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STATISTICAL COLLECTION FILE (SCF) RECORD FORMATS MANUAL.(U)
DEC 77 J BIELSKI, E GRANGER, R ROBERTSON DCA100-73-C-0055

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1 OF 2
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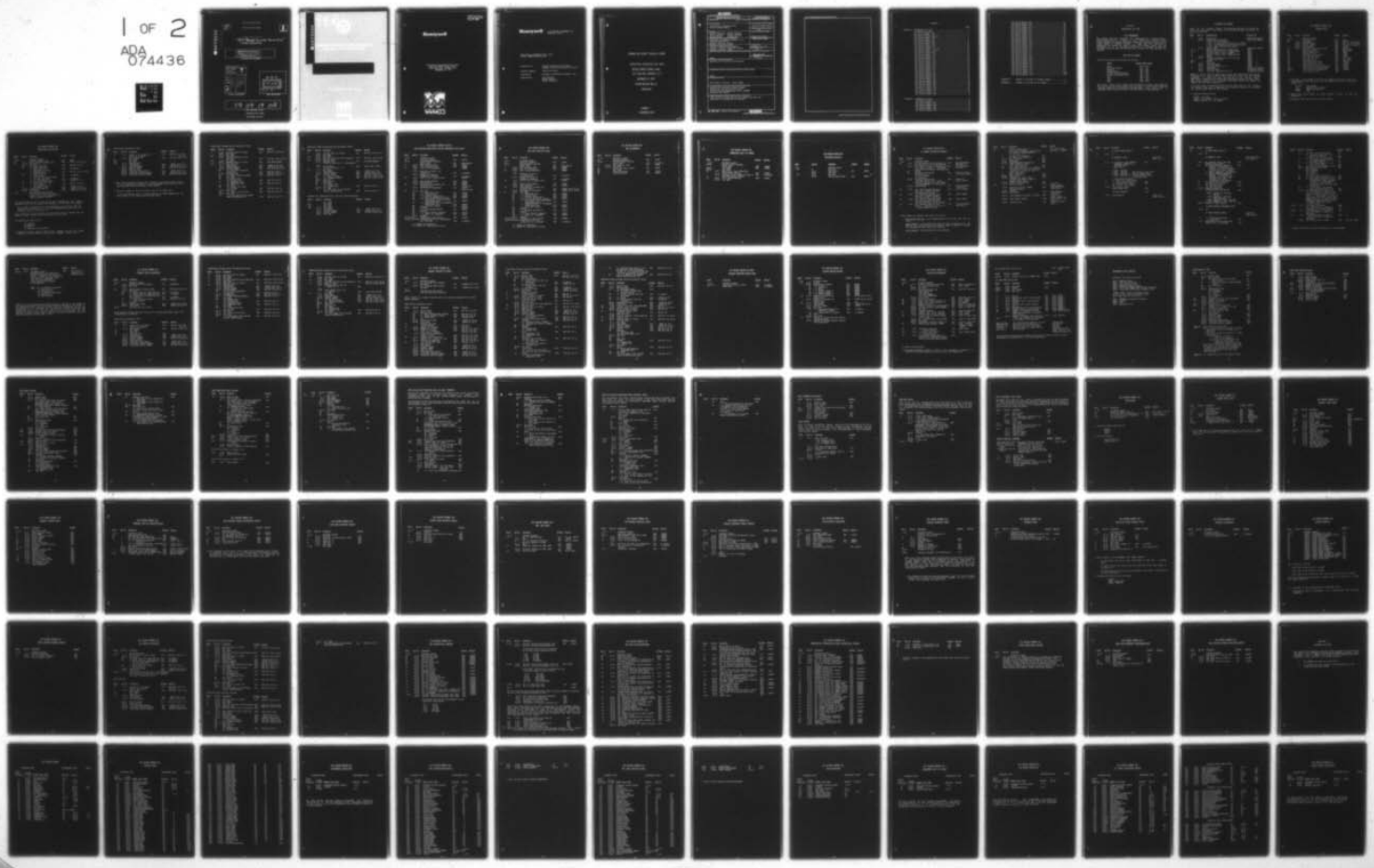

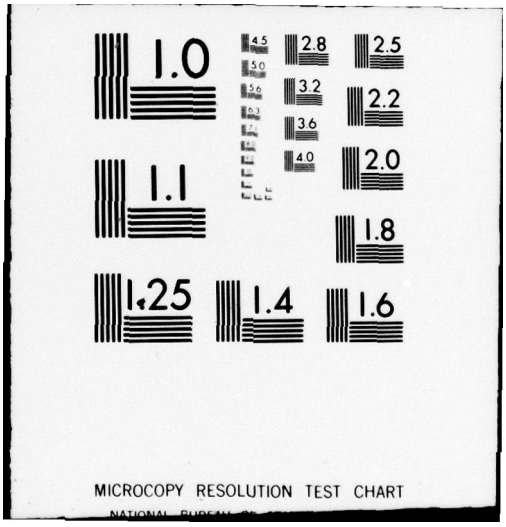
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MICROCOPY RESOLUTION TEST CHART

DATA PROCESSING SHEET

PHOTOGRAPH THIS SHEET

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STATISTICAL COLLECTION FILE (SCF)
RECORD FORMATS MANUAL FINAL
CCTC TASK 626, SUBTASK 2 & 3
DECEMBER 22, 1977

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CCTC TASKING STATEMENT 626
SUBTASK 2 and 3

STATISTICAL COLLECTION FILE (SCF)
RECORD FORMATS MANUAL FINAL

Prepared For:	Defense Communications Agency Command and Control Technical Center
Contract Number:	DCA100-73-C-0055
Contractor:	Honeywell Information Systems, Inc.
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COMMAND AND CONTROL TECHNICAL CENTER

STATISTICAL COLLECTION FILE (SCF)

RECORD FORMATS MANUAL FINAL

CCTC TASK 626, SUBTASK 2 & 3

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

General SCF Expansion Program (GSEP)
Statistical Collection File (SCF)
World Wide Data Management System (WWDMS)
Expanded SCF (XPSCF)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This manual provides the record formats for both the expanded and unexpanded SCF records.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

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CONTENTS

SECTION 1

UNEXPANDED SCF DATA

SCF MANAGEMENT

New system functions scheduled for implementation in Release WW7.1 require definition of a number of SCF records to perform various accounting/audit functions related to these new elements. Because of the large number of records defined, a scheme has been developed to categorize SCF records by record class. The scheme allows for the definition of up to 350 SCF record types in 10 classes. In addition, allowance has been made for addition and control of user-defined SCF records.

SCF Record Classes

The ten SCF classes are defined as follows:

Class	Record Type Range
Batch	001 - 035
Terminal Session	101 - 135
Security	201 - 235
System Files	301 - 335
System Instrumentation	401 - 435
Process Instrumentation	501 - 535
User	601 - 635
User	701 - 735
User	801 - 835
User	901 - 935

The first digit of the record type represents the class, the remaining two digits are the record number (01-35) within a class. Record type 934 has been temporarily allocated to Release WW6.4. This record will be replaced with a similar record in the 100 series in Release WW7.1.

STANDARD SCF HEADER

Space for the Standard Header, excluding the RCW must be allowed for within the user buffer. The format of the Standard Header excluding the RCW is as follows:

Word	Bit(s)	Description	Entered By	
1	0-17	Record Size	Formatting Module	
	18-20	Continuation Indicator = 000 - No continuation = 010 - A continuation record will follow = 100 - Intermediate Continuation Record = 110 - Last continuation record	Formatting Module	
	21-35	Record Type	Formatting Module	
2- 3		System Identification (USER HOST)	.MSCF	
4- 5		System Identification (SERVER HOST)	.MSCF	
6		Record Creation Date (YYMMDD)	.MSCF	
7		Record Creation Time (CLOCK PULSES)	.MSCF	
8	0-29	SNUMB	.MSCF	*
	30-35	Variable, depending on record type	.MSCF	*
9		Unique Identifier	.MSCF	
10-11		USERID	.MSCF	*
12	0-11	Not Used	.MSCF	*
	12-17	Program Number	.MSCF	*
	18-35	Activity Number as -nn	.MSCF	*
13	0- 5	FNP Number	Formatting Module	
	18-23	Terminal Type	Formatting Module	
	24-35	Terminal Identification *1	Formatting Module	

Words 2 thru 7 will be completed by .MSCF. The remaining words must be completed by the caller. The * indicates values which are not always available to .MSCF and must be entered by the calling module. Specifically identified are GEIN, TSS and FILSYS actions for TSS users. TSS areas complete only the USERID. GEIN must complete the SNUMB, the USERID, and the Unique Identifier.

It is the caller's responsibility to ensure that words in the Standard SCF Header that are not applicable to a specific record or an instance of a given record type are zero-filled.

*1 Terminal Identification

Blank - for GEIN
Valid - for initial record of derail
Remote station ID - for SYSOUT

SCF RECORD NUMBER 001

SYSTEM INPUT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Job origin *1	BCD	GSOUR
15	0-11	IOM number	Bin	SCF for I/O device
	12-23	Channel number	Bin	SCF for I/O device
	24-35	Device number	Bin	SCF for I/O device
16	0-17	Job urgency	Bin	.SURG
	18-35	System Classification Code	BCD	CATFL+14
17		Job start time	Bin	MME GETIME
18		Input record count	Bin	COUNT
19		Memory size *2	Bin	AMSZ
20		Processor time used *3	Bin	.SPRT
21		IOC time for device	Bin	RDOFF
22		IOC time for *J	Bin	PAT table
23		IOC time for J*	Bin	PAT table
24		SCAN Resources card	Bin	SOURCE
25		SCAN Activities card	Bin	TYPACT
26		SCAN Class & Priority	Bin	CLASS1
27		SCAN Processor time required	Bin	LTIME
28		SCAN Core storage required	Bin	LCORE
29-38		Col 16-75 of $ IDENT card	BCD	IDSCAN
39		Job Deletion code	BCD	

*1 Job origin is the SNUMB of the job that spawned this job (if this is a BMC spin-off then job origin will be equal to "$ PALC"). Some other examples are:

CD RDR	Card Reader
T/S	Regular Time Sharing
TSS/S	JOUT Time Sharing
IMCV	Tape

*2 Memory size is the number of words needed by GEIN to load the program(s).

*3 Processor Time Used is time in clock pulses.

SCF RECORD NUMBER 003

PERIPHERAL ALLOCATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0	PRIVITY Request Flag	Bin	9SAF
15	0- 5	Device Type or Action Done	Bin	SCF wd 0 bits 0-5
	6-16	Not used		
	17	=1, File Cataloged	Bin	PAT wd 2 bit 6
	18	=1, Mount Flag for Tape Devices *2	Bin	In memory
		=1, Removable Flag for Disk Devices	Bin	SCF wd 1 bits 13-14
	19	=1, Ready Flag for Tape Devices	Bin	In memory
		=1, Initial size unavailable for Disk Devices	Bin	In memory
		=1, for DAC/SYSOUT Entry	Bin	.SPATP bit 21
	20	=1, Purge Flag for Tape & Disk Devices	Bin	PAT wd 2 bit 17
	21	=1, for SYSOUT, DAC, & Secondary files	Bin	.SPATP bit 21
	22-23	Disposition Code *1	Bin	.SPATP bits 22-23
	24-35	File Code	BCD	.SPATP bits 24-35
16-n		Entries vary per device, the following descriptions; words b to b+3 are repeated for each peripheral device.		

In a multi-activity job, a file with a save disposition will cause a peripheral entry to be created even though it is not used. For example:

> If a file is used with a save disposition in activity 1 and not used again until activity 4, then four peripheral entries will be produced, one for each activity.

This condition occurs because the PAT entries for the "saved" file are present in each activity even though they are not used.

*1 Disposition codes can be:

00 release
01 dismount
10 save
11 continue or DAC/SYSOUT

*2 The Mount Flag is used to indicate the presence of a file serial number in a media control card ($ tape, $ NNNPK, $ PRMFL, etc.).

Tape Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
b	0- 5	Octal 16 is no match *1 Octal 13 is match	Bin	PAT wd 3 bit 5=1 bit 5=0
	6-35	Reel Number *2	BCD	PAT wd 3 bits 6-35
b+1		Not used		
b+2		Not used		
b+3	0- 3	Must be zero		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18-21	Must be zero		
	22-23	Alternate IOM Number	Bin	.CRCTl bits 7-8
	24-29	Alternate Channel Number	Bin	.CRCTl bits 12-17
	30-35	Alternate Device Number	Bin	SCF wd 0 bits 6-11

*1 This field indicates whether the internal and external labels match. If the tape that is mounted is a scratch tape, then the octal 13 is used (without checking external label number).

*2 The reel number is the reel number from the "$ TAPE" card.

If this peripheral entry is created because of a MME GEMORE then the reel number is the number from the tape label.

Fixed Mass Storage Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
b	0-21	Initial size in llinks	Bin	PAT wd 3 bits 0-13
	22-35	Not used		
b+1	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
b+2	0-13	Not used		
	14-35	Maximum size in llinks	Bin	From MME GEFSYE
b+3	0- 3	Must be zero		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18	=1, File has protected allocation	Bin	PAT wd 2 bit 0
	19-23	Catalog hash	Bin	PAT wd 2 bits 1-5
	24	=1, PRMFL catalog present	Bin	PAT wd 2 bit 6
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8
	27	=1, Permanent file =0, Temporary file	Bin	PAT wd 2 bit 9
	28	Not used		
	29	=1, Creator not user =0, Is User	Bin	PAT wd 2 bit 11
	30-31	Not used		
	32	=1, File is I-D-S file	Bin	PAT wd 2 bit 14
	33-34	Not used		
	35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

Removable Mass Storage Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
b	0-21	Initial size in llinks	Bin	PAT wd 3 bits 0-13
	22-35	Not used		
b+1	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
b+2	0-13	Must be zero		
	14-35	Maximum size if bit 17 word 15 = 1 (cataloged)	Bin	From MME GEFSYE
	or			
	0-35	Pack Number if bit 17 word 15 = 0	BCD	Last word in PAT
b+3	0- 3	Not used		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18	=1, Public Access	Bin	SCF wd 1 bits 13-14
	19	=1, Stranger Access	Bin	SCF wd 1 bits 13-14
	20-23	Not used		
	24	Must be one		
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8
	27-34	Not used		
	35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

Datanet 30, Secondary File, and Unit Record Entries

Word	Bit(s)	Contents	Format	Source
b		Not used		
b+1		Not used		
b+2		Not used		
b+3	0- 3	Not used		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18-35	Not used		

SCF RECORD NUMBER 004/012

FMS ALLOCATE/DEALLOCATE SECURE PROTECTED FILE AUDIT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Activity mnemonic	BCD	.SACTY
15-16		System Master Catalog entry name	BCD	From memory
17	0-17	FMS function code	Bin	.HMM2A
	18-35	File classification	BCD	.H2USI
18	0-35 or	Zero if no diagnostic		.HBSUM
	0-17	Position of word 1 of diagnostic	Bin	In memory
	18-35	Number of words of diagnostic message	Bin	In memory
19	0-35 or	Zero if not a secure file		.HPCFP
	0-17	Device SCF address	Bin	.HSSCF
	18-35	Seek address	Bin	.HDCWP
20	0-17	Permissions allowable for allocate only	Bin	.HPERM (bits 0-17)
	18-35	Permissions requested	Bin	.HPERM (bits 18-35)
21	0-17	Not used		
	18	= 1, Duplicate file	Bin	.HPCFP
	19	= 1, Delayed post	Bin	.HPCFP
	20	= 1, Journal protection	Bin	.HPCFP
	21	= 1, File in defective status	Bin	.HPCFP
	22	= 1, Successful write performed deallocate only	Bin	.HPCFP
	23	= 1, Impermissible I/O attempted deallocate only	Bin	.HPCFP
	24	= 1, Conflict control	Bin	.HPCFP
	25	Unused		.HPCFP
	26	= 1, Befores protection	Bin	.HPCFP
	27	Unused		
	28	= 1, Audit denied requests	Bin	.HPCFP
	29	= 1, Audit all requests	Bin	.HPCFP
	30-35	Unused		
22-(22+L-1)		Diagnostic, when present	BCD	.HBSUM
(22+L)-(22+L+M)		Catalog/file string (passwords not included)	BCD	In memory

L = Length of diagnostic
M = Length of catalog/file string

SCF RECORD NUMBER 005

FMS USER FUNCTION AUDIT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Activity mnemonic	BCD	.SACTY
15-16		System Master Catalog entry name	BCD	From memory
17	0-17	FMS function code	Bin	.HMM2A
	18-35	File classification	BCD	.H2USI
18	0-35	Zero if no diagnostic		.HBSUM
	or			
	0-17	Position of word 1 of diagnostic	Bin	In memory
	18-35	Number of words of diagnostic message	Bin	In memory
19	0-35	Zero if not a secure file		.HPCFP
	or			
	0-17	Device SCF address	Bin	.HSSCF
	18-35	Seek address	Bin	.HDCWP
20	0-17	Permissions allowable for allocate only	Bin	.HPERM (bits 0-17)
	18-35	Permissions requested	Bin	.HPERM (bits 18-35)
21	0-17	Not used		
	18	= 1, Duplicate file	Bin	.HPCFP
	19	= 1, Delayed post	Bin	.HPCFP
	20	= 1, Journal protection	Bin	.HPCFP
	21	= 1, File in defective status	Bin	.HPCFP
	22	= 1, Successful write performed, deallocate only	Bin	.HPCFP
	23	= 1, Impermissible I/O attempted, deallocate only	Bin	.HPCFP
	24	= 1, Conflict control	Bin	.HPCFP
	25	Unused		
	26	= 1, Befores protection	Bin	.HPCFP
	27	Unused		
	28	= 1, Audit denied requests	Bin	.HPCFP
	29	= 1, Audit all requests	Bin	.HPCFP
	30-35	Unused		
22-(22+L-1)		Diagnostic, when present	BCD	.HBSUM
(22+L)-(22+L+M)		Catalog/file string (passwords not included)	BCD	In memory

