF READ-WRITE DISK

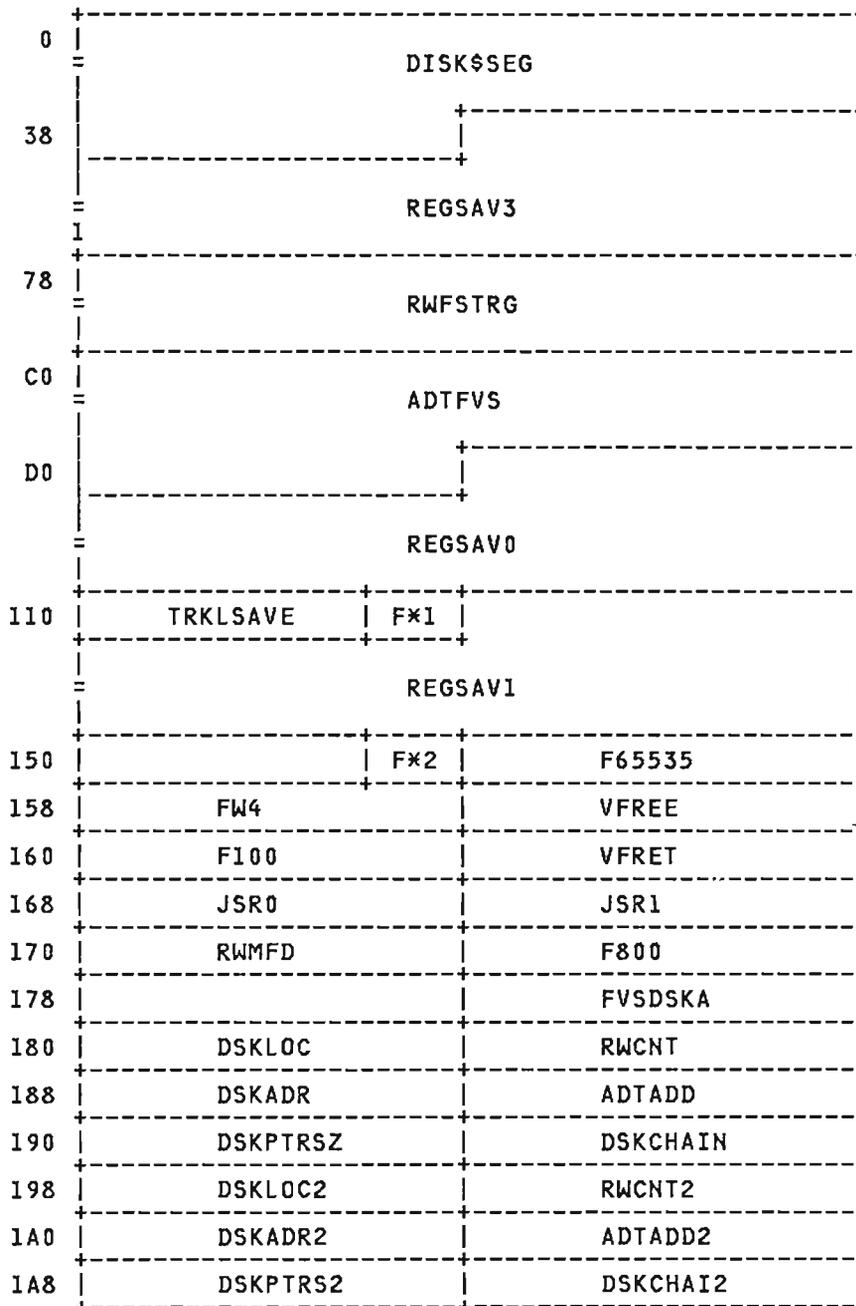
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
40	FSTITAV			ITEM AVAILABLE
20	FSTEPL			EXTENDED PLIST
07	FSTFACT			FILE "ACTIVE" - ONE OF THE FOLLOWING:
04	FSTFAR			FILE ACTIVE FOR READING
02	FSTFAW			FILE ACTIVE FOR WRITING
01	FSTFAP			FILE ACTIVE FROM A "POINT"
01	FSTRECAV			PREVIOUS RECORD NULL
20	FSTIL	4		(MAXIMUM) ITEM LENGTH
20	FSTFWD	4		FORWARD POINTER (TO NEXT HYPERBLOCK IN CORE)
24	FSTDBC	2		NUMBER OF DATA BLOCKS
24	FSTBKWD	2		BACKWARD POINTER (TO PREVIOUS HYPERBLK IN CORE)
26	FSTYR	2		YEAR
28	FSTFOP	4		ALTERNATE FILE ORIGIN POINTER
2C	FSTADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
30	FSTAIC	4		ALTERNATE ITEM COUNT
34	FSTNLVL	1	F*3	NUMBER OF POINTER BLOCK LEVELS
35	FSTPTRSZ	1	F*4	LENGTH OF A POINTER ELEMENT
36	FSTADATI	6		ALTERNATE DATE/TIME(YY MM DD HH MM SS)

CROSS REFERENCE (Name Disp Value)

FSTADATI	0036	..	FSTFAR	001F	04	FSTFV	001E	..	FSTN	0000	..
FSTADBC	002C	..	FSTFAW	001F	02	FSTFWD	0020	..	FSTNLVL	0034	..
FSTAIC	0030	..	FSTFB	001F	..	FSTIC	001A	..	FSTPTRSZ	0035	..
FSTBKWD	0024	..	FSTFCL	001C	..	FSTIL	0020	..	FSTRECAV	001F	01
FSTD	0010	..	FSTFOP	0028	..	FSTITAV	001F	40	FSTRP	0016	..
FSTDBC	0024	..	FSTFRO	001F	00	FSTL	0000	28	FSTT	0008	..
FSTEPL	001F	20	FSTFROX	001F	40	FSTL2	0000	40	FSTWP	0014	..
FSTFACT	001F	07	FSTFRW	001F	80	FSTM	0018	..	FSTYR	0026	..
FSTFAP	001F	01	FSTFRWX	001F	C0						

FVSECT: FIXED VARIABLE STORAGE WORK AREA FOR CMS FILE SYSTEM

FVSECT is used mainly by file management and I/O routines. FVS contains save areas, work areas, and commonly used constants. A typical use of FVS is when a reentrant I/O routine requires a work area or save area, since the routine cannot modify itself. FVSECT is invoked by the FVS macro.



1B0	FINISLST						
1C8	FFF		FFE		FFD		
1D0	SIGNAL	F*3	F*4	F*5	F*6	F*7	F*8
1D8	FVSERAS0			FVSERAS1			
1E0	FVSERAS2			FVSERAS3			
1E8	FVSERAS4			FVSERAS5			
1F0	READCNT			FVSERAS6			
1F8	FVSFSTN						
200	FVSFSTT						
208	FVSFSTDT			FVSFSTWP		FVSFSTRP	
210	FVSFSTM	FVSFSTIC		FVSFSTCL		F*9	F*10
218	FVSFSTIL			FVSFSTDB		FVSFSTYR	
220	FVSFSTAD			FVSFSTAC			
228	FVSFSTHP						
230	FVSN						
238	FVST						
240	FVSD			FVSWP		FVSRP	
248	FVSM	FVSIC		FVSFCL		F*11	F*12
250	FVSIL			FVSDBC		FVSYR	
258	FVSFOP			FVSADBC			
260	FVSAIC			F*13	F*14	FVSADATI	
268	FVSADATI (cont'd)						
270	FVSDIOPL						
2E8	FVS16MOD						
328	FVSPATCH						
330	Patch area						

<u>Size</u>				
LENGTH OF SHORT FST (FVSL1) 28				
LENGTH OF AN EDF FST (FVSL2) 40				
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DISK\$SEG	60		(1) FOR FSTLKP, FSTLKW, ACTLKP, TRKLKP, QQTRK
3C	REGSAV3	60		(2) FOR RDBUF, WRBUF, FINIS, STATE, POINT
78	RWFSTRG	72		(3) REMAINING STORAGE FOR RDBUF, WRBUF, FINIS
C0	ADTFVS	20		ADTLKP
SAVE AREA FOR LOWEST LEVEL ROUTINES (READMFD, RELUFD, UPDISK, TYPsrch, ADTLKW)				
D4	REGSAV0	60		(1) SAVED R0-R15
D4	TRKLSAVE	0		FOR TRKLKP/X ONLY WHEN CALLED BY QQTRK/X
		3		FIRST 3 BYTES OF RETURN-CODE
113	ERRCOD0	1 F*1		(3) ERROR-CODE GOES HERE
SAVE AREA FOR NEXT-TO-LOWEST LEVEL ROUTINES (READFST, ERASE, ALTER, INTSVC-LOADM)				
114	REGSAV1	60		(1)
		3		FIRST 3 BYTES OF RETURN CODE
153	ERRCOD1	1 F*2		(3)
154	F65535	4		= X'0000FFFF'
158	FW4	4		
15A	HW4			FW4+2
15C	VFREE	4		(1)
160	F100	4		(2)
164	VFRET	4		(INTO R15)
168	JSR0	4		R0 AND ...
16C	JSR1	4		R1 SAVED HERE FOR FRET CALLS
PARAMETER LIST TO READ/WRITE MFD				
170	RWMFD	4		CORE-ADDRESS
174	F800	4		800 BYTES
17C	FVSDSKA	4		ADDRESS OF ACTIVE-DISK-TABLE
180	DSKLST	0		ALL-PURPOSE RDTK/WRTK P-LIST...
180	DSKLOC	4		CORE LOCATION OF ITEM
184	RWCNT	4		BYTE-COUNT (USUALLY 800)

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
188	DSKADR	4		DISK ADDRESS OF ITEM
	Bits defined in DSKADR			
80	FWADDR			THE HIGH BIT OF DSKADDR INDICATES EXTENDED DIO PLIST (FULLWORD DISK ADDRESS, POINTER SIZE AND PLIST CHAIN POI
18C	ADTADD	4		ADDRESS OF CORRECT ACTIVE-DISK-TABLE
190	DSKPTRSZ	4		DISK POINTER SIZE IF FULLWORD ADDRESS
194	DSKCHAIN	4		PLIST CHAIN POINTER
198	DSKLST2	4		ALL-PURPOSE RDTK/WRTK P-LIST
198	DSKLOC2	0		CORE LOCATION OF ITEM
19C	RWCNT2	4		BYTE-COUNT
1A0	DSKADR2	4		DISK ADDRESS OF ITEM
1A4	ADTADD2	4		ADDRESS OF ADT (NOT USED IN CHAINED PLIST)
1A8	DSKPTRS2	4		DISK POINTER SIZE IF FULLWORD ADDRESS
1AC	DSKCHAI2	4		PLIST CHAIN POINTER
1B0	FINISLST	26		P-LIST TO CLOSE ALL FILES
1CA	FFF	2		MEANS NO SIGNIFICANT DATA PAST 215TH BYTE
1CC	FFE	2		1968-ERA MFD STILL SUPPORTED ON INPUT ONLY
1CE	FFD	2		NEWEST SIGNAL FOR FULL 2314 HANDLING
	SIGNAL = SCRATCH HALFWORD USED BY READMFD OR ERASE			
1D0	SIGNAL	2		= 0000, X'FFFF', X'FFFE', OR X'FFFD'
1D1	SWTCH	1		00, FF, FE, OR FD
1D2	UFDBUSY	1 F*3		NONZERO MEANS 'UFD IS BUSY BEING UPDATED'
	Bits defined in UFDBUSY			
80	WRBIT			WRBUF
40	UPBIT			UPDISK - READMFD
20	FNBIT			FINIS
10	ERBIT			ERASE - ALTER - READFST
08	DIOBIT			RDTK/WRTK
The following bits are for routines that do not update the disk, but can not be interrupted by a KX anyway.				
02	ABNBIT			DMSABN -- ABEND RECOVERY ROUTINE
01	ITSBIT			DMSITS -- SVC HANDLING ROUTINE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
1D3	KXFLAG	1	F*4	'KX' FLAGS
	Bits defined in KXFLAG			
80	KXWANT			KX WANTED ASAP
01	KXWSVC			HOLD KX UNTIL ANY SVC ACTIVITY
1D4	FVSFLG0	1	F*5	FLAG FOR GENERAL COMMUNICATION
	Bits defined in FVSFLG0			
80	FVSUFSTC			DISK/TAPE DUMP - DMSBRD TO USE FVS FST COPY TO BUILD AFT
1D5	FLGSAVE	1	F*6	FOR SCRATCH USE (E.G. BY RELUFD)
1D6	FVSFLAG	1	F*7	(FOR GENERAL USE - AS NEEDED)
	MISCELLANEOUS STORAGE USED BY ERASE (OR ALTER)			
1D7	ERSFLAG	1	F*8	FLAG FOR USE BY ERASE OR ALTER
1D8	FVSERAS0	4		(1) - R0 TO/FROM FSTLKW (FOR ERASE)
1DC	FVSERAS1	4		(2) - R1 TO ACTLKP OR FSTLKW (FOR ERASE)
1E0	FVSERAS2	4		(3) ADDRESS OF FREE STORAGE USED BY ERASE
1E4	FVSERAS3	4		POINTERS PER BLOCK IN FILE BEING ERASED
1E8	FVSERAS4	4		POINTER SIZE OF FILE BEING ERASED
1EC	FVSERAS5	4		HBLK ADDRESS OF FILE BEING ERASED
1F0	READCNT	4		CURRENT READ COUNT (DMSBRD)
1F4	FVSERAS6	4		AFT ADDRESS OF FILE BEING ERASED
	FILE STATUS TABLE (FST) COPY FROM 'STATE'			
1F8	STATEFST	0		FST OF 'STATED' FILE
	CDF FST COPY (40 BYTES)			
1F8	FVSFSTN	8		FILENAME -0
200	FVSFSTT	8		FILETYPE -8
208	FVSFSTD	4		DATE/TIME LAST WRITTEN -16,18
20C	FVSFSTWP	2		WRITE POINTER (ITEM ID) -20
20E	FVSFSTRP	2		READ POINTER (ITEM ID) -22
210	FVSFSTM	2		FILEMODE -24
212	FVSFSTIC	2		N'ITEMS IN FILE -26
214	FVSFSTCL	2		DA(FIRST CHAIN LINK) -28

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 216	FVSFSTFV	1	F*9	FIXED(F) / VARIABLE(V) INDICATOR -30
| 217	FVSFSTFB	1	F*10	FLAG BYTE -31
| 218	FVSFSTIL	4		L'ITEMS -32
| 21C	FVSFSTDB	2		N'DATA BLOCKS -36
| 21E	FVSFSTYR	2		YEAR LAST WRITTEN -38
POINTERS ASSOCIATED WITH BOTH FST VERSIONS				
| 220	FVSFSTAD	4		A(ADT FOR THIS FILE)
| 220	STATER0	4		
| 224	FVSFSTAC	4		A(REAL FST ENTRY FOR THIS FILE)
| 224	STATER1	4		
| 228	FVSFSTHP	4		A(HBLK HOLDING THIS FST)
EDF FST COPY AREA (64 BYTES)				
| 230	STATFST2	0		EDF FORMAT FST COPY
FILE STATUS TABLE (FILE DIRECTORY) BLOCK				
| 230	FVSN	8		FILE NAME
| 238	FVST	8		FILE TYPE
| 240	FVSD	4		DATE/TIME LAST WRITTEN
| 244	FVSWP	2		WRITE POINTER (ITEM #)
| 246	FVSRP	2		READ POINTER (ITEM #)
| 248	FVSM	2		FILE MODE
| 24A	FVSIC	2		ITEM COUNT
| 24C	FVSFCL	2		FIRST CHAIN LINK
| 24E	FVSFV	1	F*11	FIXED(F)/VARIABLE(V) FLAG
| 24F	FVSFB	1	F*12	FLAG BYTE (IF USED)
Bits defined in FVSFB				
(Applicable only to 'STATEFST' copy of FST-entry after successful 'STATE' or 'STATEW' call)				
C0	FVSFRWX			READ-ONLY EXTENSION OF READ-ONLY DISK
80	FVSFRW			READ-WRITE DISK
40	FVSFROX			READ-ONLY EXTENSION OF READ-WRITE DISK
07	FVSFACT			FILE "ACTIVE" - ONE OF THE FOLLOWING:
04	FVSFAR			FILE ACTIVE FOR READING
02	FVSFAW			FILE ACTIVE FOR WRITING
01	FVSFAP			FILE ACTIVE FROM A "POINT"
00	FVSFRO			READ-ONLY DISK

Disp Name Len Key Description

Applicable to F5CBFLG in plist				
40	FVSITAV			ITEM AVAILABLE
20	FVSEPL			EXTENDED PLIST
01	FVSRECAV			PREVIOUS RECORD NULL
250	FVSIL	4		(MAXIMUM) ITEM LENGTH
254	FVSDBC	2		NUMBER OF DATA BLOCKS
256	FVSYR	2		YEAR
FSTEDF EXTENSION				
258	FVSFOP	4		ALTERNATE FILE ORIGIN POINTER
25C	FVSADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
260	FVSAIC	4		ALTERNATE ITEM COUNT
264	FVSNLVL	1	F*13	NUMBER OF POINTER BLOCK LEVELS
265	FVSPTRSZ	1	F*14	LENGTH OF A POINTER ELEMENT
266	FVSADATI	6		ALTERNATE DATE/TIME(YY MM DD HH MM SS)
26C		4		RESERVED
FST HYPER-BLOCK PARAMETERS				
	FVSBKWD			BACKWARD POINTER (TO PREVIOUS HYPERBLK IN CORE)
	FVSFWDP			FORWARD POINTER (TO NEXT HYPERBLOCK IN CORE)
	FVSELMNT			NUMBER OF FVS DIO PLISTS IN MULTI-ELEMENT CHAINED PLIST
	FVSELMNL			LENGTH OF A DIO PLIST ELEMENT
270	FVSDIOPL	120		DIO MULTI-ELEMENT PLIST
2E8	FVS16MOS	64		USED BY DMSMOD TO LOAD TRANSIENT UP TO 16 DISK ADDRESS AND SAVED HERE
328	FVSPATCH	0		PATCH AREA FOR CMS NUCLEUS
328		8		EYE CATCHER
330		80		PATCH AREA

<u>CROSS REFERENCE</u> (Name Disp Value)			
ABNBIT	01D2	02	
ADTADD	018C	..	
ADTADD2	01A4	..	
ADTFVS	00C0	..	
DIOBIT	01D2	08	
DISK\$SEG	0000	..	
DSKADR	0188	..	
DSKADR2	01A0	..	
DSKCHAIN	0194	..	
DSKCHAI2	01AC	..	
DSKL0C	0180	..	
DSKL0C2	0198	..	
DSKLST	0180	..	
DSKLST2	0198	..	
DSKPTRSZ	0190	..	
DSKPTR2	01A8	..	
ERBIT	01D2	10	
ERRCOD0	0113	..	
ERRCOD1	0153	..	
ERSFLAG	01D7	..	
FFD	01CE	..	
FFE	01CC	..	
FFF	01CA	..	
FINISLST	01B0	..	
FLGSAVE	01D5	..	
FNBIT	01D2	20	
FVSADATI	0266	..	
FVSADBC	025C	..	
FVSAIC	0260	..	
FVSBKWD	0320	..	
FVSD	0240	..	
FVSDBC	0254	..	
FVSDIOPL	0270	..	
FVSDSKA	017C	..	
FVSELMNL	0326	..	
FVSELMNT	0325	..	
FVSEPL	024F	20	
FVSERAS0	01D8	..	
FVSERAS1	01DC	..	
FVSERAS2	01E0	..	
FVSERAS3	01E4	..	
FVSERAS4	01E8	..	
FVSERAS5	01EC	..	
FVSFACT	024F	07	
FVSFAP	024F	01	
FVSFAR	024F	04	
FVSFAW	024F	02	
FVSFB	024F	..	
FVSFCL	024C	..	
FVSFLAG	01D6	..	
FVSFLG0	01D4	..	
FVSFOP	0258	..	
FVSFRO	024F	..	
FVSFROX	024F	40	
FVSFRW	024F	80	
FVSFRWX	024F	C0	
FVSFSTAC	0224	..	
FVSFSTAD	0220	..	
FVSFSTCL	0214	..	
FVSFSTDB	021C	..	
FVSFSTDT	0208	..	
FVSFSTFB	0217	..	
FVSFSTFV	0216	..	
FVSFSTHP	0228	..	
FVSFSTIC	0212	..	
FVSFSTIL	0218	..	
FVSFSTM	0210	..	
FVSFSTN	01F8	..	
FVSFSTRP	020E	..	
FVSFSTT	0200	..	
FVSFSTWP	020C	..	
FVSFSTYR	021E	..	
FVSFV	024E	..	
FVSFWDP	0320	..	
FVSIC	024A	..	
FVSIL	0250	..	
FVSITAV	024F	40	
FVSL	0000	28	
FVSL1	0000	28	
FVSL2	0000	40	
FVSM	0248	..	
FVSN	0230	..	
FVSNLVL	0264	..	
FVSPATCH	02E8	..	
FVSPTRSZ	0265	..	
FVSRECAV	024F	01	
FVSRP	0246	..	
FVST	0238	..	
FVSUFSTC	01D4	80	
FVSWP	0244	..	
FVSYR	0256	..	
FWADDR	0188	80	
FW4	0158	..	
F100	0160	..	
F65535	0154	..	
F800	0174	..	
HW4	015A	..	
ITSBIT	01D2	01	
JSR0	0168	..	
JSR1	016C	..	
KXFLAG	01D3	..	
KXWANT	01D3	80	
KXWSVC	01D3	01	
READCNT	01F0	..	
REGSAV0	00D4	..	
REGSAV1	0114	..	
REGSAV3	003C	..	
RWCNT	0184	..	
RWCNT2	019C	..	
RWFSTRG	0078	..	
RWMFD	0170	..	
SIGNAL	01D0	..	
STATEFST	01F8	..	
STATER0	0220	..	
STATER1	0224	..	
STATFST2	0230	..	
SWTCH	01D1	..	
TRKLSAVE	00D4	..	
UFDBUSY	01D2	..	
UPBIT	01D2	40	
VFREE	015C	..	
VFRET	0164	..	
WRBIT	01D2	80	

IHADECB: DATA EVENT CONTROL BLOCK

IHADECB, which is invoked via the CMSCB macro, is the simulated data event control block used for CMS processing of OS macros and OS access methods. The IOBECBPT field in FCBSECT points to IHADECB.

0	DECSDECB	DECTYPE	DECLNGTH
8	DECDCBAD	DECAREA	
10	DECIOBPT	DECKYADR	
18	DECRECPT		

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DECSDECB	4		EVENT CONTROL BLOCK
4	DECTYPE	2		TYPE OF I/O REQUEST
Bits defined in DECTYPE				
80	DECBRD			READ SF
20	DECBWR			WRITE SF
6	DECLNGTH	2		LENGTH OF KEY & DATA
8	DECDCBAD	4		V(DATA CONTROL BLOCK)
C	DECAREA	4		V(KEY & DATA, BUFFER)
10	DECIOBPT	4		V(IOB)
BDAM EXTENSION				
14	DECKYADR	4		V(KEY)
18	DECRECPT	4		V(BLOCK REFERENCE FIELD)

SOME FREQUENTLY USED EQUATES

C0	UND	RECFM = UNDEFINED FORMAT RECORDS
80	PREVIOUS	OFLGS = PREVIOUS I/O OPERATION
80	IS	DSORG = INDEXED SEQUENTIAL
80	FXD	RECFM = FIXED LENGTH RECORDS
40	VAR	RECFM = VARIABLE LENGTH RECORDS
40	QS	MACRF = QSAM
40	PS	DSORG = PHYSICAL SEQUENTIAL
20	DA	DSORG = DIRECT ACCESS
20	BS	MACRF = BSAM
20	DDNAM	FILETYPE = DATA SET NAME
10	MOV	MACRF = MOVE MODE
10	BLK	RECFM = BLOCKED RECORDS
08	LOC	MACRF = LOCATE MODE
03	POU	DSORG = PARTITIONED UNMOVEABLE
02	PO	DSORG = PARTITIONED ORGANIZATION

<u>CROSS REFERENCE</u> (Name Disp Value)					
BLK	0000	10	DECDCBAD	0008	..
BS	0000	20	DECIOBPT	0010	..
DA	0000	20	DECKYADR	0014	..
DDNAM	0000	20	DECLNGTH	0006	..
DECAREA	000C	..	DECRECPT	0018	..
DECBRD	0004	80	DECSDEC	0000	..
DECBWR	0004	20			
			DECTYPE	0004	..
			FXD	0000	80
			IS	0000	80
			LOC	0000	08
			MOV	0000	10
			PO	0000	02
			POU	0000	03
			PREVIOUS	0000	80
			PS	0000	40
			QS	0000	40
			UND	0000	C0
			VAR	0000	40

IJJHCPL: COMMON VTOC HANDLER PARAMETER LIST

IJJHCPL describes the fields within the common VTOC handler input parameter list and is used in the CMS/DOS environment. IJJHCPL is invoked by the IJJHCPL macro.

0	C*1	C*2	C*3	///	CVHDLIST
8		CVHVOLID			CVHSYSNO
10		CVHWRKA			CVHRETA

Size

IJJHCPL LENGTH IN BYTES (CPLLEN) 18

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

0	CVHFLAGS	0		PROCESSING INDICATORS
---	----------	---	--	-----------------------

0	CVHFLG1	1	C*1	
---	---------	---	-----	--

Bits defined in CVHFLG1

80	CVHOPEN			OPEN VTOC
40	CVHCLOSE			CLOSE VTOC
20	CVHRF4			READ F4 LABEL
10	CVHRF1			READ F1 LABEL
08	CVHRADR			READ BY ADDRESS
04	CVHRNEXT			READ NEXT
02	CVHRVOL1			READ VOL1 LABEL

1	CVHFLG2	1	C*2	
---	---------	---	-----	--

Bits defined in CVHFLG2

80	CVHWADR			WRITE BY ADDRESS
40	CVHWANY			WRITE IN ANY SLOT
20	CVHCOV			CHECK FOR OVERLAPS
10	CVHSCR			SCRATCH LABEL
08	CVHREN			RENAME LABEL
04	CVHCOVBP			BYPASS COV ON WRITE
02	CVHSCRBP			BYPASS SCRATCH ON COV
01	CVHPRTBP			SCR/REN EVEN IF PROTECTED

2	CVHFLG3	1	C*3	
---	---------	---	-----	--

Bits defined in CVHFLG3

80	CVHSHROP			SHARE OPTION
40	CVHIRIOE			IRRECOVERABLE I/O ERROR OPTION
04	CVHWORK			WORK AREA

4	CVHDLIST	4		ADDRESS OF DLIST
---	----------	---	--	------------------

8	CVHIOA	4		ADDRESS OF I/O AREA
---	--------	---	--	---------------------

8	CVHVOLID	4		ADDRESS OF VOLID (OPEN)
---	----------	---	--	-------------------------

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| C	CVHWORK2	4		WORKAREA
| C	CVHNAME	4		ADDRESS OF LABEL NAME
| C	CVHSYSNO	4		ADDRESS OF SYSNO (OPEN)
| 10	CVHNEW	4		ADDRESS OF NEW NAME
| 10	CVHWRKA	4		ADDRESS OF WORKAREA (OPEN)
| 14	CVHRETA	4		ADDRESS OF RETURN AREA

<u>CROSS REFERENCE</u> (Name Disp Value)									
CPLLEN	0000	18	CVHFLG3 0002 ..	CVHREN	0001	08	CVHSHROP	0002	80
CVHCLOSE	0000	40	CVHIOA 0008 ..	CVHRETA	0014	..	CVHSYSNO	000C	..
CVHCOV	0001	20	CVHIRIOE 0002 40	CVHRF1	0000	10	CVHVOLID	0008	..
CVHCOVBP	0001	04	CVHNAME 000C ..	CVHRF4	0000	20	CVHWADR	0001	80
CVHDLIST	0004	..	CVHNEW 0010 ..	CVHRNEXT	0000	04	CVHWANY	0001	40
CVHFLAGS	0000	..	CVHOPEN 0000 80	CVHRVOL1	0000	02	CVHWORK	0003	04
CVHFLG1	0000	..	CVHPRTBP 0001 01	CVHSCR	0001	10	CVHWORK2	000C	..
CVHFLG2	0001	..	CVHRADR 0000 08	CVHSCRBP	0001	02	CVHWRKA	0010	..

IJJHDLST: VOLUME DESCRIPTOR LIST

IJJHDLST describes the fields within the common VTOC handler descriptor list and is used in the CMS/DOS environment. IJJHDLST is invoked by the IJJHDLST macro.

0	D*1	///	DLVOLID	
8	D*2	D*3	///	D*4
10	DLVEND		DLWRKA	
18	DLDEVCAP		DLVCISZ	
20	DLCVHADR		DLBTRK	
28	DLCIARA			

Size

IJJHDLST LENGTH IN DOUBLEWORDS (DLSTDWDS) 06
 IJJHDLST LENGTH IN BYTES (DLLEN) 30

Disp Name Len Key Description

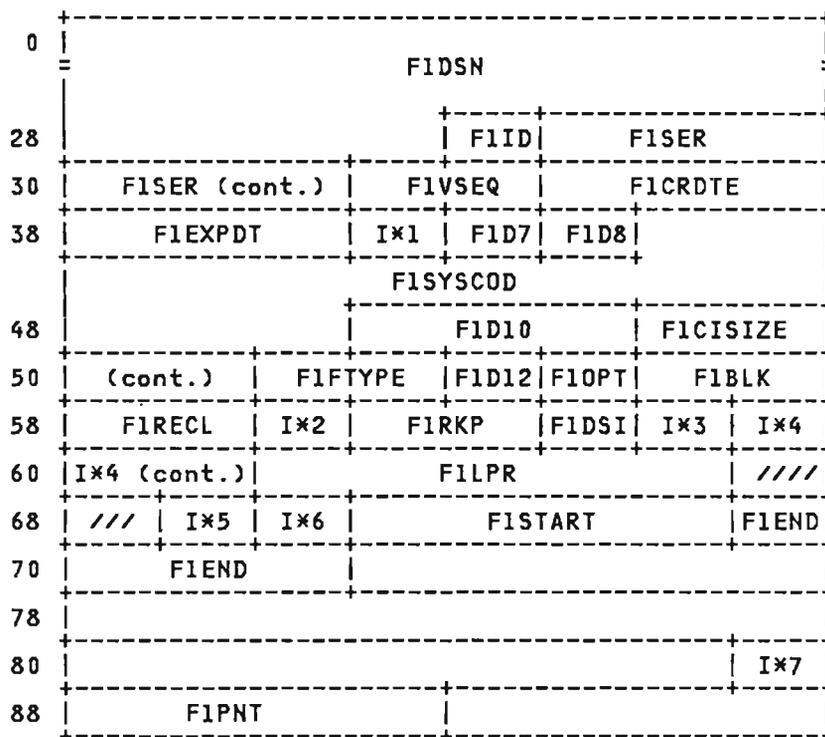
0	DLFLAGS	1	D*1	PROCESSING FLAGS
Bits defined in DLFLAGS				
80	DLSHROPT			SHARE OPTION EXCLUSIVE
40	DLDEVFBA			FBA DEVICE
20	DLDLGOT			DLIST GETVISED BY CVH
10	DLWAGOT			WORKAREA GETVISED BY CVH
08	DLOPENED			VTOC WAS OPENED
04	DLF4DONE			F4 BITS PROCESSED
02	DLIRIOER			ACCEPT IRRECOVERABLE I/O ERROR
2	DLVOLID	6		VOLUME SERIAL NUMBER
8	DLSYSNO	2		SYSTEM LOGICAL UNIT NUMBER
8	DLSYSNO1	1	D*2	FIRST BYTE OF SYS-NUMBER
9	DLSYSNO2	1	D*3	SECOND BYTE OF SYS-NUMBER
B	DLVSTART	5		VTOC START ADDRESS (CKD)
B	DLBLKCI	1	D*4	BLOCKS PER CI (FBA)
C	DLVSTRTB	4		PBN OF VTOC START (FBA)
10	DLVEND	4		VTOC END ADDRESS
14	DLWRKA	4		WORKAREA ADDRESS
18	DLDEVCAP	4		DEVICE CAPACITY
1C	DLVCISZ	4		VTOC CI SIZE (FBA)
20	DLCVHADR	4		ADDRESS OF CVH TOP MODULE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
24	DLBTRK	4		BLOCKS PER TRACK FOR FBA
28	DLCIAREA	4		ADDRESS OF FBA CI AREA

<u>CROSS REFERENCE (Name Disp Value)</u>														
DLBLKCI	000B	..		DLDLGOT	0000	20		DLSHROPT	0000	80		DLVEND	0010	..
DLBTRK	0024	..		DLFLAGS	0000	..		DLSTDWDS	....	06		DLVOLID	0002	..
DLCIAREA	0028	..		DLF4DONE	0000	04		DLSYSNO	0008	..		DLVSTART	000B	..
DLCVHADR	0020	..		DLIRIOER	0000	02		DLSYSNO1	0008	..		DLVSTRTB	000C	..
DLDEVCAP	0018	..		DLEN	....	30		DLSYSNO2	0009	..		DLWAGOT	0000	10
DLDEVFBA	0000	40		DLOPENED	0000	08		DLVCISZ	001C	..		DLWRKA	0014	..

IJJHFMT1: FORMAT 1 LABEL

IJJHFMT1 describes the fields within the Format 1 VTOC label and is used in the CMS/DOS environment. IJJHFMT1 is invoked by the IJJHFMT1 macro.



Size

IJJHFMT1 LENGTH IN DOUBLEWORDS (F1DWDS) 12
 IJJHFMT1 LENGTH IN BYTES (F1LEN) 90

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	F1DSN	44		FILE ID
2C	F1ID	1		FORMAT1 ID - X'F1'
2D	F1SER	6		FILE SERIAL NUMBER
33	F1VSEQ	2		VOLUME SEQUENCE NUMBER
35	F1CRDTE	3		FILE CREATION DATE (YDD)
38	F1EXPDT	3		FILE EXPIRATION DATE (YDD)
3B	F1EXCNT	1	I*1	NUM EXTENTS FOR FILE ON VOLUME
3C	F1D7	1		UNUSED BY DOS/VS (X'40')
3D	F1D8	1		RESERVED (X'40')

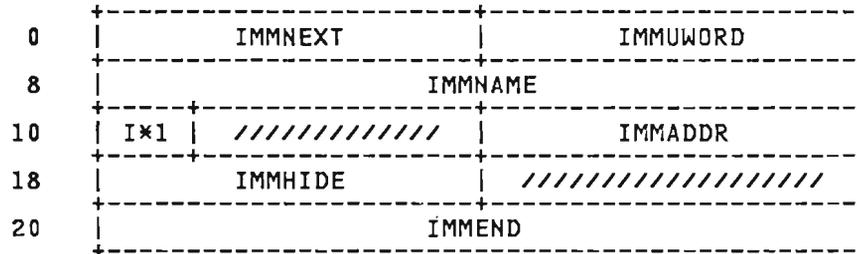
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 3E	F1SYSCOD	13		DOS/370 VER 4
| 4B	F1D10	3		RESERVED (X'40')
| 4E	F1CISIZE	4		CONTROL INTERVAL SIZE (FBA)
| 52	F1FTYPE	2		TYPE OF FILE ORGANIZATION
| 54	F1D12	1		UNUSED BY DOS/V5 (X'00')
| 55	F1OPT	1		ISAM OPTION CODES
| 56	F1BLK	2		ISAM BLOCK LENGTH
| 58	F1RECL	2		ISAM LRECL
| 5A	F1KEYL	1 I*2		ISAM KEY LENGTH
| 5B	F1RKP	2		ISAM KEY POSITION
| 5D	F1DSI	1		DATA SET INDICATORS
	Bits defined in F1DSI			
| 80	F1LVOL			LAST VOL IND
| 20	F1BL8			BLOCK MUL 8 (OS/V5)
| 10	F1SEC			PASSWORD PROTECTION
| 04	F1WPW			WRITE PASSWORD ONLY
| 5E	F1SECAL	4		UNUSED BY DOS/V5 (X'40')
| 5E	F1SECOPT	1 I*3		SECONDARY ALLOCATION OPTION
| 5F	F1SECALL	3 I*4		SECONDARY ALLOCATION VALUE
| 62	F1LRP	5		UNUSED BY DOS/V5 (X'00')
| 67		2		RESERVED (X'40')
| 69	F1EXTS			EXTENTS
| 69	F1EXTYP	1 I*5		EXTENT TYPE
| 6A	F1EXSEQ	1 I*6		EXTENT SEQUENCE NUMBER
| 6B	F1START	4		LOWER CCHH
| 6F	F1END	4 I*7		UPPER CCHH
| 73		20		ADDITIONAL EXTENTS
| 87	F1POINT	5		FORMAT 3 OR 2 POINTER
| 87	F1HIORD	1 I*14		ZERO FOR FBA
| 88	F1PNT	4		RELATIVE RECORD NUMBER FOR FBA

CROSS REFERENCE (Name Disp Value)

F1BLK	0056	..	F1D7	003C	..	F1ID	002C	..	F1SEC	005D	10
F1BL8	005D	20	F1D8	003D	..	F1KEYL	005A	..	F1SECAL	005E	..
F1CISIZE	004E	..	F1END	006F	..	F1LEN	....	90	F1SECALL	005F	..
F1CRDTE	0035	..	F1EXCNT	003B	..	F1LRP	0062	..	F1SECOPT	005E	..
F1DSI	005D	..	F1EXPDT	0038	..	F1LVOL	005D	80	F1SER	002D	..
F1DSN	0000	..	F1EXSEQ	006A	..	F1OPT	0055	..	F1START	006B	..
F1DWDS	....	12	F1EXTS	0069	..	F1PNT	0088	..	F1SYSCOD	003E	..
F1D10	004B	..	F1EXTYP	0069	..	F1POINT	0087	..	F1VSEQ	0033	..
F1D12	0054	..	F1FTYPE	0052	..	F1RECL	0058	..	F1WPW	005D	04
F1D21	0067	..	F1HIORD	0087	..	F1RKP	005B	..			

IMMBLOK: IMMEDIATE COMMAND SUPPORT

This block is created whenever an immediate command is established; it contains information about the immediate command. IMMBLOK is invoked by the IMMBLOK macro.

Size

SIZE IN BYTES (IMMBYTES) 20
 SIZE IN DOUBLEWORDS (IMMDWDS) 04
 IMMNEXT DISP INTO IMMBLOK (IMMNEXTD) 00

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	IMMNEXT	4		POINTER TO NEXT IMMBLOK
	Bits defined in IMMNEXT			
4	IMMNEXTL			LENGTH OF IMMNEXT FIELD
4	IMMUWORD	4		USER WORD
8	IMMNAME	8		IMMEDIATE COMMAND NAME
10	IMMFLAG1	1	I*1	FLAGS
	Bits defined in IMMFLAG1			
80	IMMSYS			IMMEDIATE COMMAND IS A NUCLEUS EXTENSION WITH SYSTEM ATTRIBUTE
40	IMMCOUNT			IMMEDIATE COMMAND ESTABLISHED VIA IMMCMD COMMAND
20	IMMNUCX			IMMEDIATE COMMAND IS A NUCLEUS EXTENSION
11	IMMFLAG2	3		RESERVED
14	IMMADDR	4		ADDRESS OF EXIT ROUTINE
18	IMMHIDE	4		NUMBER OF NUCLEUS EXTENSIONS THAT ARE HIDING THIS IMMEDIATE COMMAND
20	IMMEND	0		

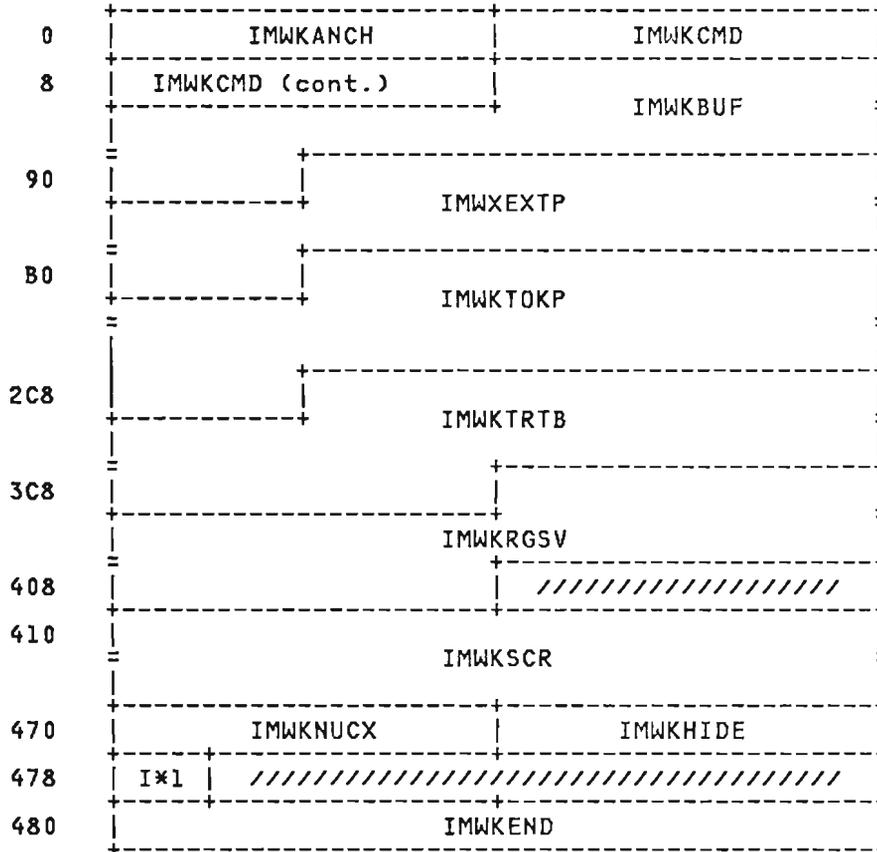
IMMBLOK

IMMBLOK

<u>CROSS REFERENCE</u> (Name Disp Value)														
IMMADDR	0014	..		IMMEND	0020	..		IMMNAME	0008	..		IMMNUCX	0010	20
IMMBYTES	0000	20		IMMFLAG1	0010	..		IMMNEXT	0000	..		IMMSYS	0010	80
IMMCOUNT	0010	40		IMMFLAG2	0011	..		IMMNEXTD	0000	00		IMMUWORD	0004	..
IMMDWDS	0000	04		IMMHIDE	0018	..		IMMNEXTL	0000	04				

IMWKSECT: IMMEDIATE COMMAND WORKAREA

This macro contains information about the CMS immediate commands and is invoked by the IMWKSECT macro.



Size

SIZE OF BLOCK IN DOUBLEWORDS (IMWKDWDS) 090
 SIZE OF BLOCK IN BYTES (IMWKBYTS) 480

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	IMWKANCH	4		POINTER TO IMMBLOK ANCHOR
4	IMWKCMD	8		CURRENT IMMEDIATE COMMAND
C	IMWKBUF	134		COPY OF INPUT LINE AS ENTERED FROM TERMINAL
92	IMWKEXTP	32		SAVED COPY OF LAST REGULAR COMMAND EXTENDED PLIST

IMWKSECT

IMWKSECT

Disp Name Len Key Description

|	B2	IMWKTOKP	536	SAVED COPY OF LAST REGULAR COMMAND TOKENIZED PLIST
|	18	IMWKTOKL		LENGTH OF IMWKTOKP FOR MVCL
|	2CA	IMWKTRTB	256	TRANSLATE TABLE TO DETERMINE LINE LENGTH
|	3CC	IMWKRGSV	64	DMSCIT REGISTER SAVE AREA
|	F4	IMWKRG10		LOCATION OF REGISTER 10 IN SAVEAREA
|	410	IMWKSCR	96	IMMEDIATE COMMAND EXIT SAVE AREA
|	470	IMWKNUCX	4	NUMBER OF IMMEDIATE COMMANDS THAT ARE ALSO NUCLEUS EXTENSIONS
|	474	IMWKHIDE	4	TOTAL NUMBER OF NUCLEUS EXTENSIONS THAT ARE CURRENTLY HIDING IMMEDIATE COMMANDS
|	478	IMWKFLGS	1	FLAGS
|		Bits defined in IMWKFLGS		
|	80	IMCMDACT		IMMEDIATE COMMAND IS ACTIVE
|	40	IMWKGOT		TEMPORARY SWITCH USED BY DMSITS TO DETERMINE IF IT GOT THE WORKAREA
|	480	IMWKEND	0	

CROSS REFERENCE (Name Disp Value)

IMCMDACT 0478 80	IMWKDWDS 0000 90	IMWKHIDE 0474 ..	IMWKSCR 0410 ..
IMWKANCH 0000 ..	IMWKEND 0480 ..	IMWKNUCX 0470 ..	IMWKTOKL 00B2 18
IMWKBUF 000C ..	IMWKEXTP 0092 ..	IMWKRGSV 03CC ..	IMWKTOKP 00B2 ..
IMWKBYTES 0000 80	IMWKFLGS 0478 ..	IMWKRG10 03CC F4	IMWKTRTB 02CA ..
IMWKCMD 0004 ..	IMWKGOT 0478 40		

IOSECT

IOSECT

CROSS REFERENCE (Name Disp Value)

AUSRILST	004C	..	IDCSW	0078	..	IDSAVE	0000	..	OLDEST	0050	..
AUSRITBL	0044	..	IONTABL	0040	..	NEXTO	0060	..	VSTRANGE	0084	..
HOLD	0080	..	IOPSW	0070	..						