L = Length of diagnostic
M = Length of catalog/file string

SCF RECORD NUMBER 006

FMS ACCOUNTING

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Activity mnemonic	BCD	.SACTY
15-16		System Master Catalog entry name	BCD	In memory
17	0-17	FMS Function code	Bin	.HMM2A
	18-35	Not used		
18		Space and Time Product	Bin	.H6STP
19		Not used		
20		Total Resources	Bin	.H6PUS
21		Resources Used	Bin	.H6RUS

SCF RECORD NUMBER 007

PERMANENT FILE I/O ERROR

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14-15		System Master Catalog entry name	BCD	.H6MTR
16-17		File name	BCD	.H2FNM
18-21		Not used		
22	0-17	Device SCF type 2 FMS file description record	Bin	.HDCWP
	18-35	Absolute block number of type 2 FMS description record	Bin	In memory
23	0-17	File classification	BCD	.H2USI
	18-35	Not used		

SCF RECORD NUMBER 008

FMS ERROR DETECTION

WORD	BIT(S)	CONTENTS	FORMAT	SOURCE
1-13		Standard header		
14	0	Not used		
	1-11	Error code	Bin	HTEMP
	12-35	Not used		
15	0-17	Not used		
	18-35	Device logical name	BCD	HCDEV

SCF RECORD NUMBER 009

I/O ERROR ACCOUNTING RECORD

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-17	No. of errors on this device *1 including this I/O since Startup.	Bin	From Secondary SCF Word 3
	18-23	No. errors in last n connects to this device, where n = threshold count for this device (normally 64)	Bin	From Secondary SCF Word 3
	24	Unused		
	25	Exception Processing override flag =0, no override =1, override	Bin	From (11 Word) I/O entry, Word 2
	26-29	Exception Processing override option (For a more complete explanation, see DB82A, I/O programming, P.3-9 thru 11.)	Bin	From I/O Entry, Word 2
	30-35	Device Type	Bin	From Secondary SCF Word 0
15	0-35	No. 1/64 millisecond units that have elapsed between midnight and startup.	Bin	From .CRDAT+1
16	0-35	No. 1/64 millisecond units that have elapsed between startup and this interrupt	Bin	From .CRMB4
17	0-35	No. 1/64 millisecond units that have elapsed between startup and the time of connect.	Bin	From .CRI02
18	0-35	No. connects made on this device - including this I/O *1 - since system startup.	Bin	From Secondary SCF Word 2

*1 The number of connects and number of errors:

- Unit Record Devices - are accummulated from the time the PAT is built.
- Tape Devices - are accumulated since the last allocation of the device for the particular job. Where a tape is saved, the counts are accumulated over several activities.
- Disk Devices - are accumulated since startup.

Word	Bit(s)	Contents	Format	Source
19		STATUS RETURN WORD 1 (For a more complete explanation, see DB82A, I/O Programming, P. 3-11 thru 13.)		From IOM mailbox (By way of .CRMB3)
	0	Termination indicator	Bin	
	1	=1, Power off condition	Bin	
	2- 5	Major status	Bin	
	6-11	Substatus	Bin	
	12-14	File Management Supervisor (FMS) status returns	Bin	
	15	Lost interrupt bit	Bin	
	16	Interrupt indicator (=1, status returned as result of initiation interrupt, if bits 15 & 16 = 1, lost interrupt)	Bin	
	17	Abort indicator	Bin	
	18-23	IOM status	Bin	
	24-29	Address ext. bits (only system with memory capacity greater than 256K)	Bin	
	30-35	Record count residue	Bin	
20	0- 5	Device Command	Bin	From I/O entry, Word 7
	6-11	Device # (=0 for single device channel)	Bin	From Secondary SCF Word 0
	12-15	Unused		
	16-17	IOM number	Bin	From Channel SCF Word 0
	18-23	IOM command (If=40(8), for MPC)	Bin	From I/O entry, Word 7
	24-29	IOM Channel Number	Bin	From channel SCF Word 0
	30-35	Record count	Bin	From I/O entry, Word 7

Word	Bit(s)	Contents	Format	Source
		IF UNIT RECORD DEVICE -		
21	0-35	=0		
		IF MAGNETIC TAPE -		From PAT Body, Word 3
	0- 3	File density code (MTS500, MTU0400, MTU0500, or MTU0600 only) = 000, As is	Bin	
		= 0001, 200 BPI = 0010, 556 BPI Non return to Zero and = 0100, 800 BPI Invert (NRZI) mode = 1001, 1600 BPI PE (Phase-Encoded) mode, nine-track only = 1111, System default		
	4	=1, Tape file allocated as tape interchange file	Bin	
	5	=0, If true reel number =1, If FSN = reel number	Bin	
	6-35	File serial number from $ TAPE card	BCD	
		IF MASS STORAGE -	Bin	
	0-35	Seek address		From I/O Entry, Word 4

Word	Bit(s)	Contents	Format	Source
22		IF UNIT RECORD DEVICE -		
	0-35	=0		
		IF MAGNETIC TAPE -		From Secondary SCF, Word 1
	0-17	No. Records since last EOF signed binary value	Bin	
	18	=0, And if MTS500, MTU0400, MTU0500, or MTU0600, the handler is in the Nonreturn to Zero and Invert (NRZI) mode; otherwise, low density. =1, And if MTS500, MTU0400, MTU0500, or MTU0600, the handler is in the Phase-encoded (PE) mode; otherwise, high density.	Bin	
	19	=0, No EOT since rewind =1, EOT since rewind	Bin	
	20	=0, Position good =1, Position lost	Bin	
	21-24	Density capability configuration information = 0001, Capable of 500,556, 800 bpi = 0100, Capable of 200,556, 800, 1600 bpi = 1001, Capable of 556, 800 bpi = 1000, Capable of 800, 1600 bpi	Bin	
	25-35	Number of EOFs passed	Bin	
		IF MASS STORAGE TEMPORARY FILE -		
	0-35	=0		
		IF MASS STORAGE PRMFL -		From PAT Body, Word 2
	0	=1, File has protected allocation	Bin	
	1- 5	Hash code of user name under which file is cataloged	Bin	

Word	Bit(s)	Contents	Format	Source
	6	=1, File is not cataloged	Bin	
	7	=1, Last descriptor for file was not in memory	Bin	
	8	=1, Access to file is random	Bin	
	9	=1, File space is permanently assigned (PRMFL)	Bin	
	10	=1, First descriptor for file was not in memory	Bin	
	11	=1, User is not creator of file	Bin	
	12-13	Abort disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin	
	14	=1, File is an I-D-S/I file	Bin	
	15	=1, Write was performed on file	Bin	
	16	=1, Unpermitted access to file attempted or Seek attempted to part of file marked defective (only for protected allocation)	Bin	
	17	=1, File space to be purged before deallocating file	Bin	
	18-35	If cataloged file, sector no. of file catalog (on device with SCF referenced in word 0 of PAT body). If cataloged file that is protected (bit 0 ON in this word), memory location of table in File Management Supervisor Executive. If system temporary PRMFL, = 777777 octal.	Bin	
23-24	0-71	User Name of Creator or = All blanks if unable to determine or N/A (not PRMFL)	BCD BCD	*
25-26	0-71	File name or = all blanks if N/A (not PRMFL) or unable to determine	BCD	*
27	0-17	File classification code or = blanks if N/A or unable to determine	BCD	*
	18-35	No. words in ext. status	Bin	Set by .MIOS

* These fields have not been implemented in release WW6.4.

Word	Bit(s)	Contents	Format	Source
28-33	0-35	Extended status - Extended status in eight-bit bytes (nine bytes per two-word entry). Bytes are left-justified with zero fill used for bytes that are not meaningful. Bytes should be displayed in hexadecimal. NOTE - For an MTU0600 subsystem, n = maximum of 6 (26 8-bit bytes). For an MSU0450 subsystem, n = maximum of 2 (8 8-bit bytes).	Bin	From buffer in appropriate channel module

There are a few instances where records may be lost due to the nature of the operating system. GCOS processing cannot be stopped in the middle of the processing of an interrupt. Record type 009 is produced during the processing of an interrupt for an I/O error. If the record type 009 cannot be written (i.e. - the SCF buffers are full and waiting for the operator to mount another tape), then the interrupt processing continues and the recording of the error is lost.

SCF RECORD NUMBER 010

DYNAMIC MEDIA ALLOCATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-17	Number of 1024-wd Blocks	Bin	.STEMP+10
	18-35	Not used		
	or			
14	0- 5	Device Type or Action Done	Bin	SCF wd 0 bits 0-5
	6-17	Not used		
	18	=1, Mount Flag for Tape Devices	Bin	In memory
	19	=1, Ready Flag for Tape Devices	Bin	In memory
		=1, Initial size unavailable for Disk Devices	Bin	In memory
	20	=1, Purge Flag for Tape & Disk devices	Bin	PAT wd 2 bit 17
	21	Unused		
	22-23	Disposition Code	Bin	.SPATP bits 22-23
	24-35	File Code	BCD	.SPATP bits 24-35
15-18		Entries vary per device		

This record is always 18 words long and it is generated EACH time a file is dynamically allocated.

Tape Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
15	0- 5	Octal 16 is no match Octal 13 is match	Bin	PAT wd 3 bit 5=1 bit 5=0
	6-35	Reel Number	BCD	PAT wd 3 bits 6-35
16		Not used		
17		Not used		
18	0- 3	Must be zero	Bin	
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18-21	Must be zero		
	22-23	Alternate IOM Number	Bin	.CRCTl bits 7-8
	24-29	Alternate Channel Number	Bin	.CRCTl bits 12-17
	30-35	Alternate Device Number	Bin	SCF wd 0 bits 6-11

Fixed Mass Storage Device Peripheral Entries

Word	Bit(s)	Contents	Format	Source
15	0-21	Initial size in llinks	Bin	PAT wd 3 bits 0-13
	22-35	Not used		
16	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
17	0-13	Not used		
	14-35	Maximum size in llinks	Bin	PAT wd 2 bits 18-35
18	0- 3	Must be zero		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18	=1, File has protected allocation	Bin	PAT wd 2 bit 0
	19-23	Catalog hash	Bin	PAT wd 2 bits 1-5
	24	=1, PRMFL catalog present	Bin	PAT wd 2 bit 6
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8
	27	=1, Permanent file =0, Temporary file	Bin	PAT wd 2 bit 9
	28	Not used		
	29	=1, Creator not user =0, Is user	Bin	PAT wd 2 bit 11
	30-31	Not used		
	32	=1, File is I-D-S file	Bin	PAT wd 2 bit 14
	33-34	Not used		
	35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

Removable Mass Storage Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
15	0-21	Initial size in llinks	Bin	PAT wd 3 bits 0-13
	22-35	Not used		
16	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
17	0-13	Must be zero		PAT wd 2 bits 18-35
	14-35	Maximum size if bit 18 word 14 = 0	Bin	
	or			
	0-35	Pack number if bit 18 word 14 = 1	BCD	Last word in PAT
18	0- 3	Not used		
	4- 5	IOM number	Bin	.CRCTl bits 7-8
	6-11	Channel number	Bin	.CRCTl bits 12-17
	12-17	Device number	Bin	SCF wd 0 bits 6-11
	18	=1, Public Access	Bin	SCF wd 1 bits 13-14
	19	=1, Stranger Access	Bin	SCF wd 1 bits 13-14
	20-23	Not used		
	24	Must be one		
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8
	27-34	Not used		
	35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

SCF RECORD NUMBER 011

DYNAMIC RELEASE OF MEDIA

Word	Bit(s)	Contents	Format	Source
1-13		Standard Header		
14	0-17	No. of words lower memory released	Bin	.STEMP+10 bt 0-17
	18-35	No. of words upper memory released	Bin	.STEMP+10 bt 18-35
or				
14-19		Entries vary per device see following descriptions.		

This record is always 19 words long. One record is generated for EACH media released.

Tape Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
14	0- 5	Device type	Bin	SCF wd 0 bt 0-5
	6-17	Must be zero		
	18	=1, Mount instruction issued	Bin	PAT wd 2 bt 18
	19	=1, Ready message issued	Bin	PAT wd 2 bt 19
	20	=1, Purge done	Bin	.SPATP bt 20
	21	=0		
	22-23	Disposition code	Bin	.SPATP bt 22-23
	24-35	File code	BCD	.SPATP bt 24-35
15		Channel use time (milliseconds)	Bin	PAT wd 1
16	0-23	Number of connects	Bin	SCF wd 1
	24-35	Number of errors	Bin	SCF wd 3 bt 18-23
17	0- 5	Octal 13 if match	Bin	PAT wd 3 bt 5=1
		Octal 16 if no match		PAT wd 3 bt 5=0
	6-35	File serial number/reel number in BCD	BCD	PAT wd 3 bt 6-35
18	0-17	Ending record position	Bin	SCF wd 1 bt 0-17
	18	Density (=1, high; =0, low)	Bin	SCF wd 0 bt 14
	19-35	Ending file position	Bin	SCF wd 1 bt 25-35
19	0	=1, Series 2000 tape	Bin	PAT wd 3 bt 4
	1- 3	Must be zero		
	4- 5	IOM number	Bin	.CRCT1 bt 7-8
	6-11	Channel number	Bin	.CRCT1 bt 12-17
	12-17	Device number	Bin	SCF wd 0 bt 0-5
	18-21	Must be zero		
	22-23	Alternate IOM number	Bin	.CRCT1 bt 7-8
	24-29	Alternate channel number	Bin	.CRCT1 bt 12-17
	30-35	Alternate device number	Bin	SCF wd 0 bt 0-5

Fixed Mass Storage Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
14	0- 5	Device type	Bin	SCF wd 0 bt 0-5
	6-17	Must be zero		SCF wd 1 bt 13-14
	18	=0, Fixed media		
	19	=1, Actual initial size not available	Bin	In memory
	20	=1, Purge done	Bin	.SPATP bt 20
	21	=1, Actual final size not available	Bin	In memory
	22-23	Disposition code	Bin	.SPATP bt 22-23
	24-35	File code	BCD	.SPATP bt 24-35
15		Channel use time (milliseconds)	Bin	PAT wd 1
16	0-21	Initial size in llinks	Bin	PAT wd 3 bt 0-13
	22-35	Final relative llink	Bin	PAT wd 4n
17	0- 7	Continuation of final relative llink	Bin	PAT wd 4n
	8-13	Must be zero		
	14-35	Initial relative llink position	Bin	PAT wd 3 bt 14-35
18	0-13	Must be zero		
	14-35	Maximum size in llinks	Bin	PAT wd 2 bt 18-35
19	0- 3	Must be zero		
	4- 5	IOM number	Bin	.CRCTl bt 7-8
	6-11	Channel number	Bin	.CRCTl bt 12-17
	12-17	Device number	Bin	SCF wd 0 bt 0-5
	18	=1, File has protected allocation	Bin	PAT wd 2 bt 0
	19-23	Catalog hash-number/zero	Bin	PAT wd 2 bt 1-5
	24	Catalog =0, Catalog present (PRMFL) =1, Catalog not present (PRMFL)	Bin	PAT wd 2 bt 6
	25	Not used		
	26	Random =1, Random file =0, Linked file	Bin	PAT wd 2 bt 8
	27	Perm =1, Permanent file =0, Temporary file	Bin	PAT wd 2 bt 9
	28	Not used		
	29	Creator user of file =1, This user not creator of this file =0, This user is creator of this file	Bin	PAT wd 2 bt 11
	30-31	Not used		
	32	I-D-S file =1, File is an I-D-S file =0, File is not an I-D-S file	Bin	PAT wd 2 bt 14
	33	Write =1, Write performed on permanent file	Bin	PAT wd 2 bt 15

	34	=1, Unpermitted access to file attempted or seek attempted to part of file marked defective (only for protected allocation)	Bin	PAT wd 2 bt 16
	35	=1, File space to be purged before deallocating file	Bin	PAT wd 2 bt 17

Removable Mass Storage Device Peripheral Entry

Word	Bit(s)	Contents	Format	Source
14	0- 5	Device type	Bin	SCF wd 0 bt 0-5
	6-17	Must be zero		
	18	=1, Removable media =0, If used as fixed mass storage device	Bin	
	19	=1, Actual initial size not available	Bin	In memory
	20	=1, Purge	Bin	.SPATP bt 20
	21	=1, Actual final size not available	Bin	In memory
	22-23	Disposition code	Bin	.SPATP bt 22-23
	24-35	File code	BCD	.SPATP 24-35
15	0-35	Channel use time (milliseconds)	Bin	PAT wd 1
16	0-21	Initial size in llinks	Bin	PAT wd 3 bt 0-13
	22-35	Final relative llink	Bin	PAT wd 4n
17	0- 7	*Continuation of final* relative llink	Bin	PAT wd 4n
	8-13	Must be zero		
	14-35	Initial relative llink position	Bin	PAT wd 3 bt 14-35
18	0-13	Must be zero		
	14-35	Maximum size in llinks	Bin	PAT wd 2 bt 18-35
19	0	Must be zero		
	1- 3	Not used		
	4- 5	IOM number	Bin	.CRCTl bt 7-8
	6-11	Channel number	Bin	.CRCTl bt 12-17
	12-17	Device number	Bin	SCF wd 0 bt 0-5
	18	Public	Bin	SCF wd 0 bt 13
	19	Stranger =1, Stranger file =0, Not a stranger file	Bin	SCF wd 0 bt 14
	20-23	Not used		
	24	=1		
	25	Not used		
	26	Random =1, Random file =0, Linked file	Bin	PAT wd 2 bt 8
	27-32	Not used		
	33	Write =1, Write performed on permanent file	Bin	PAT wd 2 bt 15
	34	Not used		
	35	=1, File space to be purged before deallocating file	Bin	PAT wd 2 bt 17

SCF RECORD NUMBER 013/404

PROGRAM SNAPSHOT/SYSTEM DUMP

Word	Contents	Format	Source
1-13	Standard header		
14-(n-1)	Formatted printer output	BCD	In memory
n	Slew code	BCD	In memory

SCF RECORD NUMBER 014

SYSOUT REPORT WRITER

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-29	Unused		
	30-35	Destination Summary	Bin	SNUMB
	30	= 1, Printer	Bin	SNUMB
	31	= 1, Remote J*	Bin	SNUMB
	32	= 1, Punch	Bin	SNUMB
	33	= 1, Remote number 1	Bin	SNUMB
	34	= 1, Remote number 2	Bin	SNUMB
	35	= 1, Remote number 3	Bin	SNUMB
15	0-11	Number of reports for destination	Bin	VOLUM (bits 0-17)
	12-35	Number of records for destination	Bin	VOLUM (bits 18-35)
16	0- 5	Device type	Bin	SCF
	6- 7	IOM number	Bin	.MSECR mod wd 20
	8-13	Channel number	Bin	.CRCTl
	14-17	Not used		
	18	= 1, Last destination for SYSOUT for SNUMB	Bin	In memory
	19	= 1, Destination is remote	Bin	In memory
	20	Zero		
	21-35	Not used		
17	0-11	Number of transliterated reports for destination		
	12-35	Number of transliterated records for destination		

SCF RECORD NUMBER 015

ACTIVITY ACCOUNTING

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-17	System Classification Code	BCD	From *J (word 46)
	18	=1, Direct-access job	BCD	From .SREMT
	19-20	Not used		
	21-23	End of Activity type =000 MME GEFINI =001 FAULT =010 MME GEBORT =011 KILL/TERM/STOP	Bin	From SPA (word 11)
	24-35	Abort code	BCD	From SPA (word 11)
15	0-35	Activity mnemonic	BCD	From .SACTY
16	0-35	Start time (clock pulses) *1	Bin	From .START
17	0-35	Stop time (clock pulses) *1	Bin	By .GTIME
18	0- 5	Memory Urgency	Bin	From *J (word 47)
	6-17	Number of activity compressions	Bin	From *J (word 892)
	18-23	Current Urgency (after MSCAN)	Bin	From *J (word 47)
	24-29	Not Used		
	30-35	Initial urgency	Bin	From *J (word 47)
19	0-17	SYSOUT limit (# of records)	Bin	From .SSYOT
	18-35	SYSOUT count (# of records)	Bin	From .SSYOT
20	0-11	Initial no. of memory blocks (512) words)	Bin	From *J (word 939)
	12-14	No. of SSA blocks (512 words)	Bin	From *J (word 939)
	15-17	Not used		
	18-35	Allocation sequence number *2	Bin	From *J (word 51)
21	0-35	Memory-time product (K*MS)	Bin	From ((.CRTOD-.SPRT+1)*.SMSZ)+.SAVE
22	0-35	Processor time used (clock pulses)	Bin	From .SPRT
23	0-35	Processor time limit (clock pulses)	Bin	From .SPRT+.SALT
24	0-35	Binary word count equal to location of peripheral/report entry tally word minus 24(10).	Bin	

*1 Time since midnight.

*2 Allocation Sequence Number is used by the peripheral allocator to identify the queue sequence of this job for its allocation.

For Normal Batch Activities — From *J (words 940-949)

Word	Bit(s)	Contents	Format	Source
25-34	0-35	Columns 13-72 of $ IDENT card	BCD	

For DRL TASK Activities

Word	Bit(s)	Contents	Format	Source
25	0-35	All ones		
26-27	0-35	USERID	BCD	
28-33	0-35	All zeroes		
34	0-35	All ones		
35	0- 5	Device	Bin	From .SGCPA
	6-35	MME GECALL time (clock pulses)	Bin	From .SGCPA+1
36	0- 5	Device	Bin	From .SPDPA
	6-35	Pushdown time (clock pulses)	Bin	From .SPDPA+1
37	0- 5	Device	Bin	From .SSAPA
	6-35	SSA I/O time (clock pulses)	Bin	From .SSAPA+1
38	0- 5	Device	Bin	From .SGNPA
	6-35	MME GESYOT time (clock pulses)	Bin	From .SGNPA+1
39	0-35	Swapout time (clock pulses)	Bin	From .SSWAP+2
40	0-17	Number of peripheral entries RVMBL pack entries (-4 console PAT entries.)	Bin	From .SNPAT+#STRUC
	18-35	Number of SYSOUT report entries	Bin	From .SSYOT+2
41-n		Either user-supplied information or peripheral file entries		
Word 41 thru Word 40+x(6) (x=count in Word 40 - bits 0-17.)		Six word entries whose no. varies the count of the entries is Word 40 (bits 0-17) and they describe the file usage during the activity.		Sources for peripheral entries include - PAT pointer, PAT body, 2nd SCT, and CSTAK entries on *J.

User-supplied words should be added after word 39, and the count in word 24 should be incremented by 1 for each added word.

PERIPHERAL FILE ENTRIES

Currently 10 types of entries

PE01 - Magnetic Tape
PE02 - Unit Record Device
PE03 - Mass Storage Device
PE04 - Removable Mass Storage
PE05 - Structured RMVBL Mass Storage (General)
PE06 - Structured RMVBL Mass Storage (Pack)

(NOTE - This entry is unique in that it is the only record which may occur more than once for each file.)

PE07 - DATANET 30/305/355 Processor
PE08 - SYSOUT
PE09 - DAC
PE10 - Secondary File

PE01 Magnetic Tape

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-17	Must be zero	
	18	=1, Mount instruction issued See Note #1	Bin
	19	=1, Tape in standby, ready message issued.	Bin
	20	=1, Purge done	Bin
	21	=0	
	22-23	Disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin
	24-35	File code	Bin
b+1	0-35	Channel use time (milliseconds)	Bin
b+2	0-23	Number of connects	Bin
	24-35	Number of errors	
b+3	0-35	See Note #1	
b+4	0-17	Ending record position	Bin
	18	Density (= 1, high; = 0, low)	Bin
	19-35	Ending file position	Bin
b+5	0	=1, Series 2000 tape	Bin
	1- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18-21	Must be zero	
	22-23	Alternate IOM number	Bin
	24-29	Alternate channel number	Bin
	30-35	Alternate device number	Bin

NOTE #1 - Word b+3 has two formats
1) If bit 18 in the first word = 0, then the format is 0-35 = initial file position.
2) If bit 18 in the first word = 1, then the format is
0- 5 octal 13 if match
octal 16 if no match
6-35 File Serial Number or reel number in BCD (left-justified) from $ TAPE card.

- The "mount instruction issued" will not be equal to 1 if there was a request for a scratch tape and one was available (thereby eliminating the need for a mount message).

NOTE #2 - b - Beginning word of peripheral entry.

PE02 Unit Record Device

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-21	Must be zero	
	22-23	Disposition code = 0	BCD
	24-35	File code	Bin
b+1	0-35	Channel use time (milliseconds)	Bin
b+2	0-23	Number of connects	Bin
	24-35	Number of errors	Bin
b+3	0-35	Time of allocation (clock pulses)	Bin
b+4	0-35	Time of deallocation (clock pulses)	Bin
b+5	0- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18-35	Must be zero	

PE03 Mass Storage

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-16	Must be zero	Bin
	17	=1, Actual final size not available. The final size of the permanent file is greater than 2 to the 14th power (16383 llinks).	Bin
	18	=0, Fixed media	Bin
	19	=1, Actual initial size not available. The initial size of the permanent file is greater than 2 to the 14th power (16383 llinks). power (16383 llinks).	Bin
	20	=1, Purge done	Bin
	21	=0	
	22-23	Disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin
	24-35	File code	BCD
b+1	0-35	Channel use time (milliseconds)	Bin
b+2	0-21	Initial size in llinks	Bin
	22-35	Final relative llink	Bin
b+3	0- 7	Continuation of final relative llink	Bin
	8-13	Must be zero	
	14-35	Initial relative llink position	Bin
b+4	0-13	Must be zero	
	14-35	Final size in llinks	Bin
b+5	0- 3	Must be zero	
	4- 5	IOM Number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18	=1, File has protected allocation	Bin
	19-23	Catalog hash-number zero	Bin
	24	Catalog =0, Catalog present (PRMFL) =1, Catalog not present (PRMFL)	Bin
	25	Not used	
	26	Random/linked flag =1, Random file =0, Linked file	Bin
	27	Permanent/temporary flag =1, Permanent file =0, Temporary file	Bin
	28	Not used	

Word	Bit(s)	Contents	Format
	29	Creator user file =1, This user is not creator of this file. =0, This user is the creator of this file.	Bin
	30-31	Not used	
	32	I-D-S/I file =1, File is an I-D-S/I file =0, File is not an I-D-S/I file	Bin
	33	Write =1, Write performed on file	Bin
	34	=1, Unpermitted access to file attempted or seek attempted to part of file marked defective. (only for protected allocation)	Bin
	35	=1, File space to be purged before deallocating file	Bin

PE04 Removable Mass Storage

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-16	Must be zero	
	17	=1, Actual final size not available The final size of the permanent file is greater than 2 to the 14th power (16383 llinks).	Bin
	18	=1, Removable media =0, If used as a fixed mass storage device	Bin
	19	=1, Actual initial size not available. The initial size of of the permanent file is greater than 2 to the 14th power (16383 llinks). file is greater than 2 to the 14th power (16383 llinks).	Bin
	20	=1, Purge done	Bin
	21	=0	
	22-23	Disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin
	24-35	File code	BCD
b+1	0-35	Channel use time (milliseconds)	Bin
b+2	0-21	Initial size in llinks	Bin
	22-35	Final relative llink	Bin
b+3	0- 7	Continuation of final relative llink	Bin
	8-13	Must be zero	
	14-35	Initial relative llink position	Bin
If bit 18 of word 0 is equal to 0 -			
b+4	0-13	Must be zero	
	14-35	Final size in llinks	Bin
	or		
If bit 18 of word 0 is equal to 1 -			
b+4	0-35	Pack number	BCD

Word	Bit(s)	Contents	Format
b+5	0	Must be zero	
	1- 3	Not used	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device Number	Bin
	18	Public	Bin
	19	Stranger = 1, Stranger file = 0, Not a stranger file	Bin
	20-23	Not used	
	24	= 1	
	25	Not used	
	26	Random/linked flag = 1, Random file = 0, Linked file	Bin
	27-32	Not used	
	33	Write = 1, Write performed on permanent file	Bin
	34	Not used	
	35	= 1, File space to be purged before deallocating file	Bin

PE05 Structured Removable Mass Storage (GENERAL)

Structured removable file entries are unique in that there are multiple six-word entries. One six-word entry consists of general file information and there is one six-word entry (PE06) for each pack on which the file resides.

The multiple six-word entries can be grouped by file code and can be distinguised from other removable mass storage peripheral file entries by bit zero in word +5.

Word	Bit(s)	Contents	Format
b	0- 5	Device code	Bin
	6-16	Not used	
	17	= 1, Pack had to be mounted for this activity = 0, Pack already on line	Bin
	18	= 1, RMVBL	Bin
	19	= 1, Actual initial size not available. The initial size of the permanent file is greater than 2 to the 14th power (16383 llinks).	Bin
	20	= 1, Purge	Bin
	21	Must be zero	
	22-23	Disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin
	24-35	File code	BCD
b+1	0-35	Channel use time (milliseconds)	Bin
b+2	0-21	Initial size in llinks	Bin
	22-35	Final relative llink; contains NA (Not available) in BCD if the required descriptor is not in memory at termination.	Bin
b+3	0- 7	Continuation of final relative llink.	Bin
	8-13	Must be zero	
	14-35	Initial relative llink position	Bin
b+4	0-13	Must be zero	
	14-35	Final size in llinks	Bin
b+5	0	= 1, PRMFL	Bin
	1- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number } For the device	Bin
	12-17	Device number } with the file catalog.	Bin
	18	= 1, File has protected allocation	Bin

Word	Bit(s)	Contents	Format
	19-23	Catalog hash-number zero	Bin
	24	Catalog = 0, Catalog present (PRMFL) = 1, Catalog not present (PRMFL)	Bin
	25	Not used	
	26	Random/linked flag = 1, Random file = 0, Linked file	Bin
	27	Permanent/temporary flag = 1, Permanent file = 0, Temporary file	Bin
	28	Not used	
	29	Creator user file = 1, This user is not creator of this file. = 0, This user is the creator of this file.	Bin
	30-31	Not used	
	32	I-D-S/I file = 1, File is an I-D-S/I file = 0, File is not an I-D-S/I file	Bin
	33	Write = 1, Write performed on permanent file.	Bin
	34	= 1, Unpermitted access to file attempted or seek attempted to part of file marked defective. (only for protected allocation)	Bin
	35	= 1, File space to be purged before deallocating file.	Bin

PE06 Structured Removable Mass Storage (Pack)

This peripheral file entry contains pack information and is written for each pack on which the file resides. It may occur more than once for each file and follows the Structured Removable Mass Storage General Information entry (PE05).

Word	Bit(s)	Contents	Format
b	0- 5	Device code (must be the same as the PE05 peripheral file entry that immediately precedes this one).	Bin
	6-16	Not used	
	17	Media = 1, Media had to be mounted	Bin
	18	= 1, RMVBL	Bin
	19	Not used	
	20	= 1, Purge	Bin
	21	Must be zero	
	22-23	Disposition code 00 = Release 01 = Dismount 10 = Save 11 = Continue	Bin
	24-35	File code	BCD
b+1-3	0-35	Unused, currently zero	
b+4	0-35	Pack number	BCD
b+5	0	= 1, PRMFL	Bin
	1- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18	= 1, File has protected allocation	Bin
	19-23	Catalog hash-number zero	Bin
	24	Catalog = 0, Catalog present (PRMFL) = 1, Catalog not present (PRMFL)	Bin
	25	Not used	
	26	Random/linked flag = 1, Random file = 0, Linked flag	Bin
	27	Permanent/temporary flag = 1, Permanent file = 0, Temporary file	Bin
	28	Not used	
	29	Creator user file = 1, User is not creator of file = 0, User is the creator of file	Bin
	30-31	Not used	
	32	I-D-S/I file = 1, File is an I-D-S/I file = 0, File is not an I-D-S/I file	Bin

Word	Bit(s)	Contents	Format
	33	Write = 1, Write performed on perm file	Bin
	34	= 1, Unpermitted access to file attempted or seek attempted to part of file marked defective (only for protected allocation)	
	35	= 1, File space to be purged before deallocating file.	Bin

PE07 DATANET Processors

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-23	Must be zero	
	24-35	File code	BCD
b+1	0-35	Channel use time (milliseconds)	Bin
b+2-4	0-35	Random data	
b+5	0- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18-35	Must be zero	

PE08 SYSOUT

This six-word peripheral detail entry can be recognized by bit 21 of word 0 = 1 (bit 21 will be zero for normal files, peripheral entries PE01 thru PE07). Bit 2 of word 0 (=0) distinguishes it from DAC entries (PE09). Bits 22 and 23 of word 0 (=11) distinguishes it from secondary file entries (PE10).

Word	Bit(s)	Contents	Format
b	0- 1	Type of entry = 00, Default entry = 01, $ REMOTE entry = 10, $ SYSOUT entry	Bin
	2	= 0	
	3- 5	Not used (Random Data)	
	6-17	Destination identifier	Bin
	18-20	= Zero	
	21	= 1, Indicates SYSOUT, DAC or Secondary File Entry	Bin
	22-23	= 11	
	24-35	= File code	BCD
b+1-5	0-35	= 0	

PE09 DAC Entry

This entry can be recognized by bit 21 of word 0 = 1 (bit 21 will be zero for normal files, peripheral entries PE01 thru PE07). Bit 2 of word 0 = 1 distinguishes this record from SYSOUT (PE08) entries. Bits 22 and 23 of word 0 (=11) distinguishes this entry from secondary file entries (PE10).

Word	Bit(s)	Contents	Format
b	0- 2	= 001, $DAC entry	
	3- 5	= Not used (Random data)	
	6-11	= 07 (Device Type code signifying conversational device).	
	12-17	= One character code which is obtained from the $DAC card and appended to the SNUMB (to be used as an inquiry name). = Octal 20 (blank) if field not used on $DAC card.	BCD
	18-20	= Zero	
	21	= 1, Indicates DAC, SYSOUT, or Secondary file entry	Bin
	22-23	= 11	
	24-35	= File code	BCD
b+1-5	0-35	= 0	

PE10 Secondary File Entry

Secondary file entries (i.e., where a second file code is used to access the same file within an activity) can be recognized by Bit 21 of word 0 = 1 (bit 21 will be zero for normal files, peripheral entries PE01 thru PE07). Bits 22 and 23 of word 0 = 0 distinguishes this entry from SYSOUT and DAC entries (PE08 and PE09).