IUCVIDBK: IUCV PROGRAM IDENTIFICATION BLOCK

This block is created each time a program identifies itself as an IUCV program to CMS via the HNDIUCV SET function. IUCVIDBK is invoked by the IUCVIDBU MACRO.

0	IUCVIDNX	IUCVIDEX
8	IUCVIDUW	IUCVIDID
10	IUCVIDID (cont.)	////////////////////

Size

SIZE OF AREA IN DOUBLEWORDS (IUCVIDSZ) 03

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	IUCVIDNX	4		POINTER TO NEXT ENTRY
4	IUCVIDEX	4		ADDRESS OF THE EXIT
8	IUCVIDUW	4		ADDRESS OF THE USER FULLWORD
C	IUCVIDID	8		IDENTITY OF THE PROGRAM
14		4		RESERVED

CROSS REFERENCE (Name Disp Value)

IUCVIDEX 0004 ..	IUCVIDNX 0000 ..	IUCVIDSZ 0000 03
IUCVIDID 000C ..		IUCVIDUW 0008 ..

IUCVPTBK: IUCV PATH TABLE BLOCK

This block maps an entry in the internal CMS IUCV path table. There is one entry for each IUCV path in the virtual machine. IUCVPTBK is invoked by the IUCVPTBK macro.

0	IUCVPTEX	IUCVPTUW
8	IUCVPTID	

Size

SIZE OF AREA IN DOUBLEWORDS (IUCVPTSZ) 02

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	IUCVPTEX	4		ADDRESS OF THE PROGRAM EXIT
4	IUCVPTUW	4		ADDRESS OF THE USER FULLWORD
8	IUCVPTID	8		ID OF PROGRAM WHO OWN'S THIS PATH

CROSS REFERENCE (Name Disp Value)

IUCVPTEX 0000 ..	IUCVPTSZ 0000 02
IUCVPTID 0008 ..	IUCVPTUW 0004 ..

IUCVTAB: IUCV TABLE

This block is the main IUCV control block; it contains information about the virtual machine's IUCV environment. IUCVTAB is invoked by the IUCVTAB macro.

0	IUCVPTAN	IUCVSAVE
8	IUCVPLST	IUCVEXBF
10	IUCVBKSZ	IUCVIDAN
18	IUCVCONN	////////////////////

Size

SIZE OF IUCVTAB IN DOUBLEWORDS (IUCVSIZE) 04

Disp	Name	Len	Key	Description
0	IUCVPTAN	4		ANCHOR OF PATH TABLE CHAIN
4	IUCVSAVE	4		POINTER TO A 23 BYTE SAVE AREA
8	IUCVPLST	4		POINTER TO A PLIST FOR IUCV
C	IUCVEXBF	4		POINTER TO EXTERNAL INTERRUPT BUFFER
10	IUCVBKSZ	4		SIZE OF THE 4 PREVIOUS AREAS IN DOUBLEWORDS
14	IUCVIDAN	4		ANCHOR OF PROGRAM IDENTITY CHAIN
18	IUCVCONN	2		MAXIMUM NUMBER OF IUCV CONNECTS
1A		6		RESERVED

CROSS REFERENCE (Name Disp Value)

IUCVBKSZ 0010 ..	IUCVEXBF 000C..	IUCVPLST 0008..	IUCVSAVE 0004..
IUCVCONN 0018..	IUCVIDAN 0014..	IUCVPTAN 0000..	IUCVSIZE 0000 04

KEYSECT: DISK KEY TABLE DSECT FOR BDAM SIMULATION

KEYSECT defines by key, the key table used for I/O in OS simulation of BDAM files. KEYSECT is built dynamically from CMS free storage. KEYSECT is invoked via the KEYSECT macro.

0	KEYLNTH	DATAEND
8	KEYOP	
10	KEYNAME	
18	KEYTYPE	
20	KEYMODE	KEYTBLAD
28	TBLLNTH	K*1 | K*2 |
30	KEYTBLNO	
38	KEYCOUT	KEYTABLE
40	KEYXTNT1	KEYPTR1
48	KEYXTNT2	KEYPTR2

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	KEYLNTH	4		KEY LENGTH
4	DATAEND	4		ITEM POINTER TO LAST DATA ITEM IN FILE
8	KEYOP	8		START OF PLIST FOR KEYS FILE
10	KEYNAME	8		NAME OF KEYS FILE
18	KEYTYPE	8		FILE TYPE OF KEYS FILE
20	KEYMODE	2		FILE MODE OF KEYS FILE
24	KEYTBLAD	4		ADDRESS OF KEY TABLE
28	TBLLNTH	4		BYTE SIZE OF KEY TABLE
2C	KEYFORM	1	K*1	FORMAT OF KEYS FILE
2D	KEYCHNG	1	K*2	RDBUF/WRBUF PLIST FLAG
Bits defined in KEYCHNG				
20	KEYEXTPL			EXTENDED PLIST FLAG
01	KEYCHANG			INDICATES CHANGE IN KEY TABLE
34	KEYTBLNO	4		ITEM NUMBER OF KEY TABLE
38	KEYCOUT	4		BLOCKING FACTOR OF KEY TABLE

KEYSECT

KEYSECT

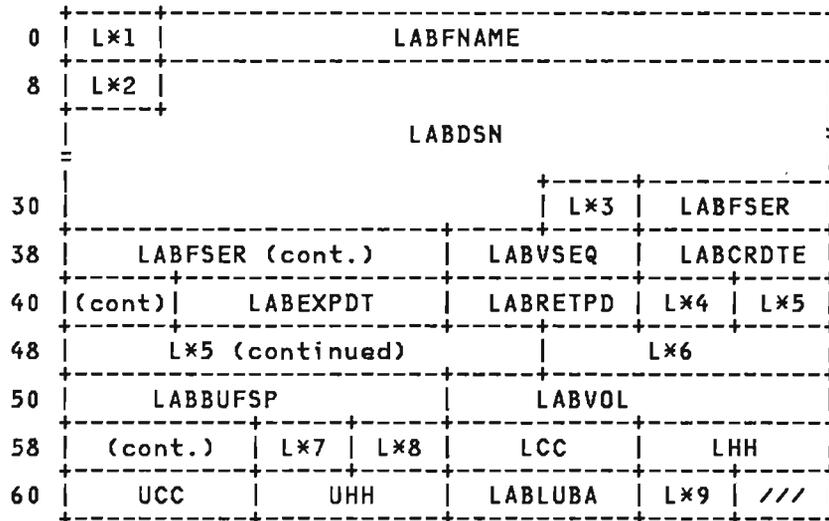
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
3C	KEYTABLE	4		START OF TABLE (ITEM) FULL OF KEYS
3C	KEYEOF	4		EOF MARKER
40	KEYXTNT1	2		XTENT AREA IF ≤ 65535
42	KEYMARK	2		BDAM KEY INDICATOR
44	KEYPTR1	2		POINTER TO KEYS IF ≤ 65535
48	KEYXTNT2	4		XTENT AREA IF > 65535
4C	KEYPTR2	4		POINTER TO KEYS IF > 65535

CROSS REFERENCE (Name Disp Value)

DATAEND	0004	..	KEYFORM	002C	..	KEYOP	0008	..	KEYTBLNO	0034	..
KEYCHANG	002D	01	KEYLENGTH	0000	..	KEYPTR1	0044	..	KEYTYPE	0018	..
KEYCHNG	002D	..	KEYMARK	0042	..	KEYPTR2	004C	..	KEYXTNT1	0040	..
KEYCOUT	0038	..	KEYMODE	0020	..	KEYTABLE	003C	..	KEYXTNT2	0048	..
KEYEOF	003C	..	KEYNAME	0010	..	KEYTBLAD	0024	..	TBLLNGTH	0028	..
KEYEXTPL	002D	20									

LABREC: DLBL/EXTENT LABEL

LABREC describes the fields within a DLBL/extent record and is used in the CMS/DOS environment. LABREC is invoked via the LABREC macro.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LABEXN			NUMBER EXTENTS
0	LABIND	1	L*1	DLBL/EXTENT INDICATOR
Bits defined in LABIND				
80	LABNPAK			NEXT EXTENT ON NEW PACK
40	LABLAST			LAST EXTENT
20	LABYPAS			BYPASS EXTENT
10	LABNVOL			NEW VOL ON SAME UNIT
08	LABOMIT			EXTENT LIMITS OMITTED
04	LABCONV			EXTENT CONVERTED TO DASD ADDRESS
02	LABNO			NO EXTENT CARD
01	LABSEC			SECURED FILE
1	LABFNAME	7		FILENAME
8	LABDAISS	1	L*2	DA/IS INDICATORS
Bits defined in LABDAISS				
80	LABADREC			ADDRESS LABEL RECORD FOLLOW
40	LABCISSW			CI-SIZE IS SPECIFIED
20	LABBLKSW			BLKSIZE IS SPECIFIED
10	LABFBAIN			FBA INDICATOR
08	LABOMT			EXTENT LIMITS OMITTED
04	LABCON			EXT CONVERTED TO DASD ADDRESS
02	LABCTREC			LABEL CONT. RECORD

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
9	LABDSN	44		DATA SET NAME
35	LABFID	1	L*3	FORMAT ID
36	LABFSER	6		VOLID OF FIRST EXTENT
3C	LABVSEQ	2		VOLUME SEQUENTIAL NUMBER
3E	LABCRDTE	3		CREATION DATE
41	LABEXPDT	3		EXPIRATION DATE
44	LABRETPD	2		RETENTION PERIOD
| 46	LABOPCOD	1	L*4	DOUBLE TYPE
47	LABSYSCD			SYSTEM CODE
47	LABVSAM			VSAM OWNED FLD
| 47	LABUCNAM	7	L*5	USER CATALOG NAME
| 4E		2	L*6	
4C	LABCISZ	4		CI-SIZE
50	LABBUFSP	4		BUFFER SIZE
54	LABEXT			
54	LABVOL	6		VOLID
| 5A	LABTYP	1	L*7	TYPE OF EXTENT
| 5B	LABSEQ	1	L*8	EXTENT NUMBER
5C	LABST			START OF EXTENT
5C	LABSTBK			
5C	LCC	2		LOWER CYL
5E	LHH	2		LOWER HEAD
60	LABED			EXTENT END
60	LABENDBK			
60	UCC	2		UPPER CYL
62	UHH	2		UPPER HEAD
64	LABLUBA	2		LUB UNIT
| 66	LABSW	1	L*9	SWITCHES
	Bits defined in LABSW			
80	LAB64K			BLOCK ADDRESS AND/OR NUMBER OF BLOCKS 64K-1
| 67		1		RESERVED

LABREC

LABREC

CROSS REFERENCE (Name Disp Value)

LABADREC	0008	80	LABED	0060	..	LABNO	0000	02	LABSYSCD	0047	..
LABBLKSW	0008	20	LABENDBK	0060	..	LABNPAK	0000	80	LABTYP	005A	..
LABBLKSZ	0050	..	LABEXN	0000	..	LABNVOL	0000	10	LABUCNAM	0047	..
LABBUFSP	0050	..	LABEXPDT	0041	..	LABOMIT	0000	08	LABVOL	0054	..
LABCISSW	0008	40	LABEXT	0054	..	LABOMT	0008	08	LABVSAM	0047	..
LABCISZ	004C	..	LABFBAIN	0008	10	LABOPCOD	0046	..	LABVSEQ	003C	..
LABCON	0008	04	LABFID	0035	..	LABRETPD	0044	..	LABYPAS	0000	20
LABCONV	0000	04	LABFNAME	0001	..	LABSEC	0000	01	LAB64K	0066	80
LABCRDTE	003E	..	LABFSER	0036	..	LABSEQ	005B	..	LCC	005C	..
LABCTREC	0008	02	LABIND	0000	..	LABST	005C	..	LHH	005E	..
LABDAISS	0008	..	LABLAST	0000	40	LABSTBK	005C	..	UCC	0060	..
LABDSN	0009	..	LABLUBA	0064	..	LABSW	0066	..	UHH	0062	..

LABSECT: TAPE LABEL INFORMATION

LABSECT contains user-supplied tape label information used by CMS tape label processing. LABSECT is invoked via the LABSECT macro.

0	LABNEXT		LABFCBPT	
8	LABFILE			
10	LABFID			
20	L*1	LABVOLID		
28	LABVSEQ		LABFSEQ	
30	LABGENN		LABGENV	LABCRD
38	LABCRD (cont.)		LABEXD	
40	(cont.)	L*2	L*3	

Size

LABSECT SIZE IN DOUBLEWORDS (LABSIZE) 09

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LABNEXT	4		FORWARD CHAIN POINTER
4	LABFCBPT	4		POINTER TO FCBSECT OR ZERO
8	LABFILE	8		NAME OF FILE (DDNAME) FOR BLOCK
10	LABFID	17		FILE IDENTIFIER
21	LABSEC	1	L*1	SECURITY
22	LABVOLID	6		VOLUME SERIAL NUMBER (VOLID)
28	LABVSEQ	4		VOLUME SEQUENCE NUMBER
2C	LABFSEQ	4		FILE SEQUENCE NUMBER
30	LABGENN	4		GENERATION NUMBER
34	LABGENV	2		GENERATION VERSION
36	LABCRD	6		CREATION DATE
3C	LABEXD	6		EXPIRATION DATE

LABSECT

LABSECT

Disp Name Len Key Description

42 LABFLAG1 1 L*2 DEFAULT FLAGS BYTE:

Bits defined in LABFLAG1

80	LABDFID	DEFAULT FILE ID
40	LABDSEC	DEFAULT SECURITY
20	LABDVID	DEFAULT VOLUME SERIAL NUMBER
10	LABDVSEQ	DEFAULT VOLUME SEQUENCE NUMBER
08	LABDFSEQ	DEFAULT FILE SEQUENCE NUMBER
04	LABDGENN	DEFAULT GENERATION NUMBER
02	LABDGENV	DEFAULT GENERATION VERSION
01	LABDCRD	DEFAULT CREATION DATE

43 LABFLAG2 1 L*3 MISCELLANEOUS FLAGS BYTE:

Bits defined in LABFLAG2

80	LABDEXD	DEFAULT EXPIRATION DATE
04	LABFDEF	LABSECT GOTTEN BY FILEDEF
02	LABPERM	PERMANENT SPECIFIED
01	LABNOCHG	NOCHANGE SPECIFIED

CROSS REFERENCE (Name Disp Value)

LABCRD	0036	..	LABDSEC	0042	40	LABFILE	0008	..	LABNOCHG	0043	01
LABDCRD	0042	01	LABDVID	0042	20	LABFLAG1	0042	..	LABPERM	0043	02
LABDEXD	0043	80	LABDVSEQ	0042	10	LABFLAG2	0043	..	LABSEC	0021	..
LABDFID	0042	80	LABEXD	003C	..	LABFSEQ	002C	..	LABSIZE	....	09
LABDFSEQ	0042	08	LABFCBPT	0004	..	LABGENN	0030	..	LABVOLID	0022	..
LABDGENN	0042	04	LABFDEF	0043	04	LABGENV	0034	..	LABVSEQ	0028	..
LABDGENV	0042	02	LABFID	0010	..	LABNEXT	0000	..			

LDRST: LOADER STORAGE AREA

LDRST describes the fields of the work area used by the loader. The work area is obtained and built dynamically by DMSLDR from CMS free storage. LDRST is invoked via the LDRST macro.

0	GPRSAV			
8	LOCSAV			
10	RETT		LOCCT	
18	BRAD		TBLREF	
20	FLAG1	FLAG2	TBLCT	FLAG3
20	/////			
28	////////////////////////////////////			
30	RLDCONST		PARMLIST	
38	RETREG			
=	SPEC			
358	=			
360	ESIDTB			
558	=			
560	APSV			
598	=			
5A0	TMPLOC		TEMPST	
5A0	CRDPTR			
5A8	FILE			
5B0	READBUF			
5B8	FNAME			
5C0	FTYPE			
5C8	FMODE	CURR	RADD	
5D0	RLENG		RFIX	REPL
5D0	/////			
5D8	NUMBYTE		RITEM	
5E0	RNUM		RWRPT	

5E8	RRDPT	
5F0	FINIS	
608	FLAGS	L*1
	SYSUT1	
638	TYPLIN	
640	TYPEAD	
648	DSKLIN	
660	DSKAD	
670	L*2	L*3
	L*3 (continued)	L*4
680	cont.	
688	HEXCON	L*5
690	OUTBUF	
6F0	PRVCNT	
6F8	SAV67	
700	ENTNAME	
708	ENTADR	MEMBOUND
710	PLISTSAV	
910	REG13SAV	L*6

Disp	Name	Len	Key	Description
0	GPRSAV	12		REGISTERS 9-12
C	LOCSAV	4		BASE REGISTER A(DMSLDRA)
10	RETT	4		RETURN REGISTER FOR DMSLSB
14	LOCCT	4		(LOC CNT) NEXT LOAD LOCATION

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
18	BRAD	4		(STRTADDR) START EXECUTION ADDRESS
1C	TBLREF	4		(ALDRTBL) TOP OF LOADER TABLE
20	FLAG1	1		LOADER SWITCHES (PERMANENT)
Bits defined in FLAG1				
80	ABSOLUTE			ABSOLUTE LOADING
40	FSTXTADR			FIRST TEXT ADDRESS SAVED
20	COMMOMEX			COMMON ENTRIES EXIST IN LOADER TABLE
10	PREXIST			PR ENTRIES EXIST IN LOADER TABLE
08	ENDCDADR			ALLOW END CARD ADDRESS
04	NOERASE			DON'T ERASE THE LOAD MAP
02	WORKFILE			WORK FILE (SYSUT1) EXISTS
01	NODUP			DO NOT TYPE MSG 202W
21	FLAG2	1		LOADER SWITCHES (PERMANENT)
Bits defined in FLAG2				
80	STRINITC			CALL STRINIT ON LOADMOD
40	NOMAP			DO NOT CREATE A LOAD MAP
20	APRILB			REP CARD PROCESSING CONTROL
10	NOAUTO			NO AUTOMATIC TEXT DECK CHECKING
08	TYPE			TYPE LOAD MAP AT TERMINAL
04	NOREP			NO REP CARD PRINTING
02	NOINV			NO INVALID CARD TYPEOUT
01	NOLIBE			NO AUTOMATIC TXT LIBRARY SEARCHING
22	TBLCT	2		NUMBER OF ENTRIES IN LOADER TABLE
24	FLAG3	1		MORE FLAGS
Bits defined in FLAG3				
80	CMD			PROCESSING NAMES FROM CMD LIST
25		1		RESERVED
26		10		RESERVED
30	RLDCONST	4		RELOCATION CONSTANT
34	PARMLIST	4		UPDATED PARAMETER LIST POINTER
38	RETREG	4		RETURN REGISTER
3C	SPEC	800		10 CARD INPUT BUFFER
35C	ESIDTB	512		256 ESD ENTRIES/OBJECT DECK
55C	APSV	64		REGISTER SAVE AREA FOR SUBROUTINE CALLS
59C	TEMPST	4		TEMPORARY RLD ROUTINE STORAGE
5A0	TMPLOC	4		TEMPORARY STORAGE
5A4	CRDPTR	4		INPUT CARD POINTER
5A8	FILE	8		SAVE LOCATION FOR DMSLIB
5B0	READBUF	8		INPUT READ PARAMETER LIST

LDRST

LDRST

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 5B8	FNAME	8		FILE NAME
| 5C0	FTYPE	8		FILE TYPE
5C8	FMODE	2		FILE MODE
| 5CA	CURR	2		CURRENT CSECT ID
5CC	RADD	4		BUFFER ADDRESS
5D0	RLENG	4		BUFFER LENGTH
5D4	RFIX	1		FIXED/VARIABLE FLAG BYTE
5D5	REPL	1		EXTENDED P-LIST FLAG
| 5D6		2		RESERVED
5D8	NUMBYTE	4		NUMBER OF BYTES ACTUALLY READ
5DC	RITEM	4		ITEM NUMBER
5E0	RNUM	4		NUMBER OF ITEMS
5E4	RWRPT	4		WRITE POINTER
5E8	RRDPT	4		READ POINTER
| 5EC	FINIS	28		FINIS PARAMETER LIST
608	FLAGS	1		LOADER SWITCHES (NON PERMANENT)

Bits defined in FLAGS

80	START		START EXECUTION REQUESTED
40	ONEDYNA		ONE CALL TO DYNALOAD PER TEXT FILE
20	ESD1ST		FIRST ESD DATA ITEM THIS CARD
10	NOSLCADR		NO ADDRESS FIELD IN SLC CARD
08	SETLIB		SET UP FOR LIBRARY SEARCHING
04	CLOSELIB		CLEAR TXT LIB SEARCHING
02	LUNDEF		UNDEFINED ENTRIES EXIST IN LOADER TABLE
01	RESET		RESET 'ENTRY' SPECIFIED

| 609		3	L*1	LIBRARY SEARCH WORK AREA POINTER
| 60C	SYSUT1	44		RLD WORK FILE PLISTS
| 638	TYPLIN	8		TYPLIN PARAMETER LIST
| 640	TYPEAD	8		TYPLIN BUFFER ADDRESS
| 648	DSKLIN	28		DISK PARAMETER LIST FOR LOAD MAP
| 664	DSKAD	13		
| 671		4	L*2	
| 675		81	L*3	
| 67D		4	L*4	
| 681	HEXCON	14		
68F	OUTPUT	1	L*5	

LDRST

LDRST

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 690	OUTBUF	100		OUTPUT BUFFER FOR LOAD MAP AND TERMINAL
| 6F4	PRVCNT	4		ADDRESS OF NEXT PR 'LOAD ADDRESS'
| 6F8	SAV67	8		TEMPORARY SAVE OF REGS 6 AND 7
700	ENTNAME	8		ENTRY NAME (RESET 'ENTRY' OR ENTRY CONTR
708	ENTADR	4		ENTRY NAME'S LOADER TABLE LOCATION
70C	MEMBOUND	4		LOW EXTEND OF FREE STORAGE (FREELOWE)
| 710	PLISTSAV	512		LOAD (INCLUDE) PARAMETER LIST SAVED
910	REG13SAV	4		ADDRESS OF LDRST
| 914	FRSTSDID	1 L*6		FIRST SECTION DEFINITION ID
918	ENDFREE	8		

THE FOLLOWING EQUATES REFER TO DISPLACEMENTS AND FLAGS IN THE PEFTABLE ENTRY USUALLY POINTED TO BY REGISTER 12.

00	REFNAME	OFFSET OF 8-BYTE NAME FIELD
90	REFNOB	LIBE CARD - NONOBLIGATORY
83	REFWEX	WEAK EXTERNAL REFERENCE
82	REFCOM	DEFINE COMMON AREA
81	REFCXD	RESOLVE CXD
80	REFUND	UNDEFINED SYMBOL
80	REFCMD	CMD LINE NAME-MUST RESOLVE
7F	REFPRD	PR - DOUBLEWORD ALIGNMENT
7E	REFPRF	PR - FULLWORD ALIGNMENT
7D	REFPRH	PR - HALFWORD ALIGNMENT
7C	REFPRB	PR - BYTE ALIGNMENT
11	REFADDR	OFFSET OF ADDRESS FIELD
10	REFLIB	SINGLE BIT FOR NONOBLIG
10	REFLG2	OFFSET OF FLAG BYTE TWO
0D	REFVAL	OFFSET OF ABS OR ASGN VALUE
09	REFINFO	OFFSET OF RELOC FACTOR OR MAX
08	REFLG1	OFFSET OF FLAG BYTE ONE
08	REFICS	ICS - ALTER CSECT LENGTH
04	REFLBT	TEXT LOCATED IN LIBRARY
02	REFCSD	DEFINE CONTROL SECTION
01	REFNEG	NEGATIVE RELOCATION FACTOR

LDRST

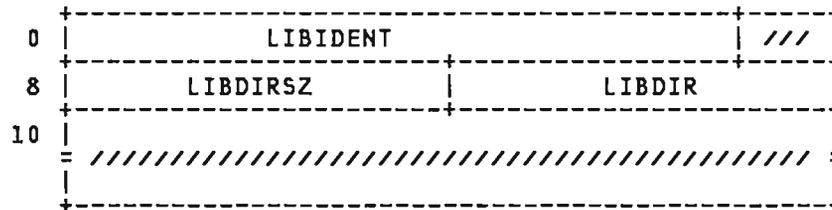
LDRST

CROSS REFERENCE (Name Disp Value)

ABSOLUTE	0020	80	FTYPE	05C0	..	RADD	05CC	..	RESET	0608	01
APRILB	0021	20	GPRSAV	0000	..	READBUF	05B0	..	RETREG	0038	..
APSV	055C	..	HEXCON	0681	..	REFADDR	0000	11	RETT	0010	..
BRAD	0018	..	LOCCT	0014	..	REFCMD	0000	80	RFIX	05D4	..
CLOSELIB	0608	04	LOCSAV	000C	..	REFCOM	0000	82	RITEM	05DC	..
CMD	0024	80	LUNDEF	0608	02	REFCSD	0000	02	RLDCONST	0030	..
CRDPTR	05A4	..	MEMBOUND	070C	..	REFCXD	0000	81	RLENG	05D0	..
DSKAD	0664	..	NEED	0918	23	REFICS	0000	08	RNUM	05E0	..
DSKLIN	0648	..	NOAUTO	0021	10	REFINFO	0000	09	RRDPT	05E8	..
ENDCDADR	0020	08	NODUP	0020	01	REFLBT	0000	04	RWRPT	05E4	..
ENDFREE	0918	..	NOERASE	0020	04	REFLG1	0000	08	SAV67	06F8	..
ENTADR	0708	..	NOINV	0021	02	REFLG2	0000	10	SETLIB	0608	08
ENTNAME	0700	..	NOLIBE	0021	01	REFLIB	0000	10	SPEC	003C	..
ESD1ST	0608	20	NOMAP	0021	40	REFNAME	0000	00	START	0608	80
ESIDTB	035C	..	NOREP	0021	04	REFNEG	0000	01	STRINITC	0021	80
FILE	05A8	..	NOSLCADR	0608	10	REFNOB	0000	90	SYSUT1	060C	..
FINIS	05EC	..	NUMBYTE	05D8	..	REFPRB	0000	7C	TBLCT	0022	..
FLAGS	0608	..	ONEDYNA	0608	40	REFPRD	0000	7F	TBLREF	001C	..
FLAG1	0020	..	OUTBUF	0690	..	REFPRF	0000	7E	TEMPST	059C	..
FLAG2	0021	..	OUTPUT	068F	..	REFPRH	0000	7D	TMPLOC	05A0	..
FLAG3	0024	..	PACK	0681	**	REFUND	0000	80	TYPE	0021	08
FMODE	05C8	..	PARMLIST	0034	..	REFVAL	0000	0D	TYPEAD	0640	..
FNAME	05B8	..	PLISTSAV	0710	..	REFWEX	0000	83	TYPLIN	0638	..
FRSTSDID	0914	..	PREXIST	0020	10	REG13SAV	0910	..	UNPACK	0686	**
FSTXTADR	0020	40	PRVCNT	06F4	..	REPL	05D5	..	WORKFILE	0020	02

LIBSECT: CMS PDS HEADER

LIBSECT keeps track of the total library size and the address of the CMS PDS directory. LIBSECT is invoked via the LIB macro.

Size

PDS IDENTIFIER LENGTH IN BYTES (LIBIDSIZ) 50

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

0	LIBIDENT	6		CMS PDS LIB IDENTIFIER
---	----------	---	--	------------------------

8	LIBDIRSZ	4		TOTAL DIRECTORY SIZE IN BYTES
---	----------	---	--	-------------------------------

C	LIBDIR	4		DIRECTORY ADDRESS AS FULLWORD EXTENDED ITEM NUMBER
---	--------	---	--	--

MAPPING OF SCP FORMAT HEADER ENTRY

06	LIBDIRX			SCP HALFWORD DIR ITEM NUMBER
----	---------	--	--	------------------------------

CROSS REFERENCE (Name Disp Value)

LIBDIR	000C ..	LIBDIRX	000C 06	LIBIDENT 0000 ..
LIBDIRSZ	0008 ..			LIBIDSIZ 50

LOGFBFMT: LOG/FORMAT FILE ENTRY

LOGFBFMT describes the format of the programmable operator facility log file and feedback file records. Maximum length for a record is 132. LOGFBFMT is found in PROP copy.

Size

LENGTH OF RECORD PREFIX (LGFBTDSP) 26

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LGFBSTRT	0		START OF RECORD
0	LGFBDATE	8		DATE WRITTEN (YY/MM/DD)
9	LGFBTIME	8		TIME WRITTEN (HH:MM:SS)
12	LGFBUSER	8		USERID OF ORIGINATOR
1B	LGFBNODE	8		NODEID OF ORIGINATOR
23	LGFBCOLN	1		DELIMITER OF TEXT
26	LGFBTEXT	0		MESSAGE TEXT

CROSS REFERENCE (Name Disp Value)

LGFBCOLN 0023 ..	LGFBNODE 001B ..	LGFBTDSP 26	LGFBTIME 0009 ..
LGFBDATE 0000 ..	LGFBSTRT 0000 ..	LGFBTEXT 0026 ..	LGFBUSER 0012 ..

LPLDCT: LABEL MACRO PARAMETER LIST

LPLDCT describes the fields within the label macro input parameter list used in the CMS/DOS environment. LPLDCT is invoked via the LPLDCT macro.

0	LPLAREA		LPLBFLEN	LPLLLEN		
8	LPLKEY					///
10	L*1	///	L*2	L*3	L*4	

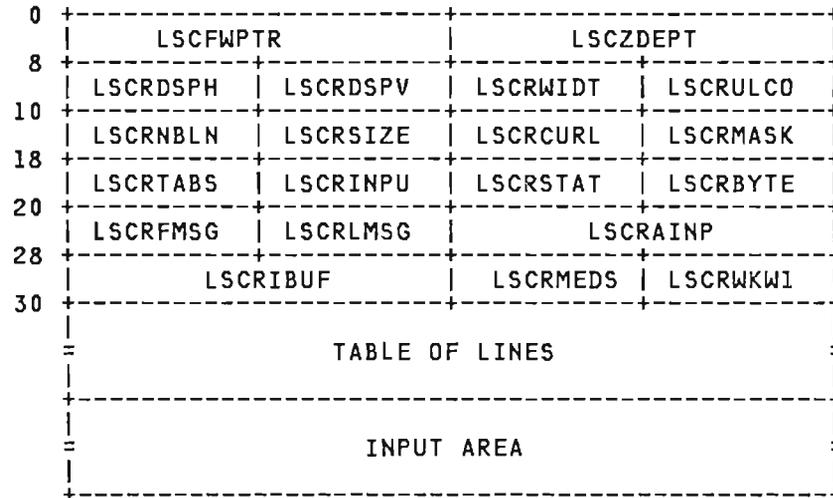
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LPLAREA	4		BUFFER ADDRESS
4	LPLBFLEN	2		LENGTH OF BUFFER
6	LPLLLEN	2		LENGTH OF LABEL
8	LPLNAM			FILE NAME PLUS INT. SEQUENTIAL NUMBER
8	LPLKEY	7		FILE NAME
F		1		RESERVED
10	LPLGRP	5		GROUP OF LABELS
10	LPLPNUM	1	L*1	PARTITION IDENTIFICATION
11		1		RESERVED
12	LPLSTORE	1	L*2	OPTION CODE
13	LPLINDIC	1	L*3	LPL INDICATORS
14	LPLSEQNO	1	L*4	EXTENT SEQUENCE NUMBER

CROSS REFERENCE (Name Disp Value)

LPLAREA	0000 ..	LPLINDIC	0013 ..	LPLNAM	0008 ..	LPLSEQNO	0014 ..
LPLBFLEN	0004 ..	LPLKEY	0008 ..	LPLPNUM	0010 ..	LPLSTORE	0012 ..
LPLGRP	0010 ..	LPLLLEN	0006 ..				

LSCREEN: LOGICAL SCREEN BLOCK

LSCREEN is built by module DMSXSD and is used by the System Product Editor modules to describe the layout of a logical screen on the physical screen and they are changed dynamically each time a SET SCREEN subcommand is issued. LSCREEN is invoked by the LSCREEN macro.

**Size**

LENGTH OF HEADER IN BYTES (LSCLLSCB) 30
 LENGTH IN DOUBLEWORDS (LSCLLSCD) 06

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LSCFWPTR	4		POINTER ON NEXT LOGICAL SCREEN
4	LSCZDEPT	4		ADDRESS OF FILE DESCRIPTOR
8	LSCRDSPH	2		HORIZONTAL DISPLACEMENT OF LOGICAL SCREE
A	LSCRDSPV	2		VERTICAL DISPLACEMENT OF LOGICAL SCREEN
C	LSCRWIDT	2		WIDTH OF LOGICAL SCREEN
E	LS .RULCO	2		UPPER LEFT CORNER ADDRESS OF LOG SCREEN
10	LSCRNBLN	2		NUMBER OF LOGICAL LINE IN LOGICAL SCREEN
12	LSCRSIZE	2		TOTAL NUMBER OF LINES OF LOGICAL SCREEN
14	LSCRCURL	2		CURRENT LINE NUMBER ON LOGICAL SCREEN
16	LSCRMASK	2		MASK LINE NUMBER ON LOGICAL SCREEN
18	LSCRTABS	2		TABULATION LINE NUMBER ON LOGICAL SCREEN
1A	LSCRINPU	2		INPUT AREA LINE NUMBER ON LOGICAL SCREEN

LSCREEN

LSCREEN

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
1C	LSCRSTAT	2		EBCDIC ADDRESS OF STATUS AREA
1E	LSCRBYTE	2		LENGTH OF LSCREEN BLOCK IN BYTES
20	LSCRFMSG	2		STARTING LINE FOR MESSAGE ON SCREEN
22	LSCRMSG	2		LAST LINE CONTAINING MESSAGE
24	LSCRINP	4		ADDRESS INPUT AREA IN LOGICAL SCREEN BLOCK
28	LSCRIBUF	4		ADDRESS OF INPUT AREA IN READ BUFFER
2C	LSCRMEDS	2		MID SCREEN LINE NUMBER
2E	LSCRWKW1	2		RESERVED

LSCREEN BLOCK IS FOLLOWED BY A TABLE CONTAINING AS MANY ENTRIES AS THE NUMBER OF LINES OF THE LOGICAL SCREEN. EACH ENTRY CONTAINS...

30	LSCRLTBL			START OF TABLE
00	LSCRFLNE			NUMBER OF THE LINE OF THE FILE THAT IS ON THE SCREEN IN THIS SPOT
04	LSCRFADD			ADDRESS OF THE LINE DESCRIPTOR
08	LSCRIMAD			ADDRESS OF THE LINE IN IMAGE BUFFER
0C	LSCR LGTH			LINE LENGTH IN IMAGE BUFFER
0E	LSCRCTL			ADDRESS OF END OF LINE
0E	LSCRCTLB			ADDRESS OF BEGINNING OF LINE
12	LSCRCTLP			ADDRESS OF PREFIX AREA ON RIGHT
14	LSCRFLG1			STATUS FLAG 1
01	LSCFPROT			.....X PROTECT LINE
02	LSCFNPRF			.....X. BYPASS PREFIX AREA
04	LSCFMASK			.....X.. MASK LINE
08	LSCFTABS			....X... TABSET LINE
10	LSCFTOP			...X.... TOP OF FILE
20	LSCFEOF			..X..... END OF FILE
40	LSCFRST			.X..... LINE SHOULD BE RESET
80	LSCFCHGD			X..... LINE HAS BEEN CHANGED
15	LSCRFLG2			STATUS FLAG 2
01	LSCFWRAP			.....X LINE WRAP ON NEXT ENTRY
02	LSCFRSVD			.....X. LINE IS RESERVED
04	LSCFHIGH			.....X.. LINE HIGH INTENSITY
08	LSCFNUL			....X... NULLS ON FOR THIS FIELD
10	LSCFMDT			...X.... FIELD MODIFIED (MDT ON)
20	LSCFAROW			..X..... FIELD PRECEDED BY ARROW
40				.X..... RESERVED
80	LSCFSDW			X..... SHADOW LINE
18	LSCRLINE			LENGTH OF ONE ENTRY
05	LSCPFXLG			PREFIX SUBCOMMAND AREA LENGTH
05	LSCARWLG			ARROW LENGTH
14	LSCSTALG			STATUS AREA LENGTH
17	LSCRFLG4			EXT. HILITE
16	LSCRFLG3			COLOR

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
3270 CONTROL CHARACTERS				
28	SA			SET ATTRIBUTE
1D	SF			START FIELD
29	SFE			START FIELD EXTENDED
2C	MFD			MODIFIED FIELD
13	IC			INSERT CURSOR
11	SBA			SET BUFFER ADDRESS
05	PT			PROGRAM TAB
3C	RA			REPEAT TO ADDRESS
12	EUA			ERASE UNPROTECT TO ADDRESS
1E	FLDMRK			FIELD MARK CODE (SHIFT PA2)
08	FKE3278			COMPOUND CODE FOR 3278 (APL/TEXT)

3270 FIELD CHARACTERS

00	ATTRST			RESET ATTRIBUT
20	ATRPRT			PROTECT FIELD
08	ATRHIGH			HIGH INTENSITY
01	ATRMDDT			SET/RESET MDT BIT
02	ATRINIB			RESET INPUT INHIBITED
04	ATRBIP			SOUND ALARM
C0	ATRFIELD			FIELD
41	ATREXTHI			EXTENDED HILITE
42	ATRCOLOR			COLOR
43	ATRPSS			PROGRAMMABLE SYMBOLS
60	FLDPRT			PROTECT FIELD
40	FLDNPR			NOT PROTECT FIELD
C1	FLDNPRMD			NOT PROTECT + MDT ON
E8	FLDHPRT			PROTECT + HIGH INTENSITY
C8	FLDHNPR			NOT PROTECT + HIGH INTENSITY
C3	STDWCC			STANDARD WCC
C2	STDWCCMD			STANDARD WCC + NO MDT RESET
C7	BIPWCC			BIP
C6	BIPWCCMD			BIP + NO MDT RESET

3270 KEYS CODE

60	KNOACT			NO ACTION (SEND BY CP FOR TEST REQ KEY)
6D	KCLEAR			CLEAR
6C	KPA1			DUP PA1
6E	KPA2			PA2
6B	KPA3			PA3
F0	KTSTREQ			TEST REQ
F1	KPF1			PF1
F2	KPF2			PF2
F3	KPF3			PF3
F4	KPF4			PF4
F5	KPF5			PF5
F6	KPF6			PF6
F7	KPF7			PF7
F8	KPF8			PF8
F9	KPF9			PF9
7A	KPF10			PF10
7B	KPF11			PF11
7C	KPF12			PF12
C1	KPF13			PF13
C2	KPF14			PF14
C3	KPF15			PF15
C4	KPF16			PF16
C5	KPF17			PF17
C6	KPF18			PF18
C7	KPF19			PF19
C8	KPF20			PF20
C9	KPF21			PF21

Disp	Name	Len	Key	Description
4A	KPF22			PF22
4B	KPF23			PF23
4C	KPF24			PF24
7D	KENTER			ENTER
7E	KLGTPEM			LIGHT PEN
88	KQRYINBD			INBOUND QUERY REPLY

CROSS REFERENCE (Name Disp Value)

ATRBIP	002E 04	KPF10	002E 7A	LSCFHIGH	002E 04	LSCRFLNE	002E ..
ATRCOLOR	002E 42	KPF11	002E 7B	LSCFMASK	002E 04	LSCRMSG	0020 ..
ATREXTHI	002E 41	KPF12	002E 7C	LSCFMDT	002E 10	LSCRIBUF	0028 ..
ATRFIELD	002E C0	KPF13	002E C1	LSCFNPRF	002E 02	LSCRIMAD	002E 08
ATRHIGH	002E 08	KPF14	002E C2	LSCFNUL	002E 08	LSCRINPU	001A ..
ATRINIB	002E 02	KPF15	002E C3	LSCFPROT	002E 01	LSCR LGTH	002E 0C
ATRM DT	002E 01	KPF16	002E C4	LSCFRST	002E 40	LSCRLINE	002E 18
ATRPRT	002E 20	KPF17	002E C5	LSCFRSVD	002E 02	LSCRMSG	0022 ..
ATRPSS	002E 43	KPF18	002E C6	LSCFSDW	002E 80	LSCR L TBL	002E 30
ATRRST	002E ..	KPF19	002E C7	LSCFTABS	002E 08	LSCR MASK	0016 ..
BIPWCC	002E C7	KPF2	002E F2	LSCFTOP	002E 10	LSCR MEDS	002C ..
BIPWCCMD	002E C6	KPF20	002E C8	LSCFWPTR	0000 ..	LSCR NBLN	0010 ..
EUA	002E 12	KPF21	002E C9	LSCFWRAP	002E 01	LSCR SIZE	0012 ..
FKE3278	002E 08	KPF22	002E 4A	LSC LLSCB	00 0 30	LSCR STAT	001C ..
FLDHNPR	002E C8	KPF23	002E 4B	LSC LLSCD	002E 06	LSCR TABS	0018 ..
FLDHPR T	002E E8	KPF24	002E 4C	LSCPFXLG	002E 05	LSCR ULCO	000E ..
FLDMRK	002E 1E	KPF3	002E F3	LSCRAINP	0024 ..	LSCR WIDT	000C ..
FLDNPR	002E 40	KPF4	002E F4	LSCR BYTE	001E ..	LSCR WKWI	002E ..
FLDNPRMD	002E C1	KPF5	002E F5	LSCRCTL	002E 10	LSCR STALG	002E 14
FLDPRT	002E 60	KPF6	002E F6	LSCRCTLB	002E 0E	LSCR ZDEPT	0004 ..
IC	002E 13	KPF7	002E F7	LSCRCTLP	002E 12	MFD	002E 2C
KCLEAR	002E 6D	KPF8	002E F8	LSCR CURL	0014 ..	PT	002E 05
KENTER	002E 7D	KPF9	002E F9	LSCR DSPH	0008 ..	RA	002E 3C
KLGTPEM	002E 7E	KQRYINBD	002E 88	LSCR DSPV	000A ..	SA	002E 28
KNOACT	002E 60	KTSTREQ	002E F0	LSCR FADD	002E 04	SBA	002E 11
KPA1	002E 6C	LSCARWLG	002E 05	LSCR FLG1	002E 14	SF	002E 1D
KPA2	002E 6E	LSCFAROW	002E 20	LSCR FLG2	002E 15	SFE	002E 29
KPA3	002E 6B	LSCFCHGD	002E 80	LSCR FLG3	002E 16	STDWCC	002E C3
KPF1	002E F1	LSCFE OF	002E 20	LSCR FLG4	002E 17	STDWCCMD	002E C2

LUBTAB AND LUBPR: LOGICAL UNIT BLOCK TABLE

LUBTAB is a device table that has a 2-byte entry for each symbolic name used by CMS/DOS. The simulated LUB has 255 entries: 14 entries for the system logical units and 241 entries for programmer logical units. System devices (SYSRDR, SYSIPT, SYSPCH, SYSLSL, and SYSLOG) can be assigned to alternate devices. The system and programmer tables are defined with separate DSECTS: LUBTAB and LUBPR. LUBTAB is pointed to by the LUBPT field in BGC0M. The address of the first LUB entry is in the first byte of the FICL control block. Both LUBTAB and LUBPR are invoked via the LUBTAB macro.

0	LUBRDR	LUBIPT	LUBPCH	LUBLST
8	LUBLOG	LUBLNK	LUBRES	LUBSLB
10	LUBRLB	LUBUSE	LUBREC	LUBCLB
18	LUBVIS	LUBCAT		

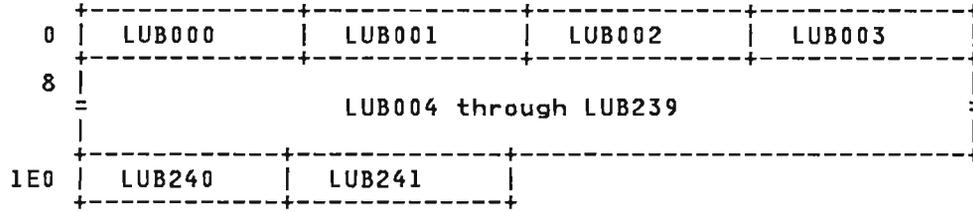
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	LUBRDR	2		
2	LUBIPT	2		
4	LUBPCH	2		
6	LUBLST	2		
8	LUBLOG	2		
A	LUBLNK	2		
C	LUBRES	2		
E	LUBSLB	2		
10	LUBRLB	2		
12	LUBUSE	2		
14	LUBREC	2		
16	LUBCLB	2		
18	LUBVIS	2		
1A	LUBCAT	2		

CROSS REFERENCE (Name Disp Value)

LUBCAT	001A ..	LUBLOG	0008 ..	LUBREC	0014 ..	LUBSLB	000E ..
LUBCLB	0016 ..	LUBLST	0006 ..	LUBRES	000C ..	LUBUSE	0012 ..
LUBIPT	0002 ..	LUBPCH	0004 ..	LUBRLB	0010 ..	LUBVIS	0018 ..
LUBLNK	000A ..	LUBRDR	0000 ..				