Word	Bit(s)	Contents	Format
b	0- 5	Device type	Bin
	6-20	Not used	
	21	= 1, Indicates secondary file, DAC, or SYSOUT entry	Bin
	22-23	= 00	
	24-35	File code	BCD
b+1	0-35	All zeros	
b+2-4		Same as word 2 thru 4 of the applicable device entry	
b+5	0- 3	Must be zero	
	4- 5	IOM number	Bin
	6-11	Channel number	Bin
	12-17	Device number	Bin
	18-35	Must be zero	

REPORT ENTRIES CONTENTS			FORMAT	SOURCE
Word 40+X(6)+1 thru Word 40+X(6)+Y(2) X=count in word 40 (upper) Y=count in word 40 (lower)		Two word entries occurring depending on the count in word 40 (bits 18-35) and following the peripheral file entries. The two word entries are repeated for each SYSOUT report.		From .SSYOT
b	0-17	Media code	BCD	
	18-35	Report code	BCD	
b+1	0- 5	Not used		
	6-17	Station identification	BCD	
	18-35	Number of logical records written to the SYSOUT file during collection	Bin	

SCF RECORD NUMBER 016

JOB DELETE

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Deleting Module name *1	BCD	The entire record
15		Deletion code (if applicable) *2	BCD	is formed
16		No. words in Delete Message	Bin	within .MRGIN
17-n		Delete Message	BCD	

*1 Deleting Module Name may be -

.MRGIN
.MGEIN
.MALC1

*2 Deletion Codes -

.MGEIN Table 56
.MRGIN Table 57

SCF RECORD NUMBER 017

SYSTEM INPUT (DRL)

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Job Origin	BCD	TASK
15		Activity Type	BCD	.SACTY
16	0-17	Job Urgency	Bin	.SURG
	18-35	SCC	BCD	.WWOPM
17		Job Start Time	Bin	MME GETIME
18		Memory Size Requested	Bin	In memory
19		Processor Time Requested	Bin	.SPRT
20-29		$ IDENT value (col 13-72) *1	BCD	.TIIND

*1 The IDENT value is optionally supplied by the user for a .DERAIL TASK. If the user did not supply said IDENT card, then this field is not used.

SCF RECORD NUMBER 101

CONNECT (USER HOST)

Word	Bit(s)	Contents	Format
1-13		Standard header	
14	0- 5	Activity number	Bin
	6-35	User SNUMB	BCD
15	0- 5	Server activity number	Bin
6630		6-35	Server SNUMB BCD
16	0-35	Start time	Bin
17	0-35	Stop time	Bin
18	0-35	Server CPU time	Bin
19	0-30	Computer Identification	BCD
	31-35	Not used	
20-21	0-71	USERID	BCD
22	0- 5	Network status code	Bin
	6-23	Security level	Bin
	24-35	Terminal ID	BCD
23	0-17	User host ID	BCD
	18-35	Server host ID	BCD
24	0-35	User activity type	BCD
25	0-35	Server activity type	BCD
26	0- 8	Message unit size	Bin
	9-35	No. message units sent/received	Bin

SCF RECORD NUMBER 102

CONNECT (SERVER HOST)

Word	Bit(s)	Contents	Format
1-13		Standard header	
14	0- 5	User activity number	Bin
	6-35	User SNUMB	BCD
15	0- 5	Server activity number	Bin
	6-35	Server SNUMB	BCD
16	0-35	Start time	Bin
17	0-35	Stop time	Bin
18	0-35	Server CPU time	Bin
19	0-30	Computer Identification	BCD
	31-35	Not used	
20-21	0-71	USERID	BCD
22	0- 5	Network status code	Bin
	6-23	Security level	Bin
	24-35	Terminal ID	BCD
23	0-17	User host ID	BCD
	18-35	Server host ID	BCD
24	0-35	User activity type	BCD
25	0-35	Server activity type	BCD
26	0- 8	Message unit size	Bin
	9-35	No. message units sent/received	Bin

SCF RECORD NUMBER 104

TERMINAL LOG-ON IDENTIFICATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Time entered system	Bin	
15		DAC program name requested	BCD	.DAC.
16	0	=0, for successful DAC table entry	Bin	TCQENT+1
	1	=0, if terminal originally unlocked	Bin	.TYID. bit 1
	2	=0, if terminal currently unlocked	Bin	.TYID. bit 1
	3	=0, if successful log-on	Bin	.TYID. bit 0
	4-17	Not used		
	18-35	Output classification marking	BCD	TCACC+7 bits 18-35
17	0-17	Word count for $ IDENT image	Bin	Set by program
	18-35	character count for $ IDENT image	Bin	Set by program
18-n		$ IDENT image (col 16-75)	BCD	Memory image

SCF RECORD NUMBER 108

TIME-SHARING SYSTEM ACCOUNTING RECORD

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-35	Time entered system	Bin	.LTALC
15	0-17	No. of terminal characters transmitted (only) /8	Bin	.LSTIO
	18-35	No. of disk I/O requests	Bin	.LSTIO
16	0-35	SCC	BCD	.WWOPM
17	0-35	Core seconds used *1	Bin	.LSTP
18	0-35	Calculated cost	Bin	.LCFIL

1 Core seconds are the (# of 1/2k blocks)(# of adjusted time slices). An adjusted time slice is 17 milliseconds for purposes of this calculation. The number of adjusted time slices is calculated by dividing the 17 milliseconds into total processor time used.

SCF RECORD NUMBER 201

USER HOST SECURITY BREACH

Word	Bit(s)	Contents	Format
1-13		Standard header	
14	0-17	Control	***
	18-35	Security classification code	BCD
15	0-17	Host No. 1	BCD
	18-35	Host No. 2	BCD
16	0-17	Host No. 3	BCD
	18-35	Not used	
17-18		Not used	

SCF RECORD NUMBER 202

SERVER HOST SECURITY BREACH

Word	Bit(s)	Contents	Format
1-13		Standard header	
14	0-17	Control	***
	18-35	Security classification code	BCD
15	0-17	Host No. 1	BCD
	18-35	Host No. 2	BCD
16	0-17	Host No. 3	BCD
	18-35	Not used	
17-18		Not used	

SCF RECORD NUMBER 215

MME .EMM AUDIT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0	=1, if .EMM allowed	Bin	Set by .MFALT
	1-17	MBA	Bin	.CRMBA
	18	=1, if program already in MM when request is made	Bin	Set by .MFALT
	19-35	BER	Bin	.CRMBA
15	0-17	Absolute address of MME .EMM	Bin	.SSTAK + .CRLAL
	18-35	Relative address of MME .EMM	Bin	.SSTAK
16	0-35	Activity type	BCD	From .SACT

SCF RECORD NUMBER 216

FMS MASTER FUNCTION AUDIT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		Activity mnemonic	BCD	.SACTY
15-16		System Master Log entry name	BCD	.H6MTR
17	0-17	FMS function code	Bin	.HMMEA
	18-35	File classification	BCD	.H2USI
18	0-35	Zero, if no diagnostic	Bin	.HBSUM
	or			
	0-17	Position of word 1 of diagnostic	Bin	In memory
	18-35	No. of words of diagnostic message	Bin	In memory
19-n		Diagnostic message	BCD	.HBSUM

SCF RECORD NUMBER 217

MASTER SUBSYSTEM USAGE JOURNAL

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-12	Terminal ID being monitored or Zero		
	13-24	Not used		
	25-30	Function Code	Bin	UP112
	31-35	Sub-function Code or BLANK	Bin	UP112
15-16	0-71	SMC name or BLANK	BCD	UP950
17-18	0-71	USERID of user being monitored or ZERO		
19	0-17	SCC of terminal being monitored or ZERO		
	18-35	SMC of terminal being monitored or ZERO		
20	0-35	Zero if function not TALK or MESS		
	or			
	0-17	ZERO		
	18-35	Number of words in message		
21-n		Message		

SCF RECORD NUMBER 218

TSS SECURITY VIOLATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-35	TSS subsystem name	BCD	.LFILE
15	0-23	Not used		
	24-35	Abort/Reason Code		
16	0-35	User's Security Matrix	Bin	.WWUSM
17	0-35	U-S-I Classification	Bin	.WWUSI
18	0-35	Not used		
19	0-35	Not used		
20-n		Catalog/File String		DRL FILACT

SCF RECORD NUMBER 402

CONSOLE OPERATOR VERBS

Word	Bit(s)	Contents	Format	Source
1-13		Standard header (Console ID is contained in word 13, bits 24-35)		
14	0-3	Unused		
	4-5	IOM number	Bin	
	6-11	Channel number	Bin	
	12-35	Unused		
15	0-17	Number of Words	Bin	
	18-35	Number of Characters	Bin	
16		Operator Verb *1	BCD	
17-18 or 17-28		Argument of Verb Operator Message (If SCFAUD Verb)	BCD Bin	

There are a few instances where records may be lost due to the nature of the operating system. GCOS processing of operator verbs cannot be stopped. Record type 402 is produced during the processing of operator verbs. If the record type 402 cannot be processed (e.g., the SCF buffers are full awaiting the operator to mount an SCF tape), then the processing must continue and the recording of this SCF record will be lost.

*1 The SCFAUD verb has two records produced, one for the original request and a second record containing "AUDMSG" in word 16 as well as the actual message in words 17-28.

SCF RECORD NUMBER 403

PROGRAM START

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14		SNUMB of program starting program described by the Header	BCD	.CRSNB
15		Program number of program starting program described by the header	Bin	X6

SCF RECORD NUMBER 405

TAPE/DISK MOUNT REQUEST AUDIT

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0- 3	Must be zero		
	4- 5	IOM number	Bin	
	6-11	Channel number	Bin	
	12-17	Device number	Bin	
	18-35	Must be zero		
15	0- 5	Not used		
	6-35	Reel/Disk number *1	BCD	In memory
16	0-23	Not used		
	24-35	File code	BCD	From PAT pointer
17	0-35	Requesting function *2		

*1 Reel number is the INTERNAL reel number except:

- If tape label can not be read, then 99999 is used for a scratch tape,
- If tape is part of a multi reel file only the first reel number is retained, or
- If user mount instructions are processed (user mount instructions are NOT recorded).

*2 Requesting function can be either:

.MALC1
.GENC (IMCV tape)
.MMOR1 (GEMORE)

SCF RECORD NUMBER 503

RESTART ACCOUNTING

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14-16		"Restart Record 00n" n = 1, for normal restart	BCD	In memory

SCF RECORD NUMBER 504

SYSTEM COUNTERS

Word	Bit(s)	Contents	Format
1-13		STANDARD HEADER	
14-17		.CRIDT - PROCESSOR IDLE TIME	Bin
18		.CROVH - ACCUMULATED OVERHEAD TIME *1	
19		.CRTAL - TOTAL ACTIVITIES	Bin
20		.CRTCN - TOTAL CONNECTS	Bin
21		.CRIOS - TOTAL DISPATCHES	Bin
22		.CRTIR - TOTAL INTERRUPTS	Bin
23		.CRTJB - TOTAL JOBS SINCE STARTUP	Bin
24		.CRTJM - TOTAL JOBS MOVED	Bin
25		.CRTJS - TOTAL JOBS SWAPPED	Bin
26		.CRTLS - TOTAL LOST INTERRUPTS	Bin
27		.CRTRJ - TOTAL REMOTE JOBS	Bin
28		.CRTRR - TOTAL REMOTE REPORTS	Bin
29		.CCTSN - TOTAL CARDS PUNCHED BY SYSOUT	Bin
30		.CRTSR - TOTAL LINES PRINTED BY SYSOUT	Bin
31		.CRTWT - TOTAL TIMES PROCESSOR IDLE	Bin
32		LOSTLR - LOST SCF RECORDS	Bin

This record is created:

- each time an 001 record is issued
- each time a 016 record is issued
- each time an 015 record for the last activity of a job is issued

Only the HISTRE command (operator console verb) or a reboot will reseet the system counters.

*1 - Overhead is only accumulated for processor zero.

- Overhead is time not chargeable (e.g. dispatching and interrupt handling).

SCF RECORD NUMBER 505

DN355 SYSTEM-ORIENTED RECORD

Word	Bit(s)	Contents	Format
1-13		Standard header	
14	0-17	Buffers available	Bin
	18-35	No. of buffer refusals	Bin
15	0-35	Idle processor time	Bin

SCF RECORD NUMBER 506

TSS MEDIA ALLOCATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0- 5	Device Type or Action Done	Bin	SCF wd 0 bits 0-5
	6-17	Not used		
	18	=1 Mount Flag for Tape Devices	Bin	In memory
	19	=1 Ready Flag for Tape Devices	Bin	In memory
		=1 Initial size unavailable for Disk Devices	Bin	In memory
	20	=1 Purge Flag for Tape & Disk Devices	Bin	PAT wd 2 bit 17
	22-23	Disposition Code	Bin	.SPATP bits 22-23
	24-35	File Code	Bin	.SPATP bits 24-35
15-18		Entries vary per device - see following descriptions; words 14-18 are repeated for each peripheral device.		

Tape Devices

Word	Bit(s)	Contents	Format	Source
15	0- 5	Octal 16 is no match Octal 13 is match	Bin	PAT wd 3 bit 5=1 Bit 5=0
	6-35	Reel Number	BCD	PAT wd 3 bits 6-35
16		Not used		
17		Not used		
18	0- 3	Must be zero		
	4- 5	IOM Number	Bin	.CRCTl bits 7-8
	6-11	Channel Number	Bin	.CRCTl bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18-21	Must be zero		
	22-23	Alternate IOM Number	Bin	.CRCTl bits 7-8
	24-29	Alternate Channel Number	Bin	.CRCTl bits 12-17
	30-35	Alternate Device Number	Bin	SCF wd 0 bits 6-11

Fixed Mass Storage Devices

Word	Bit(s)	Contents	Format	Source
15	0-21	Initial size in llinks	Bin	Pat wd 3 bits 0-13
	22-35	Not used		
16	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
17	0-13	Not used		
	14-35	Maximum size in llinks	Bin	PAT wd 2 bits 18-35
18	0- 3	Must be zero		
	4- 5	IOM Number	Bin	.CRCT1 bits 7-8
	6-11	Channel Number	Bin	.CRCT1 bits 12-17
	12-17	Device Number	Bin	SCF wd 0 bits 6-11
	18	=1, File has protected allocat	Bin	PAT wd 2 bit 0
	19-23	Catalog hash	Bin	PAT wd 2 bits 1-5
	24	=1, PRMFL catalog present	Bin	PAT wd 2 bit 6
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8
	27	=1, Permanent file =0, Temporary file	Bin	PAT wd 2 bit 9
	28	Not used		
	29	=1, Creator not user = 0, Is User	Bin	PAT wd 2 bit 11
	30-31	Not used		
	32	=1, File is I-D-S file	Bin	PAT wd 2 bit 14
	33-34	Not used		
	35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

Removable Mass Storage Devices

Word	Bit(s)	Contents	Format	Source
15	0-21	Initial size in llinks	Bin	PAT wd 3 bits 0-13
	22-35	Not used		
16	0-13	Not used		
	14-35	Initial relative llink position	Bin	PAT wd 3 bits 14-35
17	0-13	Must be zero	Bin	PAT wd 2 bits 18-35
	14-35	Maximum size if bit 18 wd 14=0	Bin	
	or			
	0-35	Pack number if bit 18 wd 14=1	BCD	Last wd in PAT
18	0- 3	Not used		
	4- 5	IOM number	Bin	.CRCT1 bits 7-8
	6-11	Channel number	Bin	.CRCT1 bits 12-17
	12-17	Device number	Bin	SCF wd 0 bits 6-11
	18	=1, Public Access	Bin	SCF wd 1 bits 13-14
	19	=1, Stranger Access	Bin	SCF wd 1 bits 13-14
	20-23	Not used		
	24	Must be one		
	25	Not used		
	26	=1, Random file =0, Linked file	Bin	PAT wd 2 bit 8

27-34	Not used		
35	=1, File space to be purged before deallocation	Bin	PAT wd 2 bit 17

SCF RECORD NUMBER 507

TSS STATISTICAL SUMMARY

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-35	TSS Startup time	BCD	.TSSTR
15	0-35	TSS Startup date	BCD	.TSDAT
16	0-35	Current time	BCD	.TSTOD
17	0-35	Current date	BCD	.TCDAT
18	0-35	Hours log-on time	BCD	STAT12
19	0-17	No. of lines	Bin	.TFMAX
	18-35	Percent busy	Bin	
20	0-17	No. of users	Bin	.TLUCT
	18-35	No. of rejects	Bin	
21	0-17	Maximum users	Bin	.TCNOU
	18-35	Current users	Bin	
22	0-17	No. of breaks	Bin	.TLBDC
	18-35	No. of disconnects	Bin	
23	0-17	No. of subsystem starts	Bin	.TSTRT
	18-35	No. of terminates	Bin	.TTERM
24	0-17	No. of subsystem kills	Bin	.TKILL
	18-35	Amount of memory (in words)	Bin	.TACOR
25	0-17	No. of alarms (wait I/O)	Bin	.TLNAA
	18-35	Alarms (number of users)	Bin	.TLNCT
26	0-17	No. of swapouts	Bin	.TSWAP
	18-35	No. of 1024-word blks mem. swapped out	Bin	.TSWPK
27	0-17	No. of terminal keyboard I/O swapouts	Bin	.TASIO
	18-35	No. of SNUMBs	Bin	.TESNB
28-32	0-17	Percent interaction/elapse time (SEC)	Bin	.TCTPT
	18-35	Percent interaction/elapse time (SEC)	Bin	

Percentage interaction corresponds to the following time values:

0-2	25-50
2-5	50-75
5-9	75-125
9-15	125-200
15-25	200-9999

Word	Bit(s)	Contents	Format	Source
33-37	0-17	Percent interaction/program size	Bin	.TCTPT
	18-35	Percent interaction/program size		

Percentage interaction corresponds to the following subsystem sizes:

0-2K	15-20K
3-5K	21-26K
6-8K	27-35K
9-11K	36-50K
12-14K	51-9999K

38-42	0-17	Percent interaction/number file I/O	Bin	.TCTPT
	18-35	Percent interaction/number file I/O		

Percentage interaction corresponds to the following number of file I/O's:

0-10	201-500
11-25	501-1000
26-50	1001-2000
51-100	2001-5000
101-200	5001-UNLIMITED

43-80	0-17	No. of times DRL used	Bin	.TDDRL
	18-35	No. of times DRL used		
81-n				.TCPD

Two-word entries describing subsystem usage; variable number of entries, one for every subsystem defined in TSS:

0	0-23	Four character name of subsystem	BCD
	24-35	No. calls for subsystem	Bin
1	0-11	Seconds of processor time	Bin
	12-23	Hundreds of file I/O	Bin
	24-35	Thousands of terminal keyboard I/O	Bin

After last entry there is one word, either zero or 777777000000 (octal), where zero indicates the end of the subsystem entries and 777777000000 indicates more subsystems to come on a continuation record. The continuation record will be a type 14 record also where words 0-13 are identical to the current record and words 14 upwards are the overflow data (maximum size is 317 words).

n+1	0-35	Total processor time used by subsystems in hours	BCD
n+2	0-35	Total file I/O	Bin
n+3	0-35	Total terminal keyboard I/O	Bin
n+4	0-35	Total subsystem calls	Bin
n+5	0-35	Total TSS processor time	Bin

NOTE: All times are cumulative since Time Sharing started. This record is written at an interval of time specified in the Boot deck.