LUBTAB

LUBTAB



Size

LUB LENGTH IN BYTES (LUBL) 02

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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0	LUB000	2		
---	--------	---	--	--

1E2	LUB241	2		
-----	--------	---	--	--

Bits defined in LUB241

00	LUBP	DISPLACEMENT TO PUB POINTER
01	LUBJ	DISPLACEMENT TO JIB POINTER

CROSS REFERENCE (Name Disp Value)

LUBJ	01E2 01	LUBP	01E2 00	LUB000	0000 ..
LUBL	.... 02			LUB241	01E2 ..

NUCON: NUCLEUS CONSTANT AREA

NUCON is the nucleus constant area of CMS. NUCON is invoked via the NUCON macro.

0	RSTNPSW		RSTOPSW		
10	ACMSCVT	ASYSREF	EXTOPSW		
20	SVCOPSW		PGMOPSW		
30	MCKOPSW		IOOPSW		
40	CSW		CAW	////////	
50	////////	NUCRSV2	EXTNPSW		
60	SVCNPSW		PGMNPSW		
70	MCKNPSW		IONPSW		
80	NUCRSV3				
90	NUCRSV4	N*1	N*2	PERADDR	MONCODE
A0	NUCCOPYR				
C0	LOWSAVE				
160	FPRLOG				
180	GPRLOG				
1C0	ECRLOG				
200	SYSTEMID				
220	INSTALID				
260	SYSNAME		N*3	N*4	DEVICE
270	N*5	///	FEIBM		

280	CURRDATE		CURRTIME	
290	CURRVIRT	CURRCPUT	LASTVIRT	LASTCPUT
2A0	LASTCMND		LASTEXEC	
2B0	LASTLMOD		LASTTMOD	
2C0				

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	IPLPSW	8		INITIAL PROGRAM LOADING PSW
8	IPLCCW1	8		INITIAL PROGRAM LOADING CCW1
10	IPLCCW2	8		INITIAL PROGRAM LOADING CCW2
0	RSTNPSW	8		PSW RESTART NEW PSW
8	RSTOPSW	8		PSW RESTART OLD PSW
10	ACMSCVT	4		ADDRESS OF SIMULATED OS CVT
14	ASYSREF	4		ADDRESS OF NUCLEUS ADDRESS TABLE
18	EXTOPSW	8		EXTERNAL OLD PSW
20	SVCOPSW	8		SUPERVISOR CALL OLD PSW
28	PGMOPSW	8		PROGRAM OLD PSW
30	MCKOPSW	8		MACHINE-CHECK OLD PSW
38	IOOPSW	8		INPUT/OUTPUT OLD PSW
40	CSW	8		CHANNEL STATUS WORD
48	CAW	4		CHANNEL ADDRESS WORD
4C	NUCRSV1	4		RESERVED
50	TIMER	4		INTERVAL TIMER
54	NUCRSV2	4		RESERVED
58	EXTNPSW	8		EXTERNAL NEW PSW
60	SVCNPSW	8		SUPERVISOR CALL NEW PSW
68	PGMNPSW	8		PROGRAM NEW PSW
70	MCKNPSW	8		MACHINE-CHECK NEW PSW
78	IONPSW	8		INPUT/OUTPUT NEW PSW
80	CPULOG	384		CPU LOGOUT AREA

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
80	NUCRSV3	0		RESERVED FOR FUTURE USE
90	NUCRSV4	4		RESERVED FOR FUTURE USE
94	MONCLASS	2 N*1		MONITOR CALL CLASS NUMBER
96	PERCODE	2 N*2		PROGRAM EVENT RECORDER CODE
98	PERADDR	4		PROGRAM EVENT RECORDER ADDRESS
9C	MONCODE	4		MONITOR CALL CODE
A0	NUCCOPYR	32		IBM VM/SP 5664-167' CMS COPYRIGHT
C0	LOWSAVE	160		SAVE AREA FOR 1ST 160 BYTES OF STORAGE
160	FPRLOG	32		FLOATING POINT REGISTER LOGOUT AREA
180	GPRLOG	64		GENERAL PURPOSE REGISTER LOGOUT AREA
1C0	ECRLOG	64		EXTENDED CONTROL REGISTER LOGOUT AREA
SYSTEM USAGE				
200	SYSTEMID	32		SYSTEM NAME AND DATE
220	INSTALID	64		INSTALLATION IDENTIFICATION
260	SYSNAME	8		NAME OF IPL'ED SAVED SYSTEM
268	IPLADDR	2 N*3		ADDRESS OF IPL'ED DEVICE
26A	SYSADDR	2 N*4		ADDRESS OF SYSTEM DISK
26C	DEVICE	4		NAME OF DEVICE CAUSING LAST I/O INTERRUPT
270	HLPADDR	2 N*5		ADDRESS OF HELP DISK
274	FEIBM	12		COMPONENT ID-IPCS REFERENCED
280	DIAGTIME	24		BUFFER FOR DIAGNOSE TIMER
280	CURRDATE	8		CURRENT DATE - MM/DD/YY
288	CURRTIME	8		CURRENT TIME - HH.MM.SS
290	CURRVIRT	4		CURRENT ELAPSED VIRTUAL TIME USED
294	CURRCPUT	4		CURRENT ELAPSED CPU TIME USED
298	LASTVIRT	4		PREVIOUS ELAPSED VIRTUAL TIME USED
29C	LASTCPUT	4		PREVIOUS ELAPSED CPU TIME USED
2A0	LASTCMND	8		LAST COMMAND ISSUED
2A8	PREVCMND	8		NEXT TO LAST COMMAND
2B0	LASTEXEC	8		LAST EXEC PROCEDURE
2B8	PREVEXEC	8		NEXT TO LAST EXEC
2C0	LASTLMOD	8		LAST MODULE LOADMODED INTO MAIN STORAGE

NUCON

NUCON

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
2C8	LASTTMOD	8		LAST MODULE LOADMODED INTO TRANSIENT AREA
2D0	DATIPCMS	8		DATE (MM/DD/YY) AT LAST IPL CMS
2D8	CLKVALMD	8		TIME (STCK FORM) AT MIDNIGHT (0000 HOURS)

MACRO AND TEXT LIBRARY POINTERS

2E0	MACDIRC	0		ADDRESS OF MACRO LIBRARY DIRECTORIES
300	MACLIBL	0		CURRENT MACRO LIBRARY NAMES
348	TXLIBSV	4		LIBE SAVE AREA TXTLIBS
34C	MACLBSV	4		LIBE SAVE AREA MACLIBS
350	TOTLIBS	4		TOTAL GLOBAL CHAINS (BYTES)
354	TXTDIRC	4		ADDRESS OF TEXT LIBRARY DIRECTORIES
358	TXTLIBS	0		CURRENT TEXT LIBRARY NAMES

DEBUG DUMP PARAMETERS

3A0	DUMPLIST	0		DEBUG DUMP PARAMETER LIST
3A0	GRS015	4		ADDRESS OF GPR SAVE AREA
3A4	LOC0176	4		ADDRESS OF LOW CORE SAVE AREA
3A8	FIRSTDMP	4		ADDRESS OF FIRST LOCATION TO DUMP
3AC	LASTDMP	4		ADDRESS OF LAST LOCATION TO DUMP
3B0	FRS06	4		ADDRESS OF FPR SAVE AREA
3B4	DMPTIT	4		ADDRESS OF DUMP TITLE LINE
3BC	DMPTITLE	132		DUMP TITLE LINE
440	GLBLTABL	4		RESERVED
448	ERR\$202	4		USER WILL FILL IN IF NECESSARY

BATCH MONITOR INFORMATION

450	BATFLAGS	1		BATCH FLAGS
-----	----------	---	--	-------------

Bits defined in BATFLAGS

80	BATRUN	BATCH MONITOR RUNNING
40	BATLOAD	LOADING BATCH PROCESSOR
20	BATNOEX	SUPPRESS USER JOB EXECUTION
10	BATRERR	BATCH READER ERROR
08	BATCPEX	CP COMMAND EXECUTING
04	BATUSEX	USER JOB EXECUTING
02	BATMOVE	MOVEFILE EXECUTING FROM TERMINAL
01	BATTERM	USER JOB BEING FLUSHED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
451	BATFLAG2	1		MORE BATCH FLAGS
Bits defined in BATFLAG2				
80	BATXLIM			USER JOB LIMIT EXCEEDED
40	BATXCPU			CPU TIME EXCEEDED
20	BATXPRT			NUMBER PRINTED LINES EXCEEDED
10	BATXPUN			NUMBER PUNCHED CARDS EXCEEDED
08	BATDCMS			DISABLED CMS COMMAND CALLED
04	BATIPLSS			BATCH IPLING SAVED SYSTEM
02	BATSTOP			BATCH STOPPING AFTER CURRENT JOB
01	BATSYSAB			SYSTEM ABEND IN PROCESS
452	BATFLAG3	1		MORE BATCH FLAGS
Bits defined in BATFLAG3				
80	BATCPFNG			CPF LINK FAILURE
454	ABATPROC	4		MAIN ENTRY
458	ABATABND	4		USER JOB ABEND ENTRY
45C	ABATLIMT	4		USER JOB LIMITS TABLE
460	AUSERRST	4		VIRTUAL MACHINE RESTART ENTRY POINT
464	NUSERFWD	4		FULLWORD FOR EXCLUSIVE USE OF USER
468	NUCRSV7	4		RESERVED FOR FUTURE USE
DOS LIBRARY POINTERS				
46C	DOSLBSV	4		LIBE SAVE AREA DOSLIBS
470	DOSDIRC	0		ADDRESS OF DOS LIBRARY DIRECTORIES
490	DOSLIBL	0		CURRENT DOS LIBRARY NAMES
4D8	DOSFLAGS	1		DOS SIMULATION FLAGS
Bits defined in DOSFLAGS				
80	DOSMODE			DOS ENVIRONMENT FLAG
40	DOSSVC			DOS SVC SIMULATION FLAG
20	DOSVSAM			DOS VSAM RUNNING FLAG
10	DOSCOMP			DOS COMPILER RUNNING FLAG
08	DOSPPIO			DOS PRINTER INDICATOR
04	VSMINSTL			VSAM INSTAL FLAG TO RELOCATE DCSS TABLE
4D9	DOSRC	1		DOS RETURN CODE TO USER
4DC	ALTASAVE	4		ADDRESS OF LTA SAVE AREA
4E0	ABGCOM	4		ADDRESS OF PARTITION COMM. REGION
4E4	ASYSKOM	4		ADDRESS OF SYSTEM COMM. REGION
4E8	ADOSDCSS	4		ADDRESS OF DOS DCSS
4EC	SVC12SAV	4		WORK AREA FOR SVC12
4F0	DOSFIRST	4		ADDRESS OF FIRST DOSCB IN CHAIN

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
4F4	DOSNUM	2		NUMBER DOSCB'S IN CHAIN
4F6	DOSKPART	2		NUMBER K-BYTES IN DOS PARTITION
4F8	APPSAVE	4		ADDRESS OF PROBLEM PROGRAM SAVE AREA
4FC	DOSTRANS	4		ADDRESS OF DOS TRANSIENT AREA
FREE STORAGE POINTERS				
500	MAINLIST	4		ADDRESS OF 1ST BLOCK USER FREE STORAGE
504	MAINSTRT	4		ADDRESS OF THE START OF USER FREE STORAGE
508	FREELIST	4		ADDRESS OF 1ST BLOCK OF SYSTEM STORAGE
50C	FREENUM	4		NUMBER OF BLOCKS OF SYSTEM STORAGE
510	MAINHIGH	4		HIGH EXTEND OF USER FREE STORAGE
514	FREELOWE	4		LOW EXTEND OF SYSTEM FREE STORAGE
518	FREELOWR	4		LOWER LIMIT OF SYSTEM FREE STORAGE
51C	FREEUPPR	4		UPPER LIMIT OF SYSTEM FREE STORAGE
520	ANUCEND	4		ADDRESS OF END OF NUCLEUS STORAGE AREA
524	AUSRAREA	4		ADDRESS OF BEGINNING OF USER AREA
528	CURRSAVE	4		ADDRESS OF CURRENT SAVE AREA
52C	CODE203	2		CODE NUMBER OF LAST SVC 203
52E	FRERESPG	2		AMOUNT OF USER STORAGE TO RESERVE FOR CMS FREE STORAGE (PAGES: >=2)
530	ADMSFRT	4		DMSFRE WORK AREA
V-CONSTANTS FOR CALLING "ADTLKP/ADTNXT/ADTLKW" VIA BALR CALLS				
534	VCADTLKP	4		BALR EQUIVALENT OF "ADTLKP"
538	VCADTNXT	4		BALR EQUIVALENT OF "ADTNXT"
53C	VCADTLKW	4		BALR EQUIVALENT OF "ADTLKW"
CONSTANT I/O POINTERS				
540	CURRIOOP	4		ADDRESS OF CURRENT I/O BUFFER
544	PENDREAD	4		ADDRESS OF PENDING READ OPERATION
548	PENDWRIT	4		ADDRESS OF PENDING WRITE OPERATION
54C	FSTFINRD	4		ADDRESS OF FINISHED READ BUFFER
550	LSTFINRD	4		ADDRESS OF LAST FINISHED READ BUFFER
554	AINTRTBL	4		ADDRESS OF USER INPUT TRANSLATE TABLE
558	AOUTRTBL	4		ADDRESS OF USER OUTPUT TRANSLATE TABLE
55C	NUMFINRD	2		NUMBER OF FINISHED READ BUFFERS

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
55E	NUMPNDWR	2		NUMBER OF PENDING WRITE OPERATIONS
LOADER INFORMATION				
560	VMSIZE	4		VIRTUAL MEMORY SIZE
564	ALDRTBLS	4		ADDRESS OF LOADER TABLES
568	STRTADDR	4		MODULE STARTING ADDRESS
56C	FRSTLOC	4		MODULE BEGINNING ADDRESS
570	LASTLOC	4		MODULE ENDING ADDRESS
574	LOCCNT	4		LOADER LOCATION COUNTER
578	LDRADDR	4		LOADER RETURN ADDRESS
57C	LDRRTCD	4		LOADER RETURN CODE
580	PSW	8		USER'S STARTING PSW
588	LDRFLAGS	4		LOADER FLAGS
58C	PRHOLD	4		PSEUDO REGISTER COUNTER
590	TBENT	2		INITIALIZE TABLE ENTRIES TO ZEROES
592	UNRES	1		
593	MODFLGS	1		MOD FLAGS
Bits defined in MODFLGS				
80	NOMAPFLG			NOMAP FLAG
40	CLEAROP			CLEAR OPTION FLAG
20	MODGNDOS			MODULE GENERATED WITH DOS OPTION
10	MODGNALL			MODULE GENERATED WITH ALL OPTION
08	SYSLOAD			ALLOW LOAD >FREELOWE OR <TRANS
04	MDPCALL			INDICATE CALL FROM DMSMDP
02	MOD6			RESERVED FOR FUTURE USE
01	MOD7			RESERVED FOR FUTURE USE
594	GET1	4		DMSLSY R1 SAVE LOC
598	DSYM	8		DMSLSY WORK SPACE
5A0	JSYM	4		DMSLSY UNIQUE SYMBOL BASE
5A4	NXTSYM	1		1ST CHARACTER OF UNIQUE SYMBOL
5AC	ALIASENT	4		ALIAS ENTRY POINT (DYNAMIC LOAD)
5B0	DYNAEND	4		MAXIMUM LOAD LOC (DYNAMIC LOAD)
OS SIMULATION POINTERS				
5B4		4		RESERVED
5B8	LABFIRST	4		ADDRESS OF FIRST LABSECT
5BC	LABNUM	2		NUMBER OF LABSECT'S
5C0	FCBTAB	0		FCB CHAIN ANCHOR

NUCON

NUCON

Disp Name Len Key Description

5C0 FCBFIRST 4 ADDRESS OF FIRST FCB
5C4 FCBNUM 2 NUMBER OF FCB'S IN CHAIN
5C7 OSSFLAGS 1 OS SIMULATION FLAGS

Bits defined in OSSFLAGS

80 COMPSWT COMPILER SWITCH
40 OSSMNU DMSSMN UNCONDITIONAL FLAG
20 OSRESET
10 OSWAIT
08 DYLD DYNAMIC LOADING IN PROCESS
04 DYLIBO OMIT DYNAMIC LIBRARY SCAN
02 DYLIBNOW DYNAMIC LIBRARY SCAN
01 DYMBRNM LINKED VIA MEMBER NAME

5C8 ATLBMODL 4 ADDRESS OF TAPE LABEL PROCESSOR
5CC LINKLAST 4 ADDRESS OF LAST OS LINKAGE BLOCK
5D0 LINKSTRT 4 ADDRESS OF ENTRY POINT OF LAST MODULE
5D4 TAXEADDR 4 TERMINAL ATTENTION EXIT ELEMENT ADDRESS
5D8 ATSOCPPL 4 ADDRESS OF TEMPORARY PLIST FOR TSO PROGRAMS
5DC DCBSAV 4 DCB RESTORATION ADDRESS

SWITCHES

5E0 OPTFLAGS 1 OPTION FLAGS

Bits defined in OPTFLAGS

80 NOIMPEX NO IMPLIED EXEC COMMANDS
40 NOIMPCP NO IMPLIED CP COMMANDS
20 NOSTDSYN NO STANDARD SYNONYMS
10 NOABBREV NO COMMAND ABBREVIATIONS
08 NOPAGREL NO AUTOMATIC PAGE RELEASE
04 NOVREAD NO AUTOMATIC VM CONSOLE READ

5E1 MISFLAGS 1 MISCELLANEOUS FLAGS

Bits defined in MISFLAGS

80 KXSWITCH KILL EXECUTION SWITCH
40 KOSWITCH KILL TRACING SWITCH
20 RELPAGES RELEASE PAGES SWITCH
10 GRAFDEV GRAPHICS CONSOLE
08 QSWITCH QUIET SW FOR CRD
04 NODDSK DON'T ACCESS D DISK..
02 NEGITS NEGATIVE RETURN CODE FROM DMSITS
01 ATTNHIT ATTENTION POSTED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
5E2	MSGFLAGS	1		MESSAGE FLAGS
	Bits defined in MSGFLAGS			
80	NOTYPOUT			NO TYPING - SET BY EXEC
40	NOTYPING			NO TYPING - SET BY KT
20	NORDYMSG			NO READY MESSAGE TO BE TYPED
10	NORDYTIM			NO TIME ON READY MESSAGE
08	REDERRID			ERROR CODE TO BE TYPED IN RED
04	NOERRMSG			NO ERROR MESSAGES TO BE TYPED
02	NOERTXT			NO TEXT ON ERROR MESSAGES
01	SPECLF			LINEFEED FOR TYPEWRITER CCW
5E3	DBGFLAGS	1		DEBUG FLAGS
	Bits defined in DBGFLAGS			
80	DBGEXEC			DEBUG EXECUTING
40	DBGPGMCK			DEBUG ENTERED BY A PROGRAM CHECK
20	DBGEXINT			DEGUB ENTERED BY AN EXTERNAL INTERRUPT
10	DBGABN			DEBUG ENTERED FROM DMSABN
08	DBGNSHR			NO SHARED-SEGMENT PRESENT
04	DBGSHR			SHARED-SEGMENT PRESENT
02	DBGRECUR			RECURSION FLAG
5E6	EXECFLAG	1		EXEC FLAGS
	Bits defined in EXECFLAG			
80	EXECRUN			EXEC COMMAND RUNNING
5E7	PROTFLAG	1		STORAGE PROTECTION FLAGS
	Bits defined in PROTFLAG			
80	PRFPOFF			STORAGE PROTECTION IS SHUT OFF
40	PRFTSYS			SYSTEM ROUTINE IN TRANSIENT AREA
20	PRFUSYS			SYSTEM ROUTINE IN USER AREA
5E8	TSOFLAGS	1		TSO FLAG BYTE
	Bits defined in TSOFLAGS			
80	TSOATCNL			READ CANCELED BY ATTENTION
5E9	SUBFLAG	1		CMS SUBSET FLAG-BYTE
	Bits defined in SUBFLAG			
08	SUBREJ			SUBSET COMMAND REJECT
04	SUBRTN			SUBSET-RETURN
02	SUBINIT			SUBSET INITIALIZATION
01	SUBACT			SUBSET ACTIVE
| 5EA		1		RESERVED
5EC	ASYSNAMS	4		
| 5F0		4		RESERVED
5F4	ADMSLIO	4		

NUCON

NUCON

Disp Name Len Key Description

V-CONSTANTS FOR CALLING "FSTLKP/FSTLKW" VIA BALR CALLS

5F8 VCFSTLKP 4 BALR EQUIVALENT OF "FSTLKP"
5FC VCFSTLKW 4 BALR EQUIVALENT OF "FSTLKW"

NUCLEUS ADDRESS TABLE

600 SYSREF 0
600 AFVS 4
604 AOPSECT 4
608 ADEVTAB 4
60C AFSTLKP 4
610 AGETCLK 4
614 AFSTLKW 4
618 APIE 4
61C AIADT 4
620 AUSER 4
624 ARDTK 4
628 ASCANN 4
62C ASSTAT 4
630 ATABEND 4
634 ASUBSECT 4
638 ADMSSVT 4 ADDRESS OF DMSSVT
63C AWRTK 4
640 ASTRINIT 4
644 IADT 4
648 AFREE 4
64C AFRET 4
650 ADMSPIOC 4
654 APMSECT 4
658 AIOSECT 4
65C ADMPEXEC 4
660 ADIOSECT 4
664 AABNSVC 4
668 ADMSERL 4
66C ADMSCRD 4

NUCON

NUCON

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
670	ADMSFREB	4		
674	ASVCSECT	4		
678	AADTLKP	4		
67C	AUPUFD	4		
680	ASTATEXT	4		
684	AOSRET	4		
688	ACMSRET	4		
68C	ASCANO	4		
690	AEXEC	4		
694	ASTART	4		
698	AADTLKW	4		
69C	AUSABRV	4		
6A0	AEXTSECT	4		
6A4	ASCBPTR	4		
6A8	ADMSROS	4		
6AC	LDMSROS	2		
6AE	CDMSROS	2		
6B0	AACTLKP	4		
6B4	AACTNXT	4		
6B8	AACTFREE	4		
6BC	AACTFRET	4		
6C0	AADTNXT	4		
6C4	ATRKLKP	4		
6C8	ATRKLKPX	4		
6CC	AQQTRK	4		
6D0	AQQTRKX	4		
6D4	AERASE	4		
6D8	ATYPSRCH	4		
6DC	AUPDISK	4		
6E0	AKILLEX	4		
6E4	ATFINIS	4		
6E8	ARDBUF	4		

NUCON

NUCON

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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6EC	AWRBUF	4		
6F0	AFINIS	4		
6F4	ASTATE	4		
6F8	ASTATEW	4		
6FC	APOINT	4		

TERMINAL POINTERS

710	CONINBLK	4		
716	CONINBUF	134		
7A0	CMNDLINE	160		
848	CMNDLIST	536		
A60	CONSTACK	320		

SAVE AREAS

BA0	FREESAVE	64		
BE0	BALRSAVE	64		
C20	WAITSAVE	64		

PERCENT OF AVAILABLE USER STORAGE TO RESERVE FOR GETVIS/FREEVIS USE WHEN RUNNING VSAM

C60	PCTVSAM	2		50 PERCENT FOR CMS/VSAM USE
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BEGINNING AND END OF "IKQLAB" (WHEN IN STORAGE)

C68	ADIKQLAB	4		SET TO A(IKQLAB) WHEN IT IS IN STORAGE
C6C	NDIKQLAB	4		SET TO END OF IKQLAB WHEN IN STORAGE
C70	ALOKTB	4		LOCK/UNLOCK RESOURCE TABLE
C74	ADMSVIB	4		ADDRESS OF VSAM INTERFACE BOOTSTRAP
C78	AVIPWORK	4		ADDRESS OF DMSVIP WORK AREA
C7C	VSAMFLG1	1		VSAM INFORMATION FLAG

Bits defined in VSAMFLG1

80	VSAMRUN			VSAM SYSTEM LOADED
40	VSJOB CAT			VSAM JOB CATALOG ACTIVE
20	VIPINIT			DMSVIP HAS BEEN INITIALIZED
10	VSAMSERV			CMS/AMS SYSTEM LOADED (AMSERV RUNNING)
08	VIPSOP			05 INTERFACE SVC 2 CALL
04	VIPTCLOS			05 'TCLOSE' CALL
02	VSAMSOS			05 AMSERV RUNNING

C80	AVSAMSYS	4		ADDRESS OF VSAM SAVED SYSTEM
C84	AAMSSYS	4		ADDRESS OF CMSAMS SAVED SYSTEM
C88	AVSREOJ	4		DMSVSR ENTRY POINT FROM VSAM \$\$\$BACLOS

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
C8C	AVSRWORK	4		ADDRESS OF DMSVSR WORK AREA
C90	ACBLIST	4		ACB LIST BUILT BY OPEN/CLOSE
C98	AABWSECT	4		POINTER FOR IPCS
C9C	ADMSZIT	4		POINTER FOR IPCS
SECONDARY ADDRESS TABLE				
CA0	ADMSTRKA	4		EDF DISK BLOCK ALLOCATE
CA4	ADMSTRKM	4		EDF DISK BLOCK MARKFUNCTION
CA8	ADMSTRKD	4		EDF DISK BLOCK DEALLOCATE
CAC	ADMSALU	4		ADDRESS OF RELEASE SUBROUTINE
CB0	ASORTFST	4		ADDRESS OF SORT FST SUBROUTINE
CB4	ADEVSUP	4		CP TO OS DEVICE TYPE CONV TABLE
CB8	ADEVIND	4		DEVICE CONST TABLE INDEX
CBC	ATBLIND	4		DEVICE CONSTANTS TABLE
CC0	ABLKIND	4		DEVICE BLKSIZE INDEX
CC4	ALABELRD	4		ADDRESS OF LABEL READ ROUTINE
CC8	ALABELWR	4		ADDRESS OF LABEL WRITE ROUTINE
CCC	ADMSLADN	4		LOCATE/ADD REQUESTED ADT
CD0	ADMSBLKR	4		EDF BLOCK READ ROUTINE
CD4	ADMSBLKW	4		EDF BLOCK WRITE ROUTINE
CD8	AABBREV	4		ABBREVIATION RESOLVER IN DMSINA
CDC	ADEVSUP2	4		DEVICE SUPPORT TABLE FOR FBA
CE0	AESTATE	4		EXTENDED PLIST STATE
CE4	AESTATEW	4		EXTENDED PLIST STATE FOR R/W
CE8	AEPOINT	4		EXTENDED PLIST POINT
CEC	ATRUNC	4		FILE TRUNCATE FUNCTION
CF0	ABAMSYS	4		POINTER TO CMSBAM DCSS
CF4	NUCSCBLK	4		SCBLOCK CHAIN ANCHOR
CF8	BAMFLAGS	1		CMSBAM SHARED SEGMENT FLAGS

Bits defined in BAMFLAGS

80 DOSBAM FB-512 SUPPORT AVAILABLE

NUCON

NUCON

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
CF9	NUCOSFLG	1		OS LOADER SUPPORT FLAG
Bits defined in NUCOSFLG				
80	NUCOSRUN			OSRUN COMMAND ISSUED
40	NUCSYSDF			\$\$SYSLIB DEFINED BY LDR SUPRT
20	NUCGLOBL			GLOBAL DONE BY OSRUN
10	NUCOSRLD			MEMBER LOADED FOR OSRUN
CFA	NUCRSVB2	2		RESERVED
D04	ASSTATX	4		ADDRESS OF SHARED COPY OF SSTAT
D08	ASSTATZ	4		ADDRESS OF DUMMY 2ND SSTAT HBLK
D0C	AYSTATX	4		ADDRESS OF SHARED COPY OF YSTAT
D10	AYSTATZ	4		ADDRESS OF DUMMY 2ND YSTAT HBLK
D14	ADMSIOW	4		DMSIOW
D18	ADBGSECT	4		DEBUG WORK AREA
D1C	ADMSABW	4		ABEND WORK AREA
D20	ADMSERR	4		DMSERR
D24	ADMSCWT	4		DMSCWT
D28	ADMSCWR	4		DMSCWR
D2C	ADMSIOWR	4		DMSIOWR
D30	ADMSITI	4		DMSITI
D34	ADMSABN	4		DMSABN
D38	AABNGO	4		DMSABNGO
D3C	ALADAD	4		DMSLADAD
D40	ACITDB	4		DMSCITDB
D44	ADMSITSR	4		DMSITSR
D48	ADMSFRES	4		DMSFRES
D4C	ASTGSB	4		DMSSTGSB
D50	AINTAB	4		DMSINTAB
D54	ADMSCAT	4		DMSCAT
D58	ADMSCPF	4		DMSCPF
D5C	AEXCAB	4		ADDRESS OF EXEC ABEND RTN
D60	NUCFSTLN	4		FIRST LINE IN PROGRAM STACK
D64	NUCLSTLN	4		LAST LINE IN PROGRAM STACK
D68	NUCNLSTK	4		NUMBER OF LINES IN PROGRAM STACK
D6C	NUCNBSTK	4		NUMBER OF PROGRAM STACK

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
D70	NUCTIEIN	8		LISTING TIEIN FIELD
D78	NUCAFCHS	4		ADDRESS OF OS FETCH WORK AREA
D7C	NUCCBLKS	4		POINTER TO MODS LOADED BY DMSLOS
D80	NUCLDLIB	0		LIST OF GLOBALED LOADLIBS
DC8	NUCLODSV	4		SAVE AREA FOR LOADLIB TOTALS
DCC	NUCLDIRC	0		POINTERS TO LOADLIB DIRECTORIES
DEC	NUCAPIO	4		DMSPIO ROUTINE
DF0	ATCBPTR	4		DOS TCB ADDRESS
DF4	AGAMSEG	4		GAM/SP ANCHOR BLOCK ADDRESS
DF8	NUCALPHA	4		ADDRESS(START OF CMS NUCLEUS CODE)
DFC	NUCSIGMA	4		ADDRESS(START OF NUCLEUS SHARED STOR)
E00	NUCOMEGA	4		ADDRESS(END OF CMS NUCLEUS CODE)
E08	NUCPLIST	0		UNTOKENIZED PLIST
E08	NUCPLCMD	4		ADDRESS OF COMMAND TOKEN
E0C	NUCPLBEG	4		ADDRESS OF START OF ARG STRING
E10	NUCPLEND	4		ADDRESS OF END OF ARG STRING
E14	NUCPLFID	4		ADDRESS OF FN FT FM IDENTIFIER
E14	NUCPLSWT	1		1-BYTE SWITCH USED IN DMSSCN
E28	NUCSZABV	4		SIZE OF AREA ABOVE NUCLEUS FRETED
E2C	NUCADFNC	4		DMSFNC ADDRESS
E30	NUCLDR0S	4		SAVE R0 IN DMSLDR (NEW FORM PL)
E34	NUCUPPER	4		UPPERCASE TRANSLATE TABLE
E38	NUCERT	4		DMSERT WORK AREA ADDRESS
E3C	NUXCBLK	4		ANCHOR FOR NUCLEUS
E40	NUXFRES	4		CUMULATIVE AMOUNT OF TYPE=NUCLEUS FREE STORAGE THAT WILL BE RETAINED BY NUCLEUS EXTENSIONS THROUGH AN ABEND. THIS DOES NOT INCLUDE STORAGE ACCOUNTED FOR IN SCBLOKS IN THE NUXCBLK CHAIN. THIS FIELD IS USED BY DMSABN WHEN PERFORMING ABEND RECOVERY.
E44	NUXCBE	4		SCBLOCK FREE LIST ANCHOR
E48	NUCUSER1	4		FW FOR EXCLUSIVE USE OF USERS
E4C	NUCUSER2	4		FW FOR EXCLUSIVE USE OF USERS
E50	NUCUSER3	4		FW FOR EXCLUSIVE USE OF USERS
E54	NUCUSER4	4		FW FOR EXCLUSIVE USE OF USERS

NUCON

NUCON

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
E58	USERLVL	4		
E5C	CMSLVL	1		RESERVED
E5D	CMSPROG	1		UNIQUE PROGRAM PRODUCT ID
E5E	CMSSERV	2		CMS SERVICE LEVEL IN BINARY
E60	ACMSLVLM	4		ACMSLVLM IS RESERVED FOR IBM USE ONLY. IT CONTAINS A POINTER TO THE MESSAGE QUERY CMSLEVEL ISSUES.
E64	AIUCVTAB	4		ADDRESS OF IUCV TABLE
E68	NUCXEND	4		COUNTER OF END-OF-COMMAND NUCLEUS EXTENTIONS
E6C	ABNXTPTR	4		ABEND EXIT ANCHOR
E70	ADMSABXR	4		ABNEXIT RESET ENTRY
E74	AIMMTABL	4		ADDRESS OF IMMEDIATE COMMAND WORK AREA
E78	IMESCAPE	2		IMMEDIATE COMMAND ESCAPE CHARACTER INFORMATION

Bits defined in first byte of IMESCAPE

80 IMACTIVE IMMEDIATE COMMAND ESCAPE CHARACTER ACTIVE

The following references the second byte of IMESCAPE.

	IMCHAR			IMMEDIATE COMMAND ESCAPE CHARACTER
E7A		2		RESERVED
E7C	SVCWKADR	4		ADDRESS OF DMSDOS SVC WORK AREA

CROSS REFERENCE (Name Disp Value)

AABBREV	0CD8	..	AEPOINT	0CE8	..	ATFINIS	06E4	..	CURRSAVE	0528	..
AABNGO	0D38	..	AERASE	06D4	..	ATLBMODL	05C8	..	CURRTIME	0288	..
AABNSVC	0664	..	AESTATE	0CE0	..	ATRKLKP	06C4	..	CURRVIRT	0290	..
AABWSECT	0C98	..	AESTATEW	0CE4	..	ATRKLKPX	06C8	..	DATIPCMS	02D0	..
AACTFREE	06B8	..	AEXCAB	0D5C	..	ATRUNC	0CEC	..	DBGABN	05E3	10
AACTFRET	06BC	..	AEXEC	0690	..	ATSOCPPL	05D8	..	DBGEXEC	05E3	80
AACTLKP	06B0	..	AEXTSECT	06A0	..	ATTNHIT	05E1	01	DBGEXINT	05E3	20
AACTNXT	06B4	..	AFINIS	06F0	..	ATYPSRCH	06D8	..	DBGFLAGS	05E3	..
AADTLKP	0678	..	AFREE	0648	..	AUPDISK	06DC	..	DBGNSHR	05E3	08
AADTLKW	0698	..	AFRET	064C	..	AUPUFD	067C	..	DBGPGMCK	05E3	40
AADTNXT	06C0	..	AFSTLKP	060C	..	AUSABRV	069C	..	DBGRECUR	05E3	02
AAMSSYS	0C84	..	AFSTLKW	0614	..	AUSER	0620	..	DBGSHR	05E3	04
ABAMSYS	0CF0	..	AFVS	0600	..	AUSERST	0460	..	DCBSAV	05DC	..
ABATABND	0458	..	AGAMSEG	0DF4	..	AUSRAREA	0524	..	DCSSAVAL	05EA	80
ABATLIMT	045C	..	AGETCLK	0610	..	AVIPWORK	0C78	..	DCSSCPNV	05EA	20
ABATPROC	0454	..	AIADT	061C	..	AVSAMSYS	0C80	..	DCSSFLAG	05EA	..
ABGCOM	04E0	..	AIMMTABL	0E74	..	AVSREOJ	0C88	..	DCSSJLNS	05EA	01
ABLKIND	0CC0	..	AINTAB	0D50	..	AVSRWORK	0C8C	..	DCSSVTLN	05EA	40
ABNXTPTR	0E6C	..	AINTRTBL	0554	..	AWRBUF	06EC	..	DCSSLSDS	05EA	10
ACBLIST	0C90	..	AIOSECT	0658	..	AWRTK	063C	..	DCSSOVL	05EA	02
ACITDB	0D40	..	AIUCVTAB	0E64	..	AYSTATX	0D0C	..	DCSSVTL	05EA	04
ACMSCVT	0010	..	AKILLEX	06E0	..	AYSTATZ	0D10	..	DCSSVTNA	05EA	08
ACMSLVL	0E60	..	ALABELRD	0CC4	..	BALRSAVE	0BE0	..	DEVICE	026C	..
ACMSRET	0688	..	ALABELWR	0CC8	..	BAMFLAGS	0CF8	..	DIAGTIME	0280	..
ACMSSEG	05F0	..	ALADAD	0D3C	..	BATCPEX	0450	08	DMPTIT	03B4	..
ADBGSECT	0D18	..	ALDRTBLS	0564	..	BATCPFNG	0452	80	DMPTITLE	03BC	..
ADEVIND	0CB8	..	ALIASENT	05AC	..	BATDCMS	0451	08	DOSBAM	0CF8	80
ADEVSUP	0CB4	..	ALOKTB	0C70	..	BATFLAGS	0450	..	DOSCOMP	04D8	10
ADEVSUP2	0CDC	..	ALTASAVE	04DC	..	BATFLAG2	0451	..	DOSDIRC	0470	..
ADEVTAB	0608	..	ANUCEND	0520	..	BATFLAG3	0452	..	DOSFIRST	04F0	..
ADIKQLAB	0C68	..	AOPSECT	0604	..	BATIPLSS	0451	04	DOSFLAGS	04D8	..
ADIOSECT	0660	..	AOSMODL	0638	..	BATLOAD	0450	40	DOSKPART	04F6	..
ADMPEXEC	065C	..	AOSRET	0684	..	BATMOVE	0450	02	DOSLSBV	046C	..
ADMSABN	0D34	..	AOUTRTBL	0558	..	BATNOEX	0450	20	DOSLIBL	0490	..
ADMSABW	0D1C	..	APGMSECT	0654	..	BATRERR	0450	10	DOSMODE	04D8	80
ADMSABXR	0E70	..	APIE	0618	..	BATRUP	0450	80	DOSNUM	04F4	..
ADMSALU	0CAC	..	APOINT	06FC	..	BATSTOP	0451	02	DOSPPIO	04D8	08
ADMSBLKR	0CD0	..	APPSAVE	04F8	..	BATSYSAB	0451	01	DOSRC	04D9	..
ADMSBLKW	0CD4	..	AQQTRK	06CC	..	BATTERM	0450	01	DOSSVC	04D8	40
ADMSCAT	0D54	..	AQQTRKX	06D0	..	BATUSEX	0450	04	DOSTRANS	04FC	..
ADMSCPF	0D58	..	ARDBUF	06E8	..	BATXCPU	0451	40	DOSVSAM	04D8	20
ADMSCRD	066C	..	ARDTK	0624	..	BATXLM	0451	80	DSYM	0598	..
ADMSCWR	0D28	..	ASCANN	0628	..	BATXPRT	0451	20	DUMPLIST	03A0	..
ADMSCWT	0D24	..	ASCANO	068C	..	BATXPUN	0451	10	DYLD	05C7	08
ADMSERL	0668	..	ASCBPTR	06A4	..	CAW	0048	..	DYLIBNOW	05C7	02
ADMSERR	0D20	..	ASORTFST	0CB0	..	CDMSROS	06AE	..	DYLIBO	05C7	04
ADMSFREB	0670	..	ASSTAT	062C	..	CLEAROP	0593	40	DYMBRNM	05C7	01
ADMSFRES	0D48	..	ASSTATX	0D04	..	CLKVALMD	02D8	..	DYNAEND	05B0	..
ADMSFRT	0530	..	ASSTATZ	0D08	..	CMNDLINE	07A0	..	ECRLOG	01C0	..
ADMSIOW	0D14	..	ASTART	0694	..	CMNDLIST	0848	..	ERR\$202	0448	..
ADMSIOWR	0D2C	..	ASTATE	06F4	..	CMSLVL	0E5C	..	EXECFLAG	05E6	..
ADMSITI	0D30	..	ASTATEW	06F8	..	CMSPROG	0E5D	..	EXECRUN	05E6	80
ADMSITSR	0D44	..	ASTATEX	0680	..	CMSERV	0E5E	..	EXTNPSW	0058	..
ADMSLADN	0CCC	..	ASTGSB	0D4C	..	CODE203	052C	..	EXTOPSW	0018	..
ADMSLIO	05F4	..	ASTRINIT	0640	..	COMPSWT	05C7	80	FCBFIRST	05C0	..
ADMSPIOC	0650	..	ASUBSECT	0634	..	CONINBLK	0710	..	FCBNUM	05C4	..
ADMSROS	06A8	..	ASVCSECT	0674	..	CONINBUF	0716	..	FCBTAB	05C0	..
ADMSTRKA	0CA0	..	ASYSOM	04E4	..	CONSTACK	0A60	..	FEIBM	0274	..
ADMSTRKD	0CA8	..	ASYSNAMS	05EC	..	CPULOG	0080	..	FIRSTDMP	03A8	..
ADMSTRKM	0CA4	..	ASYSREF	0014	..	CSW	0040	..	FPRLOG	0160	..
ADMSVIB	0C74	..	ATABEND	0630	..	CURRCPUT	0294	..	FREELIST	0508	..
ADMSZIT	0C9C	..	ATBLIND	0CBC	..	CURRDATE	0280	..	FRELOWE	0514	..
ADOSDCSS	04E8	..	ATCBPTR	0DF0	..	CURRIOOP	0540	..	FRELOWR	0518	..

FREENUM	050C	..	MAINLIST	0500	..	NUCPLBEG	0E0C	..	PSW	0580	..
FREESAVE	0BA0	..	MAINSTRT	0504	..	NUCPLCMD	0E08	..	QSWITCH	05E1	08
FREEUPPR	051C	..	MCKNPSW	0070	..	NUCPLEND	0E10	..	REDERRID	05E2	08
FRERESPG	052E	..	MCKOPSW	0030	..	NUCPLFID	0E14	..	REL PAGES	05E1	20
FRSTLOC	056C	..	MDPCALL	0593	04	NUCPLIST	0E08	..	RSTNPSW	0000	..
FRS06	03B0	..	MISFLAGS	05E1	..	NUCPLSWT	0E14	..	RSTOPSW	0008	..
FSTFINRD	054C	..	MODFLGS	0593	..	NUCRSVB2	0CFA	..	SPECLF	05E2	01
GET1	0594	..	MODGNALL	0593	10	NUCRSV1	004C	..	STRTADDR	0568	..
GLBLTABL	0440	..	MODGNDOS	0593	20	NUCRSV2	0054	..	SUBACT	05E9	01
GPRLOG	0180	..	MOD6	0593	02	NUCRSV3	0080	..	SUBFLAG	05E9	..
GRAFDEV	05E1	10	MOD7	0593	01	NUCRSV4	0090	..	SUBINIT	05E9	02
GRS015	03A0	..	MONCLASS	0094	..	NUCRSV7	0468	..	SUBREJ	05E9	08
HLPADDR	0270	..	MONCODE	009C	..	NUCSCBLK	0CF4	..	SUBRTN	05E9	04
IADT	0644	..	MSGFLAGS	05E2	..	NUCSIGMA	0DFC	..	SVCNPSW	0060	..
IMACTIVE	0E78	80	NDIKQLAB	0C6C	..	NUCSYSDF	0CF9	40	SVCOPSW	0020	..
IMESCAPE	0E78	..	NEGITS	05E1	02	NUCSZABV	0E28	..	SVCWKADR	057C	..
INSTALID	0220	..	NOABBREV	05E0	10	NUCTIEIN	0D70	..	SVC12SAV	04EC	..
IONPSW	0078	..	NODDSK	05E1	04	NUCUPPER	0E34	..	SYSADDR	026A	..
IOOPSW	0038	..	NOERRMSG	05E2	04	NUCUSER1	0E48	..	SYSLOAD	0593	08
IPLADDR	0268	..	NOERRTXT	05E2	02	NUCUSER2	0E4C	..	SYSNAME	0260	..
IPLCCW1	0008	..	NOIMPCP	05E0	40	NUCUSER3	0E50	..	SYSREF	0600	..
IPLCCW2	0010	..	NOIMPEX	05E0	80	NUCUSER4	0E54	..	SYSTEMID	0200	..
IPLPSW	0000	..	NOMAPFLG	0593	80	NUCXCBEE	0E44	..	TAXEADDR	05D4	..
JSYM	05A0	..	NOPAGREL	05E0	08	NUCXCBLK	0E3C	..	TBENT	0590	..
KOSWITCH	05E1	40	NORDYMSG	05E2	20	NUCXEND	0E68	..	TIMER	0050	..
KXSWITCH	05E1	80	NORDYTIM	05E2	10	NUCXFRES	0E40	..	TOTLIBS	0350	..
LABFIRST	05B8	..	NOSTDSYN	05E0	20	NUMFINRD	055C	..	TSOATCNL	05E8	80
LABNUM	05BC	..	NOTYPING	05E2	40	NUMPNDWR	055E	..	TSOFLAGS	05E8	..
LASTCMND	02A0	..	NOTYPOUT	05E2	80	NUSERFWD	0464	..	TXLIBSV	0348	..
LASTCPUT	029C	..	NOVMREAD	05E0	04	NXTSYM	05A4	..	TXDIRC	0354	..
LASTDMP	03AC	..	NUCADFNC	0E2C	..	OPTFLAGS	05E0	..	TXTLIBS	0358	..
LASTEXEC	02B0	..	NUCAFCHS	0D78	..	OSMODLDW	05B4	..	UNRES	0592	..
LASTLMOD	02C0	..	NUCALPHA	0DF8	..	OSRESET	05C7	20	USERLVL	0E58	..
LASTLOC	0570	..	NUCAPIO	0DEC	..	OSSFLAGS	05C7	..	VCADTLKP	0534	..
LASTTMOD	02C8	..	NUCCBLKS	0D7C	..	OSSMNU	05C7	40	VCADTLKW	053C	..
LASTVIRT	0298	..	NUCCOPYR	00A0	..	OSWAIT	05C7	10	VCADTNXT	0538	..
LDMSROS	06AC	..	NUCERT	0E38	..	PCTVSAM	0C60	..	VCFSTLKP	05F8	..
LDRADDR	0578	..	NUCFSTLN	0D60	..	PENDREAD	0544	..	VCFSTLKW	05FC	..
LDRFLAGS	0588	..	NUCGLOBL	0CF9	20	PENDWRIT	0548	..	VIPINIT	0C7C	20
LDRRTCD	057C	..	NUCLDIRC	0DCC	..	PERADDR	0098	..	VIPSOP	0C7C	08
LINKLAST	05CC	..	NUCLDLIB	0D80	..	PERCODE	0096	..	VIPTCLOS	0C7C	04
LINKSTRT	05D0	..	NUCLDR0S	0E30	..	PGMNPWS	0068	..	VMSIZE	0560	..
LOCCNT	0574	..	NUCLDSV	0DC8	..	PGMOPSW	0028	..	VSAMFLGI	0C7C	..
LOC0176	03A4	..	NUCLSTLN	0D64	..	PREVCMND	02A8	..	VSAMRUN	0C7C	80
LOWSAVE	00C0	..	NUCNBSTK	0D6C	..	PREVEXEC	02B8	..	VSAMSERV	0C7C	10
LSTFINRD	0550	..	NUCNLSTK	0D68	..	PRFPOFF	05E7	80	VSAMSOS	0C7C	02
MACDIRC	02E0	..	NUCOMEGA	0E00	..	PRFTSYS	05E7	40	VSJOB CAT	0C7C	40
MACLSV	034C	..	NUCOSFLG	0CF9	..	PRFUSYS	05E7	20	VSMINSTL	04D8	04
MACLIBL	0300	..	NUCOSRLD	0CF9	10	PRHOLD	058C	..	WAITSAVE	0C20	..
MAINHIGH	0510	..	NUCOSRUN	0CF9	80	PROTFLAG	05E7	..			

OCTS: OPEN/CLOSE TRANSIENT SVA PLIST

OCTS describes the fields in the OPEN/CLOSE transient SVA PLIST used in the CMS/DOS environment. OCTS is invoked by the OCTS macro.

0	OCTGVSIZ		OCTSPPSV	
8	OCTMONSV		OCTMONAD	
10	OCTDXBUF		OCTDTFLP	
18	OCTDXLEN	0*1	0*2	OCTSTADR
20	USRREGSV			
78	MONREGSV			
C8	DLBLAREA			
128				

Size

USER REG SAVE AREA LENGTH IN BYTES (USRRGLEN) 058
 OCTS LENGTH IN DOUBLEWORDS (OCTSDWDS) 026
 OCTS LENGTH IN BYTES (OCTSLEN) 130

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	OCTSPLST	0		
0	OCTGVSIZ	4		SIZE OF OCTS
4	OCTSPPSV	4		PP REG SAVE AREA POINTER
8	OCTMONSV	4		IJJGTOP SAVE AREA POINTER
C	OCTMONAD	4		ADDRESS OF \$IJJGTOP
10	OCTDXBUF	4		RESERVED FOR VSAM SPACE MANAGEMENT
14	OCTDTFLP	4		POINTER TO NEXT ENTRY IN DTF LST
18	OCTDXLEN	2		RESERVED FOR VSAM SPACE MANAGEMENT

OCTS

OCTS

Disp Name Len Key Description

1A OCT1FLAG 1 0*1 FLAG BYTE

Bits defined in OCT1FLAG

80 OCTCPDI CP/DI INDICATOR
40 OCTDITYP DTFDI INDICATOR
20 OCTSPMGT RESERVED FOR VSAM SPACE MANAGEMENT

1B OCT2FLAF 1 0*2 SECOND FLAG BYTE...UNUSED

1C OCTSTADR 4 ADDRESS OF START OF OCTS PLIST

Bits defined in OCTSTADR

20 OCTSEXTN

20 USRREGSV 88 USERS REG SAVE AREA

78 MONREGSV 80 IJJGMTOP SAVE AREA

C8 WORKAREA

C8 DLBLAREA 104 RESERVED FOR VSAM SPACE MANAGEMENT

CROSS REFERENCE (Name Disp Value)

DLBLAREA 00C8 ..	OCTDXLEN 0018 ..	OCTSEXTN 001C 20	OCT1FLAG 001A ..
MONREGSV 0078 ..	OCTGVSIZ 0000 ..	OCTSLEN **	OCT2FLAF 001B ..
OCTCPDI 001A 80	OCTMONAD 000C ..	OCTSPLST 0000 ..	USRREGSV 0020 ..
OCTDITYP 001A 40	OCTMONSV 0008 ..	OCTSPMGT 001A 20	USRRGLEN 58
OCTDTFLP 0014 ..	OCTSDWDS 26	OCTSPPSV 0004 ..	WORKAREA 00C8 ..
OCTDXBUF 0010 ..	OCTSEND 0130 ..	OCTSTADR 001C ..	

OPSECT: MAJOR CSECT FOR ALL I/O OPERATION LISTS

OPSECT describes the fields that several programs use as parameter lists for reading and writing on disks and other devices. The OPSECT CSECT is pointed to by the AOPSECT field in NUCON. OPSECT is invoked via the IO macro.

0	CMSOP		
8	FILENAME		
10	FILETYPE		
18	FILEMODE	////////	FILEBUFF
20	FILEBYTE	FILEFORM	////////
28	FILEREAD	FILEITEM	
30	FILECOUT	FILEWPTR	
38	FILERPTR	SAVER14	
40	SAVER15	SAVER0	
48	SAVER1	CMSNAME	
50	CMSNAME (cont.)	CONREAD	
58	CONREAD (cont.)	CONRDBUF	
60	CONRDCOD	CONRDCNT	////////////////////////////////
68	WAITLIST		
70	CONWRITE		
78	CONWRBUF	0x1	/// CONWRCNT
80	WAITLST		
88	WAITDEV	////////////////////////////////	
90	////////////////////////////////		
98	CONPCCW		
A0	CONCCWS		
A8			
B0	READLST		
B8	RDBUFF	RDCCW	RDCOUNT
C0	PUNCHLST		
C8	PUNBUFF	PUNCOUNT	
D0	PRINTLST		

D8	PRBUFF	PRCNT
E0	TAPELIST	
E8	TAPEOPER	
F0	TAPEDEV	0*2 TAPEBUFF
F8	TAPESIZE	TAPECOUT
100	CLOSIO	
108	CLOSIO DV	
110	////////////////////////////////////	
148	EXLEVEL	EXF1
150	EXNUM	EXADD
158	EXGLOBAL	////////////////////////////////////
160	FCBIO	0*3

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PLIST	0		
0	CMSOP	8		I/O OPERATION COMMAND WORD
8	FILENAME	8		FILE NAME
10	FILETYPE	8		FILE TYPE
18	FILEMODE	2		FILE MODE
1A		2		RESERVED
1C	FILEBUFF	4		INPUT-OUTPUT BUFFER
1C	AFST	4		
1C	IOAREA	4		BUFFER AREA LOCATION
20	FILEBYTE	4		DATA COUNT
20	IOLLENGTH	4		BUFFER LENGTH
24	FILEFORM	2		FILE FORMAT: FIXED/VARIABLE RECORDS
26		2		RESERVED
28	FILEREAD	4		READ DATA COUNT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
2C	FILEITEM	4		ITEM NUMBER
2C	POINTERS	4		
30	FILECOUT	4		NUMBER OF ITEMS
34	FILEWPTR	4		WRITE POINTER
38	FILERPTR	4		READ POINTER
IMMEDIATE REGISTER SAVE AREA				
3C	SAVER14	4		TEMPORARY R14 SAVE
40	SAVER15	4		TEMPORARY R15 SAVE
44	SAVER0	4		TEMPORARY R0 SAVE
48	SAVER1	4		TEMPORARY R1 SAVE
4C	CMSNAME	8		"DEFAULT FILENAME"
CONSOLE PARAMETER LISTS READ CONSOLE				
54	CONREAD	8		TERMINAL READ
5C	CONRDBUF	4		ADDRESS OF INPUT BUFFER
60	CONRDCOD	1		TRANSLATE CODE
| 61		1		RESERVED
62	CONRDCNT	2		DATA BYTE COUNT
| 64		4		RESERVED
CONSOLE WAIT LIST				
| 68	WAITLIST	8		
WRITE CONSOLE				
| 70	CONWRITE	8		
78	CONWRBUF	4		LOCATION OF MESSAGE TEXT
7C	CONWRCOD	1	0*1	COLOR CODE
| 7D		1		RESERVED
7E	CONWRCNT	2		LENGTH OF MESSAGE TEXT
WAIT PARAMETER LIST				
| 80	WAITLST	8		
88	WAITDEV	4		
| 8C		12		RESERVED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
INTERACTIVE CONSOLE COMMUNICATION CHANNEL PROGRAM				
98	CONPCCW	8		WRITE FOR APL ASCII PROMPT
A0	CONCCWS	8		NORMAL READ OR WRITE
A8		8		NOP TO GET CE AND DE TOGETHER
READER PARAMETER LIST				
B0	READLST	8		
B8	RDBUFF	4		BUFFER ADDRESS
BC	RDCCW	2		CCW BYTE COUNT
BE	RDCOUNT	2		BYTES ACTUALLY READ
CARD PUNCH PARAMETER LIST				
C0	PUNCHLST	8		
C8	PUNBUFF	4		PUNCH BUFFER ADDRESS
CC	PUNCOUNT	4		PUNCH CCW COUT
PRINTER PARAMETER LIST				
D0	PRINTLST	8		
D8	PRBUF	4		PRINTER BUFFER ADDRESS
DC	PRCNT	4		PRINT DATA COUNT
TAPE PARAMETER LIST				
E0	TAPELIST	8		
E8	TAPEOPER	8		TAPE OPERATION COMMAND
F0	TAPEDEV	4		TAPE SYMBOLIC DEVICE
F4	TAPEMASK	1 0*2		SET MODE
F5	TAPEBUFF	3		BUFFER LOCATION
F8	TAPESIZE	4		
FC	TAPECOUT	4		TAPE COUNTER
CLOSE OUT DEVICE DEPENDENT DATA SET ON UNIT RECORD EQUIPMENT				
100	CLOSIO	8		
108	CLOSIODV	8		DEVICE TYPE
110		56		RESERVED
STORAGE FOR EXEC BOOTSTRAP				
148	EXLEVEL	4		EXEC "LEVEL"
14C	EXF1	4		(FOLLOWS EXLEVEL)
150	EXNUM	4		NUMBER DOUBLEWORDS FREE STORAGE

OPSECT

OPSECT

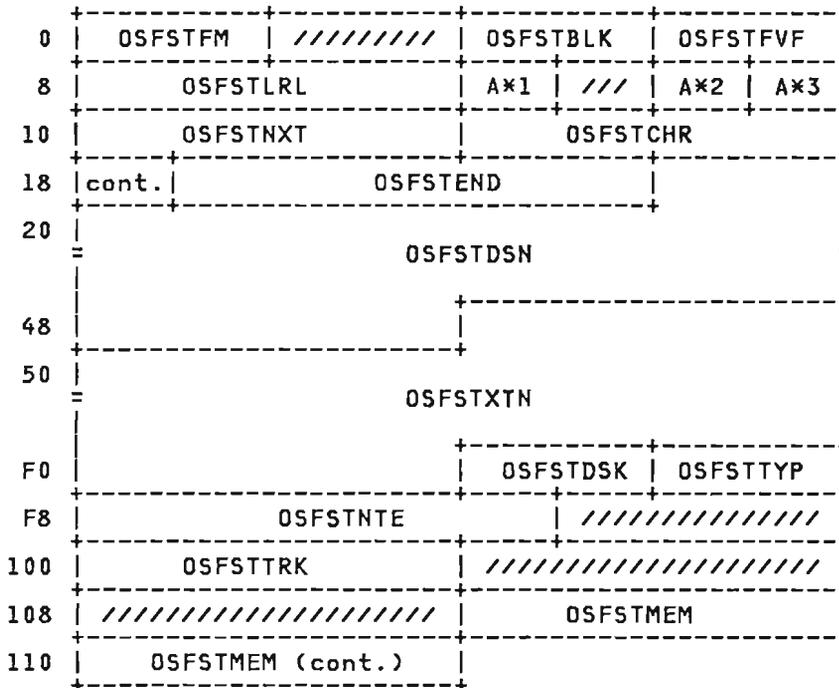
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
154	EXADD	4		ADDRESS OF "EXECTOR" CORE-IMAGE
158	EXGLOBAL	4		ADDRESS OF EXEC GLOBAL AREA
15C		4		RESERVED
STORAGE FOR OS MACRO SIMULATION ROUTINES				
160	FCBIO	4		ADDRESS OF LAST FCB USED DURING I/O
164	OSIOTYPE	1	0*3	OS ACCESS METHOD TYPE

CROSS REFERENCE (Name Disp Value)

AFST	001C	..	EXF1	014C	..	FILEWPTR	0034	..	READLST	00B0	..
CLOSIO	0100	..	EXGLOBAL	0158	..	IOAREA	001C	..	SAVER0	0044	..
CLOSIODV	0108	..	EXLEVEL	0148	..	IOLENGTH	0020	..	SAVER1	0048	..
CMSNAME	004C	..	EXNUM	0150	..	OSIOTYPE	0164	..	SAVER14	003C	..
CMSOP	0000	..	FCBIO	0160	..	PLIST	0000	..	SAVER15	0040	..
CONCCWS	0098	..	FILEBUFF	001C	..	POINTERS	002C	..	TAPEBUFF	00F5	..
CONPCCW	00A0	..	FILEBYTE	0020	..	PRBUF	00D8	..	TAPEOUT	00FC	..
CONRDBUF	005C	..	FILECOUT	0030	..	PRCNT	00DC	..	TAPEDEV	00F0	..
CONRDCNT	0062	..	FILEFORM	0024	..	PRINTLST	00D0	..	TAPELIST	00E0	..
CONRDCOD	0060	..	FILEITEM	002C	..	PUNBUFF	00C8	..	TAPEMASK	00F4	..
CONREAD	0054	..	FILEMODE	0018	..	PUNCHLST	00C0	..	TAPEOPER	00E8	..
CONWRBUF	0078	..	FILENAME	0008	..	PUNCOUNT	00CC	..	TAPESIZE	00F8	..
CONWRCNT	007E	..	FILEREAD	0028	..	RDBUFF	00B8	..	WAITDEV	0088	..
CONWRCOD	007C	..	FILERPTR	0038	..	RDCCW	00BC	..	WAITLIST	0068	..
CONWRITE	0070	..	FILETYPE	0010	..	RDCOUNT	00BE	..	WAITLST	0080	..
EXADD	0154	..									

OSFST: OS FILE STATUS TABLE

OSFST describes the fields of an OS file status table. When an OS disk is accessed, DMSROS obtains storage from CMS free storage, builds and fills in an OSFST block, which is comparable to a CMS FST block. This block is released by DMSALU. OSFST is invoked via the OSFST macro.



Size

OS FST LENGTH IN DOUBLEWORDS (OSFSTLTH) 23

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	OSFSTFM	2		DISK MODE
2		2		RESERVED
4	OSFSTBLK	2		BLOCKSIZE
6	OSFSTFVF	2		FIXED/VARIABLE FLAG
8	OSFSTLRL	4		LOGICAL RECORD SIZE
C	OSFSTRFM	1	A*1	OS RECORD FORMAT
D		1		RESERVED
E	OSFSTFLG	1	A*2	FLAG BYTE

Bits defined in OSFSTFLG

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
80	OSFSTALT			ALTERNATE TRACK INDICATOR
40	OSFSTDBK			BLOCKSIZE NOT SPECIFIED IN DSCB
08	OSFSTMVL			MULTIPLE VOLUME DATA SET
02	OSFSTUMV			UNMOVEABLE DATA SET
01	OSFSTRSW			INDICATES POINT+1 JUST ISSUED
F	OSFSTXNO	1	A*3	NUMBER OF DATA EXTENTS ON DISK
10	OSFSTNXT	4		NEXT OS FST
| 14	OSFSTCHR	5		CCHHR OF LAST I/O OPERATION
| 19	OSFSTEND	5		CURRENT EXTENT END
| 1E	OSFSTDSN	44		DATA SET NAME
| 4A	OSFSTXTN	170		DATA EXTENTS DESCRIPTION
68	OSFSTEX4			LOCATION OF 4TH EXTENT FROM DSCB3
F4	OSFSTDSK	2		DISK ADDRESS (0CUU)
F6	OSFSTTYP	2		DISK DEVICE TYPE (SEE OSADT FOR TYPE FLAGS)
F8	OSFSTNTE	5		USED TO SAVE CCHHR FOR NOTE MACRO
| FD		3		RESERVED
100	OSFSTTRK	4		NUMBER TRACKS PER CYLINDER
| 104		8		RESERVED
10C	OSFSTMEM	8		PARTITIONED DATA SET MEMBER NAME

CROSS REFERENCE (Name Disp Value)

OSFSTALT 000E 80	OSFSTEND 0019 ..	OSFSTLTH 23	OSFSTRSW 000E 01
OSFSTBLK 0004 ..	OSFSTEX4 004A 68	OSFSTMEM 010C ..	OSFSTTRK 0100 ..
OSFSTCHR 0014 ..	OSFSTFLG 000E ..	OSFSTMVL 000E 08	OSFSTTYP 00F6 ..
OSFSTDBK 000E 40	OSFSTFM 0000 ..	OSFSTNTE 00F8 ..	OSFSTUMV 000E 02
OSFSTDSK 00F4 ..	OSFSTFVF 0006 ..	OSFSTNXT 0010 ..	OSFSTXNO 000F ..
OSFSTDSN 001E ..	OSFSTLRL 0008 ..	OSFSTRFM 000C ..	OSFSTXTN 004A ..

OVSECT: DESCRIPTION OF THE FIRST FEW LOCATIONS OF DMSOVS

OVSECT is used by module DMSOVS to provide trace information requested by SVCTRACE. OVSECT is invoked by the OVSECT macro.

0	OVSGO	AERR
8	AWAIT	LENOVS

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	OVSGO	4		BRANCH TO THIS POINT FOR TRACE
4	AERR	4		ADDRESS OF DMSERR
8	AWAIT	4		ADDRESS OF CONWAIT
C	LENOVS	4		DMSOVS LENGTH IN DOUBLEWORDS

CROSS REFERENCE (Name Disp Value)

AERR	0004 ..	LENOVS	000C ..
AWAIT	0008 ..	OVSGO	0000 ..

PARMLIST: PROP ACTION ROUTINE PARAMETER LIST

PARMLIST is used as a template to describe the parameter list which is passed by programmable operator facility to the action routine. Each fullword points to an element of parameter data. PARMLIST is found in PROP copy.

0	PARMSG	PARMLN
8	PARMSGT	PARNETM
10	PARMRUSR	PARMRNOD
18	PARMPUSR	PARMPNOD
20	PARMOUSR	PARMONOD
28	PARMRTFI	PARMRTPM
30	PARMMTYP	PARMARTN
38	PARMEND	

Size

PARMLIST SIZE IN DOUBLEWORDS (PARMSIZE) 08

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PARMSG	4		ORIGINAL MESSAGE TEXT
4	PARMLN	4		LENGTH OF MESSAGE TEXT
8	PARMSGT	4		TEXT IN 8-BYTE TOKENS
C	PARNETM	4		USERID OF RSCS NET MACHINE
10	PARMRUSR	4		USERID OF REQUESTING USER
14	PARMRNOD	4		NODEID OF REQUESTING USER
18	PARMPUSR	4		USERID OF PROP
1C	PARMPNOD	4		NODEID OF PROP
20	PARMOUSR	4		USERID OF LOGICAL OPERATOR
24	PARMONOD	4		NODEID OF LOGICAL OPERATOR
28	PARMRTFI	4		CURRENT ROUTING TABLE FILEID
2C	PARMRTPM	4		PARAMETER FROM ROUTING TABLE
30	PARMMTYP	4		MESSAGE TYPE CODE
34	PARMARTN	4		ACTION ROUTINE ADDRESS
38	PARMEND	4		PARM LIST END INDICATOR

PARMLIST

PARMLIST

CROSS REFERENCE (Name Disp Value)

PARMARTN 0034 ..	PARMMSGT 0008 ..	PARMOUSR 0020 ..	PARMRTFI 0028 ..
PARMEND 0038 ..	PARMMTYP 0030 ..	PARMPNOD 001C ..	PARMRTPM 002C ..
PARMMLN 0004 ..	PARMNETM 000C ..	PARMPUSR 0018 ..	PARMRUSR 0010 ..
PARMMSG 0000 ..	PARMONOD 0024 ..	PARMRNOD 0014 ..	PARMSIZE 08

PDSSECT: DIRECTORY TABLE FOR BPAM SIMULATION

PDSSECT describes the fields of the in-storage directory that is used in OS simulation of BPAM. The in-storage directory is built dynamically by DMSSVT from CMS free storage. PDSSECT is invoked via the PDSSECT macro.

0	PDSIDENT				P*1	P*2
8	PDSDIRSZ		PDSDIRIT			
10	PSENTSZ		DIRNAME			
18	(cont.)	DIRPTR	P*3	P*4	CORESIZE	
20	PDSBLKSI	P*5	/////	PDSDIR		

Size

MACLIB/PDS HEADER SIZE IN BYTES (PDSHDRSZ) 10
PDSSECT HEADER LENGTH IN BYTES (PDSLEN) 24

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PDSIDENT	6		MACLIB/PDS IDENTIFIER
D7	PDSFNEW			CHECK PDSIDENT+3, OLD VS NEW
6	PDSFLG1	1	P*1	MACLIB/PDS FLAG1
5B	PDSTEMPF			PDS DIRECTORY IS IN \$PDSTEMP FILE
7	PDSFLG2	1	P*2	MACLIB/PDS FLAG2
8	PDSDIRSZ	4		MACLIB/PDS DIRECTORY SIZE
C	PDSDIRIT	4		MACLIB/PDS DIRECTORY ITEM NUMBER
10	PSENTSZ	4		PDS ENTRY SIZE
14	DIRNAME	6		MACLIB IDENTIFIER
1A	DIRPTR	2		ITEM POINTER TO START OF DIRECTORY
1C	TEMPBYTE	1	P*3	IF \$, THEN PDS IS IN \$PDSTEMP FILE
1D	NEWBLKS	1	P*4	NUMBER NEW BLKS ADDED TO PDS BY STOW
1E	CORESIZE	2		SIZE OF DICTIONARY IN BYTES
20	PDSBLKSI	2		BLOCKSIZE OF DICTIONARY
| 22	CHNGBYTE	1	P*5	INDICATES UPDATES TO DICTIONARY
| 23		1		RESERVED
24	PDSDIR	0		START OF IN CORE DICTIONARY

PDSSECT

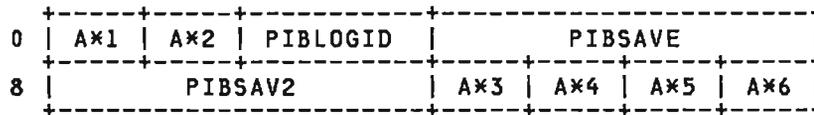
PDSSECT

CROSS REFERENCE (Name Disp Value)

CHNGBYTE	0022	..	PDSBLKSI	0020	..	PDSFLG1	0006	..	PDSIDENT	0000	..
CORESIZ	001E	..	PDSDIR	0024	..	PDSFLG2	0007	..	PDSLEN	....	24
DIRNAME	0014	..	PDSDIRIT	000C	..	PDSFNEW	0000	D7	PDSTEMPF	0006	5B
DIRPTR	001A	..	PDSDIRSZ	0008	..	PDSHDRSZ	....	10	TEMPBYTE	001C	..
NEWBLKS	001D	..	PDSNTSZ	0010	..						

PIBADR: PROGRAM INFORMATION BLOCK

PIBADR contains a save area address and interrupt information. PIBADR is invoked by the PIBTAB macro and is often referred to by this macro name. The PIBPT field in the BGC0M block points to the PIBTAB CSECT.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PIBFLG	1	A*1	FLAGS
0	PIBCOMRA	2		COMMUNICATIONS REGION ADDRESS
1	PIBCNCL	1	A*2	CANCEL CODE
2	PIBLOGID	2		SYSLOG ID
2	SYSLUBX	2		SYSTEM CLASS LUB INDEX
4	PIBSAVE	4		ADDRESS OF SAVE AREA
Bits defined in PIBSAVE				
08	ARFLG			SAVE AREA ADDRESS
4	PIBMTID	2		TID OF MAINTASK
8	PIBSAV2	4		ADDRESS OF SYSTEM SAVE AREA
8	APCB	4		PCB POINTER
C	PIBPUBAS	1	A*3	PUB ASSIGN FLAGS
C	PIBPIK	2		PIK OF PARTITION
D	PIBLUBID	1	A*4	LUB NUMBER OF FIRST PROBLEM PROGRAM LUB
E	PIBLUBNO	1	A*5	NUMBER OF LUBS
F	PIBFLG2	1	A*6	MORE FLAGS

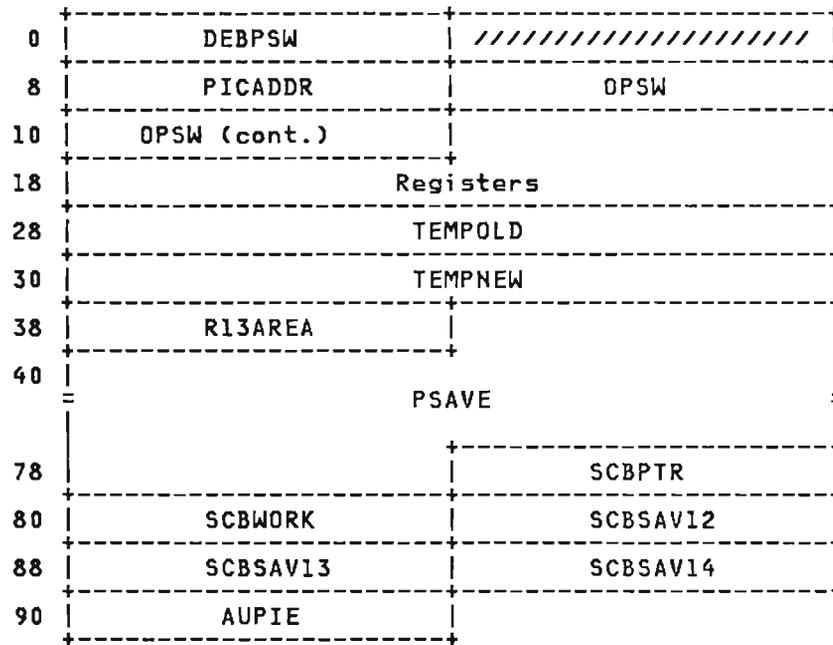
CROSS REFERENCE (Name Disp Value)

APCB	0008 ..	PIBFLG	0000 ..	PIBLUBNO	000E ..	PIBSAVE	0004 ..
ARFLG	0004 08	PIBFLG2	000F ..	PIBMTID	0004 ..	PIBSAV2	0008 ..
PIBCNCL	0001 ..	PIBLOGID	0002 ..	PIBPIK	000C ..	SYSLUBX	0002 ..
PIBCOMRA	0000 ..	PIBLUBID	000D ..	PIBPUBAS	000C ..		

PGMSECT: PROGRAM INTERRUPT WORK AREA

PGMSECT describes the fields used by DMSITP for saving registers, old PSW, and other data for handling program interrupts.

The PGMSECT CSECT is pointed to by the APMSECT field in NUCON. PGMSECT is invoked by the PGMSECT macro.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	DEBPSW	4		POINT TO DEBUG
8	PIE	8		***PROGRAM INTERRUPT ELEMENT***
8	PICADDR	4		PICA ADDRESS FROM RECENT "SPIE"
C	OPSW	8		OLD PSW AFTER PROGRAM INTERRUPT
28	TEMPOLD	8		WORK AREA
30	TEMPNEW	8		
38	R13AREA	4		SAVED R13
3C	PSAVE	64		REGS SAVED AT INTERRUPT TIME

Disp Name Len Key Description

7C SCBPTR 4 POINTER TO FIRST STAE CONTROL BLOCK

Bits defined in SCBPTR

80 STAEBIT
40 STAIBIT
20 RETRYBIT

80 SCBWORK 4 ADDRESS OF WORK AREA FOR STAE EXIT ROUTINE

84 SCBSAV12 4 ADDRESS OF REG 12 SAVE AREA FOR DMSSAB

88 SCBSAV13 4 ADDRESS OF REG 13 SAVE AREA FOR DMSSAB

8C SCBSAV14 4 ADDRESS OF REG 14 SAVE AREA FOR DMSSAB

90 AUIPE 4 ADDRESS OF USER'S PIE, IN SPIE EXIT

CROSS REFERENCE (Name Disp Value)

AUIPE	0090 ..	PSAVE	003C ..	SCBSAV12	0084 ..	STAEBIT	007C 80
DEBPSW	0000 ..	RETRYBIT	007C 20	SCBSAV13	0088 ..	STAIBIT	007C 40
OPSW	000C ..	R13AREA	0038 ..	SCBSAV14	008C ..	TEMPNEW	0030 ..
PICADDR	0008 ..	SCBPTR	007C ..	SCBWORK	0080 ..	TEMPOLD	0028 ..
PIE	0008 ..						

PROPCOM: PROP COMMUNICATION AREA

PROPCOM describes the contents of the area defined in DMSPOP to allow the communication of flags and other data between the main programmable operator facility module, DMSPOP, and the action routine module, DMSPOR. PROPCOM is found in PROP copy.

0	PCOMLOGF	PCOMSTBL
8	PCOMETBL	PCOMTSIZ
10	PCOMRDIN	PCOMLDMD
18	PCOMRSET	PCOMRSTL
20	PCOMLMSG	V*1 ///
28	PCOMUTBL	PCOMSTRC
30	PCOMSTPC	PCOMNLST
38	PCOMTODI	PCOMPREP
40	PCOMFNOD	PCOMABNE
48	PCOMEXIT	PCOMFNDN
50	PCOMTKN	PCOMTODP

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PCOMLOGF	4		ADDRESS OF LOG FILE FSCB
4	PCOMSTBL	4		START OF ROUTING TABLE
8	PCOMETBL	4		END OF ROUTING TABLE
C	PCOMTSIZ	4		ROUTING TABLE SIZE
10	PCOMRDIN	4		ADDRESS OF READIN ROUTINE
| 14	PCOMLDMD	4		ADDRESS OF LOADNUCX ROUTINE
18	PCOMRSET	4		ADDRESS OF CP SET COMMANDS TO RESET
1C	PCOMRSTL	4		LENGTH OF CP SET COMMANDS TO RESET
| 20	PCOMLMSG	6		MESSAGE FORMAT FOR LOCAL MESSAGES

Disp Name Len Key Description

| 26	PCOMFLAG	1	V*1	PROP FLAGS
Bits defined in PCOMFLAG				
| 80	PCOMSTOP			STOP THE PROP APPLICATION
| 40	PCOMKILL			IMMEDIATE STOP
| 20	PCOMLOG			INDICATES LOGGING IS ON
| 10	PCOMABNA			INDICATES ABEND IS ACT RTN
| 08	PCOMLOGA			INDICATES LOGGING "ALL"
| 04				RESERVED
| 02				RESERVED
| 01				RESERVED
| 27		1		RESERVED
| 28	PCOMUTBL	4		ADDRESS OF START OF USER'S PART OF THE ROUTING TABLE
| 2C	PCOMSTRC	4		ADDRESS OF STARTCHK ROUTINE
| 30	PCOMSTPC	4		ADDRESS OF STOPCHK ROUTINE
| 34	PCOMNLST	4		ANCHOR ADDRESS FOR NODE LIST
| 38	PCOMTODI	4		ADDRESS OF TODISK ROUTINE
| 3C	PCOMPREP	4		ADDRESS OF BUFPREP ROUTINE
| 40	PCOMFNOD	4		ADDRESS OF FRETNODE ROUTINE
| 44	PCOMABNE	4		ADDRESS OF ABEND EXIT
| 48	PCOMEXIT	4		ADDRESS OF CALLEXIT ROUTINE
| 4C	PCOMFNDN	4		ADDRESS OF FINDNODE ROUTINE
| 50	PCOMTOKN	4		ADDRESS OF TOKENIZE ROUTINE
| 54	PCOMTODP	4		PARMLIST FOR SPECIAL LOGGING

CROSS REFERENCE (Name Disp Value)

PCOMABNA 0026 10	| PCOMKILL 0026 40	| PCOMPREP 003C ..	| PCOMSTRC 002C ..
PCOMABNE 0044 ..	| PCOMLDM 0014 ..	| PCOMRDIN 0010 ..	| PCOMTODI 0038 ..
PCOMETBL 0008 ..	| PCOMLMSG 0020 ..	| PCOMRSET 0018 ..	| PCOMTODP 0054 ..
PCOMEXIT 0048 ..	| PCOMLOG 0026 20	| PCOMRSTL 001C ..	| PCOMTOKN 0050 ..
PCOMFLAG 0026 ..	| PCOMLOGA 0026 8	| PCOMSTBL 0004 ..	| PCOMTSIZ 000C ..
PCOMFNDN 004C ..	| PCOMLOGF 0000 ..	| PCOMSTOP 0026 80	| PCOMUTBL 0028 ..
PCOMFNOD 0040 ..	| PCOMNLST 0034 ..	| PCOMSTPC 0030 ..	

PROPTAB: ROUTING TABLE FILE ENTRY

PROPTAB is used as a template to describe an entry (i.e. a record) in the programmable operator facility routing table file. PROPTAB is found in PROP copy.

Size

LENGTH OF AN ENTRY IN FILE (PROPLEN) 44

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	TEXT	24		MESSAGE COMPARISON TEXT
19	DP	2		DISPLACEMENT TO START COMPARISON
1C	LN	2		LENGTH FOR COMPARISON OF TEXT
1F	MSGT	1		IUCV MESSAGE TYPE
21	USERID	8		AUTHORIZED USER'S USERID
2A	NODEID	8		AUTHORIZED USER'S NODEID
33	ACTION	8		NAME OF ACTION ROUTINE TO INVOKE
3C	ACTRPARM	8		PARAMETER TO ACTION ROUTINE

CROSS REFERENCE (Name Disp Value)

ACTION	0033 ..	LN	001C ..	NODEID	002A ..	TEXT	0000 ..
ACTRPARM	003C ..	MSGT	001F ..	PROPLEN	.... 44	USERID	0021 ..
DP	0019 ..						

PRSCB: PRESERVE/RESTORE CONTROL BLOCK

PRSCB is built by module DMSXCT and is used by the System Product Editor subcommands PRESERVE and RESTORE. PRSCB is invoked via the PRSCB macro.

0	PRSWPTR				PRSFNAME			
8	PRSFNAME				PRSFTYPE			
10	PRSFTYPE				PRSFMODE		PRSFRECFM	
18	PRSSERCH							
20	P*1	P*2	P*3	P*4	P*5	P*6	P*7	P*8
28	P*9	P*10	P*11	P*12	P*13	P*14	P*15	P*16
30	P*17	P*18	P*19	P*20	P*21	P*22	P*23	P*24
38	PRSTABCL							
A8	PRSVRCL							
188	PRSVRMX				PRSVRTR			
190	PRSMSKLN							
230	PRSZONEL				PRSZONER			
238	PRSZONEC				PRSSERIN			
240	PRSSERST				PRSDISP1			
248	PRSDISP2				PRSTRUNC			
250	PRSLRECL				PRSATCNT			
258	PRSNSPAN				PRSEQBFL			
260	PRSEQBUF							
300	PRSLSTLL							
	PRSLSTLC							
3A0					PRSFURL		PRSFMASK	

3A8	PRSF	TABS	PRSF	CM	DL	PR	CL	R	A	R	P*25		
3B0	(cont.)		PR	CL	R	C	U		PR	CL	R	F	I
3B8		PR	CL	R	I	D		PR	CL	R	M	S	
3C0	cont		PR	CL	R	P	W		PR	CL	R	S	C
3C8	(cont.)		PR	CL	R	S	T		PR	CL	R	T	A
3D0		PR	CL	R	T	O							

Size

FIRST SEGMENT SIZE (PRSSGM01) 26
 SECOND SEGMENT SIZE (PRSSGM02) 08
 THIRD SEGMENT SIZE (PRSSGM03) E8
 FOURTH SEGMENT SIZE (PRSSGM04) 0C
 FIFTH SEGMENT SIZE (PRSSGM05) 14
 SIXTH SEGMENT SIZE (PRSSGM06) 08
 SEVENTH SEGMENT SIZE (PRSSGM07) 04
 EIGHTH SEGMENT SIZE (PRSSGM08) A4
 NINTH SEGMENT SIZE (PRSSGM09) A4
 TENTH SEGMENT SIZE (PRSSGM10) 27
 PRSCB LENGTH IN BYTES (PRSLPRSB) 3D5
 PRSCB LENGTH IN DOUBLEWORDS (PRSLPRSD) 07B

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PRSF	4		POINTER TO NEXT PRESERVE/RESTORE BLOCK
CHARACTER VARIABLES				
4	PRSF	8		FILENAME
C	PRSF	8		FILETYPE
14	PRSF	2		FILEMODE
16	PR	2		FIXED OR VARIABLE
18	PR	8		1 TO 8 CHARACTERS OF SERIALIZATION
20	PR	1 P*1		LENGTH OF SERIALIZATION
SPECIAL CHARACTERS				
21	PR	1 P*2		FILLER FOR TABULATIONS
22	PR	1 P*3		RESERVED
23	PR	1 P*4		AUTOSAVE FILEMODE
24	PR	1 P*5		ESCAPE CHARACTER

PRSCB

PRSCB

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
25	PRSCASMU	1	P*6	CASE UPPERCASE OR MIXED
26	PRSCASRI	1	P*7	CASE RESPECT OR IGNORE
27	PRSARBCH	1	P*8	ARBITRARY CHARACTER
28	PRSSPABN	1	P*9	SPAN BLANK/NOBLANK
29	PRSLNEND	1	P*10	LINE END CHARACTER

OPTION BYTES

2A	PRSFLAG2	1	P*11	OPTIONS BYTES ZDEFLAG2
2B	PRSFLAG3	1	P*12	ZDEFLAG3
2C	PRSFLAG4	1	P*13	ZDEFLAG4
2D	PRSFLAG5	1	P*14	ZDEFLAG5
2E	PRSFLAG6	1	P*15	ZDEFLAG6
2F	PRSFLAG7	1	P*16	ZDEFLAG7
30	PRSFLAG8	1	P*17	ZDEFLAG8
31	PRSFLAG9	1	P*18	ZDEFLAG9
32		6	P*19-24	RESERVED FOR ALIGNMENT

TABULATIONS

| 38	PRSTABCL	112		TABULATIONS COLUMNS
----	----------	-----	--	---------------------

VERIFY COLUMNS

| A8	PRSVERCL	224		VERIFY COLUMNS
| 188	PRSVERMX	4		MAXIMUM VERIFY WIDTH
| 18C	PRSVERTR	4		VERIFY LEFT/RIGHT TRANSLATION
| 190	PRSMSKLN	160		MASK FOR INSERTED LINES

NUMERIC VARIABLES

| 230	PRSZONEL	4		ZONE LEFT
| 234	PRSZONER	4		ZONE RIGHT
| 23C	PRSZONEC	4		MAXIMUM ZONE FOR CHANGE
| 23A	PRSSERIN	4		INCREMENT OF SERIALIZATION
| 240	PRSSERST	4		START OF SERIALIZATION
| 244	PRSDISP1	4		SET DISPLAY N1
| 248	PRSDISP2	4		SET DISPLAY N2
| 24C	PRSTRUNC	4		TRUNCATION COLUMN

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 250	PRSLRECL	4		LRECL OF THE FILE
| 254	PRSATCNT	4		AUTOSAVE COUNT
| 258	PRNSPAN	4		NUMBER OF LINES LOCKED WITH SET SPAN ON = BUFFER
| 25C	PRSEQBFL	4		LENGTH OF STRING IN = BUFFER
| 260	PRSEQBUF	160		= BUFFER
|	LAST LOCATE OR CHANGE			
| 300	PRSLSTLL	4		MESSAGE LENGTH
| 304	PRSLSTLC	160		BUFFER
|	CURLINE, TABLINE, SCALE			
| 3A4	PRSFURL	2		CURRENT LINE NUMBER ON LOG SCREEN
| 3A6	PRSFMASK	2		SCALE LINE NUMBER ON LOG SCREEN
| 3A8	PRSFMTABS	2		TABS LINE NUMBER ON LOG SCREEN
| 3AA	PRSFMDL	2		COMMAND LINE NUMBER ON LOG SCREEN
|	COLOR INFORMATION			
| 3AC	PRSLRAR	3		ARROW COLOR AND EXT. HILITE
| 3AF	PRSLRCM	3	P*25	CMDLINE COLOR AND EXT. HILITE
| 3B2	PRSLRCU	3		CHRLINE COLOR AND EXT. HILITE
| 3B5	PRSLRFI	3		FILEAREA COLOR AND EXT. HILITE
| 3B8	PRSLRID	3		IDLINE COLOR AND EXT. HILITE
| 3BB	PRSLRMS	3		MSGLINE COLOR AND EXT. HILITE
| 3BE	PRSLRPR	3		PREFIX COLOR AND EXT. HILITE
| 3C1	PRSLRPW	3		PREFIXW COLOR AND EXT. HILITE
| 3C4	PRSLRSC	3		SCALE COLOR AND EXT. HILITE
| 3C7	PRSLRSH	3	P*26	SHADOW COLOR AND EXT. HILITE
| 3CA	PRSLRST	3		STATAREA COLOR AND EXT. HILITE
| 3CD	PRSLRSTA	3		TABLINE COLOR AND EXT. HILITE
| 3D0	PRSLRTO	3		TOFEOF COLOR AND EXT. HILITE

CROSS REFERENCE (Name Disp Value)

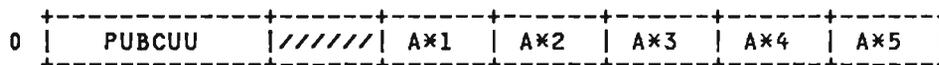
PR SAR B C H 0027 ..	PR S C L R T A 03CD ..	PR S F M O D E 0014 ..	PR S S G M 01 26
PR S A T C N T 0254 ..	PR S C L R T O 03D0 ..	PR S F N A M E 0004 ..	PR S S G M 02 08
PR S A T S M D 0023 ..	PR S C T A B C 0022 ..	PR S F T A B S 03A8 ..	PR S S G M 03 E8
PR S C A S M U 0025 ..	PR S D I S P 1 0244 ..	PR S F T Y P E 000C ..	PR S S G M 04 0C
PR S C A S R I 0026 ..	PR S D I S P 2 0248 ..	PR S F W P T R 0000 ..	PR S S G M 05 14
PR S C E S C A 0024 ..	PR S E Q B F L 025C ..	PR S L N E N D 0029 ..	PR S S G M 06 08
PR S C F I L L 0021 ..	PR S E Q B U F 0260 ..	PR S L P R S B **	PR S S G M 07 04
PR S C L R A R 03AC ..	PR S F C M D L 03AA ..	PR S L P R S D 18	PR S S G M 08 A4
PR S C L R C M 03AF ..	PR S F C U R L 03A4 ..	PR S L R E C L 0250 ..	PR S S P A B N 0028 ..
PR S C L R C U 03B2 ..	PR S F L A G 2 002A ..	PR S L S T L C 0304 ..	PR S T A B C L 0038 ..
PR S C L R F I 03B5 ..	PR S F L A G 3 002B ..	PR S L S T L L 0300 ..	PR S T R U N C 024C ..
PR S C L R I D 03B8 ..	PR S F L A G 4 002C ..	PR S M S K L N 0190 ..	PR S V E R C L 00A8 ..
PR S C L R M S 03BB ..	PR S F L A G 5 002D ..	PR S N S P A N 0258 ..	PR S V E R M X 0188 ..
PR S C L R P R 03BE ..	PR S F L A G 6 002E ..	PR S R E C F M 0016 ..	PR S V E R T R 018C ..
PR S C L R P W 03C1 ..	PR S F L A G 7 002F ..	PR S S E R C H 0018 ..	PR S Z O N E C 0238 ..
PR S C L R S C 03C4 ..	PR S F L A G 8 0030 ..	PR S S E R I N 023C ..	PR S Z O N E L 0230 ..
PR S C L R S H 03C7 ..	PR S F L A G 9 0031 ..	PR S S E R L G 0020 ..	PR S Z O N E R 0234 ..
PR S C L R S T 03CA ..	PR S F M A S K 03A6 ..	PR S S E R S T 0240 ..	