SCF RECORD NUMBER 508

TSS TEST AND MEASUREMENT

Word	Bit(s)	Contents	Format	Source
0-13		Standard header		
14	0-35	Subsystem name	ASCII	.LFILE
15		Time entered system	Bin	
16	0-35	Time (clock pulses) the subsystem is In memory but Terminal Roadblocked and not swapping	Bin	.LTM0
17	0-35	Time (clock pulses) spent swapping the subsystem	Bin	.LTM1
18	0-35	Time (clock pulses) the subsystem is in core not Terminal Roadblocked nor swapping;in the processor queue	Bin	.LTM2
19	0-35	Time (clock pulses) the subsystem is swapped out	Bin	.LTM3
20	0-35	Time (clock pulses) the subsystem is waiting for memory allocation not after forced swap	Bin	.LTM4
21	0-35	Time (clock pulses) the subsystem is waiting for memory allocation after forced swap	Bin	.LTM5
22	0-35	Accumulated time in clock pulses for the time type designated by .LTCW (Consistency Control Word)	Bin	.LTMWT
23	0-35	Accumulated response time in clock pulses from terminal I/O complete to terminal initiation	Bin	.LTMRS
24	0-17	No. swapouts awaiting terminal input	Bin	.LTC0
	18-35	No. swapouts awaiting terminal output	Bin	
25	0-17	No. TRO faults under GELBAR	Bin	.LTC1
	18-35	No. dispatches not I/O interrupted	Bin	
26	0-17	No. terminal input requests	Bin	.LTC2
	18-35	No. terminal output transmissions	Bin	
27	0-17	No. forced swapouts	Bin	.LTC3
	18-35	No. swapouts and swapins	Bin	
28	0-17	No. terminal keyboard I/O DRLs	Bin	.LTC4
	18-35	No. DRLs	Bin	
29	0-17	No. times extra buffer memory added	Bin	.LTC5
	18-35	No. buffer reads	Bin	
30	0-26	No. times inconsistencies occurred	Bin	.LTCW
	27-35	Time type	Bin	
31	0-17	UST or current EMB buffer address for terminal keyboard I/O	Bin	.LBUF
	18	Tally initialized for buffer storage	Bin	
	19-35	Not used		

Word	Bit(s)	Contents	Format	Source
32	0-17	BAR relative to TSS	Bin	.LSIZE
	18-35	Subsystem size in words	Bin	
33	0-35	Accumulated subsystem processor time in clock pulses accumulated over the life of the subsystem for each user.	Bin	.LSPTS
34	0-35	Accumulated processor time in clock pulses since log-on	Bin	.LSPRT
35	0-35	Sum of user core seconds used	Bin	.LSTP
36	0-17	No. of terminal keyboard output characters/8 transmitted since log-on	Bin	.LST10
	18-35	No. of disk I/O's since log-on	Bin	
37	0-17	No. of terminal keyboard output characters/8 transmitted at subsystem start	Bin	.LKDSS
	18-37	No. of disk I/O's at subsystem start	Bin	
38	0-35	Time in clock pulses of last terminal keyboard I/O	Bin	.LTIN
39	0-17	Sum of memory requirements by number of users designated in bits 18-35	Bin	.TATMN
	18-35	No. of users needing memory	Bin	
40	0-17	Maximum number of users since startup	Bin	.TCNOU
	18-35	Current number of users	Bin	
41	0-35	No. of urgent users	Bin	.TAURG
42	0-17	Lower memory limit	Bin	.TACOR
	18-35	Upper memory limit	Bin	
43	0-17	No. of UST entries	Bin	.TCUST
	18-35	Memory address of first UST in chain	Bin	
44	0-17	No. words in following memory map	Bin	
	18-35	SCC	BCD	.WWOPM
45-n	0-35	Memory map	Bin	

SCF RECORD NUMBER 510

TRANSACTION PROCESSING SYSTEM STATISTICAL RECORD

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0-35	Startup date (YYMMDD)	BCD	SDATE
15	0-35	Startup time (clock pulses)	Bin	STIME
16	0-35	Current transaction number	Bin	TRAXNO
17	0-35	No. of rejected terminals	Bin	REJECT
18	0-35	No. of rejected transactions	Bin	REJECT+1
19	0-17	Total no. allocated pooled buffers	Bin	MAPAVL+2
	18-35	Maximum number buffers used	Bin	
20	0-17	OUTBUF threshold	Bin	MAPOUT+2
	18-35	Maximum use of this buffer	Bin	
21	0-17	TRABUF threshold	Bin	MAPTRA+2
	18-35	Maximum use of this buffer	Bin	
22	0-17	BPOOL threshold	Bin	MPPIO+2
	18-35	Maximum use of this buffer	Bin	
23	0-17	INPUT threshold	Bin	MAPINP+2
	18-35	Maximum use of this buffer	Bin	
24	0-35	Threshold count for INPUT buffer	Bin	TCT000
25	0-35	Threshold count for LINK table	Bin	TCT000
26	0-35	Threshold count for RECOVY table	Bin	TCT000
27	0-35	Threshold count for OUTBUF buffer	Bin	TCT000
28	0-35	Threshold count for TRABUF buffer	Bin	TCT000
29	0-35	Threshold count for UNDOT table	Bin	TCT000
30	0-35	Threshold count for BPOOL buffer	Bin	TCT000
31	0-17	No. INPUT buffers acquired	Bin	EC0001
	18-35	No. INPUT buffer refusals	Bin	
32	0-17	No. failure to enable/spawn TPAP	Bin	EC0002
	18-35	No. jobs terminated for spawn	Bin	
33	0-17	No. reissue Write INTERCOM	Bin	EC0004
	18-35	No. reissue Read INTERCOM	Bin	
34	0-17	No. lost interrupts on Write	Bin	EC0008
	18-35	No. lost interrupts on Read	Bin	
35	0-17	No. OUTBUF releases for space	Bin	EC0006
	18-35	No. TRABUF releases for space	Bin	
36	0-35	No. JI/JO files wraparound	Bin	EC0012
37	0-17	TPAP identification 1	BCD	.QTPS
	18-35	No. spawns	Bin	
38	0-17	No. transactions accepted	Bin	.QTPS
	18-35	No. transactions completed	Bin	
39	0-35	No. of keywords	Bin	.QTPS
40	0-35	Keyword 1 (characters 1-6)	BCD	.QTPS
41	0-17	Keyword 1 (characters 7-8)	BCD	.QTPS
	18-35	Use count	Bin	

Word	Bit(s)	Contents	Format	Source
42	0-35	Keyword 2 (characters 1-6)	BCD	.QTPS
43	0-17	Keyword 2 (characters 7-8)	BCD	.QTPS
	18-35	Use count	Bin	
.				
.				
.				
n				

Words 37 through n are repeated for each TPAP that has an activity record.

SCF RECORD NUMBER 511

TOLTS STATISTICAL RECORD

Word	Bit(s)	Contents
1-13		Standard header
14-n		The information in these records is a typewriter-formatted message of varying length not exceeding 85 words. The messages may be POLTS/MOLTS/COLTS/SOLTS log-on and log-off messages, remote terminal log-on and log-off messages, and error messages that have been accumulating on the Statistical Collection File by use of the option "A" (see the Total Online Test System (TOLTS) Reference Manual).

SCF RECORD NUMBER 515

PWIN HOST SOFTWARE INSTRUMENTATION

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14	0- 8	Host number	Bin	
	9-17	Reserved		
	18-35	Block serial number	Bin	
15	0-35	Time	Bin	
16	0-35	Host name	BCD	
17-18		Two word pairs as described in words 15-16		

SCF RECORD NUMBER 934

USER SECURITY MATRIX ADDITION/CHANGE

Word	Bit(s)	Contents	Format	Source
1-13		Standard header		
14-15		System Master Catalog name	BCD	.H6MTR
16	0-12	Not used		
	13-35	New User Security Matrix	Bin	.H6USM
17	0-12	Not used		
	13-35	Old User Security Matrix	Bin	.H6USM

SECTION 2

EXPANDED SCF DATA

The General SCF Expansion Program (GSEP) expands the raw SCF data (Section 1) into a format which can be processed by higher level languages such as WWDMS. The format of the expanded records is presented in this section. This format includes:

1. The WWDMS data name for each field

2. A reference to the original record specifiying the origin of each data field.

SCF RECORD HEADER

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(22)	REC-SCAN-FIELD	N.A.		
1	X(12)	SERVER-HOST-ID	4- 5	0-71	
13	X(06)C	UID	9	0-35	
13	9(06)	UNIQUE-ID	9	0-35	
19	X(04)	REC-ID	N.A.		
19	X(03)	REC-TYPE	1	21-35	(1)
22	X(01)	CONTD-IND	1	18-19	(46)
23	X(02)	PROGRAM-NO	12	12-17	
23	9(02)	PROG-NO	12	12-17	
25	X(06)	CURRENT-DATE	6	0-35	
31	9(06)C	REC-CREATE-TIME	7	0-35	
37	X(12)	USER-HOST-ID	2- 3	0-71	
49	X(12)	USERID	10-11	0-71	
61	X(06)	JOB-SNUMB	8	0-29	
61	X(05)	SNUMB	8	0-29	
66	X(01)	FILLER	N.A.		
67	X(02)	ACT-NO	12	0-11	
67	9(02)	ACTIVITY-NO	12	0-11	
69	X(03)	REC-SIZE			
69	9(03)	RECORD-SIZE	NOT IN INPUT		
72	X(01)	DN-NO	13	0- 5	
72	9(01)	DATANET-NO	13	0- 5	(1)
73	X(06)	TERM-TYPE	13	18-23	
73	X(06)	TERMINAL-TYPE	13	18-23	(54)
79	X(02)	TERM-ID	13	24-35	
79	X(02)	TERMINAL-ID	13	24-35	

SCF RECORD NUMBER 001

SYSTEM INPUT

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD HEADER	0-13		
81	X(03)	SEC-CLASS-CODE	16	18-35	
84	9(01)	IOM-NO	15	00-11	
85	9(02)	CHANNEL-NO	15	12-23	
87	9(02)	DEVICE-NO	15	24-35	
89	9(02)	SYS-SCHED-CLASS-NO	26		(1)
91	X(06)	JOB-ORIGIN	14		
97	9(06)C	JOB-URGENCY	16	0-17	
103	9(06)C	JOB-START-TIME	17		
109	9(06)C	INPUT-RECORD-COUNT	18		
115	9(06)C	MEMORY-SIZE	19		
121	9(06)C	PROC-TIME-USED	20		
127	9(06)C	IOC-TIME-DEVICE	21		
133	9(06)C	IOC-TIME-STAR-J	22		
139	9(06)C	IOC-TIME-J-STAR	23		
145	X(06)	SCAN-PROC-TIME-REQ	27		
151	X(06)	SCAN-MEM-STORAGE-REQ	28		
157	X(60)	DOLLAR-IDENT	29-38		
217	X(02)	CLASS-PRIORITY	26	(1)	
219	X(01)	DISK-CARD	24	0	(34)
220	X(01)	MASS-CARD	24	1	(19)
221	X(01)	FFILE-CARD	24	2	(14)
222	X(01)	FILE-CARD	24	3	(14)
223	X(01)	DRUM-CARD	24	4	(12)
224	X(01)	PRINT-CARD	24	5	(21)
225	X(01)	PUNCH-CARD	24	7	(21)
226	X(01)	READ-CARD	24	8	(22)
227	X(01)	PPTR-CARD	24	9	(21)
228	X(01)	PPTP-CARD	24	10	(21)
229	X(01)	TYPE-CARD	24	11	(24)
230	X(01)	SYSOUT-CARD	24	12	(23)
231	X(01)	REMOTE-CARD	24	13	(22)
232	X(01)	94PRT-CARD	24	14	(9)
233	X(01)	94SYSO-CARD	24	15	(9)
234	X(01)	94OPTN-CARD	24	16	(9)
235	X(01)	PRMFL-CARD	24	17	(21)
236	X(01)	DAC-CARD	24	18	(12)
237	X(01)	TAPE-CARD	24	19	(24)
238	X(01)	TAPE9-CARD	24	20	(24)
239	X(01)	NTAPE-CARD	24	21	(20)
240	X(01)	DSPK-CARD	24	22	(12)
241	X(01)	160PK-CARD	24	23	(5)

242	X(01)	167PK-CARD	24	24	(5)
243	X(01)	170PK-CARD	24	25	(5)
244	X(01)	180PK-CARD	24	26	(5)
245	X(01)	181PK-CARD	24	27	(5)
246	X(01)	190PK-CARD	24	28	(5)
247	X(01)	TAPE7-CARD	24	29	(24)
248	X(01)	191PK-CARD	24	30	(5)
249	X(01)	310PK-CARD	24	31	(7)
250	X(01)	400PK-CARD	24	32	(8)
251	X(01)	TAPE27-CARD	24	33	(24)
252	X(01)	TAPE29-CARD	24	34	(24)
253	X(01)	450PK-CARD	24	35	(8)
254	X(01)	FORTA-CARD	25	0	(14)
255	X(01)	FORTY-CARD	25	1	(14)
256	X(01)	GMAP-CARD	25	2	(15)
257	X(01)	COBOL-CARD	25	3	(11)
258	X(01)	ALGOL-CARD	25	4	(10)
259	X(01)	JOVIAL-CARD	25	5	(17)
260	X(01)	IDS-CARD	25	6	(16)
261	X(01)	ILANG-CARD	25	7	(16)
262	X(01)	CONVER-CARD	25	8	(11)
263	X(01)	UTILITY-CARD	25	9	(25)
264	X(01)	94SIM-CARD	25	10	(9)
265	X(01)	44SIM-CARD	25	11	(8)
266	X(01)	SYSEDIT-CARD	25	12	(23)
267	X(01)	EXTEDIT-CARD	25	13	(13)
268	X(01)	PRODUCT-CARD	25	14	(21)
269	X(01)	FILEDIT-CARD	25	15	(14)
270	X(01)	FILSYS-CARD	25	16	(14)
271	X(01)	225SIM-CARD	25	17	(6)
272	X(01)	1401SIM-CARD	25	18	(5)
273	X(01)	355MAP-CARD	25	19	(7)
274	X(01)	355SIM-CARD	25	20	(7)
275	X(01)	PROGRAM-CARD	25	21	(21)
276	X(01)	EXECUTE-CARD	25	22	(13)
277	X(01)	PL1-CARD	25	23	(21)
278	X(01)	CBL73-CARD	25	24	(11)
279	X(01)	MALT-CARD	25	25	(19)
280	X(01)	ASM66-CARD	25	26	(10)
281	X(01)	UTL2-CARD	25	27	(25)
282	X(01)	IDS2-CARD	25	29	(16)
283	X(01)	IDENT-CARD	25	31	(16)
284	X(01)	SNUMB-CARD	25	32	(23)
285	X(01)	LIMITS-CARD	25	33	(18)
286	X(01)	NEED-CARD	25	34	(20)
287	X(01)	PRIVITY-CARD	25	35	(21)
288	X(01)	FILLER			
289	X(36)	JOB-DELETION-CODE	39		(56)