PUBADR: PHYSICAL UNIT BLOCK TABLE

PUBADR defines the fields of a physical unit block table as used by CMS and/or VSE routines. Both DSECTs define the same storage

- For use by the CMS Routines (MAPPUB macro)

The simulated PUBADR DSECT has eighteen 8-byte entries, one for each device supported by CMS. The simulated PUBADR DSECT is invoked by the MAPPUB macro.



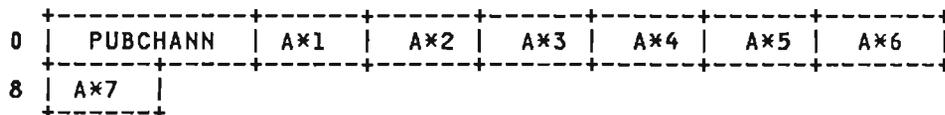
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PUBCUU	2		CHANNEL AND DEVICE NUMBER
3	PUBDSKM	1	A*1	DISK MODE IF ASSIGNED DASD
4	PUBDEVT	1	A*2	DEVICE TYPE CODE
5	PUBTAPM1	1	A*3	CMS TAPE SET MODE ATTRIBUTES
6	PUBTAPM2	1	A*4	DOS TAPE SET MODE ATTRIBUTES
7	PUBTAP7	1	A*5	SEVEN TRACK INDICATOR

CROSS REFERENCE (Name Disp Value)

PUBADR	0000	..	PUBDEVT	0004	..	PUBTAPM2	0002	..
PUBCUU	0000	..	PUBTAPM1	0003	..	PUBTAP7	0007	..

- For use by DOS/VS Routines (PUBTAB macro)

The PUBADR DSECT is invoked by the PUBTAB macro. The address of PUBTAB is at displacement X'40' of BGC0M.



Size

PUB TABLE LENGTH IN BYTES (PUBWIT) 09

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PUBCHANN	2		CHANNEL AND DEVICE NUMBER
2	PUBCHQPT	1	A*1	CHQ. NUMBER OF FIRST REQUEST FOR PUB
3	PUBERR	1	A*2	ERROR RETRY COUNTER OR TEB POINTER
4	PUBDEVTY	1	A*3	DEVICE TYPE CODE
5	PUBOPTN	1	A*4	SET MODE COMMAND OR OTHER OPTIONS
6	PUBCSFLG	1	A*5	CHANNEL SCHEDULER FLAGS
7	PUBJCFLG	1	A*6	JOB CONTROL FLAGS
8	NEXTPUB	1	A*7	FIRST BYTE OF NEXT PUB ENTRY

Bits defined in NEXTPUB

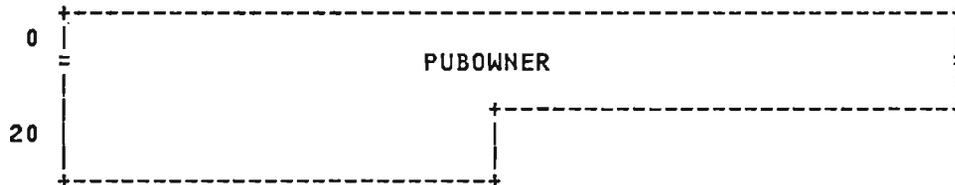
08 PUBPTR POINTER TO ORIGINAL PUB

CROSS REFERENCE (Name Disp Value)

NEXTPUB	0008	..	PUBCSFLG	0006	..	PUBJCFLG	0007	..	PUBPTR	0008	08
PUBCHANN	0000	..	PUBDEVTY	0004	..	PUBOPTN	0005	..	PUBWIT	....	09
PUBCHQPT	0002	..	PUBERR	0003	..						

PUBOWNER: PHYSICAL UNIT BLOCK OWNERSHIP TABLE

PUBOWNER contains a 2-byte entry for each entry in the PUB table. For CMS/DOS, there are eighteen 2-byte entries. The address of the PUBOWNER table is in the SYSCOM block in the DOSCON CSECT of NUCON.

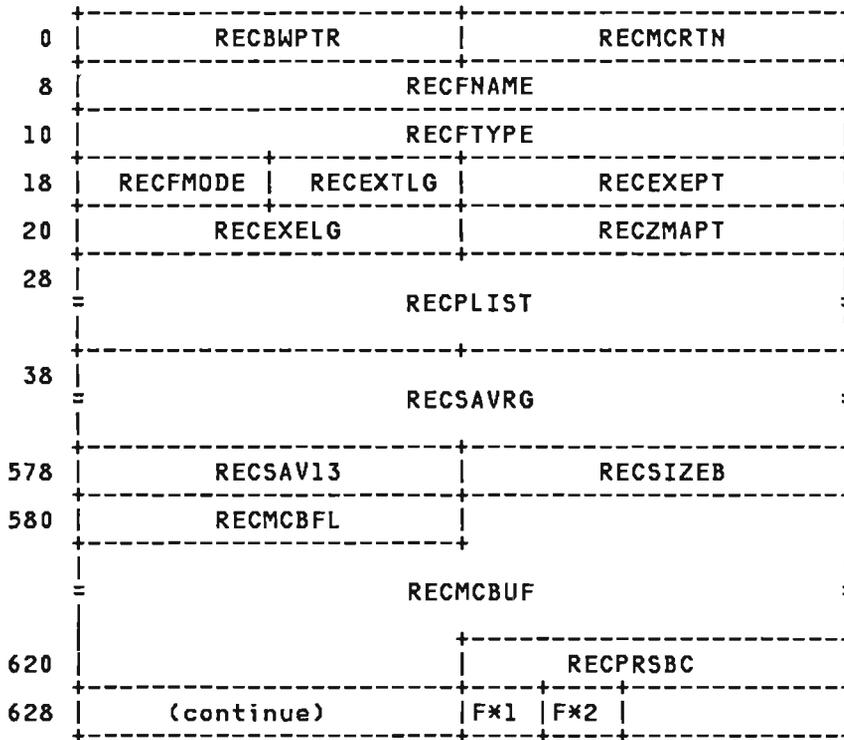


<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	PUBOWNER	2		PUB OWNER

CROSS REFERENCE (Name Disp Value)
 PUBOWNER 0000 ..

RECSAVE: MACRO RECURSION AREA DSECT

RECSAVE is built by DMSXMA and is used by the System Product Editor modules to describe the address list for nested macro calls. RECSAVE is invoked by the RECSAVE macro.



Size

RECSAVE LENGTH IN BYTES (RECLRECB) 62E
 RECSAVE LENGTH IN DOUBLEWORDS (RECLRECD) 0C6
 SIZE OF SAVED & RESTORED PART (RECLGHDR) 008

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	RECBWPTR	4		POINTER TO PREVIOUS MACRO RECURSION AREA
4	RECMCRTN	4		RETURN ADDRESS TO PREVIOUS MACRO, OR 0
8	RECFNAME	8		MACRO FILE NAME
10	RECFTYPE	8		MACRO FILE TYPE
18	RECFMODE	2		MACRO FILE MODE
1A	RECEXTLG	2		MACRO FILE EXTENSION LENGTH
1C	RECEXEPT	4		BEGINNING OF INCORE EXEC2 MACRO

RECSAVE

RECSAVE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
20	RECEXELG	4		LENGTH OF INCORE MACRO
24	RECZMAPT	4		ADDRESS OF MACRO CONTROL BLOCK (ZMACST)
28	RECPLIST	16		NEW-FORM PLIST
38	RECSAVRG	1344		SAVE THE SAVEAREAS
578	RECSAV13	4		SAVE R13
57C	RECSIZEB	4		SIZE OF RECSAVE BLOCK IN BYTES
580	RECMCBFL	4		MACRO CALL LENGTH
584	RECMCBUF	160		COMPLETE MACRO REQUEST STRING
624	RECORDSBC	8		ORIGINAL SUBCOMMAND NAME
62C	RECORDSBN	1 F*1		ORIGINAL SUBCOMMAND NAME LENGTH
62D	RECFLAG1	1 F*2		FLAG BYTE

Bits defined in RECFLAG1

1 RECNO SYN ZFONOSYN BIT SAVED HERE

CROSS REFERENCE (Name Disp Value)

RECBWPTR 0000 ..	RECFNAME 0008 ..	RECMCBUF 0584 ..	RECPLIST 0028 ..
RECEXELG 0020 ..	RECFTYPE 0010 ..	RECMCRTN 0004 ..	RECSAVRG 0038 ..
RECEXPT 001C ..	RECLGHDR 0000 08	RECNO SYN 062D 01	RECSAV13 0578 ..
RECEXTLG 001A ..	RECLRECB 0000 62E	RECORDSBC 0624 ..	RECSIZEB 057C ..
RECFLAG1 062D ..	RECLRECD 0000 C6	RECORDSBN 062C ..	RECZMAPT 0024 ..
RECFMODE 0018 ..	RECMCBFL 0580 ..		

REQDES: SUBCOMMAND DESCRIPTOR

REQDES is defined in DMSXTB and is used by the System Product Editor modules to describe all subcommands and their operands and syntax. REQDES is invoked via the ZREQDES macro.

0	REQNAME										
8	REQADR				R*1	R*2	R*3	R*4			
10	R*5	R*6	R*7	R*8	R*9	R*10	//////////				

Size

REQDES MAXIMUM LENGTH IN BYTES (8 OPERANDS) (REQLREQB) 16
 REQDES LENGTH IN DOUBLEWORDS (REQLREQD) 03
 REQDES MINIMUM LENGTH IN BYTES (NO OPERANDS) (REQLGMIN) 0E

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	REQNAME	8		SUBCOMMAND NAME
8	REQADR	4		SUBCOMMAND ADDRESS IN STORAGE
C	REQLNAME	1	R*1	MINIMUM LENGTH TO ENTER AT THE TERMINAL
D	REQNBOPR	1	R*2	NUMBER OF OPERANDS
E	REQPARAM1	1	R*3	OPERAND 1
F	REQPARAM2	1	R*4	OPERAND 2
10	REQPARAM3	1	R*5	OPERAND 3
11	REQPARAM4	1	R*6	OPERAND 4
12	REQPARAM5	1	R*7	OPERAND 5
13	REQPARAM6	1	R*8	OPERAND 6
14	REQPARAM7	1	R*9	OPERAND 7
15	REQPARAM8	1	R*10	OPERAND 8

CROSS REFERENCE (Name Disp Value)

REQADR 0008 ..	REQLREQD 03	REQPARAM2 000F ..	REQPARAM6 0013 ..
REQLGMIN 0E	REQNAME 0000 ..	REQPARAM3 0010 ..	REQPARAM7 0014 ..
REQLNAME 000C ..	REQNBOPR 000D ..	REQPARAM4 0011 ..	REQPARAM8 0015 ..
REQLREQB 16	REQPARAM1 000E ..	REQPARAM5 0012 ..	

RTDSECT: INTERNAL ROUTING TABLE ENTRY

RTDSECT is used as a template to describe an entry in the programmable operator facility internal routing table. RTDSECT is found in PROP copy.

0	RTEXT					
28	RUSER					
30	RNODE					
38	RACTION					
40	RACTPARM					
48	RSTCOL	RENDCOL	V*1	V*2	V*3	V*4

Size

LENGTH OF A ROUTING TABLE ENTRY (ROUTLEN) 40

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	RTEXT	40		MESSAGE COMPARISON TEXT
28	RUSER	8		AUTHORIZED USER'S ID
30	RNODE	8		AUTHORIZED USER'S NODE
38	RACTION	8		NAME OF ACTION ROUTINE
38	RACTIONB	4		ADDRESS OF INTERNAL ACTION ROUTINE
3C		4		RESERVED
40	RACTPARM	8		PARAMETER TO ACTION ROUTINE
48	RSTCOL	2		STARTING COLUMN FOR MESSAGE SCAN
4A	RENDCOL	2		ENDING COLUMN FOR MESSAGE SCAN
4C	RTYPE	1	V*1	IUCV MESSAGE TYPE
4D	RNBRSUB	1	V*2	NUMBER OF TEXT SUBFIELDS
4D	RACTFLAG	1	V*3	ACTION ROUTINE FLAGS

Bits defined in RACTFLAG

80	RACTBAL	BALR TO ADDRESS IN RACTION FIELD
40	RACTEXEC	THIS ACTION ROUTINE IS AN EXEC
20		RESERVED
10		RESERVED
08		RESERVED
04		RESERVED
02		RESERVED
01		RESERVED

RTDSECT

RTDSECT

CROSS REFERENCE (Name Disp Value)

| RACTBAL 004E 80	| RACTIONB 0038 ..	| RLTEXT 003A ..	| RSTRCOL 0048 ..
| RACTEXEC 004E 40	| RACTPARM 0040 ..	| RNODE 0030 ..	| RTEXT 0000 ..
| RACTFLAF 004E ..	| RENDCOL 004A ..	| RNBRSUB 004D ..	| RTYPE 004C ..
| RACTION 0038 ..	| RDTEXT 0039 ..	| ROUTLEN 40	| RUSER 0028 ..

RTXSBFLD: ROUTING TEXT SUB FIELD

RTXSBFLD is used in combination with RTDSECT to map over the RTEXT field.
RTXSBFLD is invoked by itself.

```

0      +-----+-----+-----+-----+
      | V*1 | V*2 |           RTXSBTXT           |
      +-----+-----+-----+-----+

```

Size

LENGTH OF SUBFIELD INFORMATION (RTXSBL) 02

Disp Name Len Key Description

0	RTXSBLN	1	V*1	LENGTH OF SUBFIELD TEXT
2	RTXSBFLG	1	V*2	TEXT SUBFIELD FLAGS

Bits defined in RTXSBFLG

80	RTXARBSC			SCANNING FOR ARB-CHAR SEPARATION
40	RTXNOTSC			SCANNING FOR NOT-SYMBOL

CROSS REFERENCE (Name Disp Value)

RTXARBSC	0001	40	RTXSBFLG	0001	..	RTXSBLN	0000	..
RTXNOTSC	0001	40	RTXSBL	....	02	RTXSBTXT	0002	..

SAVEREG: SAVE AREA

SAVEREG is used by the System Product Editor modules to save register contents during subroutine calls. Fourteen SAVEREG blocks are allocated in the ZFONC block. SAVEREG is invoked via the ZBLOCKS macro.

0	SAVREG0	SAVREG1			
8	SAVREG2	SAVREG3			
10	SAVREG4	SAVREG5			
18	SAVREG6	SAVREG7			
20	SAVREG8	SAVREG9			
28	SAVREG10	SAVREG11			
30	SAVREG12	SAVREG13			
38	SAVREG14	SAVREG15			
40	SAVBWPtr	S*1	S*2	S*3	S*4
48	SAVDWRD1				
50	SAVDWRD2				
58	SAVWORD1	SAVWORD2			

Size

SAVEREG LENGTH IN DOUBLEWORDS (SAVLSAVD) 0C
 SAVEREG LENGTH IN BYTES (SAVLSAVB) 60

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	SAVREG0	4		R0
4	SAVREG1	4		R1
8	SAVREG2	4		R2
C	SAVREG3	4		R3
10	SAVREG4	4		R4
14	SAVREG5	4		R5
18	SAVREG6	4		R6
1C	SAVREG7	4		R7
20	SAVREG8	4		R8
24	SAVREG9	4		R9
28	SAVREG10	4		R10

SAVEREG

SAVEREG

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
2C	SAVREG11	4		R11
30	SAVREG12	4		R12
34	SAVREG13	4		R13
38	SAVREG14	4		R14
3C	SAVREG15	4		R15
40	SAVBWPTR	4		BACKWARD POINTER TO PREVIOUS SAVEAREA

WORK AREA

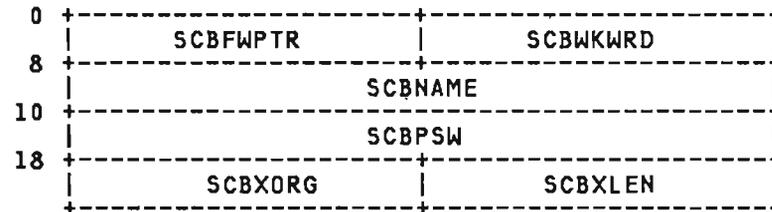
44	SAVBYTE1	1	S*1	BYTE
45	SAVBYTE2	1	S*2	BYTE
46	SAVBYTE3	1	S*3	BYTE
47	SAVBYTE4	1	S*4	BYTE
48	SAVDWRD1	8		DOUBLEWORD
50	SAVDWRD2	8		DOUBLEWORD
58	SAVWORD1	4		WORD
5C	SAVWORD2	4		WORD

CROSS REFERENCE (Name Disp Value)

SAVBWPTR	0040	..	SAVLSAVB	....	60	SAVREG13	0034	..	SAVREG6	0018	..
SAVBYTE1	0044	..	SAVLSAVD	....	0C	SAVREG14	0038	..	SAVREG7	001C	..
SAVBYTE2	0045	..	SAVREG0	0000	..	SAVREG15	003C	..	SAVREG8	0020	..
SAVBYTE3	0046	..	SAVREG1	0004	..	SAVREG2	0008	..	SAVREG9	0024	..
SAVBYTE4	0047	..	SAVREG10	0028	..	SAVREG3	000C	..	SAVWORD1	0058	..
SAVDWRD1	0048	..	SAVREG11	002C	..	SAVREG4	0010	..	SAVWORD2	005C	..
SAVDWRD2	0050	..	SAVREG12	0030	..	SAVREG5	0014	..			

SCBLOCK: SUBCOMMAND CONTROL BLOCK

SCBLOCK describes the dynamic entry point for the SUBCOM function and is dynamically allocated from free storage by DMSITS. SCBLOCK is invoked via the SCBLOCK macro.

**Size**

LENGTH IN DOUBLEWORDS (SCBLOCKD) 04
 LENGTH IN BYTES (SCBLOCKB) 20

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

0	SCBFWPTR	4		CHAIN POINTER TO NEXT SCBLOCK
4	SCBWKWRD	4		AVAILABLE FOR USER INFORMATION
8	SCBNAME	8		NAME OF SUBCOMMAND ENVIRONMENT
10	SCBPSW	8		STARTING PSW FOR SUBCOMMAND
12	SCBSFLAG	1		SYSTEM FLAG BYTE
Bits defined in SCBSFLAG				
80	SCBSFSYS			DENOTES "SYSTEM" ROUTINE -- WILL NOT BE AUTOMATICALLY DELETED DURING ABEND PROCESSING
40	SCBSFSER			DENOTES "SERVICE" ROUTINE -- WILL BE CALLED WITH "PURGE" ARGUMENT DURING ABEND PROCESSING
20	SCBSFABN			USED DURING ABEND PROCESSING
20	SCBSFINT			USED DURING END OF COMMAND PROCESSING
10	SCBSFEND			DENOTES 'END OF COMMAND' ROUTINE
04	SCBSFIMM			DENOTES THAT THIS NUCLEUS EXTENSION CAN ALSO BE CALLED AS AN IMMEDIATE COMMAND
02	SCBSFX			DENOTES A LOOK-ASIDE ENTRY POINTING TO A REAL CMS NUCLEUS ROUTINE
01	SCBSHIDE			USED TO HIDE A NUCLEUS EXTENSION TEMPORARILY
13	SCBUFLAG	1		USER FLAG BYTE
14	SCBENTR	1		ENTRY POINT ADDRESS IN PSW NUCX FIELDS. THESE ARE PRESENT, BUT NOT USED, IN SCBLOCKS ON THE NUCSCBLK CHAIN.
18	SCBXORG	4		ADDRESS WHERE NUCLEUS EXTENSION WAS LOADED IN FREE STORAGE
1C	SCBXLEN	4		LENGTH IN BYTES OF NUCLEUS EXTENSION. MAY BE ZERO FOR SECONDARY ENTRY POINTS

SCBLOCK

SCBLOCK

CROSS REFERENCE (Name Disp Value)

SCBENTR	0014	..	SCBPSW	0010	..	SCBSFLAG	0012	..	SCBUFLAG	0013	..
SCBFWPTR	0000	..	SCBSFABN	0010	20	SCBSFSER	0010	40	SCBWKWRD	0004	..
SCBLOCKB	0000	20	SCBSFEND	0010	10	SCBSFSYS	0010	80	SCBXLEN	001C	..
SCBLOCKD	001C	04	SCBSFIMM	0010	04	SCBSFX	0010	02	SCBXORG	0018	..
SCBNAME	0008	..	SCBSFINT	0010	20	SCBSHIDE	0010	01			

SHVBLOCK: LAYOUT OF SHARED-VARIABLE ACCESS CONTROL BLOCK

The control blocks for accessing shared variables are chained as a list terminated by a null pointer. The list is addressed via the 'private interface' plist in a subcommand call to a public variable-sharing environment (e.g. as set up by the EXEC 2 interpreter).

0	SHVNEXT		SHVUSER
8	S*1	S*2	SHVBUFL
10	SHVNAMA		SHVNAML
18	SHVVALA		SHVVALL

Size

SHVBLOK LENGTH IN BYTES (SHVBLEN) 20

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	SHVNEXT	4		CHAIN POINTER (0 IF LAST)
4	SHVUSER	4		NOT USED, AVAILABLE FOR PRIVATE USE
8	SHVCODE	1	S*1	INDIVIDUAL FUNCTION CODE
Function codes defined in SHVCODE				
E2	SHVSTORE			STORE GIVEN VALUE IN SHARED VARIABLE
C6	SHVFETCH			COPY VALUE OF SHARED VAR TO BUFFER
9	SHVRET	1	S*2	INDIVIDUAL RETURN CODE FLAG
Return code flags in SHVRET				
80	SHVBADF			INVALID FUNCTION CODE (SHVCODE)
10	SHVBADV			INVALID VARIABLE VALUE (E.G. TOO LONG)
08	SHVBADN			INVALID VARIABLE NAME (E.G. TOO LONG)
04	SHVTRUNC			TRUNCATION OCCURRED FOR 'FETCH'
C	SHVBUFL	4		LENGTH OF 'FETCH' VALUE BUFFER
10	SHVNAMA	4		ADDRESS OF PUBLIC VARIABLE NAME
14	SHVNAML	4		LENGTH OF PUBLIC VARIABLE NAME
18	SHVVALA	4		ADDRESS OF VALUE BUFFER (0 IF NONE)
1C	SHVVALL	4		LENGTH OF VALUE (SET BY 'FETCH')

CROSS REFERENCE (Name Disp Value)

SHVBADF	0009	80	SHVBUFL	000C	..	SHVNAML	0014	..	SHVTRUNC	0009	04
SHVBADN	0009	08	SHVCODE	0008	..	SHVNEXT	0000	..	SHVUSER	0004	..
SHVBADV	0009	10	SHVFETCH	0008	C6	SHVRET	0009	..	SHVVALA	0018	..
SHVBLEN	....	20	SHVNAMA	0010	..	SHVSTORE	0008	E2	SHVVALL	001C	..

SSAVE: SYSTEM SAVE AREA

SSAVE is used by DMSITS to save the value of the SVC old PSW, the caller's registers, and other necessary control information required to process the SVC and return to the caller. Since SVC calls can be nested, several of these save areas can exist at one time. The system save area is dynamically allocated in protected free storage. SSAVE is invoked via the CMSAVE macro.

0	A*1	A*2	CODE	CALLER
8	CALLEE			
10	OLDPSW			
18	NRMRET		ERRET	
20	EGPR0		EGPR1	
28	EGPR2		EGPR3	
30	EGPR4		EGPR5	
38	EGPR6		EGPR7	
40	EGPR8		EGPR9	
48	EGPR10		EGPR11	
50	EGPR12		EGPR13	
58	EGPR14		EGPR15	
60	EFPR0			
68	EFPR2			
70	EFPR4			
78	EFPR6			
80	CHKWRD1		SSAVENXT	
88	SSAVEPRV		USAVEPTR	
90	OSTEMP		A*3	KEYS
98	KEYS (cont.)		XGPR0	
A0	XGPR1		XGPR15	
A8	XCOUNT		CHKWRD2	

Size

SYSTEM SAVE AREA SIZE IN DOUBLEWORDS (SSAVESZ) 16

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	OVIND	1	A*1	OVERRIDE INDICATOR: 0,1,2,3
1	TYPFLAG	1	A*2	SVC TYPE FLAG BYTE
Bits defined in TYPFLAG				
80	TPFERT			ERROR RETURN DESIRED
40	TPFNS			NO SAVE AREA ALLOCATED
20	TPFR01			RETURN CALLEE'S R0-R1 TO CALLER
10	TPFUSR			'USER' SVC CALL
08	TPFACB			OS VSAM SVC REQUEST
02	TPFSV3			SVC 203
01	TPFSVO			OS SIMULATION SVC
2	CODE	2		SVC 203 CODE VALUE
4	CALLER	4		ADDRESS OF SVC CALLER
8	CALLEE	8		NAME OF ROUTINE BEING CALLED
10	OLDPSW	8		SVC OLDPSW OF CALLER
18	NRMRET	4		ADDRESS FOR NORMAL RETURN
1C	ERRET	4		ADDRESS FOR ERROR RETURN
20	EGPRS	4		GENERAL REGS AT ENTRY TO SVC
20	EGPR0	4		R0
24	EGPR1	4		R1
28	EGPR2	4		R2
2C	EGPR3	4		R3
30	EGPR4	4		R4
34	EGPR5	4		R5
38	EGPR6	4		R6
3C	EGPR7	4		R7
40	EGPR8	4		R8
44	EGPR9	4		R9
48	EGPR10	4		R10
4C	EGPR11	4		R11
50	EGPR12	4		R12
54	EGPR13	4		R13
58	EGPR14	4		R14
5C	EGPR15	4		R15

SSAVE

SSAVE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
60	EFPRS	8		FLOATING POINT REGS AT ENTRY
60	EFPR0	8		FPR0
68	EFPR2	8		FPR2
70	EFPR4	8		FPR4
78	EFPR6	8		FPR6
80	CHKWRD1	4		CHECK WORD ONE
84	SSAVENXT	4		ADDRESS OF NEXT SSAVE AREA
88	SSAVEPRV	4		ADDRESS OF PREVIOUS SSAVE AREA
8C	USAVEPTR	4		ADDRESS OF CORRESPONDING USER SAVE AREA
90	OSTEMP	4		TEMPORARY FOR OS SIMULATION ROUTINES
94	KEYP	1	A*3	NUMBER OF KEYS ON STACK
95	KEYS	1		KEY STACK

'DMSKEY' KEY STACK

07 KEYMAX MAXIMUM NUMBER OF KEYS IN STACK

THE FOLLOWING FIELDS ARE FILLED IN ONLY BY DMSOVS, THE SVCTRACE SUBROUTINE

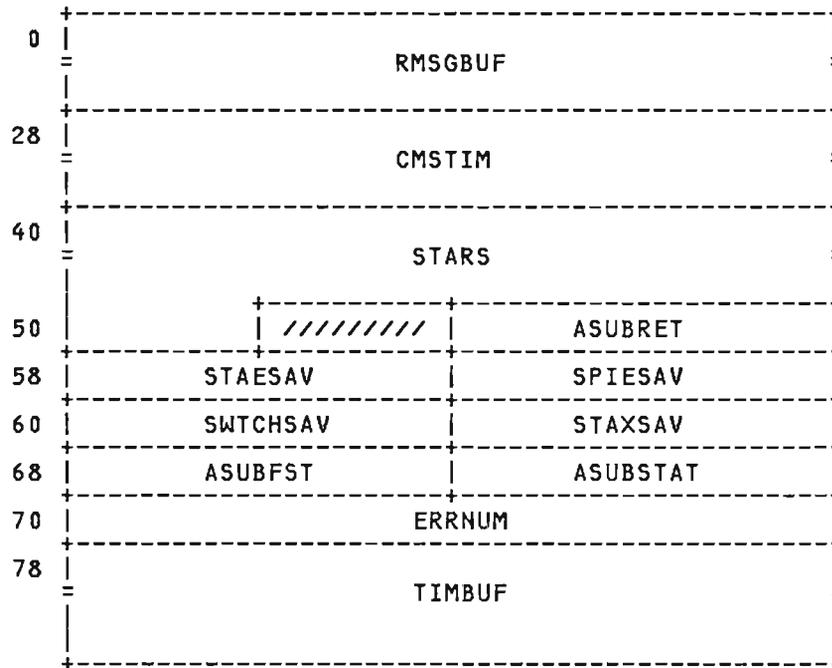
9C	XGPR0	4		EXTRA COPY OF EGPR0
A0	XGPR1	4		EXTRA COPY OF EGPR1
A4	XGPR15	4		EXTRA COPY OF EGPR15
A8	XCOUNT	4		EXTRA COPY OF SVCOUNT
AC	CHKWRD2	4		SECOND CHECK WORD

CROSS REFERENCE (Name Disp Value)

CALLEE	0008	..	EGPR10	0048	..	EGPR9	0044	..	TPFERT	0001	80
CALLER	0004	..	EGPR11	004C	..	ERRET	001C	..	TPFNS	0001	40
CHKWRD1	0080	..	EGPR12	0050	..	KEYMAX	0090	07	TPFR01	0001	20
CHKWRD2	00AC	..	EGPR13	0054	..	KEYP	0094	..	TPFSVO	0001	01
CODE	0002	..	EGPR14	0058	..	KEYS	0095	..	TPFSV3	0001	02
EFPRS	0060	..	EGPR15	005C	..	NRMRET	0018	..	TPFUSR	0001	10
EFPR0	0060	..	EGPR2	0028	..	OLDPSW	0010	..	TYPFLAG	0001	..
EFPR2	0068	..	EGPR3	002C	..	OSTEMP	0090	..	USAVEPTR	008C	..
EFPR4	0070	..	EGPR4	0030	..	OVIND	0000	..	XCOUNT	00A8	..
EFPR6	0078	..	EGPR5	0034	..	SSAVENXT	0084	..	XGPR0	009C	..
EGPRS	0020	..	EGPR6	0038	..	SSAVEPRV	0088	..	XGPR1	00A0	..
EGPR0	0020	..	EGPR7	003C	..	SSAVESZ	....	16	XGPR15	00A4	..
EGPR1	0024	..	EGPR8	0040	..	TPFACB	0001	08			

SUBSECT: SUBSET WORK AREA

SUBSECT defines the fields in the SUBSET work area which is used by CMS SUBSET command processing and abend recovery. The SUBSECT block is pointed to by the ASUBSECT field in NUCON. SUBSECT is invoked via the SUBSECT macro.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 0	RMSGBUF	40		READY/TIME MESSAGE FORMATTING AREA PLIST FOR GETTING TIMES FROM DMSINM
| 28	CMSTIM	24		PLIST FOR ACTLKP AS USED BY SUBSET
| 40	STARS	18		
| 52		2		RESERVED
SUBSET ADDRESS STORAGE AREAS				
54	ASUBRET	4		SUBSET ADDRESS STORAGE AREAS
58	STAESAV	4		SUBSET ADDRESS STORAGE AREAS
5C	SPIESAV	4		SUBSET ADDRESS STORAGE AREAS
60	SWTCHSAV	4		SUBSET ADDRESS STORAGE AREAS
64	STAXSAV	4		SUBSET ADDRESS STORAGE AREAS

SUBSECT

SUBSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
68	ASUBFST	4		SUBSET ADDRESS STORAGE AREAS
6C	ASUBSTAT	4		SUBSET ADDRESS STORAGE AREAS
70	ERRNUM	8		WORK AREA FOR ERROR RETURN-CODE
78	TIMBUF	32		WORK AREA FOR DMSINM TO STORE DATE AND TIME

CROSS REFERENCE (Name Disp Value)

ASUBFST	0068	..	CMSTIM	0028	..	SPIESAV	005C	..	STAXSAV	0064	..
ASUBRET	0054	..	ERRNUM	0070	..	STAESAV	0058	..	SWTCHSAV	0060	..
ASUBSTAT	006C	..	RMSGBUF	0000	..	STARS	0040	..	TIMBUF	0078	..

SVCSECT: SVC INTERRUPT STORAGE

SVCSECT describes the fields used by DMSITS in handling SVC interrupts. An SVCSECT block is built dynamically when an SVC is issued. The first SVCSECT is pointed to by the ASVCSECT field in NUCON; if SVCs are nested, the chain of SVCSECT blocks is processed using current the CURRALOC and LASTALOC fields. SVCSECT is invoked via the SVCSECT macro.

0	JNUMB		JFIRST	
8	JF4		JLAST	
10	S*1	///	SVCAB	CURRALOC
18	LASTALOC		DEPTH	
20	ADMSOVS		OVBPF	OVBTF
28	OVAPF	OVATF	S*2	////////////////////
30	=			
	SVCSAVE			
	=			
78	=			
	NRMSAV			
	=			
158	////////////////////		SVCOUNT	
160	SVCSTOP		SVLAD	
168	SVLADW		SVLFS	
170	LOADLIST			
178	LOADNAME			
180	(Literals are loaded into this area)			
188	(The literals here are from the origin)			
190	LOADSTRT			
198	(Hexadecimals are entered in this area)			
1A0	////////////////////			
1A8	MODLIST			
1B0	DUMCOM			
1B8	S*3	ZER03	TRANSRT	
1C0	TRANSRT (cont.)		S*4	ADTRANS
1C8	TEMP02			

1D0	= // =	
1E0	RGPR0	RGPR1
1E8	RGPR2	RGPR3
1F0	RGPR4	RGPR5
1F8	RGPR6	RGPR7
200	RGPR8	RGPR9
208	RGPR10	RGPR11
210	RGPR12	RGPR13
218	RGPR14	RGPR15
220	RFPR0	
228	RFPR2	
230	RFPR4	
238	RFPR6	
240	= NRMUSAV =	

Disp	Name	Len	Key	Description
0	USVCTBL	4		A 'HANDLE' FOR THE FOLLOWING
KEEP NEXT FOUR IN ORDER				
0	JNUMB	4		NUMBER OF DOUBLEWORDS IN SVC-NUMBER TABLE
4	JFIRST	4		ADDRESS OF FIRST ITEM (IF ANY) IN TABLE
8	JF4	4		(FOR BXLE)
C	JLAST	4		ADDRESS OF LAST ITEM IN TABLE

START-UP FLAGS -- INDICATE WHAT MODE THE CALLEE IS TO BE STARTED UP.

10 SFLAG 1 S*1 FLAG BYTE

Bits defined in SFLAG

80 SFSYS SYSTEM FLAG -- SVC PROTECT KEY IS ZERO
 40 SFTRN TRANSIENT AREA ROUTINE -- SYSTEM MASK IS OFF
 20 SFNUC NUCLEUS ROUTINE -- SYS MASK OFF
 02 SFNONUCX SUPPRESS NUCLEUS EXTENSION
 01 SFREN ILLEGAL RE-ENTRY FLAG

12 SVCAB 2 SVC ABEND CODE, IF ANY

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
14	CURRALOC	4		CURRENT ALLOCATED SAVE AREA
18	LASTALOC	4		LAST ALLOCATED SAVE AREA
1C	DEPTH	4		NESTED SVC DEPTH

INFORMATION FOR SVCTRACE

20	ADMSOVS	4		ADDRESS OF DMSOVS
24	OVBPF	2		'BEFORE PRINT' FLAGS
26	OVBTF	2		'BEFORE TYPE' FLAGS
28	OVAPF	2		'AFTER PRINT' FLAGS
2A	OVATF	2		'AFTER TYPE' FLAGS

DEFINITIONS OF FLAGS FOR EACH PAIR OF FLAG BYTES

80	OVF10N			THIS OPTION IS ON
40	OVF1GB			GPRS BEFORE CALL WANTED
20	OVF1GA			GPRS AFTER CALL WANTED
10	OVF1GS			GPRS RETURNED FROM SVC CALLEE
04	OVF1F			FLOATING POINT REGS WANTED
01	OVF1FS			FPRS RETURNED FROM SVC CALLEE
08	OVF1PA			PARAMETER LIST WANTED
80	OVF2ST			'STOP' WANTED
40	OVF2CM			CMS SVC TRACE WANTED
20	OVF2NR			NORMAL RETURN CMS SVC'S WANTED
10	OVF2OS			OS SVC'S WANTED
08	OVF2WA			'WAIT' CMS SVC'S WANTED

2C	OVSTAT	1 S*2		CURRENT STATUS OF SVCTRACE
----	--------	-------	--	----------------------------

Bits defined in OVSTAT

80	OVSON			OVERRIDES ARE ON
40	OVSPEV			'SVCTRACE SAME' IS LEGAL
20	OVSAFT			'AFTER' BIT, SET BY DMSITS
10	OVSHO			'HALT OVERRIDES' FLAG
08	OVSSO			'SUSPEND OVERRIDES' FLAG
| 30	SVCSAVE	72		INTSVC WORK AREA
| 78	NRMSAV	224		NORMAL STANDARD INFORMATION
| 158		4		RESERVED
15C	SVCOUNT	4		CURRENT SVC COUNT
160	SVCSTOP	4		FOR DMSITS DEBUGGING
164	SVLAD	4		SAVE REG 14 FOR DMSLAD
168	SVLADW	4		SAVE REG 14 FOR DMSLADW
16C	SVLFS	4		SAVE REG 14 FOR DMSLFS
170	LOADLIST	8		
178	LOADNAME	8		
190	LOADSTRT	8		

SVCSECT

SVCSECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 1A0	KEEP NEXT FIVE IN ORDER	8		RESERVED
1A8	MODLIST	8		ROUTINE NAME
1B0	DUMCOM	8		MODULE 'FILENAME' FILLED IN HERE
1B8	SSMON	1 S*3		'FENCE' AND ALLOWS ALL INTERRUPTS
1B9	ZER03	3		THREE-BYTE ZERO
1BC	TRANSRT	8		HOLDS FILENAME OF TRANSIENT ROUTINE
1C4	TRANMSK	1 S*4		
| 1C5	ADTRANS	3		
1C8	TEMP02	8		(FOR 'CVD' & OTHER SCRATCH-USE)
| 1D0		16		RESERVED
1E0	RGPRS	4		RETURNED GPRS
1E0	RGPR0	4		R0
1E4	RGPR1	4		R1
1E8	RGPR2	4		R2
1EC	RGPR3	4		R3
1F0	RGPR4	4		R4
1F4	RGPF5	4		R5
1F8	RGPR6	4		R6
1FC	RGPR7	4		R7
200	RGPR8	4		R8
204	RGPR9	4		R9
208	RGPR10	4		R10
20C	RGPR11	4		R11
210	RGPR12	4		R12
214	RGPR13	4		R13
218	RGPR14	4		R14
21C	RGPR15	4		R15
220	RFPRS	8		RETURNED FLOATING POINT REGS
220	RFPR0	8		FPR0
228	RFPR2	8		FPR2
230	RFPR4	8		FPR4
238	RFPR6	8		FPR6

SVCSECT

SVCSECT

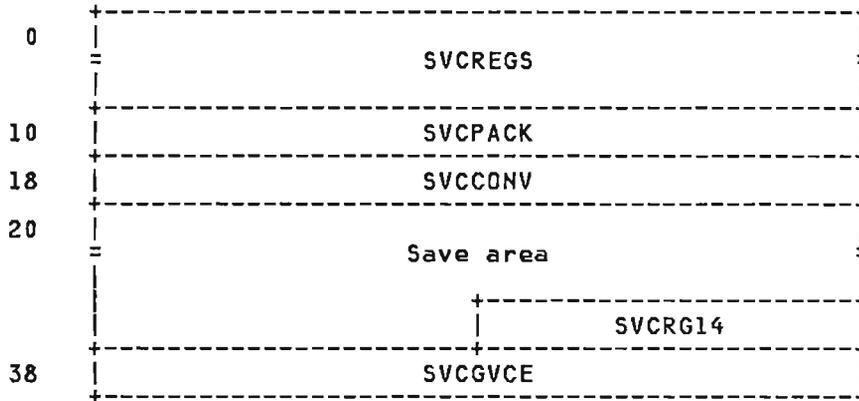
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
240	NRMUSAV	96		'NRMSAV' USER SAVE AREA

CROSS REFERENCE (Name Disp Value)

ADMSOVS	0020	..	OVF1F	002A	04	RFPR2	0228	..	SFLAG	0010	..
ADTRANS	01C5	..	OVF1FS	002A	01	RFPR4	0230	..	SFNONUCX	0010	02
CURRALOC	0014	..	OVF1GA	002A	20	RFPR6	0238	..	SFNUC	0010	20
DEPTH	001C	..	OVF1GB	002A	40	RGPF5	01F4	..	SFREN	0010	01
DUMCOM	01B0	..	OVF1GS	002A	10	RGPRS	01E0	..	SFSYS	0010	80
JFIRST	0004	..	OVF1ON	002A	80	RGPR0	01E0	..	SFTRN	0010	40
JF4	0008	..	OVF1PA	002A	08	RGPR1	01E4	..	SSMON	01B8	..
JLAST	000C	..	OVF2CM	002A	40	RGPR10	0208	..	SVCAB	0012	..
JNUMB	0000	..	OVF2NR	002A	20	RGPR11	020C	..	SVCOUNT	015C	..
LASTALOC	0018	..	OVF2OS	002A	10	RGPR12	0210	..	SVCSAVE	0030	..
LOADLIST	0170	..	OVF2ST	002A	80	RGPR13	0214	..	SVCSTOP	0160	..
LOADNAME	0178	..	OVF2WA	002A	08	RGPR14	0218	..	SVLAD	0164	..
LOADSTRT	0190	..	OVSAFT	002C	20	RGPR15	021C	..	SVLADW	0168	..
MODLIST	01A8	..	OVSHO	002C	10	RGPR2	01E8	..	SVLFS	016C	..
NRMSAV	0078	..	OVSON	002C	80	RGPR3	01EC	..	TEMP02	01C8	..
NRMUSAV	0240	..	OVSPREV	002C	40	RGPR4	01F0	..	TRANMSK	01C4	..
OVAPF	0028	..	OVSSO	002C	08	RGPR6	01F8	..	TRANSRT	01BC	..
OVATF	002A	..	OVSTAT	002C	..	RGPR7	01FC	..	USVCTBL	0000	..
OVBPFF	0024	..	RFPRS	0220	..	RGPR8	0200	..	ZER03	01B9	..
OVBTFF	0026	..	RFPR0	0220	..	RGPR9	0204	..			

SVCWORK: SVC WORKAREA

SVCWORK is a workarea and register savearea for the CMS DOS simulation modules.
 SVCWORK is invoked by itself.



<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	SVCREGS	16		REGISTER SAVE AREA
10	SVCPACK	8		PACK/UNPACK WORK AREA
18	SVCCONV	8		CONVERT WORKAREA
20		20		SAVEAREA
34	SVCRG14	4		DMSGMF R14 SAVEAREA
38	SVCGVCE	0		GETVCE PARAMETER LIST

CROSS REFERENCE (Name Disp Value)

SVCCONV 0018 ..	SVCPACK 0010 ..	SVCREGS 0000 ..
SVCGVCE 0038 ..		SVCRG14 0034 ..

SVEARA: LTA AND PP SAVE AREA DSECT

SVEARA describes the fields in a VSE Logical Transient Area (LTA) and Problem Program (PP) save area. SVEARA is invoked via the DOSAVE macro. These areas are used by DOS/VS routines to save the value of the PSW and registers for purposes such as linkage to and from transient routines.

0	////////////////////////////////////	////////////////////////////////////
8	SVEPSW	SVEPSW2
10	SVER09	SVER0A
18	SVER0B	SVER0C
20	SVER0D	SVER0E
28	SVER0F	SVER00
30	SVER01	SVER02
38	SVER03	SVER04
40	SVER05	SVER06
48	SVER07	SVER08

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
8	SVEPSW	4		FIRST HALF PSW
8	SVEASM	1		SYSTEM MASK
9	SVEAKA	1		KEY AND AMWP
A	SVEAIC	2		INTERRUPT CODE
C	SVEPSW2	4		SECOND HALF PSW
C	SVEAICP	1		ILC, CC, PROGRAM MASK
D	SVEAIA	3		INSTRUCTION ADDRESS
10	SVEA0908			REGISTERS 9-8
10	SVEA0915			REGS 9-15
10	SVER09	4		SAVE AREA FOR REGISTER 9
14	SVER0A	4		SAVE AREA FOR REGISTER 10
18	SVER0B	4		SAVE AREA FOR REGISTER 11
1C	SVER0C	4		SAVE AREA FOR REGISTER 12
20	SVER0D	4		SAVE AREA FOR REGISTER 13
24	SVER0E	4		SAVE AREA FOR REGISTER 14

SVEARA

SVEARA

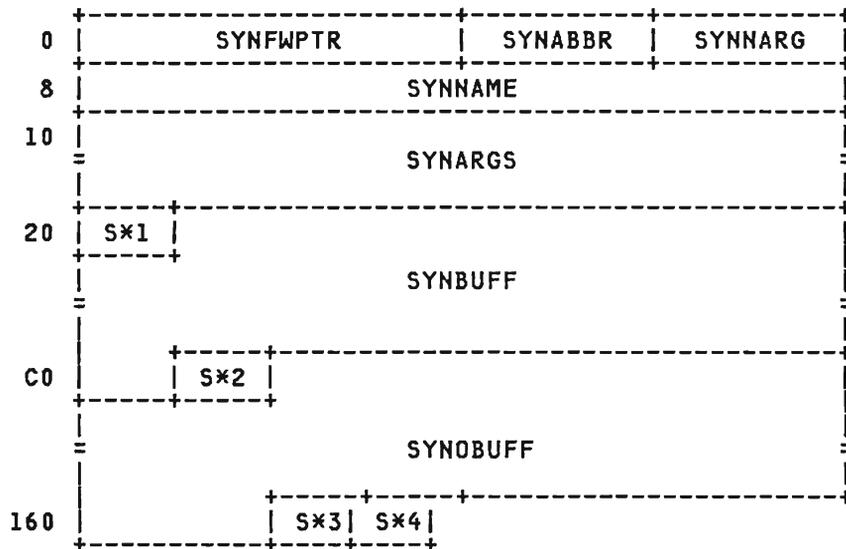
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
28	SVER0F	4		SAVE AREA FOR REGISTER 15
2C	SVEA0008			REGS 0-8
2C	SVER00	4		SAVE AREA FOR REGISTER 0
30	SVER01	4		SAVE AREA FOR REGISTER 1
34	SVER02	4		SAVE AREA FOR REGISTER 2
38	SVER03	4		SAVE AREA FOR REGISTER 3
3C	SVER04	4		SAVE AREA FOR REGISTER 4
40	SVER05	4		SAVE AREA FOR REGISTER 5
44	SVER06	4		SAVE AREA FOR REGISTER 6
48	SVER07	4		SAVE AREA FOR REGISTER 7
4C	SVER08	4		SAVE AREA FOR REGISTER 8

CROSS REFERENCE (Name Disp Value)

SVEAIA	000D ..	SVEA0915	0010 ..	SVER0E	0024 ..	SVER04	003C ..
SVEAIC	000A ..	SVEPSW	0008 ..	SVER0F	0028 ..	SVER05	0040 ..
SVEAICP	000C ..	SVEPSW2	000C ..	SVER00	002C ..	SVER06	0044 ..
SVEAKA	0009 ..	SVER0A	0014 ..	SVER01	0030 ..	SVER07	0048 ..
SVEASM	0008 ..	SVER0B	0018 ..	SVER02	0034 ..	SVER08	004C ..
SVEA0008	002C ..	SVER0C	001C ..	SVER03	0038 ..	SVER09	0010 ..
SVEA0908	0010 ..	SVER0D	0020 ..				

SYNSUB: SUBCOMMAND SYNONYM CONTROL BLOCK

SYNSUB blocks are used by the System Product Editor modules to describe the synonyms defined for System Product Editor subcommands. A SYNSUB block is built dynamically by DMSDC each time a synonym is defined. SYNSUB is invoked via the SYNSUB macro.

**Size**

SYNSUB LENGTH IN DOUBLEWORDS (SYNLSYND) 02D
 SYNSUB LENGTH IN BYTES (SYNLSYNB) 164

Disp	Name	Len	Key	Description
0	SYNFWPTR	4		FORWARD SUBCOMMAND SYN. BLOCK POINTER
4	SYNABBR	2		DEFINED SUBCOMMAND MINIMUM ABBREVIATION LENGTH-1
6	SYNNARG	2		NUMBER OF DEFINED SUBCOMMAND ARGMENTS
8	SYNNAME	8		DEFINED SUBCOMMAND NAME
10	SYNARGS	16		ARGUMENT DEFINITION MAP (2 BITS/ARGUMENT)
Bits defined in SYNARGS				
00	SYNARG0			ARGUMENT TYPE 0 - BLANK-DELIMITED
04	SYNNBTYP			4 ARGUMENT TYPES
03	SYNARG3			ARGUMENT TYPE 3 - REMAINING DATA
02	SYNARG2			ARGUMENT TYPE 2 - DUAL-STRING-DELIMITED
01	SYNARG1			ARGUMENT TYPE 1 - SINGLE-STRING-DELIMITED
20	SYNSYNL	1	S*1	LENGTH OF SUBCOMMAND SYNONYM STRING
21	SYNBUFF	160		SUBCOMMAND SYNONYM STRING

SYNSUB

SYNSUB

Disp Name Len Key Description

```

| C1  SYNOSYNL  1 S*2  LENGTH OF ORIGINAL DEFINITION
| C2  SYNOBUFF 160      ORIGINAL DEFINITION
      Bits defined in SYNOBUFF
| 40  SYNMAXAR          MAXIMUM PERMISSIBLE ARGUMENTS
| 162 SYNFLAG1  1 S*3  FLAG BYTE
      Bits defined in SYNFLAG1
| 01  SYNLNLDND          .....X LINEND SPECIFIED
163  SYNLNCH  1 S*4  LINEND CHARACTER

```

CROSS REFERENCE (Name Disp Value)

SYNABBR 0004 ..	SYNARG3 0010 03	|	SYNLNLDND 0162 01	SYNNARG 0006 ..
SYNARGS 0010 ..	SYNOBUFF 0021 ..	|	SYNLSYNB ....164	SYNNBTYP 0010 04
SYNARG0 0010 00	| SYNFLAG1 0162 ..	|	SYNLSYND 2D	| SYNOBUFF 00C2 ..
SYHARG1 0010 01	SYNFWPTR 0000 ..	|	SYNMAXAR 00C2 40	| SYNOSYNL 00C1 ..
SYHARG2 0010 02	| SYNLDCH 0163 ..	|	SYNNAME 0008 ..	SYNSYNL 0020 ..

SYSCOM: SYSTEM COMMUNICATION REGION

SYSCOM describes the fields in the SYSCOM block which is the CMS/DOS equivalent of the VSE System Communication Region (SYSCOM). The ASYSCOM field in NUCOM points to the SYSCOM block in DMSNUC. SYSCOM is invoked via the SYSCOM macro.

0	IJBEBLC		////////////////////		
8	IJBERR19		IJBpubRS		
10	////////////////////				
18	////////////////////		IJBltA		
20	IJBPPBEG		IJBCHANQ		
28	IJBQSIZE	IJBQLNG	IJBnPART	S*1	S*2
30	////////////////////		IJBCONSP		
38	IJBocFCM		////////////////////		
40	S*3	S*4	S*5	S*6	////////////////////
48	////////////////////		IJBTKHLD		
50	////////////////////				
58	IJBlik	IJBtik	IJBpWR		
60	IJBtCAVT		IJBRTAB		
68	////////////////////		IJBOLTEP		
70	IJBRAslN		IJBTRTAB		
78	IJBpBOWN		IJBjATAB		
80	////////////////////		IJBCCWT		
88	IJBsAVSD		IJBlnSTB		
90	IJBARBUF		IJBAPTA		
98	////////////////////				
A0	////////////////////				
A8	////////////////////				
B0	IJBTTAB		////////////////////		
B8	////////////////////		IJBTPBAL	IJBTTPID	
C0	IJBmFCER				
C8	S*7		IJPUBLN	IJBAPNO	

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
70	IJBRASLN	4		POINTER TO RAS LINKAGE AREA
74	IJBTRTAB	4		ADDRESS OF ASCII TABLE
78	IJBPBOWN	4		ADDRESS OF PUB OWNERSHIP TABLE
7C	IJBJATAB	4		ADDRESS OF JOB ACCOUNTING COMM. AREA
| 80		4		RESERVED
84	IJBCCWT	4		ADDRESS OF CCW TRANS WORK
88	IJBHAVSD	4		PNTR TO SDAID COMM. AREA
8C	IJBLNSTB	4		ADDRESS OF LINE MODE TABLE
90	IJBARBUF	4		ADDRESS OF ATTN INPUT BUFFER
94	IJBAPTA	4		ADDRESS OF PTA
| 98		24		RESERVED
B0	IJBTTAB	4		ADDRESS OF TTIMER TABLE
| B4		4		RESERVED
| B8		4		RESERVED
BC	IJBTPBAL	2		TPBALANCING INFORMATION
BE	IJBTTPID	2		TASK TIMER OWNER
| C0	IJBMFCER	11		REPOSITE INFORMATION MFCM AND MFCU ERP
CB	IJBNERQ	1	S*7	NUMBER OF ERROR QUEUE ENTRIES
CC	IJBPUBLN	2		LENGTH OF PUB TABLE
CE	IJBAPNO	2		NUMBER OF ACTIVE PARTITIONS
D0	IJBSEGT	4		ADDRESS OF SEGMENT TABLE
| D4		4		RESERVED
D8	IJBBOX	4		POINTER TO BOUNDARY BOX
DC	IJBASMCB	4		ADDRESS OF STORAGE MGMT
E0	IJBPDPTB	4		POINTER TO DPD TABLE
E4	IJBODDEV	2		CUU OF SYSTEM'S OP. CON.
E6	IJBNTASK	2		NUMBER OF SUBTASKS SUPPORTED
| E8		4		RESERVED
EC	IJBEOR	4		END OF REAL STORAGE
F0	IJBFTTAB	4		ADDRESS OF THE FETCH TABLE
F4	IJBVA	4		ADDRESS OF THE SVA START
F8	IJBVIS	4		ADDRESS OF SVA GETVIS AREA

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
FC	IJBARPSL	4		ADDRESS OF RPS DIRECTORY LIST
100	IJBARPSR	4		SDDR OF SECTOR CALC ROUTINE
104	IJBDLAB	4		POINTER TO SYSTEM CODE NAME
108	IJBASY	4		ADDRESS OF ASYN OP COM TAB
| 108	IJBASYFL			FLAGBYTE FOR ASYN OP COM
10C	IJBSLACB	4		ADDRESS OF LABEL AREA
110	IJBVIPL	4		ADDRESS OF IPL SUPERVISOR
114	IJBAMVA	4		ADDRESS OF SVA MOD AREA
| 118		4		RESERVED
11C	IJBETSS	4		POINTER TO ETSS VECTOR TABLE
120	IJBSTAB	4		POINTER TO SEC VECTOR TABLE
124	IJBPCSAV	4		SAVE AREA FOR REG IF PC IN SVA
128	IJBSUNIT	4		TABLE OF SYSTEM UNITS
12C	IJBPLCT	4		POINTER LIBRARY CONTROL TABLE
130	SYS\$CODE	13		SYSTEM CODE NAME

CROSS REFERENCE (Name Disp Value)

IJBAF	002E	80	IJBERR19	0008	..	IJBNPART	002C	..	IJBSTAB	0120	..
IJBAMVA	0114	..	IJBETSS	011C	..	IJBNTASK	00E6	..	IJBSEGT	00D0	..
IJBAPNO	00CE	..	IJBEUECB	0068	..	IJBOCDEV	00E4	..	IJBSLACB	010C	..
IJBAPTA	0094	..	IJBFBA	002F	02	IJBFCM	0038	..	IJBSUNIT	0128	..
IJBARBUF	0090	..	IJBFINSC	013D	..	IJBFCFLG	0034	..	IJBVA	00F4	..
IJBARPSL	00FC	..	IJBFLG01	0040	..	IJBOLTEP	006C	..	IJBVIPL	0110	..
IJBARPSR	0100	..	IJBFLG02	0041	..	IJBPBOWN	0078	..	IJBVIS	00F8	..
IJBASMCB	00DC	..	IJBFLG03	0042	..	IJBPCSAV	0124	..	IJBTCVAVT	0060	..
IJBASY	0108	..	IJBFLG04	0043	..	IJBPLCT	012C	..	IJBTHPTR	004C	..
IJBASYFL	0108	..	IJBFLG05	002E	..	IJBPPBEG	0020	..	IJBTK	005A	..
IJBBOX	00D8	..	IJBFLG06	002F	..	IJBPUBLN	00CC	..	IJBTKHLD	004C	..
IJBCCWT	0084	..	IJBFLPTR	0024	..	IJBPUBRS	000C	..	IJBTPBAL	00BC	..
IJBCHANQ	0024	..	IJBFTTAB	00F0	..	IJBPWR	005C	..	IJBTRTAB	0074	..
IJBCKD	002F	04	IJBITDWN	0040	01	IJBQLNG	002A	..	IJBTTAB	00B0	..
IJBCONSP	0034	..	IJBJATAB	007C	..	IJBQSIZE	0028	..	IJBTTPID	00BE	..
IJBDLAB	0104	..	IJBBLIK	0058	..	IJBASLN	0070	..	IJBVSE	002E	40
IJBDDPTA	00E0	..	IJBINSTB	008C	..	IJBRTTAB	0064	..	IJB3800	002F	01
IJBEMODE	002F	80	IJBLLTA	001C	..	IJBRS	0040	40	SYS\$CODE	0130	..
IJBEOR	00EC	..	IJBMCER	00C0	..	IJBRSR	0040	80	TID	005A	..
IJBERBLC	0000	..	IJBNERQ	00CB	..	IJBASVSD	0088	..	TIDBYTE	005B	..

SYSNAMES: SAVED SYSTEMS NAMES

SYSNAMES defines the names of any saved systems that may be loaded by CMS routines. SYSNAMES describes the entries in the SYSNAMES table which is pointed to by the ASYSNAMES field in NUCON. SYSNAMES is invoked via the SYSNAMES macro.

0	CMSVSAM
8	CMSAMS
10	CMSDOS
18	CMSBAM
20	SYSNEND

Size

SIZE IN DOUBLEWORDS (SYSNCNT) 04

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	CMSVSAM	8		VSAM SHARED SYSTEM NAME
8	CMSAMS	8		AMS SHARED SYSTEM NAME
10	CMSDOS	8		DOS SHARED SYSTEM NAME
18	CMSBAM	8		DOSVS/BAM SHARED SEGMENT NAME
20	SYSNEND	8		

CROSS REFERENCE (Name Disp Value)

CMSAMS	0008 ..	CMSDOS	0010 ..	SYSNCNT	0020 04
CMSBAM	0018 ..	CMSVSAM	0000 ..	SYSNEND	0020 ..

TCBADR: TASK CONTROL BLOCK

TCBADR simulates the VSE task control block. TCBADR is invoked via the BGTCB macro.

0		T×1	FATHERID	T×2	T×3
8	TCBTIB			TCBSAVE	
10	TCBINFO			TCBECB	
18	TCBSAV2			TCBITPTR	
20	TCBITSAV			TCBABPTR	
28	TCBABSAV			TCBPCPTR	
30	TCBPCSAV				

Size

SHORT SYSTEM TASK TCB LENGTH IN BYTES (SSTCBLNG) 24

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

3	TCBRID	1	T×1	RID
4	FATHERID	2		TID OF ATTACHING TASK
6	TCBFLAGS	1	T×2	FLAG BYTE

Bits defined in TCBFLAGS

80	SYSRESW			0 WRITE ON SYSRES ALLOWED 1-2 RESERVED
10	ACLOSE			3 VSAM AUTO. CLOSE IN PROCESS
08	VSAMOPEN			4 VSAM ACB'S OPEN IN PARTITION
7	TCBFLAG2	1	T×3	FLAG BYTE
8	TCBTIB	4		TIB POINTER
C	TCBSAVE	4		TASK SAVE AREA ADDRESS
10	INTINFO	4		INTERRUPT INFORMATION
14	AERREXIT	0		ERROR EXITS
14	TCBECB	4		USER TASKS: ADDRESS OF ATTACH ECB
18	TCBSAV2	4		ADDRESS OF SECOND SAVE AREA
1C	TCBITPTR	4		ADDRESS OF EXIT ROUTINE OR TECB
20	TCBITSAV	4		ADDRESS OF EXIT SAVE AREA
24	TCBABPTR	4		ADDRESS OF AB EXIT ROUTINE
28	TCBABSAV	4		ADDRESS OF AB EXIT SAVE AREA

TCBADR

TCBADR

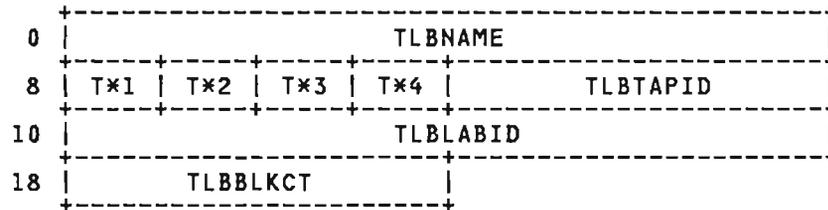
<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
2C	TCBPCPTR	4		ADDRESS OF PC EXIT ROUTINE
30	TCBPCSAV	4		ADDRESS OF PC EXIT SAVE AREA

CROSS REFERENCE (Name Disp Value)

ACLOSE	0006	10	SYSRESW	0006	80	TCBFLAG2	0007	..	TCBRID	0003	..
AERREXIT	0014	..	TCBABPTR	0024	..	TCBITPTR	001C	..	TCBSAVE	000C	..
FATHERID	0004	..	TCBABSAV	0028	..	TCBITSAV	0020	..	TCBSAV2	0018	..
INTINFO	0010	..	TCBECB	0014	..	TCBPCPTR	002C	..	TCBTIB	0008	..
SSTCBLNG	....	24	TCBFLAGS	0006	..	TCBPCSAV	0030	..	VSAMOPEN	0006	08

TLBBLOK: TAPE LABEL PROCESSING INFORMATION

TLBBLOK contains information used by the CMS tape label processing routines. TLBBLOK is invoked via the TLBBLOK macro.



- For nonstandard labels, the following is the format:

**Size**

TLBBLOK SIZE IN DOUBLEWORDS (TLBDWSZ) 04
 TLBBLOK SIZE IN BYTES (TLBSIZE) 20

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	TLBNAME	8		CALLED RTNE NAME - DMSTLB
8	TLBTYPE	1	T*1	TYPE OF CALL
Bits defined in TLBTYPE				
00	TLBOPIN			OPEN INPUT
10	TLBEOV			EOV LABEL CALL
0C	TLBCLOUT			CLOSE OUTPUT
08	TLBCLIN			CLOSE INPUT
04	TLBOPOUT			OPEN OUTPUT
9	TLBCALL	1	T*2	CALLER ID
Bits defined in TLBCALL				
80	TLBOS			OS SIMULATION
40	TLBDOS			DOS SIMULATION
20	TLBCMS			CMS (COMMAND OR MACRO)
10	TLBCMAC			CMS MACRO

TLBBLOK

TLBBLOK

Disp Name Len Key Description

A TLBLABT 1 T*3 LABEL TYPE

Bits defined in TLBLABT

00 TLBNONE NONE SPECIFIED
 20 TLBMSPC CMS MACRO SPACE TO TM OR WTM
 10 TLBNSLMD NSL ROUTINE IS MODULE
 08 TLBNSL NON STANDARD LABELS
 06 TLBSUL STANDARD USER LABELS
 04 TLBUSER USER BIT
 02 TLBSL
 01 TLBBLP NO LABEL PROCESSING

B TLBMODE 1 T*4 TAPE MODESET BYTE

C TLBTAPID 4 TAPEID

10 TLBDTFPT 4 DTF POINTER FOR DOS

10 TLBFCBPT 4 FCB POINTER FOR OS

10 TLBLABID 8 LABSECT NAME (OR ID) FOR CMS

18 TLBBLKCT 4 BLOCK COUNT FOR CMS

MAPPING BELOW IS FOR NSL LABEL ONLY. IT OVERLAYS PART OF SL INTERFACE.

18 TLBNSLNM 8 NSL ROUTINE FILE NAME

CROSS REFERENCE (Name Disp Value)

TLBBLKCT 0018 ..	TLBDTFPT 0010 ..	TLBNAME 0000 ..	TLBOS 0009 80
TLBBLP 000A 01	TLBDWSZ 04	TLBNONE 000A 00	TLBSIZE 20
TLBCALL 0009 ..	TLBEOV 0008 10	TLBNSL 000A 08	TLBSL 000A 02
TLBCLIN 0008 08	TLBFCBPT 0010 ..	TLBNSLMD 000A 10	TLBSUL 000A 06
TLBCLOUT 0008 0C	TLBLABID 0010 ..	TLBNSLNM 0018 ..	TLBTAPID 000C ..
TLBCMAC 0009 10	TLBLABT 000A ..	TLBOPIN 0008 00	TLBTYP 0008 ..
TLBCMS 0009 20	TLBMODE 000B ..	TLBOPOUT 0008 04	TLBUSER 000A 04
TLBDOS 0009 40	TLBMSPC 000A 20		

TOKLIST: CMS-TYPE TOKENIZED LIST

TOKLIST is used as a template to describe a list of eight-byte tokens. TOKLIST is found in PROP copy.

0	TOKEN1
8	TOKEN2
10	TOKEN3
18	TOKEN4
20	TOKEN5
28	TOKEN6
30	TOKEN7
38	TOKEN8

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	TOKEN1	8		FIRST TOKEN
8	TOKEN2	0		SECOND TOKEN
8	TOKEN2F1	4		FIRST FULLWORD
C	TOKEN2F2	4		SECOND FULLWORD
10	TOKEN3	8		THIRD TOKEN
18	TOKEN4	8		FOURTH TOKEN
20	TOKEN5	8		FIFTH TOKEN
28	TOKEN6	8		SIXTH TOKEN
30	TOKEN7	8		SEVENTH TOKEN
38	TOKEN8	8		EIGHTH TOKEN

Bits defined in TOKEN8

08 TLEN LENGTH OF A TOKEN

CROSS REFERENCE (Name Disp Value)

TLEN	0038	08	TOKEN2F1	0008	..	TOKEN4	0018	..	TOKEN7	0030	..
TOKEN1	0000	..	TOKEN2F2	000C	..	TOKEN5	0020	..	TOKEN8	0038	..
TOKEN2	0008	..	TOKEN3	0010	..	TOKEN6	0028	..			

TSOBLKS: TSO CONTROL BLOCKS

TSOBLKS DSECT describes the entries in the TSOBLKS block which contains OS control information used by CMS, that is, the command program parameters list (CPPL), user profile table (UPT), protected step control block (PSCB), and the environment control table (ECT). The ATSOCPPL field in NUCON points to TSOBLKS block. TSOBLOKS is invoked via the TSOBLOKS macro.

0	CPPLOBUF	CPPLUPT
8	CPPLPSCB	CPPLECT
10	////////	UPTUSER
18	UPTUSER (cont.)	T*1 | T*2 | T*3 | ///
20	PSCBUSER	T*4
28	PSCBGPNM	
30	PSCBATR1	PSCBATR2
48	PSCBTCOL	
50	PSCBRLGB	PSCBUPT
58	PSCBUPTL	//////// PSCBRSZ
60	PSCBU	
68	T*5	ECTRTCD | ECTIOWA
70	T*6	ECTSMMSG | ECTPCMD
78	ECTPCMD (cont.)	ECTSCMD
80	ECTSCMD (cont.)	T*7 | ECTDDNUM
88	ECTUSER	////////////////////

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	CPPL	0		TEMPORARY PLIST TO CP PROGRAMS
0	CPPLOBUF	4		ADDRESS OF COMMAND LINE
4	CPPLUPT	4		ADDRESS OF DUMMY UPT
8	CPPLPSCB	4		ADDRESS OF DUMMY PSCB
C	CPPLECT	4		ADDRESS OF DUMMY ECT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
-------------	-------------	------------	------------	--------------------

THE FOLLOWING ARE FACSIMILE TSO CONTROL BLOCKS

10	UPT	4		USER PROFILE TABLE
12	UPTUSER	10		RESERVED FOR INSTALLATION USE
1C	UPTSWS	1	T*1	USER'S ENVIRONMENT SWITCH

Bits defined in UPTSWS

40	UPTNPRM			NO PROMPTING IS TO BE DONE
20	UPTMID			PRINT MESSAGE IDENTIFIERS
10	UPTNCOM			NO USER COMMUNICATION ALLOWED VIA SEND
08	UPTPAUS			PAUSE FOR '?' WHEN IN NON-INTERFACE MODE
04	UPTALD			ATTN HAS BEEN SPECIFIED AS LINE DELETE

1D	UPTCDEL	1	T*2	CHAR DELETE CHARACTER
1E	UPTDEL	1	T*3	LINE DELETE CHARACTER
20	PSCB	4		PROTECTED STEP CONTROL BLOCK
20	PSCBUSER	7		USER ID PADDED WITH BLANKS
27	PSCBUSRL	1	T*4	LENGTH OF USER ID
28	PSCBGNM	8		ESOTERIC GROUP NAME INIT BY LOGON
30	PSCBATR1	1	T*5	15 BIT STRING OF USER ATTRIBUTES

Bits defined in PSCBATR1

80	PSCBCTRL			OPERATOR COMMAND USER
40	PSCBACCT			ACCOUNT COMMAND USER
20	PSCBJCL			SUBMIT COMMAND USER
| 31		1		RESERVED
32	PSCBATR2	1	T*6	15 BIT STRING RESERVED FOR INSTRUCTION USE
| 33		1		RESERVED

THE FOLLOWING 6 FULL WORDS ARE USED IN TSO FOR ACCOUNTING. THEY WILL BE LEFT INITIALLY TO ZERO.

4C	PSCBTCOL	4		
50	PSCBRLGB	4		
54	PSCBUPT	4		POINTER TO THE USER PROFILE TABLE
58	PSCBUPTL	2		LENGTH OF THE UPT
5C	PSCBRSZ	4		REGION SIZE REQUESTED IN 2K UNITS
60	PSCBU	8		RESERVED FOR INSTALLATION USE
68	ECT	4		ENVIRONMENT CONTROL BLOCK
68	ECTRCDF	1	T*5	HIGH ORDER BIT INDICATES CP ABENDED
69	ECTRTCD	3		RETURN CODE FROM LAST CP

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
6C	ECTIOWA	4		ADDRESS OF I/O SERVICE ROUTINE WORK AREA

THIS FIELD MUST BE INITIALIZED BY USER AT START OF HIS PROGRAM.

70	ECTMSGF	1	T*6	HIGH ORDER BIT MEANS DELETE 2ND LEVEL MESSAGES
71	ECTSMSG	3		ADDRESS OF SECOND LEVEL MESSAGE CHAIN
74	ECTPCMD	8		PRIMARY COMMAND NAME
7C	ECTSCMD	8		SUBCOMMAND NAME
84	ECTSWS	1	T*7	ECT SW

Bits defined in ECTSWS

80	ECTNOPD			0 BIT=ON, NO OPERANDS EXIST IN COMMAND
20	ECTATRM			CP TERMINATED BY TMP DETACH W/ STAE
10	ECTLOGF			LOGON/OFF REQUESTED TMP TO LOG OFF
08	ECTNMAL			NO USER MESSAGES RECEIVED AT LOGON
04	ECTNNOT			NO BRDCST NOTICES TO BE RECEIVED
85	ECTDDNUM	3		COUNTER FOR GEN TEMPORARY DDNAMS
88	ECTUSER	4		RESERVED FOR INSTALL

CROSS REFERENCE (Name Disp Value)

CPPL	0000	..	ECTNNOT	0084	04	PSCBATR2	0032	..	PSCBUSRL	0027	..
CPPLECT	000C	..	ECTNOPD	0084	80	PSCBCTRL	0030	80	UPT	0010	..
CPPLOBUF	0000	..	ECTPCMD	0074	..	PSCBGPHM	0028	..	UPTALD	001C	04
CPPLPSCB	0008	..	ECTRCDF	0068	..	PSCBJCL	0030	20	UPTCDEL	001D	..
CPPLUPT	0004	..	ECTRTCD	0069	..	PSCBRLGB	0050	..	UPTDEL	001E	..
ECT	0068	..	ECTSCMD	007C	..	PSCBRSZ	005C	..	UPTMID	001C	20
ECTATRM	0084	20	ECTSMSG	0071	..	PSCBTCOL	004C	..	UPTNCOM	001C	10
ECTDDNUM	0085	..	ECTSWS	0084	..	PSCBU	0060	..	UPTNPRM	001C	40
ECTIOWA	006C	..	ECTUSER	0088	..	PSCBUPT	0054	..	UPTPAUS	001C	08
ECTLOGF	0084	10	PSCB	0020	..	PSCBUPTL	0058	..	UPTSWS	001C	..
ECTMSGF	0070	..	PSCBACCT	0030	40	PSCBUSER	0020	..	UPTUSER	0012	..
ECTNMAL	0084	08	PSCBATRI	0030	..						

USAVE: USER SAVE AREA

USAVE is used by DMSITS to allocate and free save areas for other routines during SVC processing; it is pointed to by the USAVEPTR field in SSAVE. USAVE is invoked via the SVCSAVE macro.



Size

USER SAVE AREA SIZE IN DOUBLEWORDS (USAVESZ) 0C

CROSS REFERENCE (Name Disp Value)

USAVESZ 0C

USERSECT: USER WORK AREA

USERSECT describes the USERSECT block which is a general scratch storage area provided for user-defined purposes. It may be redefined to suit installation requirements. USERSECT is pointed to by the AUSER field in NUCON.



Disp Name Len Key Description

0 USCRTCH 72

CROSS REFERENCE (Name Disp Value)

USCRTCH 0000 ..
 USERSECT 0000 ..

ZDESC: FILE DESCRIPTOR BLOCK

ZDESC is used by System Product Editor modules to describe file characteristics. A ZDESC block is built dynamically when the System Product Editor command or subcommand is executed. ZDESC is invoked via the ZBLOCKS macro.

0	ZDEFWPTR				ZDEBWPTR			
8	ZDELSIPT				ZDEZDEPT			
10	ZDEFNAME							
18	ZDEFTYPE							
20	ZDEFMODE	ZDERECFM	ZDESERCH					
28	ZDESERCH				D×1	D×2	D×3	D×4
30	D×5	D×6	D×7	D×8	D×9	D×10	D×11	D×12
38	D×13	D×14	D×15	D×16	D×17	D×18	D×19	D×20
40	D×21	D×22	D×23	D×24	D×25	D×26	D×27	D×28
48	ZDETABCL							
88	ZDEVERCL							
198	ZDEVERMX				ZDEVERTR			
1A0	ZDEMSKLN							
240	ZDECLTGT				ZDECLTG1			
248	ZDECLTG2				ZDECURLN			
250	ZDECURCL				ZDECSLIN			
258	ZDECSCOL				ZDECSSCX			
260	ZDECSSCY				ZDEZONEL			
268	ZDEZONER				ZDEZONEC			
270	ZDEWIDTH				ZDETOPRG			
278	ZDEENDRG				ZDESERIN			
280	ZDESERST				ZDEDISP1			
288	ZDEDISP2				ZDETRUNC			

290	ZDEFLSIZ	ZDELRECL
298	ZDEATCNT	ZDECGCNT
2A0	ZDEGGTOT	ZDESERCL
2A8	ZDESTYLN	ZDEUPINC
2B0	ZDENSPAN	ZDEPRSPT
2B8	ZDEATSID	
2C0	ZDEPFKPT	
320	ZDEPA1PT	ZDEPA2PT
328	ZDEPA3PT	ZDEENTER
330	ZDEACURL	ZDEACURD
338	ZDETOPPT	ZDEDELPT
340	ZDESIDCD	
348	ZDEUNTFN	
350	ZDEBFTYP	
358	ZDEEFNAM	
360	ZDEEFTYP	
368	ZDEEFMOD	ZDEEDATE
370	ZDECDATE	RESERVED
378	ZDECHOMC	ZDECHOML
380	ZDEORCSL	ZDEORCSC
388	ZDEORCSX	ZDEORCSY
390	ZDECSPRI	ZDEPRFPT
398	ZDEFLPRX	ZDELLPRX
3A0	ZDEFLSCR	ZDELLSCR
3A8	ZDEPRFW1	ZDEPRFW2
3B0	ZDELSTCG	ZDECLNSC
3B8	ZDEFLDCL	ZDEFLDLN

3C0	ZDEMSGPT	ZDEXSTPT		
3C8	ZDEEQBFL			
3D0	ZDEEQBUF			
468	ZDEMSBFL			
470	ZDEMSBUF			
510	ZDELSTLL			
514	ZDELSTLC			
5B0	ZDEQMPTR			
5B8	ZDEQMBUF			
680	ZDEFCURL	ZDEFMASK	ZDEFTABS	ZDEFINPH
688	ZDEFMSG	ZDEFIDLN	ZDEMSGCT	
690	ZDERSVPT	ZDEVIND	ZDEVREND	
698	ZDECLRAR	ZDECLRCM	ZDECLRCU	
6A0	cont.	ZDECLRFI	ZDECLRID	D*30
6A8	continue	ZDECLRPR	ZDECLRPW	
6B0	ZDESCLRSC	ZDECLRSH	ZDECLRST	
6B8	cont.	ZDECLRTA	ZDECLRTO	/////
6C0	ZDECSSBP			
6D0	ZDEPRFCL			

Size

ZDESC LENGTH IN DOUBLEWORDS (ZDELZDED) 0DB
 ZDESC LENGTH IN BYTE (ZDELZDEB) 6D4

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
0	ZDEFWPTR	4		POINTER TO NEXT DESCRIPTOR BLOCK
4	ZDEBWPTR	4		POINTER TO PREVIOUS DESCRIPTOR BLOCK
8	ZDELSIPT	4		POINTER TO LOGICAL SCREEN BLOCK
C	ZDEZDEPT	4		POINTER TO DUPLICATE FILE DESCRIPTOR BLOCK

CHARACTERS VARIABLES

10	ZDEFNAME	8		FILENAME
18	ZDEFTYPE	8		FILETYPE
20	ZDEFMODE	2		FILEMODE
22	ZDERECFM	2		FIXED OR VARIABLE
24	ZDESERCH	8		1 TO 8 CHARS OF SERIALIZATION
2C	ZDESERLG	1	D*1	LENGTH OF SERIALIZATION

SPECIAL CHARACTERS (KEEP IN ORDER)

2D	ZDECIFILL	1	D*2	FILLER FOR TABULATIONS
2E	ZDECTABC	1	D*3	LOGICAL TABULATION CHARACTER
2F	ZDEATSMD	1	D*4	FILEMODE FOR AUTOSAVE FILE
30	ZDECESCA	1	D*5	ESCAPE CHARACTER
31	ZDECASMU	1	D*6	CASE UPPERCASE OR MIXED
32	ZDECASRI	1	D*7	CASE RESPECT OR IGNORE
33	ZDEARBCH	1	D*8	ARBITRARY CHARACTER
34	ZDESPABN	1	D*9	SPAN BLANK/NOBLANK
35	ZDELNEND	1	D*10	LINE END CHARACTER

FILE STATUS BYTE

36	ZDEFLAG1	1	D*11	
----	----------	---	------	--

Bits defined in ZDEFLAG1

80	ZDEFSINP	X.....	FULL SCREEN INPUT MODE
40	ZDEOSDSN	.X.....	OS DATA SET EDITING
20	ZDESHFLG	..X....	TRUE/FALSE (AFTER A SEARCH)
10	ZDESRPNG	...X...	/ S CARD PENDING
08	ZDEFLLLEF	....X..	CHARACTER POINTER TO LEFT
04	ZDEFRLRIG	.....X..	CHARACTER POINTER TO RIGHT
02	ZDEFLEOFX.	LINE POINTER TO END OF FILE
01	ZDEFLOTFX	LINE POINTER TO TOP OF FILE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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OPTIONS BYTES

37	ZDEFLAG2	1	D*12	
----	----------	---	------	--

Bits defined in ZDEFLAG2

80	ZDESYNON	X.....		SET SYNONYM ON
40	ZDETAYON	.X.....		SET STAY ON
20	ZDEWRPON	..X.....		SET WRAP ON
10	ZDEMRGUP	...X....		UPDATE WITH MERGE OPTION
08	ZDENUMON	....X...		SET NUMBER ON
04	ZDEVERON	.....X..		VERIFY ON/OFF
02	ZDECANON	.....X.		IMAGE CANON (SCRIPT)
01	ZDEIMGON	.....X		IMAGE ON/OFF

38	ZDEFLAG3	1	D*13	
----	----------	---	------	--

Bits defined in ZDEFLAG3

80	ZDELNDON	X.....		SET LINEND ON/OFF
40	ZDECMSON	.X.....		SET CPCMS ON/OFF
20	ZDEHEXON	..X.....		SET HEX ON/OFF
10	ZDESIDON	...X....		SID CODE (OPTION SID)
08	ZDECTLON	....X...		MULTI LEVEL UPDATE
04	ZDESQ8ON	.....X..		SEQ8 OR NOSEQ8
02	ZDEUPDON	.....X.		UPDATE MODE
01	ZDEPCKON	.....X		SET PACK ON/OFF

39	ZDEFLAG4	1	D*14	
----	----------	---	------	--

Bits defined in ZDEFLAG4

80	ZDEMCRON	X.....		SET MACRO ON/OFF
40	ZDETFLIN	.X.....		SET TOFLINE EOFLINE ON/OFF
20	ZDESHMSG	..X.....		SET MSGMODE SHORT/LONG
10	ZDEMSGMD	...X....		SET MSGMODE ON/OFF
08	ZDESTMON	....X...		SET STREAM ON/OFF
04	ZDEVRBON	.....X..		SET VARBLANK ON/OFF
02	ZDESPNON	.....X.		SET SPAN ON/OFF
01	ZDEARBON	.....X		SET ARBCHAR ON/OFF

3A	ZDEFLAG5	1	D*15	
----	----------	---	------	--

Bits defined in ZDEFLAG5

80	ZDEESCON	X.....		SET ESCAPE ON/OFF
40	ZDE2INPT	.X.....		TWO INPUT LINES
20	ZDEPRFRG	..X.....		PREFIX SUBCOMMAND RIGHT/LEFT
10	ZDEPRFON	...X....		PREFIX SUBCOMMAND ON/OFF
08	ZDETBSON	....X...		SET TABLINE ON/OFF
04	ZDESCLON	.....X..		SET SCALE ON/OFF
02	ZDECLPON	.....X.		SET COLPTR ON/OFF
01	ZDENULON	.....X		SET NULL ON/OFF

Disp	Name	Len	Key	Description
------	------	-----	-----	-------------

3B	ZDESFLG6	1	D*16	
----	----------	---	------	--

Bits defined in ZDESFLG6

80	ZDEFLCHG	X	.....	FILE HAS BEEN CHANGED
40	ZDEQUITM	.X	.....	QUIT FRPM A MACRO
20	ZDEPRNFL	..X	.....	PREFIX ON NULL
10	ZDESHDON	...X	....	SET SHADOW ON/OFF
08	ZDERDONLY	....X	...	FILE IS READ ONLY
04	ZDESPLWD	.....X	..	SET SPILL ON WORD
02	ZDESPLON	.....X		SET SPILL ON/OFF
01	ZDELINTR	.....X		LINE TRUNCATED BIT

3C	ZDESFLG7	1	D*17	
----	----------	---	------	--

Bits defined in ZDESFLG7

80	ZDEAUTOS	X	.....	SET AUTOSAVE ON/OFF
40	ZDETBLMD	.X	.....	TABLINE DEFINE AS M+/-N
20	ZDESCLMD	..X	.....	SCALE DEFINES AS M+/-N
10	ZDECURMD	...X	....	CURLINE DEFINED AS M+/-N
08	ZDECMDON	....X	...	COMMAND LINE ON
04	ZDESCPDP	.....X	..	SET SCOPE DISPLAY/ALL
02		.....X		RESERVED
01		.....X		RESERVED

3D	ZDESFLG8	1	D*18	RESERVED
----	----------	---	------	----------

3E	ZDEALTLN	1	D*19	ALTERNATE LINEND
----	----------	---	------	------------------

SCREEN STATUS BYTES

3F	ZDESFLG1	1	D*20	READ SUBCOMMAND FLAG
----	----------	---	------	----------------------

Bits defined in ZDESFLG1

80		X	.....	RESERVED
40		.X	.....	RESERVED
20		..X	.....	RESERVED
10	ZDERDTAG	...X	....	READ TAG/NOTAG
08	ZDERDINP	....X	...	READ INPUT AREA ONLY
04	ZDERDNUM	.....X	..	PREFIX LINE CHANGED WITH LINE NUMBER
02	ZDERDNCH	.....X		READ BUT DO NOT CHANGE FILE
01	ZDERDALLX		READ CHANGED LINES ON SCREEN

40	ZDESFLG2	1	D*21	SCREEN STATUS
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Bits defined in ZDESFLG2

80	ZDERFRSH	X	REFRESH THE SCREEN
40	ZDEATSET	.X	AUTOSAVE FILE IS SET UP
20	ZDESCHGD	..X	.....	SOMETHING CHANGED ON SCREEN
10	ZDEINHLD	...X	....	SUBCOMMAND HOLD IN INPUT AREA
08	ZDESBCOM	....X	...	A SUBCOMMAND HAS BEEN EXECUTED
04	ZDEWRMSG	.....X	..	MESSAGE HAS BEEN WRITTEN
02	ZDESCABV	.....X		SCREEN UPPER THE CURRENT LINE CHANGED
01	ZDESCBLWX		SCREEN BELOW THE CURRENT LINE HAS BEEN CHANGED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
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41	ZDESFLG3	1	D*22	SCREEN STATUS
----	----------	---	------	---------------

Bits defined in ZDESFLG3

80	ZDEKYEXC		X.....	EXECUTING ENTER/PF/PA
40	ZDEENTKY		.X.....	ENTER KEY DEPRESSED
20	ZDECSFIL		..X.....	CURSOR ON FILE
10	ZDECSSCR		...X....	CURSOR ON SCREEN
08	ZDECSCMD		....X...	CURSOR ON CMDLINE
04	ZDEPFKEY		.....X..	PF KEY HAS BEEN DEPRESSED
02	ZDETODSP		.....X.	SCREEN TO BE DISPATCHED
01	ZDELCHGD		.....X	LINE MODIFIED ON THE SCREEN

42	ZDESFLG4	1	D*23	SUBCOMMAND STATUS BYTE
----	----------	---	------	------------------------

Bits defined in ZDESFLG4

80			X.....	RESERVED
40			.X.....	RESERVED
20	ZDEPXEXM		..X.....	EXECUTING A PREFIX MACRO
10	ZDEPXEXC		...X....	EXECUTING PREFIX COMMAND
08	ZDEXPNG		....X...	PREFIX PENDING
04			.....X..	RESERVED
02	ZDECSPRF		.....X.	CURSOR SET BY PREFIX
01	ZDEPRFEX		.....X	X PREFIX SUBCOMMAND TO BE EXECUTED

43	ZDESFLG5	1	D*24	SCREEN STATUS
----	----------	---	------	---------------

Bits defined in ZDESFLG5

80			X.....	RESERVED
40			.X.....	RESERVED
20			..X.....	RESERVED
10			...X....	RESERVED
08			....X...	RESERVED
04	ZDECHOMF		.....X..	CURSOR HOME ON THE FILE
02			.....X.	RESERVED
01			.....X	RESERVED

44	ZDESFLG6	1	D*25	RESERVED
----	----------	---	------	----------

45	ZDESFLG7	1	D*26	RESERVED
----	----------	---	------	----------

46	ZDEUFLAG	1	D*27	AVAILABLE FOR USER
----	----------	---	------	--------------------

47	ZDEPFCOD	1	D*28	CODE OF PROGRAM FUNCTION KEY
----	----------	---	------	------------------------------

TABULATIONS

Bits defined in ZDEPFCOD

1C	ZDENBTBC			28 COLUMNS OF TABS
----	----------	--	--	--------------------

48	ZDETABCL	112		TABULATIONS COLUMNS
----	----------	-----	--	---------------------

VERIFY COLUMNS

Bits defined in ZDETABCL

38	ZDENBVRC			56 COLUMNS OF VERIFY
----	----------	--	--	----------------------

ZDESC

ZDESC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
B8	ZDEVERCL	224		VERIFY COLUMNS
	Bits defined in ZDEVERCL			
BC	ZDEVERC2			.....
B8	ZDEVERC1			FIRST PAIR OF COLUMN
198	ZDEVERMX	4		MAXIMUM VERIFY WIDTH
19C	ZDEVERTR	4		VERIFY LEFT/RIGHT TRANSLATION
1A0	ZDEMSKLN	160		MASK FOR INSERTED LINES
	NUMERIC VARIABLES			
240	ZDECLTGT	4		COLUMN INTO WHICH A TARGET HAS BEEN FOUND
244	ZDECLTG1	4		LINE NUMBER WHERE TARGET ENDS
248	ZDECLTG2	4		COLUMN NUMBER WHERE TARGET ENDS
24C	ZDECURLN	4		CURRENT LINE NUMBER
250	ZDECURCL	4		CURRENT COLUMN NUMBER
254	ZDECSLIN	4		LINE OF THE FILE POINTED BY THE CURSOR
258	ZDECSCOL	4		CHARACTER OF A LINE POINTED BY THE CURSOR
25C	ZDECSSCX	4		COORDINATES OF THE CURSOR X=COLUMN
260	ZDECSSCY	4		COORDINATES OF THE CURSOR Y=LINE
264	ZDEZONEL	4		ZONE LEFT
268	ZDEZONER	4		ZONE RIGHT
26C	ZDEZONEC	4		MAXIMUM ZONE FOR CHANGE
270	ZDEWIDTH	4		WIDTH OF RECORDS INTO STORAGE
274	ZDETOPRG	4		TOP OF RANGE
278	ZDEENDRG	4		END OF RANGE
27C	ZDESERIN	4		INCREMENT OF SERIALIZATION
280	ZDESERST	4		START OF SERIALIZATION
284	ZDEDISP1	4		SET DISPLAY N1
288	ZDEDISP2	4		SET DISPLAY N2
28C	ZDETRUNC	4		TRUNCATION COLUMN
290	ZDEFLSIZ	4		NUMBER OF RECORDS OF THE FILE
294	ZDELRECL	4		LRECL OF THE FILE
298	ZDEATCNT	4		AUTOSAVE COUNT
29C	ZDECGCNT	4		NUMBER OF CHANGES SINCE LAST AUTOSAVE
2A0	ZDECGTOT	4		NUMBER OF CHANGE SINCE LAST SAVE