SCF RECORD NUMBER 003

PERIPHERAL ALLOCATION

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER			
85	X(168)		14-n		

For this record, only the header is expanded. The format for characters 85 to 168 are identical to the information specified in record type 3 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 004

FMS ALLOCATE/DEALLOCATE

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	FILLER	N.A.		
82	X(03)	FILE-CLASS	17	18-35	
85	X(06)	ACTIVITY-MNEMONIC	14	0-35	
91	X(12)	SMC-NAME	15-16		
103	X(06)	FMS-FUNCT-CODE	17	0-17	(52)
109	X(06)	DEVICE-SCF-ADDRESS	19	0-17	(2)
115	X(06)	SEEK-ADDRESS	19	18-35	(1)
121	X(01)	DUP-FILE	21	18	(34)
122	X(01)	DELAY-POST	21	19	(34)
123	X(01)	JOURNAL-POST	21	20	(36)
124	X(01)	DEFECTIVE-SPACE	21	21	(40)
125	X(01)	WRITE-SUCCESS	21	22	(40)
126	X(01)	INVALID-IO	21	23	(40)
127	X(01)	CONFLICT-CONTROL	21	24	(40)
128	X(01)	BEFORES-PROTECTION	21	26	(40)
129	X(01)	AUDIT-DENIAL	21	28	(40)
130	X(01)	AUDIT-ALL	21	29	(40)
131	X(01)	READ-ALLOW	20	0	(22)
132	X(01)	WRITE-ALLOW	20	1	(26)
133	X(01)	APPEND-ALLOW	20	2	(10)
134	X(01)	EXECUTE-ALLOW	20	3	(13)
135	X(01)	PURGE-ALLOW	20	4	(21)
136	X(01)	MODIFY-ALLOW	20	5	(19)
137	X(01)	LOCK-ALLOW	20	6	(18)
138	X(01)	CREATE-ALLOW	20	8	(11)
139	X(03)	RECOVERY-ALLOW	20	9	(48)
142	X(01)	FILLER	N.A.		
143	X(01)	READ-RQST	20	18	(22)
144	X(01)	WRITE-RQST	20	19	(26)
145	X(01)	APPEND-RQST	20	20	(10)
146	X(01)	EXECUTE-RQST	20	21	(13)
147	X(01)	PURGE-RQST	20	22	(21)
148	X(01)	MODIFY-RQST	20	23	(19)
149	X(01)	LOCK-RQST	20	24	(18)
150	X(01)	CREATE-RQST	20	26	(11)
151	X(03)	RECOVERY-RQST	20	27	(48)
154	X(03)	FILLER	N.A.		
157	9(06)C	DIAG-MSG-LENGTH	18	18-35	
163	9(06)C	CAT-FILE-STRING-LENGTH	NOT IN INPUT		
169	X(372)	REC004-REMAINDER	22-83		
169*	X(06)	WORD-1	22	0-35	

169*	X(01)	CHARACTER-1	22	0-5
170*	X(05)	NEXT-5-CHARACTERS	22	6-35
175*	X(366)	NEXT-N-WORDS	23-83	

* These fields redefine REC004-REMAINDER.

SCF RECORD NUMBER 005

FMS USER FUNCTION AUDIT

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	FILLER	N.A.		
82	X(03)	FILE-CLASS	17	18-35	
85	X(06)	ACTIVITY-MNEMONIC	14	0-35	
91	X(12)	SMC-NAME	15-16		
103	X(06)	FMS-FUNCT-CODE	17	0-17	(52)
109	X(06)	DEVICE-SCF-ADDRESS	19	0-17	(2)
115	X(06)	SEEK-ADDRESS	19	18-35	(2)
121	X(01)	DUP-FILE	21	18	(34)
122	X(01)	DELAY-POST	21	19	(34)
123	X(01)	JOURNAL-POST	21	20	(36)
124	X(01)	DEFECTIVE-SPACE	21	21	(40)
125	X(01)	WRITE-SUCCESS	21	22	(40)
126	X(01)	INVALID-IO	21	23	(40)
127	X(01)	CONFLICT-CONTROL	21	24	(40)
128	X(01)	BEFORES-PROTECTION	21	26	(40)
129	X(01)	AUDIT-DENIAL	21	28	(40)
130	X(01)	AUDIT-ALL	21	29	(40)
131	X(01)	READ-ALLOW	20	0	(22)
132	X(01)	WRITE-ALLOW	20	1	(26)
133	X(01)	APPEND-ALLOW	20	2	(10)
134	X(01)	EXECUTE-ALLOW	20	3	(13)
135	X(01)	PURGE-ALLOW	20	4	(21)
136	X(01)	MODIFY-ALLOW	20	5	(19)
137	X(01)	LOCK-ALLOW	20	6	(18)
138	X(01)	CREATE-ALLOW	20	8	(11)
139	X(03)	RECOVERY-ALLOW	20	9	(48)
142	X(01)	FILLER	N.A.		
143	X(01)	READ-RQST	20	18	(22)
144	X(01)	WRITE-RQST	20	19	(26)
145	X(01)	APPEND-RQST	20	20	(10)
146	X(01)	EXECUTE-RQST	20	21	(13)
147	X(01)	PURGE-RQST	20	22	(21)
148	X(01)	MODIFY-RQST	20	23	(19)
149	X(01)	LOCK-RQST	20	24	(18)
150	X(01)	CREATE-RQST	20	26	(11)
151	X(03)	RECOVERY-RQST	20	27	(48)
154	X(03)	FILLER	N.A.		
157	9(06)C	DIAG-MSG-LENGTH	18	18-35	
163	9(06)C	CAT-FILE-STRING-LENGTH	NOT IN INPUT		
169	X(372)	REC005-REMAINDER	22-83		
169*	X(06)	WORD-1	22	0-35	

169*	X(01)	CHARACTER-1	22	0-5
170*	X(05)	NEXT-5-CHARACTERS	22	6-35
175*	X(366)	NEXT-N-WORDS	23-83	

* These fields redefine REC005-REMAINDER.

SCF RECORD NUMBER 006

FMS ACCOUNTING

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER			
85	X(06)	ACTIVITY-MNEMONIC	14		
91	X(12)	SMC-NAME	15-16		
103	X(06)	FMS-FUNCT-CODE	17	0-17	(52)
109	9(06)C	SPACE-TIME-PROD	18		
115	9(06)C	TOTAL-RESOURCES	20		
121	9(06)C	RESOURCES-USED	21		

SCF RECORD NUMBER 007

PERMANENT FILE I/O ERROR

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER			
85	X(60)	REC007-REMAINDER	14-23		

For this record, only the header is expanded. The format for characters 85 to 144 are identical to the information specified in words 14 to 23 in record type 007 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 008

FMS ERROR DETECTION

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER			
85	X(12)	REC008-REMAINDER	14-15		

For this record, only the header is expanded. The format for characters 85 to 96 are identical to the information specified in words 14 to 15 in record type 008 in the SCF unexpanded records formats in section I of this document.

SCF RECORD NUMBER 009

I/O ERROR ACCOUNTING RECORD

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	LOST-INTERRUPT	19	15	(40)
82	X(01)	INTERRUPT-TYPE	19	16	(43)
83	X(01)	SYNC-BIT	19	0	(38)
84	X(01)	POWER-BIT	19	1	(37)
85	X(02)	MAJOR-PERIPH-SUBSTATUS	19	2-5	(2)
87	X(02)	PERIPH-SUBSTATUS	19	6-11	(2)
89	X(02)	GEPR-OVERRIDE-OPT	14	26-29	(1)
91	X(01)	GEPR-OVERRIDE-RQST	14	25	(40)
92	X(01)	IOM-NO	20	16-17	(1)
93	X(02)	IOM-COMMAND	20	18-23	(2)
95	X(02)	IOM-ERROR-STATUS	19	18-23	(2)
97	X(02)	CHANNEL-NO	20	24-29	(1)
99	X(02)	DEVICE-NO	20	6-11	(1)
101	X(02)	DEVICE-COMMAND	20	0-5	(2)
103	X(01)	GEPR-RECOVERED	19	17	(45)
104	X(02)	ADDRESS-EXTENSION-BITS	19	24-29	(2)
106	X(03)	SEC-CLASS-CODE	27	0-17	
109	X(06)	PERIPH-TYPE	14	30-35	(53)
115	9(06)C	INTERNAL-CLOCK-ADJ	15	0-35	
121	9(06)C	TIME-OF-INTERRUPT	16	0-35	
127	9(06)C	TIME-OF-CONNECT	17	0-35	
133	9(06)C	NO-OF-CONNECTS	18	0-35	
139	9(06)C	NO-OF-ERRORS	14	0-17	
145	X(02)	ERROR-RATIO	14	18-23	(1)
147	X(01)	FMS-STATUS	19	12-14	(2)
148	X(01)	FILLER	N.A.		
149	9(02)	RECORD-RESIDUE	19	30-35	(1)
151	9(06)C	RECORD-COUNT	20	30-35	

MAGNETIC TAPE ERROR ENTRY

157	X(05)	TAPE-FILE-SERIAL-NO	21	6-35	
162	X(01)	TRUE-TAPE-REEL-NO	21	5	(45)
163	X(01)	TAPE-INTERCHANGE-FILE	21	4	(40)
164	X(02)	TAPE-DENSITY	21	0-3	(49)
166	9(03)	NO-OF-EOF	22	25-35	(1)
169	9(06)	NO-TAPE-RECORDS	22	0-17	
175	X(01)	NRZI-PE-CODING	22	18	(37)
176	X(01)	EOT-SINCE-REWIND	22	19	(40)
177	X(01)	GOOD-OR-LOST-POSITION	22	20	(30)
178	X(03)	DENSITY-CAPABILITY	22	21-24	(50)
181	X(12)	FILLER	N.A.		

PERMANENT DISK ERROR ENTRY

157	X(12)	DISK-DRUM-SEEK-ADDR	21	0-35	(2)
169	X(06)	CATALOG-SEEK-ADDRESS	22	18-35	(2)
175	X(01)	DISK-FILE-PROTECTED	22	0	(37)
176	X(02)	CATALOG-HASH-NO	22	1-5	
178	X(01)	DISK-FILE-CATALOGED	22	6	(12)
179	X(01)	LAST-DESCRIPTOR-IN-MEMORY	22	7	(32)
180	X(01)	RANDOM-OR-SEQUENTIAL	22	8	(42)
181	X(08)	DISK-DATA-ONLY			
181	X(01)	PERMANENT-FILE	22	9	(37)
182	X(01)	FIRST-DESCRIPTOR-IN-MEMORY	22	10	(28)
183	X(01)	USER-CREATOR-OF-FILE	22	11	(27)
184	X(01)	ABORT-DISPOSITION	22	12-13	(47)
185	X(01)	IDS-1-FILE	22	14	(35)
186	X(01)	WRITE-PERFORMED	22	15	(39)
187	X(01)	ATTEMPT-TO-BREAK-PROTECTION	22	16	(33)
188	X(01)	PURGE-FILE-SPACE	22	17	(37)
189	X(04)	FILLER	N.A.		

TEMPORARY DISK ERROR ENTRY

157	X(12)	DISK-DRUM-SEEK-ADDR	21	0-35	(2)
169	X(06)	CATALOG-SEEK-ADDRESS	22	18-35	(2)
175	X(18)	FILLER	N.A.		
193	X(12)	NAME-OF-CREATOR	23-24	0-71	
205	X(12)	FILE-NAME	25-26	0-71	
217	9(06)C	NO-WORDS-EXT-STATUS	27	18-35	
223	X(276)	REC009-REMAINDER	28-73		
223	X(06)	WORD-1	28	0-35	
223	X(01)	CHARACTER-1	28	0-3	(3)
224	X(05)	NEXT-5-CHARACTERS	28	4-22	(3)
229	X(270)	NEXT-N-WORDS	28-73		

SCF RECORD NUMBER 010

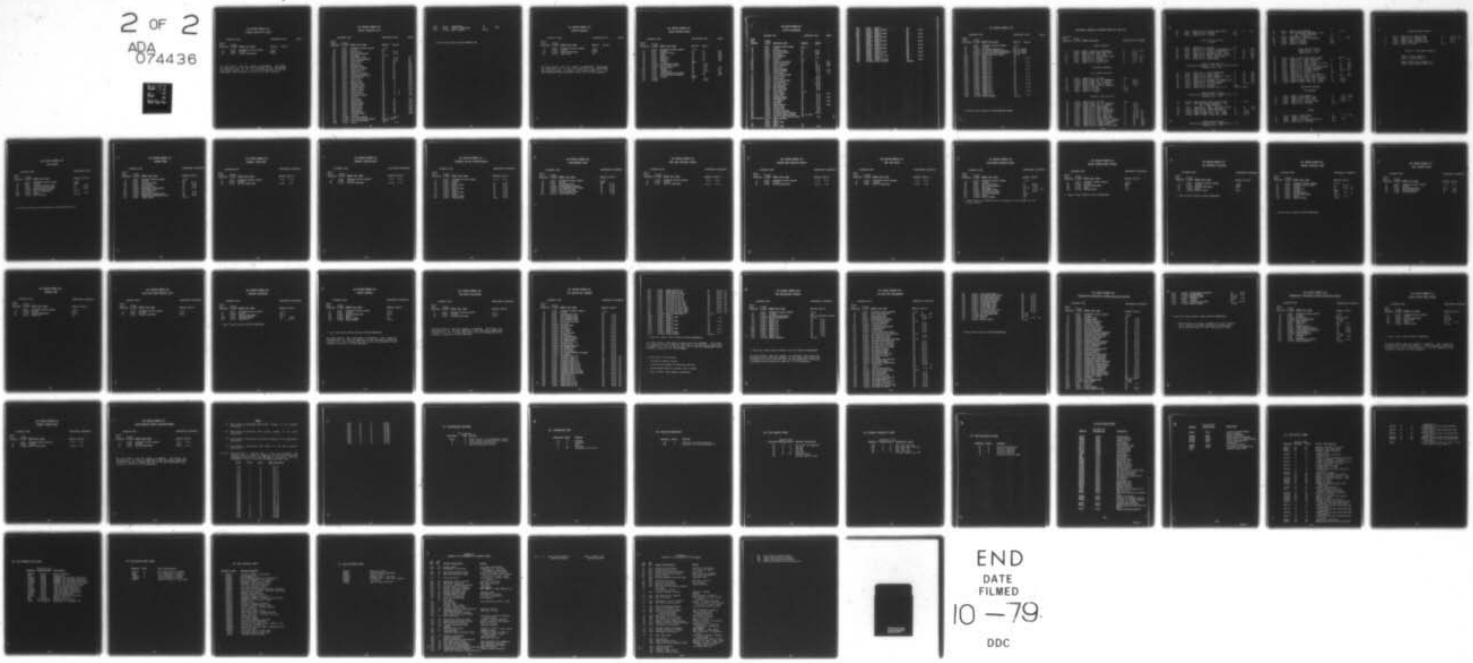
DYNAMIC MEDIA ALLOCATION

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER			
85	X(33)	REC010-REMAINDER	14-18		

For this record, only the header is expanded. The format for characters 85 to 104 are identical to the information specified in words 14 to 18 in record type 010 in the SCF unexpanded record formats in section I of this document.

AD-A074 436 HONEYWELL INFORMATION SYSTEMS INC MCLEAN VA F/G 5/2
STATISTICAL COLLECTION FILE (SCF) RECORD FORMATS MANUAL.(U)
DEC 77 J BIELSKI, E GRANGER, R ROBERTSON DCA100-73-C-0055
UNCLASSIFIED NL

2 OF 2
ADA 074436



END
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10-79
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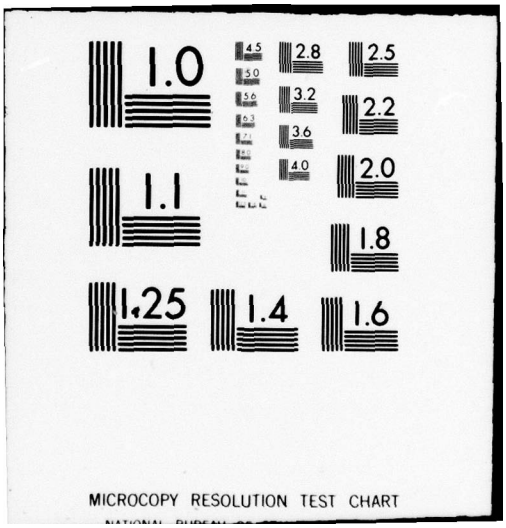
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1.1
1.25
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1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
MICROCOPY RESOLUTION TEST CHART

SCF RECORD NUMBER 011

DYNAMIC RELEASE OF MEDIA

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER	NONE		
85	X(36)	REC011-REMAINDER	14-19		

For this record, only the header is expanded. The format for characters 85 to 120 are identical to the information specified in words 14 to 19 in record type 011 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 012

SECURE PROTECTED FILE

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	FILLER	N.A.		
82	X(03)	FILE-CLASS	17	18-35	
85	X(06)	ACTIVITY-MNEMONIC	14	0-35	
91	X(12)	SMC-NAME	15-16		
103	X(06)	FMS-FUNCT-CODE	17	0-17	(52)
109	X(06)	DEVICE-SCF-ADDRESS	19	0-17	(2)
115	X(06)	SEEK-ADDRESS	19	18-35	(2)
121	X(01)	DUP-FILE	21	18	(34)
122	X(01)	DELAY-POST	21	19	(34)
123	X(01)	JOURNAL-POST	21	20	(36)
124	X(01)	DEFECTIVE-SPACE	21	21	(40)
125	X(01)	WRITE-SUCCESS	21	22	(40)
126	X(01)	INVALID-IO	21	23	(40)
127	X(01)	CONFLICT-CONTROL	21	24	(40)
128	X(01)	BEFORES-PROTECTION	21	26	(40)
129	X(01)	AUDIT-DENIAL	21	28	(40)
130	X(01)	AUDIT-ALL	21	29	(40)
131	X(01)	READ-ALLOW	20	0	(22)
132	X(01)	WRITE-ALLOW	20	1	(26)
133	X(01)	APPEND-ALLOW	20	2	(10)
134	X(01)	EXECUTE-ALLOW	20	3	(13)
135	X(01)	PURGE-ALLOW	20	4	(21)
136	X(01)	MODIFY-ALLOW	20	5	(19)
137	X(01)	LOCK-ALLOW	20	6	(18)
138	X(01)	CREATE-ALLOW	20	8	(11)
139	X(03)	RECOVERY-ALLOW	20	9	(48)
142	X(01)	FILLER	N.A.		
143	X(01)	READ-RQST	20	18	(22)
144	X(01)	WRITE-RQST	20	19	(26)
145	X(01)	APPEND-RQST	20	20	(10)
146	X(01)	EXECUTE-RQST	20	21	(13)
147	X(01)	PURGE-RQST	20	22	(21)
148	X(01)	MODIFY-RQST	20	23	(19)
149	X(01)	LOCK-RQST	20	24	(18)
150	X(01)	CREATE-RQST	20	26	(11)
151	X(03)	RECOVERY-RQST	20	27	(48)
154	X(03)	FILLER	N.A.		
157	9(06)C	DIAG-MSG-LENGTH	18	18-35	
163	9(06)C	CAT-FILE-STRING-LENGTH	NOT IN INPUT		
169	X(372)	REC012-REMAINDER	22-83		
169*	X(06)	WORD-1	22	0-35	

169*	X(01)	CHARACTER-1	22	0-5
170*	X(05)	NEXT-5-CHARACTERS	22	6-35
175*	X(366)	NEXT-N-WORDS	23-83	

* These fields redefine REC012-REMAINDER.

SCF RECORD NUMBER 013

SYSTEM SNAPSHOT

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER	NONE		
85	X(132)	REC013-REMAINDER	14-35		
217	X(06)	SLEW-CODE	36		

For this record, only the header is expanded. The format for characters 85 to 222 are identical to the information specified in words 14 through 36 in record type 13 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 014

SYSOUT REPORT WRITER

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	PRINTER	14	30	(40)
82	X(01)	REMOTE-J-STAR	14	31	(40)
83	X(01)	PUNCH	14	32	(40)
84	X(01)	REMOTE-1	14	33	(40)
85	X(01)	REMOTE-2	14	34	(40)
86	X(01)	REMOTE-3	14	35	(40)
87	X(04)	FILLER	NONE		
91	9(06)C	NO-REPORTS-SYSOUT	15	0-11	
97	9(06)C	NO-RECORDS-SYSOUT	15	12-35	
103	X(06)	DEVICE-TYPE	16	0-5	(53)
109	9(01)	IOM-NO	16	6-7	(1)
110	9(02)	CHANNEL-NO	16	8-13	(1)
112	X(01)	LAST-DESTINATION-SNUMB	16	18	(40)
113	X(01)	DESTINATION-IS-REMOTE	16	19	(40)
114	X(01)	FILLER	NONE		
115	9(06)C		17	0-11	
121	9(06)C		17	12-35	

SCF RECORD NUMBER 015

ACTIVITY ACCOUNTING

	EXPANDED DATA		UNEXPANDED DATA		NOTES
START CHAR. POSITION	FORMAT & SIZE	WWDMS DATA NAME	WORD(S)	BIT(S)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	FILLER	N.A.		
82	X(03)	SEC-CLASS-CODE	14	0-17	
85	X(06)	ACTIVITY-MNEMONIC	15	0-35	
91	9(06)C	START-TIME	16	0-35	
97	X(06)	ACT-STOP-TIME	17		
97	9(06)C	STOP-TIME	17	0-35	
103	X(01)	FILLER	N.A.		
104	X(01)	ACCOUNTING-PRIORITY	18	29	(37)
105	X(01)	DIRECT-ACCESS-JOB	14	18	(34)
106	X(01)	END-OF-ACTIVITY	14	21-23	(51)
107	X(02)	ABORT-CODE	14	24-35	
109	9(02)	INITIAL-URGENCY	18	30-35	(1)
111	9(02)	CURRENT-URGENCY	18	18-23	(1)
113	9(02)	CORE-URGENCY	18	0- 5	(1)
115	9(06)C	NO-ACT-COMPRESSIONS	18	6-17	
121	9(06)C	SYSOUT-LIMIT	19	0-18	
127	9(06)C	SYSOUT-COUNT	19	18-35	
133	9(06)C	INIT-NO-MEM-BLOCKS	20	0-11	
139	9(06)C	NO-SSA-BLOCKS	20	12-14	
145	9(06)C	ALLOCATED-SEQ-NO	20	18-35	
151	9(06)C	MEM-TIME-PROD	21	0-35	
157	9(06)C	PROC-TIME-USED	22	0-35	
163	9(06)C	PROC-TIME-LIMIT	23	0-35	
169	X(60)	IDENT-VALUE	25-34		
229	X(06)	GECALL-DEVICE	35	0- 5	(53)
235	9(06)C	GECALL-TIME	35	6-35	
241	X(06)	PUSHDOWN-DEVICE	36	0- 5	(53)
247	9(06)C	PUSHDOWN-TIME	36	6-35	
253	X(06)	SSA-DEVICE	37	0- 5	(53)
259	9(06)C	SSA-TIME	37	6-35	
265	X(06)	GESYOT-DEVICE	38	0- 5	(53)
271	9(06)C	GESYOT-TIME	38	6-35	
277	9(06)C	SWAPOUT-TIME	39	0-35	
283	9(06)C	NO-PERIPH-ENTRIES	40	0-17	
289	9(06)C	NO-SYSOUT-REPORT-ENTRIES	40	18-35	
295	9(06)C	NO-PERIPH-SYSOUT-ENTRIES	NOT IN INPUT		
301	9(06)C	COUNT OF USER SUPPLIED WORDS	24	0-35	
307+(6*C(301))	X(1614)	PERIPH ENTRIES			
	X(06)	WORD 1			
	9(06)C	WORD 1 COMP			
314	X(06)	WORD 2	42		
314	9(06)C	WORD 2 COMP	42	0-35	

313	X(06)	WORD-3	43	
313	9(06)C	WORD-3-COMP	43	0-35
319	X(06)	WORD-4	44	
319	9(06)C	WORD-4-COMP	44	0-35
325	X(06)	WORD-5	45	
325	9(06)C	WORD-5-COMP	45	0-35
331	X(06)	WORD-6	46	
331	9(06)C	WORD-6-COMP	46	0-35
337	X(06)	WORD-7	47	
337	9(06)C	WORD-7-COMP	47	0-35
343	X(06)	WORD-8	48	
343	9(06)C	WORD-8-COMP	48	0-35
349	X(06)	WORD-9	49	
349	9(06)C	WORD-9-COMP	49	0-35
355	X(06)	WORD-10	50	
355	9(06)C	WORD-10-COMP	50	0-35
361	X(06)	WORD-11	51	
361	9(06)C	WORD-11-COMP	51	0-35
367	X(1542)	NEXT-N-WORDS	52-308	

SCF RECORD NUMBER 015C

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER	N.A.		
85	9(06)C	NO-PERIPH-ENTRIES-C	NOT IN INPUT		
91	9(06)C	NO-SYSOUT-REPORT-ENTRIES-C	NOT IN INPUT		
97	9(06)C	NO-PERIPH-SYSOUT-ENTRIES-C	NOT IN INPUT		
103	X(1824)	PERIPH-ENTRIES-CONTD.	14-317		
103*	X(06)	WORD-1-C	14		
103*	9(06)C	WORD-1-CC	14	0-35	
109*	X(06)	WORD-2-C	15		
109*	9(06)C	WORD-2-CC	15	0-35	
115*	X(06)	WORD-3-C	16		
115*	9(06)C	WORD-3-CC	16	0-35	
121*	X(06)	WORD-4-C	17		
121*	9(06)C	WORD-4-CC	17	0-35	
127*	X(06)	WORD-5-C	18		
127*	9(06)C	WORD-5-CC	18	0-35	
133*	X(06)	WORD-6-C	19		
133*	9(06)C	WORD-6-CC	19	0-35	
139*	X(06)	WORD-7-C	20		
139*	9(06)C	WORD-7-CC	20	0-35	
145*	X(06)	WORD-8-C	21		
145*	9(06)C	WORD-8-CC	21	0-35	
151*	X(06)	WORD-9-C	22		
151*	9(06)C	WORD-9-CC	22	0-35	
157*	X(06)	WORD-10-C	23		
157*	9(06)C	WORD-10-CC	23	0-35	
163*	X(06)	WORD-11-C	24		
163*	9(06)C	WORD-11-CC	24	0-35	
169*	X(1758)	NEXT-N-WORDS	25-317		

* These fields redefine PERIPH-ENTRIES-CONTD.

PERIPHERAL ENTRIES IN RECORD TYPES 015 AND 015C

Relative Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	NOTES
		(FIXED PORTION)			
1	X(06)	WORD-1 <TYPE OF PERIPHERAL>	0	0- 5	(53)
7	9(06)C	WORD-2-COMP <CHAN. USE TIME>	1	0-35	
13	X(02)	WORD-3[1-2] <FILE CODE>	0	24-35	
15	X(01)	WORD-3[3-3] <DISPOSITION CODE>	0	21-23	(47)
16	X(01)	WORD-3[4-4] <IOM NO.>	5	4- 5	(1)
17	X(02)	WORD-3[5-6] <CHANNEL NO.>	5	6-11	(1)
19	X(02)	WORD-4[1-2] <DEVICE NO.>	5	12-17	(1)
		(VARIABLE PORTION)			
		Unit Record Devices			
21	X(04)	WORD-4[3-6] <FILLER>	N.A.		
25	9(06)C	WORD-5-COMP <NO. OF CONNECTS>	2	0-23	
31	9(06)C	WORD-6-COMP <NO. OF ERRORS>	2	24-35	
37	9(06)C	WORD-7-COMP <TIME OF ALLOC.>	3	0-35	
43	9(06)C	WORD-8-COMP <TIME OF DEALLOC.>	4	0-35	
49	X(06)	WORD-9 <FILLER>	N.A.		
55	X(06)	WORD-10 <FILLER>	N.A.		
61	X(06)	WORD-11 <FILLER>	N.A.		
		Magnetic Tape Devices			
21	X(04)	WORD-4[3-6] <FILLER>	N.A.		
25	9(06)C	WORD-5-COMP <NO. OF CONNECTS>	2	0-23	
31	9(06)C	WORD-6-COMP <NO. OF ERRORS>	2	24-35	
37	X(01)	WORD-7[1-1] <TAPE MATCH>	3	0- 5	
38	X(05)	WORD-7[2-6] <TAPE SERIAL NO.>	3	6-35	
43	X(03)	WORD-8[1-3] <END. RECORD NO.>	4	0-17	(1)
46	X(03)	WORD-8[4-6] <END. FILE POS.>	4	19-35	(1)
49	X(01)	WORD-9[1-1] <ALT. IOM NO.>	5	22-23	(1)
50	X(02)	WORD-9[2-3] <ALT. CHAN. NO.>	5	24-29	(1)
52	X(02)	WORD-9[4-5] <ALT. DEVICE NO.>	5	30-35	(1)
54	X(01)	WORD-9[6-6] <MOUNT INSTR. ISSUED?>	0	18	(40)
55	X(01)	WORD-10[1-1] <TAPE IN STANDBY?>	0	19	(40)
56	X(01)	WORD-10[2-2] <PURGE DONE?>	0	20	(40)
57	X(01)	WORD-10[3-3] <HIGH OR LOW DENS?>	4	18	(31)

58	X(01)	WORD-10[4-4] <SERIES 2000 TAPE?>	5	0	(6)
59	X(02)	WORD-10[5-6] <FILLER>	N.A.		
61	X(06)	WORD-11[1-6] <FILLER>	N.A.		

Mass Storage Devices
(Fixed)

21	X(04)	WORD-4[3-6] <FILLER>	N.A.		
25	X(01)	WORD-5[1-1] <STRUCT. OR NON-STRUCT.?>	5	0	(38)
26	X(01)	WORD-5[2-2] <FIXED OR REMOVABLE?>	0	18	(29)
27	X(01)	WORD-5[3-3] <RANDOM OR SEQ. FILE?>	5	26	(41)
28	X(01)	WORD-5[4-4] <WRITE ISSUED TO FILE?>	5	33	(40)
29	X(01)	WORD-5[5-5] <PURGE FILE SPACE?>	5	35	(40)
30	X(01)	WORD-5[6-6] <PURGE DONE?>	0	20	(40)

Mass Storage Devices
(Structured Removable - SR1, SR2 - Fixed Portion)
(WORD-5[2-2] = "R")

37	X(01)	WORD-7[1-1] <FILE PROTECTED?>	5	18	(40)
38	X(01)	WORD-7[2-2] <PERM. FILE?>	5	27	(44)
39	X(01)	WORD-7[3-3] <USER CREATOR OF FILE?>	5	29	(45)
40	X(01)	WORD-7[4-4] <IDS 1 FILE?>	5	32	(40)
41	X(01)	WORD-7[5-5] <ATTEMPT TO BREAK PROT?>	5	34	(40)
42	X(01)	WORD-7[6-6] <CATALOG PRESENT?>	5	24	(45)
43	X(02)	WORD-8[1-2] <CATALOG HASH>	5	19-23	(2)
45	X(01)	WORD-8[3-3] <FILLER>	N.A.		
46	X(01)	WORD-8[4-4] <RECORD TYPE {1,2}>	NOT IN INPUT		

Mass Storage Devices
(Structured Removable SR1 - WORD-8[4-4] = "1")
(WORD-5[2-2] = "R")

31	9(06)C	WORD-6-COMP <FINAL SIZE LLINKS>	4	14-35	
37	X(10)	SEE "STRUCTURED REMOVABLE - SR1, SR2 - FIXED PORTION".			
47	X(01)	WORD-8[5-5] <INIT. SIZE AVAILABLE?>	0	19	(45)
48	X(01)	WORD-8[6-6] <MEDIA MOUNTED?>	0	17	(40)
49	9(06)C	WORD-9-COMP <INIT. SIZE LLINKS>	2	0-21	
55	9(06)C	WORD-10-COMP <INIT. REL. LLINK>	3	14-35	
61	9(06)C	WORD-11-COMP <FINAL REL. LLINK>	2-3	22-43	

Mass Storage Devices
(Structured Removable SR2 - WORD-8[4-4] = "2")
(WORD-5[2-2] = "R")

31	X(06)	WORD-6 <PACK NUMBER>	4	0-35	
37	X(10)	SEE "STRUCTURED REMOVABLE - SR1, SR2 - FIXED PORTION".			
47	X(01)	WORD-8[5-5] <FILLER>	N.A		
48	X(01)	WORD-8[6-6] <MEDIA MOUNTED?>	0	17	(40)
49	X(06)	WORD-9 <FILLER>	N.A.		
55	X(06)	WORD-10 <FILLER>	N.A.		
61	X(06)	WORD-11 <FILLER>	N.A.		

Mass Storage Devices
(Fixed Device - Drum)
(WORD-5[2-2] = "F")

31	9(06)C	WORD-6-COMP <FINAL SIZE LLINKS>	4	14-35	
37	X(01)	WORD-7[1-1] <FILE PROTECTED?>	5	18	(40)
38	X(01)	WORD-7[2-2] <PERM. FILE?>			
39	X(01)	WORD-7[3-3] <USER CREATOR OF FILE?>	5	27	(44)
40	X(01)	WORD-7[4-4] <IDS 1 FILE?>	5	32	(40)
41	X(01)	WORD-7[5-5] <ATTEMPT TO BREAK PROT?>	5	34	(40)
42	X(01)	WORD-7[6-6] <CATALOG PRESENT?>	5	24	(45)
43	X(02)	WORD-8[1-2] <CATALOG HASH>	5	19-23	(2)
45	X(02)	WORD-8[3-4] <FILLER>	N.A.		
47	X(01)	WORD-8[5-5] <INIT. SIZE AVAIL.?>	0	19	(45)
48	X(01)	WORD-8[6-6] <FINAL SIZE AVAIL.?>	0	17	(45)
49	9(06)C	WORD-9-COMP <INIT. SIZE IN LLINKS>	2	0-21	
55	9(06)C	WORD-10-COMP <INIT. REL. LLINK>	3	14-35	
61	9(06)C	WORD-11-COMP <FINAL REL. LLINK>	2-3	22-43	

DAC/SYSOUT ENTRIES

DAC ENTRIES

1	X(06)	WORD-1 <TYPE ENTRY>	0	0- 2	(55)
7	X(06)	WORD-2 <DAC DEVICE TYPE>	0	6-11	(54)
13	X(02)	WORD-3[1-2] <FILE CODE>	0	24-35	
15	X(02)	WORD-3[3-4] <LOGICAL UNIT>	0	12-17	(1)
17	X(02)	WORD-3[5-6] <FILLER>	N.A.		