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 2A4	ZDESERCL	4		COLUMN OF SERIALIZATION
| 2A8	ZDESTYLN	4		LINE NUMBER WHERE WE STAY IF 'NOT FOUND'
| 2AC	ZDEUPINC	4		MINIMUM INCREMENT FOR UPDATE SEQUENCE NUMBER
| 2B0	ZDENSPAN	4		NUMBER OF LINES SEARCHED WITH SPAN ON
| 2B4	ZDEPRSPT	4		PRESERVE/RESTORE CHAIN ANCHOR
| 2B8	ZDEATSID	8		AUTO SAVE FILENAME
| 2C0	ZDEPFKPT	96		USER DEFINED PFKEYS
| 320	ZDEPA1PT	4		PA1 DEFINITION
| 324	ZDEPA2PT	4		PA2 DEFINITION
| 328	ZDEPA3PT	4		PA3 DEFINITION
| 32C	ZDEENTER	4		ENTER KEY DEFINITION
	Bits defined in ZDEENTER			
	00	PFKFLAG1		PFKEY FLAG1
	80			RESERVED
	40			RESERVED
	20	PFKRELSE		KEY SHOULD BE RELEASED
	10	PFKINEXC		PF KEY IN EXECUTION
	08	PFKYONLY		EXECUTE PFK ONLY
	04	PFKIGNOR		IGNORE IF CMDLINE TYPED
	02			RESERVED
	01	PFKAFTER		AFTER/BEFORE CMDLINE
	01	PFKFLAG2		RESERVED
	02	PFKFLAG3		RESERVED
	03	PFKDEFLG		PFKEY DEFINITION LENGTH
	04	PFKLDATA		BEGINING OF DEFINITION
	POINTER ON THE FILE LINES IN STORAGE			
| 330	ZDEACURL	4		ADDRESS OF THE CURRENT LINE
| 334	ZDEACURD	4		ADDRESS OF THE DESCRIPTOR OF THE CURRENT LINE
| 338	ZDETOPPT	4		ADDRESS OF THE TOP OF FILE
	POINTER ON THE DELETED LINES WHILE IN UPDATE MODE			
| 33C	ZDEDELPT	4		ADDRESS OF DELETED LINES
| 340	ZDESIDCD	8		SID CODE
| 348	ZDEUNTFN	8		UNTIL FNAME OPTION
| 350	ZDEBFTYP	8		BASE FILETYPE (FOR UPDATE MODE)
	ORIGINAL FN FT FM AMD DATE/TIME FOR PSAVE/PFILE			
| 358	ZDEEFNAM	8		ORIGINAL FILENAME
| 360	ZDEEFTYP	8		ORIGINAL FILETYPE
| 368	ZDEEFMOD	2		ORIGINAL FILEMODE

ZDESC

ZDESC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 36A	ZDEEDATE	6		FILE DATE YY MM DD HH MM SS
| 370	ZDECDATE	6		CURRENT FILE DATE
| 376		2		RESERVED
|	SCREEN HANDLING AND PREFIX SUBCOMMAND WORK AREA			
| 378	ZDECHOML	4		HOME COORDINATES OF THE CURSOR
| 37C	ZDECHOMC	4		HOML = LINE AND HOMC = COLUMN ORIGINAL CURSOR POSITION:
| 380	ZDEORSCL	4		IN THE FILE: LINE
| 384	ZDEORCSC	4		IN THE FILE: COLUMN
| 388	ZDEORCSX	4		ON THE SCREEN : X=COLUMN
| 38C	ZDEORCSY	4		ON THE SCREEN : Y=LINE
| 390	ZDECSPRI	4		CURSOR PRIORITY
| 394	ZDEPRFPT	4		POINTER ON PREFIX LIST
| 398	ZDEFLPRX	4		FIRST LINE HOLDING A PREFIX SUBCOMMAND
| 39C	ZDELLPRX	4		LAST LINE HOLDING A PREFIX SUBCOMMAND
| 3A0	ZDEFLSCR	4		FIRST LINE NUMBER ON SCREEN
| 3A4	ZDELLSCR	4		LAST LINE NUMBER ON SCREEN
| 3A8	ZDEPRFW1	4		WORK AREA
| 3AC	ZDEPRFW2	4		WORK AREA
| 3B0	ZDELSTCG	4		NUMBER OF LAST LINE CHANGED ON LOGICAL SCREEN
| 3B4	ZDECLNSC	4		CURRENT LINE NUMBER ON THE SCREEN
| 3B8	ZDEFLDCL	4		CURRENT FIELD COLUMN NUMBER
| 3BC	ZDEFLDLN	4		CURRENT FIELD LINE NUMBER
| 3C0	ZDEMSGPT	4		MESSAGE LINE POINTER
| 3C4	ZDEXSTPT	4		RESERVED
|	= BUFFER			
| 3C8	ZDEEQBFL	4		LENGTH OF = STRING
| 3CC	ZDEEQBUF	160		BUFFER USED BY = SUBCOMMAND
|	MESSAGE BUFFER			
| 46C	ZDEMSBFL	4		MESSAGE LENGTH
| 470	ZDEMSBUF	160		MESSAGE BUFFER
|	LAST LOCATE OR CHANGE			
| 510	ZDELSTLL	4		MESSAGE LENGTH

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
514	ZDELSTLC	160		BUFFER
	INPUT RING BUFFER			
5B4	ZDEQMPTR	4		QUESTION MARK POINTER
5B8	ZDEQMBUF	200		BUFFER TO HOLD INPUTS FROM THE TERMINAL
	LOGICAL SCREEN INFORMATION KEPT SEPARATE PER FILE			
680	ZDEFCURL	2		CURRENT LINE NUMBER ON LOGICAL SCREEN
682	ZDEFMASK	2		SCALE LINE NUMBER ON LOGICAL SCREEN
684	ZDEFTABS	2		TABS LINE NUMBER ON LOGICAL SCREEN
686	ZDEFINPU	2		CMDLINE LINE NUMBER ON LOGICAL SCREEN
688	ZDEFMSG	2		MESSAGE LINE NO ON LOGICAL SCREEN
68A	ZDEFIDLN	2		ID LINE NO ON LOGICAL SCREEN
68C	ZDEMSGCT	4		MESSAGE COUNT ON SCREEN
690	ZDERSVPT	4		POINTER ON RESERVED LINES
	Bits defined in ZDERSVPT			
00	RSVFWPTR			POINTER ON NEXT RESERVED LINE
04	RSVFLAG1			STATUS FLAG1
80			X.....	RESERVED
40			.X.....	RESERVED
20	RSVSTDLN		..X.....	STANDARD LINE
10	RSVCMDLN		...X....	COMMAND LINE
08	RSVTABL		....X..	TAB LINE
04	RSVSCALN		.....X..	SCALE LINE
02	RSVMISGLN		.....X.	MSG LINE
01	RSVIDLIN		.....X	ID LINE
05	RSVFLAG2			STATUS FLAG2
10	RSVMISGOF		...X....	MESSAGE LINE OFF
08	RSVSCRMD		....X..	LINE # RELATIVE TO SCR-N
04	RSVSCRNB		.....X..	LINE # RELATIVE TO MIDDLE
02	RSVEXTLN		.....X.	RSRVD LINE EXT. ON NEXT
01	RSVLHIGH		.....X	HIGH INTENSITY
06	RSVFLAG3			LINE COLOR
07	RSVFLAG4			EXTENDED HIGHLIGHTING
08	RSVLINEN			LINE NUMBER ON LOG. SCREEN
0A	RSVDEFLG			ENTRY LENGTH
0C	RSVLINLG			LINE LENGTH
0E	RSVLDATA			BEGINNING OF RESERVED LINE
0E	ZDERSVLG			HEADER LENGTH
694	ZDEVREIND	2		INDEX TO VERIFY PAIR WITH CURSOR
696	ZDEVREND	2		INDEX TO LAST VERIFY PAIR DEFINED
	COLOR INFORMATION			
698	ZDECLRAR	3		ARROW COLOR AND EXT. HILITE
69B	ZDECLRCM	3		CMDLINE COLOR AND EXT. HILITE

ZDESC

ZDESC

Disp	Name	Len	Key	Description
| 69E	ZDECLRCU	3		CURLINE COLOR AND EXT. HILITE
| 6A1	ZDECLRFI	3		FILEAREA COLOR AND EXT. HILITE
| 6A4	ZDECLRID	3		IDLINE COLOR AND EXT. HILITE
| 6A7	ZDECLRMS	3	D*30	MSGLINE COLOR AND EXT. HILITE
| 6AA	ZDECLRPR	3		PREFIX COLOR AND EXT. HILITE
| 6AD	ZDECLRPW	3		PREFIXW COLOR AND EXT. HILITE
| 6B0	ZDECLRSC	3		SCALE COLOR AND EXT. HILITE
| 6B3	ZDECLRSH	3		SHADOW COLOR AND EXT. HILITE
| 6B6	ZDECLRST	3	D*31	STATAREA COLOR AND EXT. HILITE
| 6B9	ZDECLRTA	3		TABLINE COLOR AND EXT. HILITE
| 6BC	ZDECLRTO	3		TOFE0F COLOR AND EXT. HILITE
| 6C0	ZDECSSBP	16		CURSOR POSITION SET BY PREFIX
| 6D0	ZDEPRFCL	4		POINER ON PREFIX TO BE CLEARED

CROSS REFERENCE (Name Disp Value)

PFKAFTER 032C 01	ZDEARBCH 0033 ..	ZDECLRTA 06B9 ..	ZDEEQBUF 03CC ..
PFKDEFLG 032C 03	ZDEARBON 0039 01	ZDECLRTO 06BC ..	ZDEESCON 003A 80
PFKFLAG1 032C 00	ZDEATCNT 0298 ..	ZDECLTGT 0240 ..	ZDEFECURL 0680 ..
PFKFLAG2 032C 01	ZDEATSET 0040 40	ZDECLTG1 0244 ..	ZDEFIDLN 068A ..
PFKFLAG3 032C 02	ZDEATSID 02B8 ..	ZDECLTG2 0248 ..	ZDEFINPU 0686 ..
PFKIGNOR 032C 04	ZDEATSMD 002F ..	ZDECMDON 003C 08	ZDEFLAG1 0036 ..
PFKINEXC 032C 10	ZDEAUTOS 003C 80	ZDECMSON 0038 40	ZDEFLAG2 0037 ..
PFKLDATA 032C 04	ZDEBFTYP 0350 ..	ZDECSCMD 0041 08	ZDEFLAG3 0038 ..
PFKYONLY 032C 08	ZDEBWPTR 0004 ..	ZDECSCOL 0258 ..	ZDEFLAG4 0039 ..
PFKRELSE 032C 20	ZDECANON 0037 02	ZDECSFIL 0041 20	ZDEFLAG5 003A ..
RSVCMIDLN 0690 10	ZDECASMU 0031 ..	ZDECSLIN 0254 ..	ZDEFLAG6 003B ..
RSVDEFLG 0690 0A	ZDECASRI 0032 ..	ZDECSPRF 0042 02	ZDEFLAG7 003C ..
RSVEXTLN 0690 02	ZDECESCA 0030 ..	ZDECSPRI 0390 ..	ZDEFLAG8 003D ..
RSVFLAG1 0690 04	ZDECDATE 0370 ..	ZDECSSBP 06C0 ..	ZDEFLCHG 003B 80
RSVFLAG2 0690 05	ZDECDFILL 002D ..	ZDECSSCR 0041 10	ZDEFDCL 03B8 ..
RSVFLAG3 0690 06	ZDECDCNT 029C ..	ZDECSSCX 025C ..	ZDEFDLN 03BC ..
RSVFLAG4 0690 07	ZDECGTOT 02A0 ..	ZDECSSCY 0260 ..	ZDEFLEOF 0036 02
RSVFWPTR 0690 00	ZDECHOMC 037C ..	ZDECTABC 002E ..	ZDEFLLF 0036 08
RSVIDLIN 0690 01	ZDECHOMF 0043 04	ZDECTLON 0038 08	ZDEFLPRX 0398 ..
RSVLDATA 0690 0E	ZDECHOML 0378 ..	ZDECURCL 0250 ..	ZDEFRLRIG 0036 04
RSVLHIGH 0690 01	ZDECLNSC 03B4 ..	ZDECURLN 024C ..	ZDEFSCR 03A0 ..
RSVLINEN 0690 08	ZDECLPON 003A 02	ZDECURMD 003C 10	ZDEFSLIZ 0290 ..
RSVLINLG 0690 0C	ZDECLRAR 0698 ..	ZDEDELPT 033C ..	ZDEFLTOF 0036 01
RSVMMSGLN 0690 02	ZDECLRCM 069B ..	ZDEDISP1 0284 ..	ZDEFMASK 0682 ..
RSVMMSGOF 0690 10	ZDECLRCU 069E ..	ZDEDISP2 0288 ..	ZDEFMODE 0020 ..
RSVSCALN 0690 04	ZDECLRFI 06A1 ..	ZDEEDATE 036A ..	ZDEFMSG 0683 ..
RSVSCRMD 0690 08	ZDECLRID 06A4 ..	ZDEEFMOD 0368 ..	ZDEFNAME 0010 ..
RSVSCRNB 0690 04	ZDECLRMS 06A7 ..	ZDEEFNAM 0358 ..	ZDEFSINP 0036 80
RSVSTDLN 0690 20	ZDECLRPR 06AA ..	ZDEEFTYP 0360 ..	ZDEFTABS 0684 ..
RSVTABLN 0690 08	ZDECLRPW 06AD ..	ZDEENDRG 0278 ..	ZDEFTYPE 0018 ..
ZDEACURD 0334 ..	ZDECLRSC 06B0 ..	ZDEENTER 032C ..	ZDEFWPTN 0000 ..
ZDEACURL 0330 ..	ZDECLRSH 06B3 ..	ZDEENTKY 0041 40	ZDEHEXON 0038 20
ZDEALTLN 003E ..	ZDECLRST 06B6 ..	ZDEEQBFL 03C8 ..	ZDEIMGON 0037 01

ZDESC

ZDESC

ZDEINHLD	0040	10	ZDEPA1PT	0320	..	ZDESBCOM	0040	08	ZDESYNON	0037	80
ZDEKYEXC	0041	80	ZDEPA2PT	0324	..	ZDESCABV	0040	02	ZDETABCL	0048	..
ZDELCHGD	0041	01	ZDEPA3PT	0328	..	ZDESCBLW	0040	01	ZDETAYON	0037	40
ZDELINTR	003B	01	ZDEPCKON	0038	01	ZDESCHGD	0040	20	ZDETBMD	003C	40
ZDELLPRX	039C	..	ZDEPFCOD	0047	..	ZDESCLON	003A	04	ZDETBSON	003A	08
ZDELLSCR	03A4	..	ZDEPFKEY	0041	04	ZDESCLMD	003C	20	ZDETFIN	0039	40
ZDELNDON	0038	80	ZDEPFKPT	02C0	..	ZDESCPDP	003C	04	ZDETDOSP	0041	02
ZDELNEND	0035	..	ZDEPRFCL	06D0	..	ZDESERCH	0024	..	ZDETOPPT	0338	..
ZDELRECL	0294	..	ZDEPRFEX	0042	01	ZDESERIN	027C	..	ZDETOPRG	0274	..
ZDELSCPT	0008	..	ZDEPRFNL	003B	20	ZDESERCL	02A4	..	ZDETRUNC	028C	..
ZDELSTCG	03B0	..	ZDEPRFPT	0394	..	ZDESERLG	002C	..	ZDEUFLAG	0046	..
ZDELSTLC	0514	..	ZDEPRFON	003A	10	ZDESERST	0280	..	ZDEUNTFN	0348	..
ZDELSTLL	0510	..	ZDEPRFRG	003A	20	ZDESERL1	003F	..	ZDEUPDON	0038	02
ZDELZDEB	....	6D4	ZDEPRFW1	03A8	..	ZDESFLG2	0040	..	ZDEUPINC	02AC	..
ZDELZDED	....	DB	ZDEPRFW2	03AC	..	ZDESFLG3	0041	..	ZDEVERCL	00B8	..
ZDEMCRON	0039	80	ZDEPRSPT	02B4	..	ZDESFLG4	0042	..	ZDEVERC1	00B8	B8
ZDEMRGUP	0037	10	ZDEPXEXC	0042	10	ZDESFLG5	0043	..	ZDEVERC2	00B8	BC
ZDEMSBFL	046C	..	ZDEPXEXM	0042	20	ZDESFLG6	0044	..	ZDEVERMX	0198	..
ZDEMSBUF	0470	..	ZDEXPNG	0042	08	ZDESFLG7	0045	..	ZDEVERON	0037	04
ZDEMSGCT	068C	..	ZDEQMBUF	05B8	..	ZDESHDON	003B	10	ZDEVERTR	019C	..
ZDEMSGMD	0039	10	ZDEQMPTR	05B4	..	ZDESHFLG	0036	20	ZDEVRBON	0039	04
ZDEMSGPT	03C0	..	ZDEQUITM	003B	40	ZDESHMSG	0039	20	ZDEVREND	0696	..
ZDEMSKLN	01A0	..	ZDERDALL	003F	01	ZDESIDCD	0340	..	ZDEVREND	0696	..
ZDENBTBC	0047	1C	ZDERDINP	003F	08	ZDESIDON	0038	10	ZDEWIDTH	0270	..
ZDENBVRC	0048	38	ZDERDNCH	003F	02	ZDESPABN	0034	..	ZDEWRMSG	0040	04
ZDENSPAN	02B0	..	ZDERDNLY	003B	08	ZDESPLON	003B	02	ZDEWRPON	0037	20
ZDENULON	003A	01	ZDERDNUM	003F	04	ZDESPLWD	003B	04	ZDEXSTPT	03C4	..
ZDENUMON	0037	08	ZDERDTAG	003F	10	ZDESPNON	0039	02	ZDEZDEPT	000C	..
ZDEORCSC	0384	..	ZDERECFM	0022	..	ZDESQ8ON	0038	04	ZDEZONEC	026C	..
ZDEORCSL	0380	..	ZDERFRSH	0040	80	ZDESRPNG	0036	10	ZDEZONEL	0264	..
ZDEORCSX	0388	..	ZDERSVLG	0690	0E	ZDESTMON	0039	08	ZDEZONER	0268	..
ZDEORCSY	038C	..	ZDERSVPT	0690	..	ZDESTYLN	02A8	..	ZDE2INPT	003A	40
ZDEOSDSN	0036	40									

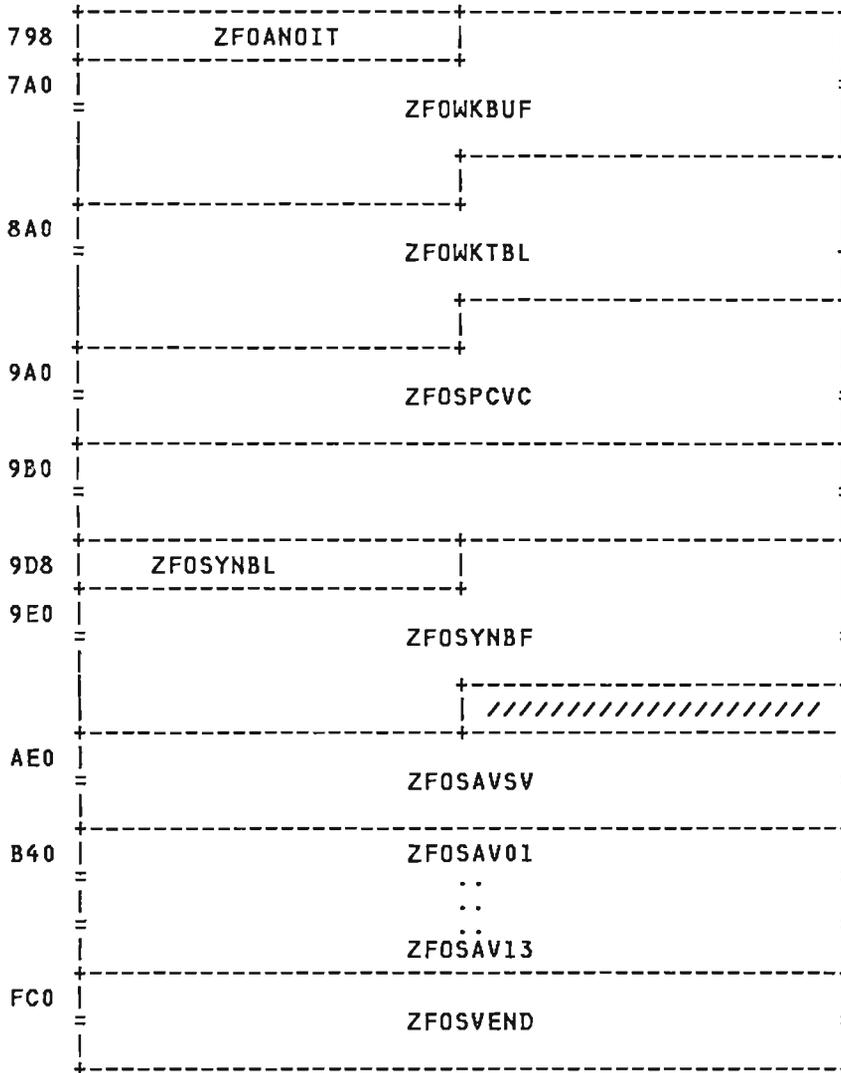
ZFONC: SYSTEM PRODUCT EDITOR WORK AREA

ZFONC is built by DMSXBG only once in an editing session and is used by System Product Editor modules as a common workarea. ZFONC is invoked via the ZBLOCKS macro.

0	ZFOOPNB1	ZFOOPNB2
8	ZFOOPNB3	ZFOOPNB4
10	ZFOOPNB5	ZFOOPNB6
18	ZFOOPNB7	ZFOPONB8
20	ZFOLRBUF	
	ZFORDBUF	
120		ZFOLGOP1
128	ZFOOPST1	
	
	
5A0	ZFOLGOP8	
5A8		ZFOOPST8
640		F*1 | F*2 | F*3 | F*4
648	F*5 | F*6 | F*7 | F*8 | F*9 | F*10 | F*11 | F*12	
650	F*13 | F*14 | F*15 | F*16 | F*17 | F*18 | F*19 | F*20	
658	ZFOXSTPT	ZFOCSRFL
660	ZFOCURFL	ZFORTCOD
668		ZFOSUBCM
670	ZFOSYNPT	ZFOZMAPT

XEDIT - WORKAREA

678	ZFORECPT		ZFORETMC
680	ZFOSHVPT		ZFOBUFPT
688	ZFOLOCPT		RESERVED
690	ZFOBLKCR		ZFOFREPT
698	ZFOBLKPT		ZFOPRFPT
6A0	ZFOUFLDS		ZFONFILE
6A8	ZFOATSID	ZFOATERM	ZFOCSRAD
6B0	RESERVED		ZFOBUFIM
6B8	ZFOBUFIO		ZFOMSGCT
6C0	= // =		
710	ZFOORSBC		
718	ZFOTBSPT		ZFOTBSLG
720	ZFOLSCPT	ZFONROWS	ZFONCOLS
728	ZFOSINDX		ZFOLGSCB
730	ZFOIOTBL		ZFOIOCMP
738	ZFOTRDUP		ZFOTRDLW
740	= ZFOCSSTK +-----		
748			ZFOCSRZ
750	ZFONSPAR	//	
758	ZFOLSTSV		ZFOXSUFL
760	ZFOXER		ZFOCURSV
768	ZFOPLIST		
770	ZFOFNAME		
778	ZFOFTYPE		
780	ZFOFMODE	ZFOITNO	ZFOABUFF
788	ZFOLBUFF	F*21	F*22 | ZFONOIT
790	ZFONBRD		ZFOAITNO



Size

ZFONC LENGTH IN DOUBLEWORDS (ZFOLZFOD) 0210
 ZFONC LENGTH IN BYTES (ZFOLZFOB) 1080

Disp	Name	Len	Key	Description
0	ZFOOPNB1	4		OPERAND 1
4	ZFOOPNB2	4		OPERAND 2
8	ZFOOPNB3	4		OPERAND 3
C	ZFOOPNB4	4		OPERAND 4
10	ZFOOPNB5	4		OPERAND 5

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 14	ZFOOPNB6	4		OPERAND 6
| 18	ZFOOPNB7	4		OPERAND 7
| 1C	ZFOOPNB8	4		OPERAND 8
SUBCOMMAND INPUT/OUTPUT BUFFER				
| 20	ZFOLRBUF	4		LENGTH OF INPUTTED LINE
| 24	ZFORDBUF	256		INPUT OUTPUT BUFFER SUBCOMMAND BUFFER
CHARACTER STRINGS OPERAND				
	A0 MAXBUFLG			MAXIMUM BUFFER LENGTH
| 124	ZFOLGOP1	4		STRING LENGTH
| 1C8	ZFOLGOP2	4		STRING LENGTH
| 26C	ZFOLGOP3	4		STRING LENGTH
| 310	ZFOLGOP4	4		STRING LENGTH
| 3B4	ZFOLGOP5	4		STRING LENGTH
| 458	ZFOLGOP6	4		STRING LENGTH
| 4FC	ZFOLGOP7	4		STRING LENGTH
| 5A0	ZFOLGOP8	4		STRING LENGTH
OPERAND FLAGS				
| 128	ZFOOPST1	160		OPERAND 1
| 1CC	ZFOOPST2	160		OPERAND 2
| 270	ZFOOPST3	160		OPERAND 3
| 314	ZFOOPST4	160		OPERAND 4
| 3B8	ZFOOPST5	160		OPERAND 5
| 45C	ZFOOPST6	160		OPERAND 6
| 500	ZFOOPST7	160		OPERAND 7
| 5A4	ZFOOPST8	160		OPERAND 8
| 644	ZF00PFL1	1	F*1	OPERAND 1
| 645	ZF00PFL2	1	F*2	OPERAND 2
| 646	ZF00PFL3	1	F*3	OPERAND 3
| 647	ZF00PFL4	1	F*4	OPERAND 4
| 648	ZF00PFL5	1	F*5	OPERAND 5
649	ZF00PFL6	1	F*6	OPERAND 6
64A	ZF00PFL7	1	F*7	OPERAND 7

ZFONC

ZFONC

Disp	Name	Len	Key	Description
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64B	ZFOOPFL8	1	F*8	OPERAND 8
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Bits defined in ZFOOPFL8

20	ZFOOPTGT	..X.....		OPERAND IS A TARGET
10	ZFOOPAST	...X....		OPERAND SPECIFIED AS *
08	ZFOOPNEG	....X...		OPERAND IS A STRING WITH ~
04	ZFOOPABS	.....X..		OPERAND WAS NOT SPECIFIED
02	ZFOOPNUM	.....X.		OPERAND IS A NUMBER
01	ZFOOPSTRX		OPERAND IS A STRING

XEDIT STATUS BYTES

64C	ZFOFLAG1	1	F*9	TERMINAL MANAGEMENT BYTE
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Bits defined in ZFOFLAG1

80	ZFORDSVR	X.....		READ A SUBCOMMAND IN ANY LOG SCR
40	ZFOMCRNG	.X.....		MACRO RUNNING
20	ZFOTWRMD	..X.....		TERMINAL 3270 USED IN 3215
10	ZFORMTUB	...X....		REMOTE DISPLAY
08	ZFOC3278	....X...		TERMINAL 3278
04	ZFOC3270	.....X..		TERMINAL 3270
02	ZFOC3215X.		TERMINAL 3215
01	ZFOC2741X		TERMINAL 2741

64D	ZFOFLAG2	1	F*10	STATUS BYTE
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Bits defined in ZFOFLAG2

80	ZFOALARM	X.....		ALARM SET IN FULL-SCREEN MODE
40	ZFORFRSH	.X.....		REFRESH THE SCREEN
20	ZFOSCRDD	..X.....		SCREAD SUBCOMMAND
10	ZFOCLRLG	...X....		LOGICAL SCREEN CLEAR
08	ZFOCLRSC	....X...		SCREEN NEEDS TO BE ERASED
04	ZFOSUSED	.....X..		SCREEN HAS BEEN USED
02	ZFOSCBLD	.....X.		BUILDING THE REAL SCREEN
01	ZFOTABS1X		XEDFNCSF COMPUTE TABS IN COLUMN 1

64E	ZFOFLAG3	1	F*11	STATUS BYTE
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Bits defined in ZFOFLAG3

80	ZFOPRFER	X.....		ERROR DURING PROFILE
40		.X.....		RESERVED
20	ZFOMOVUP	..X.....		MOVE LINE POINTER TO TOP OF FILE
10	ZFOPROFL	...X....		EXECUTING PROFILE MACRO
08	ZFOPRVTB	....X...		PRIVATE SUBCOMMAND TABLE
04		.....X..		RESERVED
02	ZFOTXTON	.....X.		TEXT ON
01	ZFOAPLON	.....X		APL ON

64F	ZFOFLAG4	1	F*12	STATUS BYTE
-----	----------	---	------	-------------

Bits defined in ZFOFLAG4

80		X.....		RESERVED
40		.X.....		RESERVED
20	ZFOFULRD	..X.....		SET FULLWORD ON/OFF
10	ZFCOLCMD	...X....		COLUMN COMMAND FLAG
08	ZFOSBCMD	....X...		SUBCOMMAND RECEIVED VIA SUBCOM
04	ZFORDSTK	.....X..		LINE READ FROM PROGRAM STACK
02	ZFOIMPCM	.....X.		IMPLIED CP/CMS COMMAND
01	ZFONDISP	.....X		SET NONDISP HAS BEEN ISSUED

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 650	ZFOFLAG5	1	F*13	STATUS BYTE
	Bits defined in ZFOFLAG5			
|	80			ZFOPSET X..... PROGRAMMABLE SYMBOLS
|	40			ZFOKEYXC .X..... EXECUTING ENTER/PF/PA
|	20			ZFOQUITM ..X..... QUIT IN PROGRESS
|	10			ZFONOSYN ...X.... NO SYNONYM PROCESSING
|	08			ZFO14BIT ....X... 14 BITS ADDRESSING
|	04			ZFOCOLOR .....X.. 3279 WITH 7 COLORS
|	02			ZFOEXTHI .....X. TERMINAL WITH HILITE
|	01			ZFOTRSET .....X USER TRANSLATE TABLES
| 651	ZFOFLAG6	1	F*14	RESERVED
	Bits defined in ZFOFLAG6			
|	80			X..... RESERVED
|	40			.X..... RESERVED
|	20			..X..... RESERVED
|	10			...X.... RESERVED
|	08			....X... RESERVED
|	04			.....X.. SCREEN DEFINE ISSUED
|	02			.....X. SCREEN WIDTH ISSUED
|	01			.....X SCREEN SIZE ISSUED
| 652	ZFOFLAG7	1	F*15	RESERVED
| 653	ZFOORSBN	1	F*16	ORIGINAL SUBCOMMAND NAME LENGTH
| 654	ZFOUFLAG	1	F*17	FLAG AVAILABLE FOR USER
| 655	ZFOFKCOD	1	F*18	CONTROL CODE FOR COMPOUND CHARACTERS
| 656	ZFOERCOD	1	F*19	WRITE ERASE OR WRITE ERASE ALTERNATE
| 657	ZFOKYCOD	1	F*20	TABULATION PFKEY CODE (TABKEY)
	POINTER TO DISPATCH FILE IN SEVERAL LOGICAL SCREENS			
| 658	ZFOXSTPT	4		RESERVED
| 65C	ZFOCSRFL	4		FILE THAT OWNS THE PHYSICAL CURSOR
| 660	ZFOCURFL	4		CURRENT FILE EDITED
	INFORMATION SUBCOMMAND AND MACRO-SUBCOMMAND			
| 664	ZFORTCOD	4		SUBCOMMAND RETURN CODE
	Bits defined in ZFORTCOD			
|	667			ZFORTBYT LAST BYTE OF RETURN CODE
| 668	ZFOSUBCM	8		NAME OF THE LAST SUBCOMMAND EXECUTED
| 670	ZFOSYNPT	4		ADDRESS OF SYNONYM SUBCOMMAND TABLE
| 674	ZFOZMAPT	4		ADDRESS OF FIRST MACRO-SUBCOMMAND IN STORAGE
| 678	ZFORECPT	4		POINTER TO CURRENT MACRO-RECURSION AREA
| 67C	ZFORETMC	4		RETURN ADDRESS TO PREVIOUS MACRO

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
680	ZFOSHVPT	4		POINTER TO FIRST SHVBLOCK FOR EXECCOMM
684	ZFOBOFPT	4		POINTER TO EXTRACT BUFFER
688	ZFOLOCPT	4		POINTER TO CURRENT LOCATION IN EXTRACT BUFFER
68C		4		RESERVED

LINE DESCRIPTOR

80	ZFOLNDSP	X.....	LINE TO BE REDISPLAYED ON SCREEN
40	ZFOPRFIN	.X.....	LINE INSERTED BY PREFIX SUBCOMMAND
20	ZFOLNEXT	..X.....	LINE SHOULD BE EXTENDED
10	ZFOLNCSR	...X....	SET CURSOR ON THIS LINE
08	ZFOLNCUR	....X...	CURRENT LINE AFTER PRF EXEC
04	ZFOLNDEL	.....X..	LINE FOLLOWED BY DELETED LINE(S)
02	ZFOLNCHG	.....X.	CHANGED LINE
01	ZFOLNNEW	.....X	INSERTED LINE
1C	ZFOLDSCR		LINE DESCRIPTOR LENGTH
18	ZFOLSEL		SELECTION LEVEL
14	ZFOLPNDG		POINTER ON PREFIX INFORMATION
10	ZFOLNAME		ADDRESS OF LINE NAME (.XXXXX)
0F			RESERVED
0E	ZFOLSPRI		CURSOR PRIORITY LEVEL
0D	ZFOLFLG1		LINE STATUS
0C	ZFOLFLG		LINE STATUS
08	ZFOLADDR		LINE ADDRESS
04	ZFOLBWPT		BACKWARD POINTER
00	ZFOLFWPT		FORWARD POINTER

PREFIX AREA DESCRIPTION

28	ZFOPRFXR		REAL NAME AFTER SYNONYM RESOLUTION
06	ZFOPRFXL		LENGTH IN DOUBLEWORDS
20	ZFOPRFXN		PREFIX NAME
1F	ZFOPXFL1		PREFIX FLAG
04	ZFOPXAMP	....X..	START BY &
02	ZFOPXPNG	.....X..	CREATED BY SET PENDING
01	ZFOPXUSD	.....X.	ENTRY IN USE
1E	ZFOPXFLG		PREFIX FLAG
80	ZFOPXOP3	X.....	OP3 SPECIFIED
40	ZFOPXOP2	.X.....	OP2 SPECIFIED
20	ZFOPXOP1	..X.....	OP1 SPECIFIED
10	ZFOPXINV	...X....	INV OP FOR BUILT IN COMMAND
08	ZFOPXCMD	....X...	PREFIX BUILD IN
04	ZFOPXMAC	.....X..	PREFIX MACRO
02	ZFOPXSHD	.....X.	PREFIX ON SHADOW LINE
01	ZFOPXBLK	.....X	BLOCK PREFIX COMMAND
1D	ZFOPRFNL		PREFIX COMMAND NAME LENGTH
18	ZFOPRFXA		PREFIX COMMAND AS TYPED
14	ZFOPRFX3		OPERAND3
10	ZFOPRFX2		OPERAND2
0C	ZFOPRFX1		OPERAND1
08	ZFOPRFLP		POINTER TO THE LINE DESCRIPTION
04	ZFOPRFBW		BACKWARD POINTER
00	ZFOPRFFW		FORWARD POINTER

STORAGE MANAGEMENT (SEE DMSXST)

690	ZFOBLKCR	4	ADDRESS OF BLOCK CONTAINING THE MOST SPACE
694	ZFOFREPT	4	ADDRESS OF FREE DESCRIPTOR CHAIN
698	ZFOBLKPT	4	ADDRESS OF FIRST BLOCK OF FREE LINES

ZFONC

ZFONC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| 69C	ZFOPRFPT	4		PREFIX SYNONYM TABLE POINTER
| 6A0	ZFOUFLDS	4		USER DEFINED FIELDS TABLE POINTER
| 6A4	ZFONFILE	4		NUMBER OF FILES EDITED SIMULTANEOUSLY
| 6A8	ZFOATSID	4		UNIQUE AUTOSAVE ID
|	TERMINAL MANAGEMENT			
| 6AC	ZFOATERM	2		TERMINAL ADDRESS (CUU)
| 6AE	ZFOCSRAD	2		EBCDIC ADDRESS OF CURSOR (2 CHARACTERS)
| 6B0		4		RESERVED
| 6B4	ZFOBUFIM	4		ADDRESS OF SCREEN BUFFER
| 6B8	ZFOBUFIO	4		ADDRESS OF INPUT/OUTPUT BUFFER
| 6BC	ZFOMSGCT	4		NUMBER OF MESSAGES ON SCREEN
| 6C0		80		RESERVED
| 710	ZFOORSBC	8		ORIGINAL SUB COMMAND NAME
| 718	ZFOTBSPT	4		TABSET BUFFER ADDRESS
| 71C	ZFOTBSLG	4		TABSET BUFFER LENGTH
| 720	ZFOLSCPT	4		ADDRESS OF FIRST LOGICAL SCREEN
| 724	ZFONROWS	2		NUMBER OF LINES OF PHYSICAL SCREEN
| 726	ZFONCOLS	2		NUMBER OF COLUMNS OF PHYSICAL SCREEN
| 728	ZFOSINDX	4		INDEX ON SCREEN BUFFER
| 72C	ZFOLGSCB	4		SIZE IN BYTES OF SCREEN BUFFER (NUMBER OF DATA-BYTES AND CTL CHARACTERS)
|	Bits defined in ZFOLGSCB			
|	05 ZFOCTLSZ			SBA, EBCDIC ADDRESS, SF, ATTRIBUT
| 730	ZFOIOTBL	4		INPUT/OUTPUT TRANSLATE TABLE
| 734	ZFOIOCMP	4		INPUT/OUTPUT COMPOUND TABLE
| 738	ZFOTRDUP	4		UPPERCASE TRANSLATE TABLE
| 73C	ZFOTRDLW	4		LOWERCASE TRANSLATE TABLE
| 740	ZFOCSSTK	14		CURSOR STACK (/SOS PUSH & POP)
|	Bits defined in ZFOCSSTK			
|	07 ZFOCSDPT			LENGTH OF STACK
| 74E	ZFOCSRSZ	2		SIZE IN BYTE OF PHYSICAL SCREEN
| 750	ZFONBPAR	2		NUMBER OF PARTITIONS
| 752		6		RESERVED

ZFONC

ZFONC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
|	SAVE AREA POINTERS			
|	758 ZFOLSTSV	4		LAST SAVE AREA ADDRESS
|	75C ZFOXSUFL	4		A(DMSXSUFL) : HANDLE STACK OVERFLOW
|	760 ZFOXER	4		A(DMSXER) : HANDLE ERROR MESSAGE
|	764 ZFOCURSV	4		CURRENT SAVE AREA
|	CMS PLIST			
|	768 ZFOFSCB	0		PLIST CMS
|	768 ZFOPLIST	8		FILE SYSTEM COMMAND (RDBUF, WRBUF, ETC.)
|	770 ZFOFNAME	8		FILENAME
|	778 ZFOFTYPE	8		FILETYPE
|	780 ZFOFMODE	2		FILEMODE
|	782 ZFOITNO	2		RELATIVE RECORD NUMBER TO BE READ/WITTEN
|	784 ZFOABUFF	4		ADDRESS OF R/W BUFFER OR OF STATEFST
|	788 ZFOLBUFF	4		LENGTH OF BUFFER
|	78C ZFORECFM	1	F*21	RECFM - C'F' OR C'V'
|	78D ZFOFLAG	1	F*22	FSCB FLAG
|	78E ZFONOIT	2		NUMBER OF RECORDS TO BE READ/WITTEN
|	790 ZFONOB RD	4		NUMBER OF BYTES ACTUALLY READ
|	794 ZFOAITNO	4		ALTERNATE ITEM NUMBER (FULLWORD)
|	798 ZFOANOIT	4		ALTERNATE NUMBER OF ITEM (FULLWORD)
|	WORK AREAS			
|	79C ZFOWKBUF	256		WORK BUFFER
|	89C ZFOWKTBL	256		256 BYTES TABLE USED BY TRTS
|	99C ZFOSPCVC	20		BINARY/EBCDIC CONVERSION AREA
|	9B0 ZFOWKBFD	40		DOUBLEWORD ALIGNED WORK BUFFER
|	SYNONYM BUFFER			
|	9D8 ZFOSYNBL	4		BUFFER LENGTH
|	9DC ZFOSYNBF	256		WORK BUFFER FOR SYNONYMS
|	STACK OF SAVE AREA	(16 WORDS + BACKWARD POINTER + 28 BYTES WORKAREA)		
|	AE0 ZFOSTKSV	0		
|	AE0 ZFOSAVSV	96		CALL DMSXSU FROM DMSXBG
|	B40 ZFOSAV01	96		ROUTINES CALLED FROM DMSXSU

ZFONC

ZFONC

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
| BA0	ZFOSAV02	96		ROUTINES CALLED FROM DMSXSU
| C00	ZFOSAV03	96		ROUTINES CALLED FROM DMSXSU
| C60	ZFOSAV04	96		ROUTINES CALLED FROM DMSXSU
| CC0	ZFOSAV05	96		ROUTINES CALLED FROM DMSXSU
| D20	ZFOSAV06	96		ROUTINES CALLED FROM DMSXSU
| D80	ZFOSAV07	96		ROUTINES CALLED FROM DMSXSU
| DE0	ZFOSAV08	96		ROUTINES CALLED FROM DMSXSU
| E40	ZFOSAV09	96		ROUTINES CALLED FROM DMSXSU
| EA0	ZFOSAV10	96		ROUTINES CALLED FROM DMSXSU
| F00	ZFOSAV11	96		ROUTINES CALLED FROM DMSXSU
| F60	ZFOSAV12	96		ROUTINES CALLED FROM DMSXSU
| FC0	ZFOSAV13	96		ROUTINES CALLED FROM DMSXSU

| 1020 ZFOSVEND 96

Bits defined in ZFOSVEND

| F ZFOSAVNB NUMBER OF SAVE AREA

EQUATES

80 DELCOM	COMMON DELIMITER BETWEEN TWO STRINGS
40 TYPTRGT	TYPE TARGET
C0 TYPTRGTC	TYPE COLUMN TARGET
20 DEF2P31	DEFAULT 2**31
10 DEFNBUN	DEFAULT 1
30 DEFABS	OPERAND CAN BE OMITTED
08 TYPLIGNE	LINE IMAGE
04 TYPCHDEL	STRING WITH DELIMITEUR
02 TYPCHAIN	STRING
01 TYPNUM	NUMBER
00 D0	DISPLACEMENT
01 D1	DISPLACEMENT
02 D2	DISPLACEMENT
03 D3	DISPLACEMENT
04 D4	DISPLACEMENT
05 D5	DISPLACEMENT
06 D6	DISPLACEMENT
07 D7	DISPLACEMENT
08 D8	DISPLACEMENT
09 D9	DISPLACEMENT
0A D10	DISPLACEMENT
0C D12	DISPLACEMENT
0D D13	DISPLACEMENT
0E D14	DISPLACEMENT
10 D16	DISPLACEMENT
18 D24	DISPLACEMENT
1B D27	DISPLACEMENT
1C D28	DISPLACEMENT
20 D32	DISPLACEMENT
28 D40	DISPLACEMENT
32 D50	DISPLACEMENT
40 D64	DISPLACEMENT

<u>Disp</u>	<u>Name</u>	<u>Len</u>	<u>Key</u>	<u>Description</u>
58	D88			DISPLACEMENT
60	D96			DISPLACEMENT
64	D100			DISPLACEMENT
68	D104			DISPLACEMENT
01	L1			LENGTH
02	L2			LENGTH
03	L3			LENGTH
04	L4			LENGTH
05	L5			LENGTH
06	L6			LENGTH
07	L7			LENGTH
08	L8			LENGTH
0A	L10			LENGTH
0C	L12			LENGTH
10	L16			LENGTH
11	L17			LENGTH
12	L18			LENGTH
18	L24			LENGTH
20	L32			LENGTH
50	L80			LENGTH
84	L132			LENGTH
00	L256			LENGTH
01	M1			MASK
02	M2			MASK
03	M3			MASK
07	M7			MASK
08	M8			MASK
0C	MC			MASK
0E	ME			MASK
0F	MF			MASK
00	X00			
01	X01			
16	X16			
80	X80			
FF	XFF			

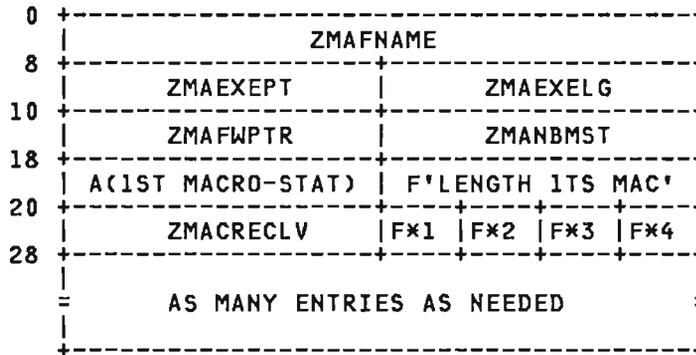
CROSS REFERENCE (Name Disp Value)

DEFABS	0000	30	D64	0000	40	MAXBUFLG	0024	A0	ZFOANOIT	0798	..
DEFNBUN	0000	10	D7	0000	07	MC	0000	0C	ZFOAPLON	064E	01
DEF2P31	0000	20	D8	0000	08	ME	0000	0E	ZFOATERM	06AE	..
DELCOM	0000	80	D88	0000	58	MF	0000	0F	ZFOATSID	06A8	..
D0	0000	..	D9	0000	09	M1	0000	01	ZFOBLKCR	0690	..
D1	0000	01	D96	0000	60	M2	0000	02	ZFOBLKPT	0698	..
D10	0000	0A	L1	0000	01	M3	0000	03	ZFOBUFIM	06B4	..
D100	0000	64	L10	0000	0A	M7	0000	07	ZFOBUFIO	06B8	..
D104	0000	68	L12	0000	0C	M8	0000	08	ZFOBUFPT	0684	..
D12	0000	0C	L132	0000	84	TYPCHAIN	0000	02	ZFOCLRIG	064D	10
D13	0000	0D	L16	0000	10	TYPCHDEL	0000	04	ZFOCLRSC	064D	08
D14	0000	0:	L17	0000	11	TYPLIGNE	0000	08	ZFOCOLOR	0650	04
D16	0000	10	L18	0000	12	TYPNUM	0000	01	ZFOCSDPT	0740	07
D2	0000	02	L2	0000	02	TYPTRGT	0000	40	ZFOCSPRI	068C	0E
D24	0000	18	L24	0000	18	TYPTRGTC	0000	C0	ZFOCSRAD	06AE	..b
D27	0000	1B	L256	0000	..	XFF	0000	FF	ZFOCSRFL	065C	..
D28	0000	1C	L3	0000	03	X00	0000	00	ZFOCSRSZ	074E	..
D3	0000	03	L32	0000	20	X01	0000	01	ZFOCSTK	0740	..
D32	0000	20	L4	0000	04	X16	0000	16	ZFOCTLSZ	072C	05
D4	0000	04	L5	0000	05	X80	0000	80	ZFOCURFL	0660	..
D40	0000	28	L6	0000	06	ZFCOLCMD	064F	10	ZFOCURSV	0764	..
D5	0000	05	L7	0000	07	ZFOABUFF	0784	..	ZFOC2741	064C	01
D50	0000	32	L8	0000	08	ZFOAITNO	0794	..	ZFOC3215	064C	02
D6	0000	06	L80	0000	50	ZFOALARM	064D	80	ZFOC3270	064C	04

ZFOC3278	064C	08	ZFOLQCPT	0688	..	ZFOOPST8	05A4	..	ZFOSAVSV	0AE0	..
ZFOERCOD	0656	..	ZFOLPNDG	068C	14	ZFOOPTGT	064B	20	ZFOSAV01	0B40	..
ZFOEXTHI	0650	02	ZFOLRBUF	0020	..	ZFOORSBC	0710	..	ZFOSAV02	0BA0	..
ZFOFKCOD	0655	..	ZFOLSCPT	0720	..	ZFOORSBN	0653	..	ZFOSAV03	0C00	..
ZFOFLAG	078D	..	ZFOLSELC	068C	18	ZFOPFKPT	06C0	..	ZFOSAV04	0C60	..
ZFOFLAG1	064C	..	ZFOLSTSV	0758	..	ZFOPLIST	0768	..	ZFOSAV05	0CC0	..
ZFOFLAG2	064D	..	ZFOLZFOB	....	**	ZFOPRFBW	068C	04	ZFOSAV06	0D20	..
ZFOFLAG3	064E	..	ZFOLZFOD	....	**	ZFOPRFER	064E	80	ZFOSAV07	0D80	..
ZFOFLAG4	064F	..	ZFOMCRNG	064C	40	ZFOPRFFW	068C	..	ZFOSAV08	0DE0	..
ZFOFLAG5	0650	..	ZFOMOVUP	064E	20	ZFOPRFIN	068C	40	ZFOSAV09	0E40	..
ZFOFLAG6	0651	..	ZFOMSGCT	06BC	..	ZFOPRFLP	068C	08	ZFOSAV10	0EA0	..
ZFOFLAG7	0652	..	ZFONBPAR	0750	..	ZFOPRFNL	068C	1D	ZFOSAV11	0F00	..
ZFOFMODE	0780	..	ZFONCOLS	0726	..	ZFOPRFPT	069C	..	ZFOSAV12	0F60	..
ZFOFNAME	0770	..	ZFONDSPC	064F	01	ZFOPRFXA	068C	18	ZFOSAV13	0FC0	..
ZFOFREPT	0694	..	ZFONFILE	06A4	..	ZFOPRFXL	068C	06	ZFOSBCMD	064F	08
ZFOFSCB	0768	..	ZFONBRD	0790	..	ZFOPRFXN	068C	20	ZFOSCBLD	064D	02
ZFOFTYPE	0778	..	ZFONOIT	078E	..	ZFOPRFXR	068C	28	ZFOSCRDF	0651	04
ZFOFULRD	064F	20	ZFONOSYN	0650	10	ZFOPRFX1	068C	0C	ZFOSCRDW	0651	02
ZFOIMPCD	064F	02	ZFONROWS	0724	..	ZFOPRFX2	068C	10	ZFOSCRDX	064D	20
ZFOIOCMP	0734	..	ZFOOPABS	064B	04	ZFOPRFX3	068C	14	ZFOSCRSZ	0651	01
ZFOIOTBL	0730	..	XFOOPAST	064B	10	ZFOPROFL	064E	10	ZFOSHVPT	0680	..
ZFOITNO	0782	..	XFOOPEND	0644	..	ZFOPRVTB	064E	08	ZFOSINDX	0728	..
ZFOKYCOD	0657	..	ZFOOPFL1	0644	..	ZFOPRSET	0650	80	ZFOSPCVC	099C	..
ZFOKYEXC	0650	40	ZFOOPFL2	0645	..	ZFOPXAMP	068C	04	ZFOSTKSV	07AE0	..
ZFOLADDR	068C	08	ZFOOPFL3	0646	..	ZFOPXBLK	068C	01	ZFOSUBCM	0668	..
ZFOLBUFF	0788	..	ZFOOPFL4	0647	..	ZFOPXCMD	068C	08	ZFOSUSED	064D	04
ZFOLBWPT	068C	04	ZFOOPFL5	0648	..	ZFOPXFLG	068C	1E	ZFOSVEND	1020	..
ZFOLDSCR	068C	1C	ZFOOPFL6	0649	..	ZFOPXFL1	068C	1F	ZFOSYNBF	09DC	..
ZFOLFLAG	068C	0C	ZFOOPFL7	064A	..	ZFOPXINV	068C	10	ZFOSYNBL	09D8	..
ZFOLFLG1	068C	0D	ZFOOPFL8	064B	..	ZFOPXMAC	068C	04	ZFOSYNPT	0670	..
ZFOLFWPT	068C	00	ZFOOPNB1	0000	..	ZFOPXOP1	068C	20	ZFOTABS1	064D	01
ZFOLGOP1	0124	..	ZFOOPNB2	0004	..	ZFOPXOP2	068C	40	ZFOTBSLG	071C	..
ZFOLGOP2	01C8	..	ZFOOPNB3	0008	..	ZFOPXOP3	068C	80	ZFOTBSPT	0718	..
ZFOLGOP3	026C	..	ZFOOPNB4	000C	..	ZFOPXPNG	068C	02	ZFOTRDLW	073C	..
ZFOLGOP4	0310	..	ZFOOPNB5	0010	..	ZFOPXSHD	068C	02	ZFOTRDUP	0738	..
ZFOLGOP5	03B4	..	ZFOOPNB6	0014	..	ZFOPXUSD	068C	01	ZFOTRSET	0650	01
ZFOLGOP6	0458	..	ZFOOPNB7	0018	..	ZFOQUITM	0650	20	ZFOTWRMD	064C	20
ZFOLGOP7	04FC	..	ZFOOPNB8	001C	..	ZFORDBUF	0024	..	ZFOTXTON	064E	02
ZFOLGOP8	05A0	..	ZFOOPNEG	064B	08	ZFORDSTK	064F	04	ZFOUFLAG	0654	..
ZFOLGSCB	072C	..	ZFOOPNUM	064B	02	ZFORDSVR	064C	80	ZFOUFLDS	06A0	..
ZFOLNAME	068C	10	ZFOOPSTR	064B	01	ZFORECFM	078C	..	ZFOWKbfd	09B0	..
ZFOLNCHG	068C	02	ZFOOPST1	0128	..	ZFORECPT	0678	..	ZFOWKBUF	079C	..
ZFOLNCSR	068C	10	ZFOOPST2	01CC	..	ZFORETMC	067C	..	ZFOWKTBL	089C	..
ZFOLNCR	068C	08	ZFOOPST3	0270	..	ZFORFRSH	064D	40	ZFOXER	0760	..
ZFOLNDEL	068C	04	ZFOOPST4	0314	..	ZFORMTUB	064C	10	ZFOXSTPT	0658	..
ZFOLNDXP	068C	80	ZFOOPST5	03B8	..	ZFORTBYT	0664	667	ZFOXSUFL	075C	..
ZFOLNEXT	068C	20	ZFOOPST6	045C	..	ZFORTCOD	0664	..	ZFOZMAPT	0674	..
ZFOLNNEW	068C	01	ZFOOPST7	0500	..	ZFOSAVNB	1020	0F	ZFOL4BIT	0650	08

ZMACST: MACRO DESCRIPTOR BLOCK

ZMACST is used by the System Product Editor modules to describe a System Product Editor macro in storage. It is built dynamically by DMSXMA each time a macro is invoked.

**Size**

LENGTH OF THE HEADER IN DOUBLEWORDS (ZMALZMAD) 03
 LENGTH OF THE HEADER IN BYTES (ZMALZMAB) 20

Disp	Name	Len	Key	Description
0	ZMAFNAME	8		MACRO NAME
8	ZMAEXEPT	4		POINTER ON THE MACRO-STATEMENTS
C	ZMAEXELG	4		LENGTH MACRO-STATEMENT LIST
10	ZMAFWPTR	4		POINTER TO THE NEXT MACRO IN STORAGE
14	ZMANBMST	4		NUMBER OF MACRO-STATEMENT
18	ZMARECLV	4		RECURSION LEVEL
1C	ZMAFLAG1	1		STATUS FLAG
Bits defined in ZMAFLAG1				
1	ZMATMPRY			TEMPORARY MACRO
1D	ZMAFLAG2	1		STATUS FLAG
1E	ZMAFLAG3	1		STATUS FLAG
1F	ZMAFLAG4	1		STATUS FLAG
20	ZMAMCLST	0		LIST OF MACRO-STATEMENT

ZMACST

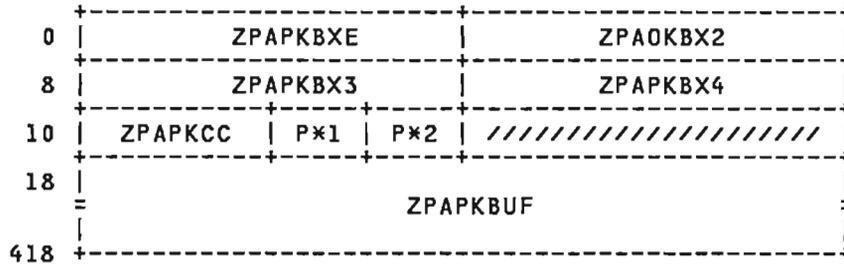
ZMACST

CROSS REFERENCE (Name Disp Value)

ZMAEXELG 000C ..	|	ZMAFLAG3 001E ..	ZMALZMAB 0000 20	ZMANBMST 0014 ..
ZMAEXEPT 0008 ..	|	ZMAFLAG4 001F ..	ZMALZMAD 0020 04	ZMARECLV 0018 ..
ZMAFLAG1 001C ..	|	ZMAFNAME 0000 ..	ZMAMCLST 0020 ..	ZMATMPRY 001C 01
ZMAFLAG2 001D ..	|	ZMAFWPTR 0010 ..		

ZPACK: PACK/UNPACK WORK AREA

ZPACK is built by DMSXIN or DMSXFD and is used by the System Product Editor modules when a file is being packed or unpacked. ZPACK is invoked via the ZPACK macro.



Size

ZPACK LENGTH IN DOUBLEWORDS (ZPALZPAD) 083
 ZPACK LENGTH IN BYTES (ZPALZPAB) 418

Disp	Name	Len	Key	Description
0	ZPAPKBXE	4		POINTER TO THE END OF BUFFER
4	ZPAPKBX2	4		ZPAPKBXE - 2
8	ZPAPKBX3	4		ZPAPKBXE - 3
C	ZPAPKBX4	4		ZPAPKBXE - 4
10	ZPAPKCC	2		2 FILL CHARACTERS
12	ZPAPKFIL	1	P×1	FILL CHARACTER
13	ZPAFLAG1	1	P×2	FLAG BYTE

Bits defined in ZPAFLAG1

80	ZPAPKDAF			DATA FIELD
78	ZPAPKFFF			MAX LENGTH IN 1 BYTE IS 119+1
04	ZPAPKERF			END OF RECORD FOR RECFM=V
02	ZPAPKSCF			SPECIAL (NON-FILL) CHARACTER BIT
01	ZPAPKELF			EXTRA LONG FILED BUT (MORE THAN 256)

14		4		RESERVED
18	ZPAPKBUF	1024		1024 BYTES INPUT/OUTPUT BUFFER

CROSS REFERENCE (Name Disp Value)

ZPAFLAG1	0013 ..	ZPAPKBXE	0000 ..	ZPAPKCC	0010 ..	ZPAPKFFF	0013 78
ZPALZPAB	.... 418	ZPAPKBX2	0004 ..	ZPAPKDAF	0013 80	ZPAPKFIL	0012 ..
ZPALZPAD	.... 83	ZPAPKBX3	0008 ..	ZPAPKELF	0013 01	ZPAPKSCF	0013 02
ZPAPKBUF	0018 ..	ZPAPKBX4	000C ..	ZPAPKERF	0013 04		

APPENDIXES

Information in the following appendixes supplements the text in this publication:

- "Appendix A. CMS Equate Symbols" contains Assembler language equate symbols used in CMS to reference data.
- "Appendix B. Data Areas and Control Block References" lists the names of the CMS control blocks. This appendix shows: (1) module references to data areas and/or control blocks, and (2) gives information on how certain data areas or control blocks are created and released.

APPENDIX A. CMS EQUATE SYMBOLS

This Appendix contains Assembler language equate symbols used in CMS to reference data for:

- CMS usage
- CMS registers

CMS USAGE EQUATES

<u>Name</u>			<u>Description</u>
<u>Bits defined in the Program Status Word (PSW)</u>			
CHAN0	EQU	X'80'	Bit 00 - channel 0 mask
CHAN1	EQU	X'40'	Bit 01 - channel 1 mask
CHAN2	EQU	X'20'	Bit 02 - channel 2 mask
CHAN3	EQU	X'10'	Bit 03 - channel 3 mask
CHAN4	EQU	X'08'	Bit 04 - channel 4 mask
CHAN5	EQU	X'04'	Bit 05 - channel 5 mask
CHANM	EQU	X'02'	Bit 06 - input/output mask
EXTM	EQU	X'01'	Bit 07 - external mask
ECMM	EQU	X'08'	Bit 12 - extended control mode mask
MCKM	EQU	X'04'	Bit 13 - machine check mask
WAIT	EQU	X'02'	Bit 14 - wait state mask
PROB	EQU	X'01'	Bit 15 - problem state mask
FOFM	EQU	X'08'	Bit 36 - fixed-point overflow mask
DOFM	EQU	X'04'	Bit 37 - decimal overflow mask
EUFM	EQU	X'02'	Bit 38 - exponent underflow mask
SIGM	EQU	X'01'	Bit 39 - significance mask
<u>Bits defined in the Channel Status Word (CSW)</u>			
ATTN	EQU	X'80'	Bit 32 - attention
SM	EQU	X'40'	Bit 33 - status modifier
CUE	EQU	X'20'	Bit 34 - control unit end
BUSY	EQU	X'10'	Bit 35 - busy
CE	EQU	X'08'	Bit 36 - channel end
DE	EQU	X'04'	Bit 37 - device end
UC	EQU	X'02'	Bit 38 - unit check
UE	EQU	X'01'	Bit 39 - unit exception
PCI	EQU	X'80'	Bit 40 - program-controlled interrupt
ICL	EQU	X'40'	Bit 41 - incorrect length
PGC	EQU	X'20'	Bit 42 - program check
PTC	EQU	X'10'	Bit 43 - protection check
CDC	EQU	X'08'	Bit 44 - channel data check
CCC	EQU	X'04'	Bit 45 - channel control check
ICC	EQU	X'02'	Bit 46 - interface control check
CHC	EQU	X'01'	Bit 47 - chaining check
<u>Common Channel Command Codes</u>			
WRITE	EQU	X'01'	Write
READ	EQU	X'02'	Read
NOP	EQU	X'03'	No operation
SENSE	EQU	X'04'	Sense
WRDATA	EQU	X'05'	Write data
RDDATA	EQU	X'06'	Read data
SEEK	EQU	X'07'	Seek
TIC	EQU	X'08'	Transfer in channel
WRITE1	EQU	X'09'	Write and space 1
RDCONS	EQU	X'0A'	Read from console
SETSEC	EQU	X'23'	Set sector
SEARCH	EQU	X'31'	Search ID equal

APPENDIX B. CMS DATA AREAS AND CONTROL BLOCK REFERENCES

This appendix is a listing of the CMS data areas and control blocks. Appendix B contains the following references:

- Module references to data areas and control blocks.
- Information on how certain data areas or control blocks are created and released.

CMS DATA AREAS AND CONTROL BLOCK REFERENCES

ABWSECT

Assembled as part of DMSNUC

Referenced by:

DMSABN, DMSDBG, DMSFRE, DMSITI,
DMSITP, DMSITS

ADTSECT

Assembled as part of DMSNUC.

Referenced by:

DMSABN, DMSACC, DMSACF, DMSACM,
DMSALU, DMSAMS, DMSARE, DMSARN,
DMSARX, DMSASM, DMSASN, DMSAUD,
DMSBOP, DMSBRD, DMSBWR, DMSCMP,
DMSCPY, DMSCVH, DMSDIO, DMSDLB,
DMSDLK, DMSDOS, DMSDSK, DMSDSL,
DMSERS, DMSEXC, DMSEXT, DMSFNS,
DMSFOR, DMSGND, DMSIFC, DMSINS,
DMSINT, DMSLAD, DMSLAF, DMSLBM,
DMSLBT, DMSLDS, DMSLFS, DMSLKD,
DMSLLU, DMSLST, DMSMOD, DMSMVE,
DMSPUN, DMSPT, DMSQRY, DMSRNM,
DMSROS, DMSSET, DMSOP, DMSSTT,
DMSSTG, DMSVU, DMSTMA, DMSTPE,
DMSTPF, DMSTPG, DMSTQ, DMSTRK,
DMSUPD, DMSXCP, DMSXFD

AFTSECT

Assembled as part of DMSNUC; also
created and released dynamically
by DMSLAF.

Referenced by:

DMSBRD, DMSBWR, DMSERD, DMSERS,
DMSFNS, DMSINT, DMSLAF, DMSPT,
DMSRNM, DMSOP, DMSSTT, DMSTPE

ANCHSECT

Built by: DMSSTG

Released by: Not released

Referenced by:

DMSDOS, DMSSTG

AVRADR

Built by: CMSBAM

Released by: CMSBAM

Referenced by:

DMSDOS

BATLSECT

Assembled as part of DMSBTP.

Referenced by:

DMSCIO, DMSITE, DMSPIO

BBOX

Assembled as part of DMSNUC.

Referenced by:

DMSSTG. This block is used by the
DOS supervisor.

BGCOM

Assembled as part of DMSNUC.

Referenced by:

DMSAMS, DMSASN, DMSBAB, DMSBOP,
DMSCLS, DMSCVH, DMSDAS, DMSDLB,
DMSDLK, DMSDMP, DMSDOS, DMSDSV,
DMSETR, DMSFCH, DMSFET, DMSINS,
DMSITP, DMSLLU, DMSOPL, DMSOPT,
DMSPRV, DMSQRY, DMSRRV, DMSSET,
DMSMN, DMSRV, DMSSTG, DMSVLT,
DMSVSR, DMSXCP

BGTCB

Assembled as part of DMSNUC.

Referenced by:

DMSAMS, DMSBAB, DMSDOS, DMSITP,
DMSSET, DMSVSR file

CMSTAXE

Built by: DMSSVT
Released by: DMSSVT
Referenced by:
DMSCIT, DMSITE, DMSITI, DMSSVT

DEVTAB

Assembled as part of DMSNUC.
Referenced by:
DMSASN, DMSDBD, DMSEDI, DMSEDX,
DMSINI, DMSIOW, DMITI, DMSLLU,
DMSSVT

CVTSECT

Assembled as part of DMSNUC.
Referenced by:
DMSINS

DIOSECT

Assembled as part of DMSNUC.
Referenced by:
DMSACM, DMSDIO, DMSFNS, DMSITI

DBGSECT

Assembled as part of DMSNUC.
Referenced by:
DMSDBD, DMSDBG, DMSITE.

DIRSECT

Built by: DMKSVT, TXTLIB, MACLIB
Released by: DMSSVT, TXTLIB,
MACLIB
Referenced by:
DMSLBM, DMSLIB, DMSVRT

DCHSECT

Built by: FORMAT, ACCESS, RDBUF,
WRBUF
Released by: RELEASE, FINIS
Referenced by:
DMSABN, DMSACC, DMSACF, DMSACM,
DMSALU, DMSAUD, DMSDSK, DMSERD,
DMSERS, DMSFNS, DMSFOR, DMSINS,
DMSLAD, DMSLFS, DMSLST, DMSRNM,
DMSTPE, DMSTPF, DMSTPG, DMSTRK

DMSCCB

Built by: N/A
Released by: N/A
Referenced by:
DMSXCP

DESTYP

Built by: XEDIT
Released by: XEDIT
Referenced by:
DMSXIN

DOSSECT

Built by: DMSDLB
Released by: DMSDLB, DMSABN
Referenced by:
DMSAMS, DMSBOP, DMSCLS, DMSCVH,
DMSDLB, DMSDLK, DMSDOS, DMSDSV,
DMSFCH, DMSLAB, DMSOPL, DMSQRY,
DMSROS, DMSRRV, DMSSRV, DMSSVT,
DMSVIP, DMSVLT, DMSXCP

DEVSECT

Assembled as part of DMSNUC.
Referenced by:
DMSLAB, DMSMVE, DMSPRE, DMSTIO,
DMSTLB, DMSTMA, DMSTPD, DMSTPE,
DMSTPF, DMSTPG

DTFSD

Assembled as part of user program
(and DOS simulation).

Referenced by:

DMSBOP, DMSCLS, DMSLAB, DMSOR1,
DMSVLT, DMSXCP

DTFX

Built by: CMSBAM

Released by: DMSVLT

Referenced by:

DMSVLT, DMSXCP, DMSBOP, DMSCLS

EDCB

Built by: DMSIDX

Released by: DMSEDI

Referenced by:

DMSIDX, DMSEDI, DMSIDX, DMSGIO,
DMSSCR

EPLIST

Referenced by:

DMSASM, DMSCPF, DMSDLB, DMSEIO,
DMSEXI, DMSGLO, DMSITS, DMSLDR,
DMSLDS, DMSNAM, DMSSTG

ERDSECT

Assembled as part of DMSNUC.

Referenced by:

DMSERR

EXTSECT

Assembled as part of DMSNUC.

Referenced by:

DMSINS, DMSJNT, DMSIOW, DMSITE,
DMSQRY, DMSJET, DMSSTG, DMSSVN,
DMSVLT

EXTUAREA

Assembled as part of DMSNUC.

Released by: N/A

Referenced by:

DMSITE

FCBSECT

Built by: DMSFLD

Released by: DMSFLD, DMSABN

Referenced by:

DMSALU, DMSARN, DMSARX, DMSASM,
DMSBWR, DMSDSL, DMSFCH, DMSFLD,
DMSFLE, DMSLBD, DMSLDS, DMSLOS,
DMSMVE, DMSMVG, DMSQRY, DMSROS,
DMSSAB, DMSSBD, DMSSBS, DMSSCT,
DMSSSEB, DMSSOP, DMSSQS, DMSSVN,
DMSSVT, DMSSVU, DMSTLB, DMSUTL,
DMSXDS

FCHTAB

Assembled as part of DMSNUC.

Referenced by:

DMSDOS, DMSFET

FRDSECT

Assembled as part of DMSNUC.

Referenced by:

DMSFRE, DMSSET

FSCBD

Built by: N/A

Released by: N/A

Referenced by:

DMSBRD, DMSDLK, DMSERS, DMSEXE,
DMSIFC, DMSUPD, DMSZAP, and user
programs that access the CMS file
system.

FSTD

Built by: N/A

Released by: N/A

Referenced by:

DMSCPY, DMSEDI, DMSIDX, DMSEXC,
DMSFNS, DMSGND, DMSHLS, DMSLAD,
DMSLBT, DMSLST, DMSNCP, DMSSOP,
DMSTPE, DMSTPF, DMSTPG, DMSTYP,
DMSUPD, DMSUTL, DMSXED, DMSXGT,
DMSXIN, DMSXMA, DMSXPT, DMSXSU,
DMSXUP

FSTSECT

Built by: DMSACF

Released by: DMSALU

Referenced by:

DMSACF, DMSAMS, DMSARN, DMSARX,
DMSASM, DMSBOP, DMSBRD, DMSBWR,
DMSCPY, DMSDLK, DMSDSK, DMSDSL,
DMSERS, DMSIFC, DMSLAF, DMSLBM,
DMSLKD, DMSMDP, DMSMVE, DMSRNM,
DMSSTT, DMSTPE, DMSUPD, DMSZAP

FVSECT

Assembled as part of DMSNUC.

Referenced by:

DMSABN, DMSACC, DMSACF, DMSACM,
DMSALU, DMSARN, DMSARX, DMSASM,
DMSAUD, DMSBRD, DMSBTB, DMSBTP,
DMSBWR, DMSCIT, DMSCMP, DMSCRD,
DMSCWR, DMSCWT, DMSDIO, DMSDOS,
DMSDSK, DMSDSL, DMSERD, DMSERS,
DMSFNS, DMSGND, DMSINT, DMSITE,
DMSITI, DMSITP, DMSITS, DMSLAD,
DMSLBM, DMSLFS, DMSMOD, DMSPTN,
DMSPTN, DMSQRY, DMSRNM, DMSSLN,
DMSSOP, DMSSTT, DMSTPE, DMSTPF,
DMSTPG, DMSTQQ, DMSUPD, DMSXIN,
DMSXMA, DMSXUP

IHADECB

Built by: N/A

Released by: N/A

Referenced by:

DMSSBD, DMSSBS, DMSSCT, DMSSEB,
DMSSVT

IJJHCPL

Built by: CMSBAM

Released by: CMSBAM

Referenced by:

DMSCVH

IJJHDLST

Built by: CMSBAM

Released by: CMSBAM

Referenced by:

DMSCVH

IJJHFMT1

Built by: CMSBAM

Released by: CMSBAM

Referenced by:

DMSCVH

IOSECT

Assembled as part of DMSNUC.

Referenced by:

DMSABN, DMSHDI, DMSINT, DMSITI

KEYSECT

Built by: DMSSVT

Released by: DMSSVT

Referenced by:

DMSSBD, DMSSVT, DMSSVU

LABREC

Built by: CMSBAM

Released by: CMSBAM

Referenced by:

DMSLAB

LABSECT

Built by: DMSLBD

Released by: DMABN, DMSLBD

Referenced by:

DMSFLD, DMSLBD, DMSQRY, DMSTLB

LDRST

Built by: DMSLDR

Released by: DMSLDR

Referenced by:

DMSLDR, DMSLGT, DMSLIB, DMSLIO, DMSLSB, DMSOLD

LIBSECT

Assembled as part of the LIB macro.

Referenced by:

DMSLBM, DMSLGT, DMSLIB, DMSPRT, DMSPPUN, DMSSVT, DMSTMA, DMSTYP

LOCKTAB

Built by: DMSSET

Released by: DMSSET, DMSABN

Referenced by:

DMSABN, DMSLCK

LOGFBFMT

Referenced by:

DMSPOP, DMSPOR

LSCREEN

Built by: XEDIT

Released by: XEDIT

Referenced by:

DMSXBG, DMSXCT, DMSXED, DMSXFC, DMSXIO, DMSXMA, DMSXMC, DMSXMD, DMSXML, DMSXP0, DMSXPX, DMSXSC, DMSXSD, DMSXSE, DMSXSS, DMSXSU

LUBPR

Assembled as part of DMSNUC.

Referenced by:

DMSAMS, DMSBOP, DMSCLS, DMSDLB, DMSDLK, DMSDSV, DMSFCH, DMSLLU, DMSOPL, DMSPRV, DMSRRV, DMKSET, DMSRRV, DMSXCP

LUBTAB

Assembled as part of DMSNUC.

Referenced by:

DMSAMS, DMSBOP, DMSCLS, DMSDLB, DMSFCH, DMSLLU, DMSOPL, DMSPRV, DMSRRV, DMSSET, DMSRRV, DMSXCP

NUCON

Assembled as part of DMSHUC.

Referenced by:

DMSABN, DMSACC, DMSACF, DMSACM, DMSALU, DMSAMS, DMSARE, DMSARN, DMSARX, DMSASM, DMSASH, DMSAUD, DMSBAB, DMSBOP, DMSBRD, DMSBTB, DMSBTP, DMSBWR, DMSCAT, DMSCIO, DMSCIT, DMSCLS, DMSCMP, DMSCPF, DMSCPY, DMSCRD, DMSCVH, DMSDMP, DMSCWT, DMSDAS, DMSDBD, DMSDBG, DMSDIO, DMSDLB, DMSDLK, DMSDMP, DMSDOS, DMSDSK, DMSDSL, DMSDSV, DMSEDI, DMSEDX, DMSERD, DMSERR, DMSEERS, DMSETR, DMSEXC, DMSEXE, DMSEXI, DMSEXT, DMSFCH, DMSFRE, DMSFLD, DMSFNS, DMSFOR, DMSGIO, DMSGLB, DMSGND, DMSHDI, DMSHDS, DMSHLI, DMSHLL, DMSHLS, DMSIFC, DMSIMA, DMSINA, DMSINI, DMSINM, DMSINS, DMSINT, DMSIQW, DMSITE, DMSITI, DMSITP, DMSITS, DMSLAB, DMSLAD, DMSLAF, DMSLBD, DMSLBM, DMSLBR, DMSLBT, DMSLCK, DMSLDR, DMSLDS, DMSLFS, DMSLGT, DMSLIB, DMSLIO, DMSLKD, DMSLLU, DMSLOA, DMSLOS, DMSLSB, DMSLST, DMSLSY, DMSMDP, DMSMOD, DMSMVE, DMSMVG, DMSMCP, DMSOLD, DMSOPL, DMSOPT, DMSORL, DMSOSR, DMSOVR, DMSOVS, DMSPIO, DMSPNT, DMSPRE, DMSPRV, DMSPRV, DMSPPUN, DMSQRY, DMSRDC, DMSRNE, DMSRNM, DMSROS, DMSRRV, DMSAB, DMSABS, DMSACN, DMSXCT, DMSXMA, DMSXMC, DMSXMD, DMSXML, DMSXP0, DMSXPX, DMSXSC, DMSXSD, DMSXSE, DMSXSS, DMSXSU, DMSSTG, DMSSTT, DMSSVN, DMSSVT, DMSSSVU, DMSSSYN, DMSTIO, DMSTLA,

DMSTLB, DMSTMA, DMSTPD, DMSTPE,
DMSTPF, DMSTPG, DMSTQQ, DMSTRK,
DMSTYP, DMSUPD, DMSUTL, DMSVIB,
DMSVIP, DMSVLT, DMSVSR, DMSXBG,
DMSXCM, DMSXCP, DMSXDC, DMSXDS,
DMSXED, DMSXFD, DMSXGT, DMSXHL,
DMSXIN, DMSXIO, DMSXMA, DMSXMD,
DMSXMS, DMSXPO, DMSXPT, DMSXRE,
DMSXSC, DMSXSD, DMSXSE, DMSXSG,
DMSXSS, DMSXSU, DMSXUP, DMSZAP,
DMSZES

OCTS

Built by: DMSBOP

Released by: DMSVLT

Referenced by:

DMSBOP, DMSCLS, DMSVLT

OPSECT

Assembled as part of DMSNUC.

Referenced by:

DMSABN, DMSARX, DMSASM, DMSCPY,
DMSEXI, DMSCRD, DMSCWR, DMSCWT,
DMSDBG, DMSEXC, DMSEXT, DMSINS,
DMSINT, DMSROS, DMSSBD, DMSSBS,
DMSSCT, DMSSEB, DMSSOP, DMSSQS,
DMSSVN, DMSSVT, DMSSVU

OSFST

Built by: DMSROS

Released by: DMSALU

Referenced by:

DMSABN, DMSALU, DMSBOP, DMSDLK,
DMSDSV, DMSFCH, DMSMVE, DMSMVG,
DMSOPL, DMSROS, DMSRRV, DMSSOP,
DMSSRV, DMSSTT

OVSECT

Built by: N/A

Released by: N/A

Referenced by:

DMSITS, DMSOVR

PARMLIST

Referenced by:

DMSGRN, DMSHLP, DMSLDR, DMSLIB,
DMSLIO, DMSOLD, DMSPOP, DMSPOR

PDSSECT

Built by: DMSSVT

Released by: DMSSVT

Referenced by:

DMSDOS, DMSDSL, DMSFCH, DMSFET,
DMSGND, DMSSTG, DMSSVT

PGMSECT

Assembled as part of DMSNUC.

Referenced by:

DMSITP, DMSSAB, DMSSLN, DMSSTG,
DMSSVT

PIBADR

Assembled as part of DMSNUC.

Referenced by:

DMSBAB, DMSCVH, DMSDOS, DMSITP

PIB2TAB

Assembled as part of DMSNUC.

Referenced by:

DMSDOS, DMSVSR

PROPCOM

Referenced by:

DMSPOR

PROPTAB

Referenced by:

DMSPOP

PRSCB

Built by: XEDIT
Released by: XEDIT
Referenced by:
DMSXCT

PUBADR

Assembled as part of DMSNUC.
Referenced by:
DMSBOP, DMSCLS, DMSCVH, DMSDLK,
DMSDOS, DMSDSV, DMSLLU, DMSPRV,
DMSRRV, DMSSRV, DMSXCP

PUBOWNER

Assembled as part of DMSNUC.
Referenced by:
DMSBOP, DMSCLS, DMSDLK, DMSLLU,
DMSXCP

QEL

Referenced by:
DMSPOP

RECSAVE

Built by: XEDIT
Released by: XEDIT
Referenced by:
DMSXMA

REQDES

Built by: XEDIT
Released by: XEDIT
Referenced by:
DMSXDC, DMSXHL

RTDSECT

Referenced by:
DMSDDL, DMSPOP, DMSPOR

SAVEREG

Built by: XEDIT
Released by: XEDIT
Referenced by:

DMSXBG, DMSXCG, DMSXCM, DMSXCN,
DMSXCT, DMSXDC, DMSXDS, DMSXED,
DMSXER, DMSXFC, DMSXFD, DMSXGT,
DMSXHL, DMSXIN, DMSXIO, DMSXMA,
DMSXMC, DMSXMD, DMSXML, DMSXPO,
DMSXPT, DMSXPX, DMSXSC, DMSXSD,
DMSXSE, DMSXSS, DMSXST, DMSXSU,
DMSXUP

SCBLOCK

Built by: XEDIT
Released by: XEDIT
Referenced by:
DMSINT, DMSITS, DMSXIN, DMSXMA,
DMSXMS

SHVBLOCK

Referenced by:
DMSEXE

SSAVE

Built by: DMSITS
Released by: DMSITS
Referenced by:

DMSABN, DMSACC, DMSBAB, DMSBOP,
DMSCLS, DMSDBG, DMSDLB, DMSDOS,
DMSERR, DMSFLD, DMSFRE, DMSIFC,
DMSITP, DMSITS, DMSLDR, DMSOVS,
DMSAB, DMSLN, DMSSMN, DMSSOP,
DMSSTG, DMSSVN, DMSSVT, DMSXVU,
DMSTLB, DMSVIP, DMSXCP, DMSXMA

SUBJECT

Assembled as part of DMSNUC.

Referenced By: DMSABN, DMSINM,
DMSINT

SVCSECT

Assembled as part of DMSNUC.

Referenced by:

DMSCIT, DMSFRE, DMSHDS, DMSINT,
DMSITE, DMSITS, DMSLAD, DMSLFS,
DMSOVR, DMSOVS, DMSLNL, DMSXMA

SVEARA

Assembled as part of DMSNUC.

Referenced by:

DMSBAB, DMSBOP, DMSCLS, DMSDOS,
DMSITP, DMSVLT

SYNSUB

Built by: XEDIT

Released by: XEDIT

Referenced by:

DMSXBG, DMSXDC, DMSXIN, DMSXSE

SYSCOM

Assembled as part of DMSNUC.

Referenced by:

DMSBAB, DMSBOP, DMSDOS, DMSETR,
DMSFET, DMSITP, DMSQRY, DMSSET,
DMSSTG, DMSSTN

SYSNAMES

Assembled as part of DMSNUC.

Referenced by:

DMSAMS, DMSBOP, DMSBPT, DMSDOS,
DMSDEX, DMSEXC, DMSHLL, DMSINS,
DMSINT, DMSITS, DMSQRY, DMSSET,
DMSTLA, DMSVIB, DMSVSR, DMSXSG

TCBADR

DSECT name generated by BGTCB.

Referenced by:

DMSAMS, DMSBAB, DMSDOS, DMSITP,
DMSSET, DMSVSR

TLBBLOK

Built by: DMSBOP, DMSCLS, DMSSEB,
DMSSOP, DMSTLB, DMSTMA, DMSTPD

Released by: DMSBOP, DMSCLS,
DMSSEB, DMSSOP, DMSTLB, DMSTMA,
DMSTPD

Referenced by:

DMSBOP, DMSCLS, DMSSEB, DMSSOP,
DMSTLB, DMSTMA, DMSTPD

TOKLIST

Referenced by:

DMSPOP, DMSPOR

TSOBLKS

Assembled as part of DMSNUC.

Referenced by:

DMSSET

USAVE

Built by: N/A

Released by: N/A

Referenced by:

DMSITS

USERSECT

Assembled as part of DMSNUC.

Released by: N/A

No CMS references.

ZDESC

Built by: XEDIT

Released by: XEDIT

Referenced by:

DMSXBG, DMSXCG, DMSXCM, DMSXCN,
DMSXCT, DMSXDC, DMSXDS, DMSXED,
DMSXER, DMSXFC, DMSXFD, DMSXGT,
DMSXHL, DMSXIN, DMSXIO, DMSXMA,
DMSXMC, DMSXMD, DMSXML, DMSXMS,
DMSXPO, DMSXPT, DMSXPX, DMSXRE,
DMSXSC, DMSXSD, DMSXSE, DMSXSS,
DMSXST, DMSXSU, DMSXUP

ZFONC

Built by: XEDIT

Released by: XEDIT

Referenced by:

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DMSXCT, DMSXDC, DMSXDS, DMSXED,
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DMSXHL, DMSXIN, DMSXIO, DMSXMA,
DMSXMC, DMSXMD, DMSXML, DMSXMS,
DMSXPO, DMSXPT, DMSXPX, DMSXSC,
DMSXSD, DMSXSE, DMSXSS, DMSXST,
DMSXSU, DMSXUP

ZMACST

Built by: XEDIT

Released by: XEDIT

Referenced by:

DMSXBG, DMSXCT, DMSXMA

ZPACK

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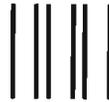
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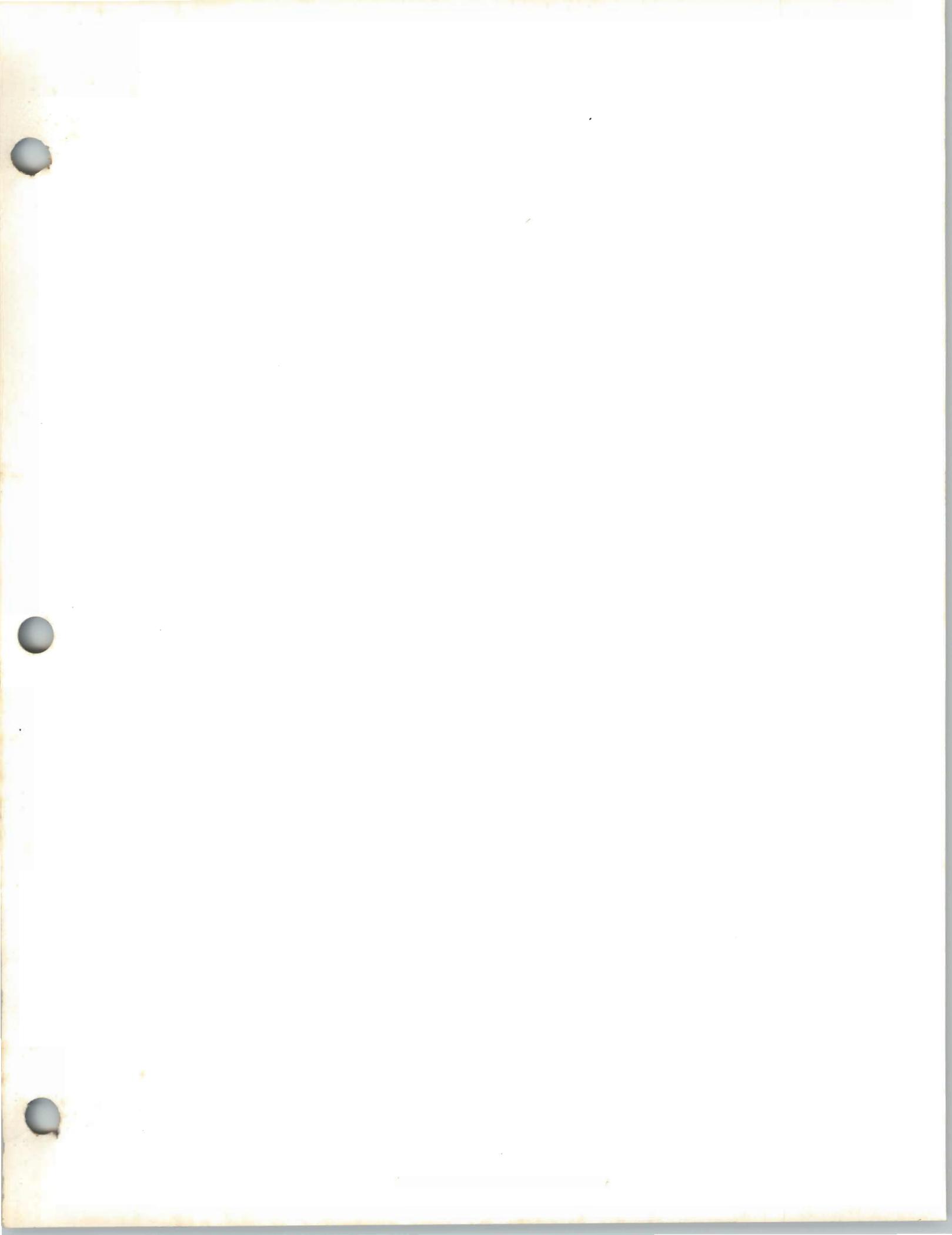
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