SYSOUT

1	X(06)	WORD-1 <TYPE ENTRY>	0	0- 2	(55)
7	X(06)	WORD-2 <FILLER>	N.A.		
13	X(02)	WORD-3[1-2] <DESTINATION ID>	0	6-17	
15	X(04)	WORD-3[3-6] <FILLER>	N.A.		

SYSOUT REPORT ENTRIES

1	X(02)	WORD-1[1-2] <MEDIA CODE>	0	0-17	(2)
3	X(02)	WORD-1[3-4] <REPORT CODE>	0	18-35	(2)
5	X(02)	WORD-1[5-6] <STATION ID>	1	6-17	
7	9(06)C	WORD-2-COMP <RECORD COUNT>	1	18-35	
13	X(06)	WORD-3 <FILLER>	N.A.		

RECORD 15C PERIPHERAL ENTRIES

WORD-1 becomes WORD-1-C
WORD-n becomes WORD-n-C

WORD-1-COMP becomes WORD-1-CC
WORD-n-COMP becomes WORD-n-CC

SCF RECORD NUMBER 016

JOB DELETE

EXPANDED DATA			UNEXPANDED DATA	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	NONE	
85	X(06)	DELETING-MODULE-NAME	14	0-35
91	X(06)	DELETING-REASON-CODE	15	0-35
97	9(06)C	DELETION-MSG-LENGTH	16	0-35
103	X(132)	REC016-REMAINDER	17-38	
103*	X(06)	WORD-1	17	0-35
109*	X(126)	NEXT-N-WORDS	18-38	

* Note that words 103 and beyond have been defined twice.

SCF RECORD NUMBER 017

SYSTEM INPUT

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(01)	FILLER	N.A.	
82	X(03)	SEC-CLASS-CODE	16	18-35
85	X(06)	JOB-ORIGIN	14	0-35
91	X(06)	ACTIVITY-TYPE	15	0-35
97	9(06)C	REQUESTED-JOB-URGENCY	16	0-17
103	X(06)	JOB-START-TIME	17	
103	9(06)C	START-TIME	17	0-35
109	9(06)	REQUESTED-MEMORY-LIMIT	18	0-35
115	9(06)	REQUESTED-PROCESSOR-LIMIT	19	0-35
121	X(60)	IDENT-IMAGE	20-29	

SCF RECORD NUMBER 101

CONNECT (USER HOST)

EXPANDED DATA			UNEXPANDED DATA	NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(78)	REC101-REMAINDER	14-26	0-35

SCF RECORD NUMBER 102

CONNECT (SERVER HOST)

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(78)	REC102-REMAINDER	14-26	0-35

SCF RECORD NUMBER 104

TERMINAL LOG-ON IDENTIFICATION

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(06)	WORD-1	14	0-35
85	9(06)C	WORD-1-COMP	14	0-35
91	X(06)	WORD-2	15	0-35
91	9(06)C	WORD-2-COMP	15	0-35
97	X(06)	WORD-3	16	0-35
97	9(06)C	WORD-3-COMP	16	0-35
103	X(06)	WORD-4	17	0-35
103	9(06)C	WORD-4-COMP	17	0-35
109	X(60)	IDENT-IMAGE	18-n	0-35

SCF RECORD NUMBER 108

TIME-SHARING USER

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(01)	FILLER	NONE	
82	X(03)	SEC-CLASS-CODE	16	18-35
85	9(06)C	TIME-ENTERED-SYSTEM	14	0-35
91	9(06)C	NO-TERMINAL-CHAR-TRANS	15	0-35
97	9(06)C	NO-DISK-IO-RQST	15	18-35
103	9(06)C	CORE-SECONDS-USED	17	0-35
109	9(06)C	CALCULATED-COST	18	0-35

SCF RECORD NUMBER 201

USER HOST SECURITY BREACH

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(33)	REC201-REMAINDER	14-18	0-35

SCF RECORD NUMBER 202

SERVER HOST SECURITY BREACH

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(30)	REC202-REMAINDER	14-18	0-35

SCF RECORD NUMBER 215

MME .EMM AUDIT

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(18)	REC215-REMAINDER	14-16	0-35

SCF RECORD NUMBER 216

FMS MASTER FUNCTION AUDIT

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	FILLER			
82	X(03)	SEC-CLASS-CODE	17	18-35	
85	X(06)	ACTIVITY-MNEMONIC	14	0-35	
91	X(12)	SMC-NAME	15-16	0-71	
103	X(06)	FMS-FUNCT-CODE	17	0-17	(52)
109	9(06)C	NO-WORD-DIAG-MSG	18	18-35	
115	X(132)	REC216-REMAINDER	19-N		
115	X(06)*	WORD-1	19*		
121	X(126)*	NEXT-N-WORDS	20*		

* These fields are redefinitions of characters 115 through the end of the record.

SCF RECORD NUMBER 217

MASTER SYSTEM USAGE JOURNAL

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	NONE	
85	X(138)	REC217-REMAINDER	14-n	
85*	X(06)	WORD-1	14	
91*	X(132)	NEXT-N-WORDS	15-n	

* These fields redefine REC217-REMAINDER

SCF RECORD NUMBER 218

TSS SECURITY VIOLATION

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	NONE	
85	X(270)	REC218-REMAINDER	14-N	
85	X(06)*	WORD-1	14	
91	X(264)*	NEXT-N-WORDS	15-N	

* These fields redefine REC218-REMAINDER

SCF RECORD NUMBER 402

CONSOLE OPERATOR VERBS

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(03)	CONSOLE-LOGICAL-NAME	13	24-35	
84	9(01)	IOM-NO	14	4- 5	(1)
85	9(02)	CHANNEL-NO	14	6-11	(1)
87	X(02)	FILLER	NONE		
89	9(02)	NO-WORDS-MSG	15	0-17	(1)
91	X(72)	REC402-REMAINDER	16-27		
91*	X(06)	WORD-1	16	0-35	
97*	X(66)	NEXT-N-WORDS	17-27		

* These fields redefine REC402-REMAINDER.

SCF RECORD NUMBER 403

GPOP PROGRAM START

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(12)	REC403-REMAINDER	14-15	0-35
85	X(06)	PROG-SNUMB-START	14	0-35
91	X(06)	PROG-NO-START	15	0-35

SCF RECORD NUMBER 404

PROGRAM DUMP

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(132)	REC404-REMAINDER	14-35	
217	X(06)	SLEW-CODE	36	

SCF RECORD NUMBER 405

TAPE/DISK MOUNT REQUEST AUDIT

EXPANDED DATA			UNEXPANDED DATA	NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s) Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(24)	REA405-REMAINDER	14-17	

SCF RECORD NUMBER 503

RESTART ACCOUNTING

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(18)	REC503-REMAINDER	14-16	
85*	X(15)	RESTART-RECORD	14	0-89
100*	9(03)	RESTART-NO	16	90-107

* These fields redefine REC503-REMAINDER.

SCF RECORD NUMBER 504

SYSTEM COUNTERS

EXPANDED DATA			UNEXPANDED DATA	NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s) Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(114)	REC504-REMAINDER	14-32	
85*	X(06)	WORD-1	14	
85*	9(06)C	WORD-1-COMP	14	
91*	X(108)	NEXT-N-WORDS	15-32	

* Note that these fields redefine REC504-REMAINDER

For this record, only the header is expanded. The format for characters 85 to 198 are identical to the information specified in words 14 to 32 in record type 504 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 506

TSS MEDIA ALLOCATION

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(30)	REC506-REMAINDER	14-18	

For this record, only the header is expanded. The format for characters 85 to 114 are identical to the information specified in words 14 to 18 in record type 506 in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 507

TSS STATISTICAL SUMMARY

EXPANDED DATA			UNEXPANDED DATA		NOTES
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(04)	FILLER	N.A.		
85	X(06)	TSS-STARTUP-TIME	14	0-35	
91	X(06)	TSS-STARTUP-DATE	15	0-35	
97	X(06)	TSS-CURRENT-TIME	16	0-35	
103	X(06)	TSS-CURRENT-DATE	17	0-35	
109	X(06)	HOURS-LOG-ON-TIME	18	0-35	
115	9(06)C	NO-LINES	19	0-17	
121	9(06)C	PERCENT-BUSY	19	18-35	
127	9(06)C	NO-USERS	20	0-17	
133	9(06)C	NO-REJECTS	20	18-35	
139	9(06)C	MAX-USERS	21	0-17	
145	9(06)C	CURRENT-USERS	21	18-35	
151	9(06)C	NO-BREAKS	22	0-17	
157	9(06)C	NO-DISCONNECTS	22	18-35	
163	9(06)C	NO-SUBSYS-STARTS	23	0-17	
169	9(06)C	NO-TERMINATES	23	18-35	
175	9(06)C	NO-SUBSYS-KILLS	24	0-17	
181	9(06)C	AMOUNT-CORE	24	18-35	
187	9(06)C	NO-ALARMS-WAIT-IO	25	0-17	
193	9(06)C	NO-ALARMS-USER	25	18-35	
199	9(06)C	NO-SWAPOUTS	26	0-17	
205	9(06)C	NO-1K-SWAPPED	26	18-35	
211	9(06)C	NO-TERM-KEYBOARD-IO-SWAPS	27	0-17	
217	9(06)C	NO-SNUMBS	27	18-35	
223	9(02)	ELAPSED-TIME-0-2	28	0-17	(1)
225	9(02)	ELAPSED-TIME-2-5	28	18-35	(1)
227	9(02)	ELAPSED-TIME-5-9	29	0-17	(1)
229	9(02)	ELAPSED-TIME-9-15	29	18-35	(1)
231	9(02)	ELAPSED-TIME-15-25	30	0-17	(1)
233	9(02)	ELAPSED-TIME-25-50	30	18-35	(1)
235	9(02)	ELAPSED-TIME-50-75	31	0-17	(1)
237	9(02)	ELAPSED-TIME-75-125	31	18-35	(1)
239	9(02)	ELAPSED-TIME-125-200	32	0-17	(1)
241	9(02)	ELAPSED-TIME-200-9999	32	18-35	(1)
243	9(02)	PROG-SIZE-0-2	33	0-17	(1)
245	9(02)	PROG-SIZE-3-5	33	18-35	(1)
247	9(02)	PROG-SIZE-6-8	34	0-17	(1)
249	9(02)	PROG-SIZE-9-11	34	18-35	(1)
251	9(02)	PROG-SIZE-12-14	35	0-17	(1)
253	9(02)	PROG-SIZE-15-20	35	18-35	(1)
255	9(02)	PROG-SIZE-21-26	36	0-17	(1)

257	9(02)	PROG-SIZE-27-35	36	18-35	(1)
259	9(02)	PROG-SIZE-36-50	37	0-17	(1)
261	9(02)	PROG-SIZE-51-9999	37	18-35	(1)
263	9(02)	NO-FILE-IO-10-10	38	0-17	(1)
265	9(02)	NO-FILE-IO-11-25	38	18-35	(1)
267	9(02)	NO-FILE-IO-26-50	39	0-17	(1)
269	9(02)	NO-FILE-IO-51-100	39	18-35	(1)
271	9(02)	NO-FILE-IO-101-200	40	0-17	(1)
273	9(02)	NO-FILE-IO-201-500	40	18-35	(1)
275	9(02)	NO-FILE-IO-501-1000	41	0-17	(1)
277	9(02)	NO-FILE-IO-1001-2000	41	18-35	(1)
279	9(02)	NO-FILE-IO-2001-5000	42	0-17	(1)
281	9(02)	NO-FILE-IO-5001-9999	42	18-35	(1)
283	X(1626)	REC507-REMAINDER *1	43-312		
289*	X(06)	WORD-1	43		
289*	9(06)C	WORD-1-COMP	43	0-23	
295*	X(06)	WORD-2	44		
295*	9(06)C	WORD-2-COMP	44	24-35	
301*	X(06)	WORD-3	45		
301*	9(06)C	WORD-3-COMP	45	0-11	
307*	X(06)	WORD-4	46		
307*	9(06)C	WORD-4-COMP	46	12-23	
313*	X(06)	WORD-5	47		
313*	9(06)C	WORD-5-COMP	47	24-35	
319*	X(1590)	NEXT-N-WORDS	48-312		

* Note that these fields redefine REC507-REMAINDER.

For this record, only parts of the record are expanded. The format for characters 283 to 1908 are identical to the information specified in words 43 to 312 in record type 507 in the SCF unexpanded record formats in Section I of this document.

*1 The format is as follows

. 76 words of derail counts

. 1 word giving number of subsystem entries

. the subsystem entries (except last 5 words)

. last 5 words - TSS summary statistics

SCF RECORD NUMBER 507C

TSS STATISTICAL SUMMARY

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	9(06)C	NO-SUBSYS-ENTRIES-C	NOT IN ORIGINAL RECORD	
91	X(1824)	REC507C-REMAINDER	14-317	
91*	X(06)	WORD-1-C	14	0-35
91*	9(06)C	WORD-1-CC	14	0-35
97*	X(06)	WORD-2-C	15	0-35
97*	9(06)C	WORD-2-CC	15	0-35
103*	X(06)	WORD-3-C	16	0-35
103*	9(06)C	WORD-3-CC	16	0-35
109*	X(06)	WORD-4-C	17	0-35
109*	9(06)C	WORD-4-CC	17	0-35
115*	X(06)	WORD-5-C	18	0-35
115*	9(06)C	WORD-5-CC	18	0-35
121*	X(1794)	NEXT-N-WORDS-C	19-317	

* Note that these fields redefine the field REC507C-REMAINDER.

For this record, only the header is expanded. The format for characters 91 to 1914 are identical to the information specified in words 14 to 317 in record type 507 (continuation) in the SCF unexpanded record formats in section I of this document.

SCF RECORD NUMBER 508

TSS TEST AND MEASUREMENT

EXPANDED DATA			UNEXPANDED DATANOTES		
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)	
1	X(80)	STANDARD RECORD HEADER	0-13		
81	X(01)	TALLY-INITIALIZED	30	18	(40)
82	X(03)	SEC-CLASS-CODE	43	18-35	
85	X(06)	SUBSYSTEM-NAME	14	0-35	(4)
91	9(06)C	TIME-ENTERED-SYSTEM	15	0-35	
97	X(36)	TSS-TIME-QUANTUMS	16-21		
97	9(06)C	T-TERM-ROADBLOCK	16	0-35	
103	9(06)C	T-SWAPPING-OUT	17	0-35	
109	9(06)C	T-IN-MEM-NOT-SWAPPED	18	0-35	
115	9(06)C	T-SWAPPED-OUT	19	0-35	
121	9(06)C	T-WAIT-MEM	20	0-35	
127	9(06)C	T-WAIT-MEM-AFTER-SWAP	21	0-35	
133	X(12)	ACCUMULATED-TIME-QUANTUMS	22-23		
133	9(06)C	ACC-TIME-TYPE-LTCN	22	0-35	
139	9(06)C	ACC-RESPONSE-TIME	23	0-35	
145	X(78)	TSS-SUBSYS-NUMBER-QUANTUMS	24-31		
145	9(06)C	NO-SWAP-WAIT-TERM-IN	24	0-17	
151	9(06)C	NO-SWAP-WAIT-TERM-OUT	24	18-35	
157	9(06)C	NO-TRO-FAULTS-GELBAR	25	0-17	
163	9(06)C	NO-DISP-NOT-IO-INTERR	25	18-35	
169	9(06)C	NO-TERM-IN-RQST	26	0-17	
175	9(06)C	NO-TERM-OUT-RQST	26	18-35	
181	9(06)C	NO-FORCED-SWAPS	27	0-17	
187	9(06)C	NO-SWAPOUTS-SWAPINS	27	18-35	
193	9(06)C	NO-TERM-IO-DRLS	28	0-17	
199	9(06)C	NO-DRLS	28	18-35	
205	9(06)C	NO-TIMES-XTRA-MEM-ADD	29	0-17	
213	9(06)C	NO-BUFFERS-USED	29	18-35	
217	9(06)C	NO-TIMES-INCONSISTENT	30	0-26	
223	X(03)	TIME-TYPE	30	27-35	(2)
226	X(03)	FILLER	N.A.		
229	X(06)	UST-OR-EMB-BUFFER	31	0-18	(2)
235	X(114)	MISC-TSS-SUBSYS-DATA	32-43		
235	9(06)C	BAR-REL-TO-TSS	32	0-17	
241	9(06)C	SS-SIZE-WORDS	32	18-35	
247	9(06)C	ACC-SS-PROC-TIME	33	0-35	
253	9(06)C	ACC-PROC-TIME-LOG-ON	34	0-35	
259	9(06)C	SUM-USER-MEM-SEC	35	0-35	
265	9(06)C	NO-TERM-OUT-8-LOG-ON	36	0-17	
271	9(06)C	NO-DISK-IO-LOG-ON	36	18-35	
277	9(06)C	NO-TERM-OUT-8-SS-START	37	0-17	
283	9(06)C	NO-DISK-IO-START	37	18-35	

289	9(06)C	TIME-LAST-TERM-IO	38	0-35	
295	9(06)C	SUM-MEM-REQ-NO-USERS	39	0-17	
301	9(06)C	NO-USERS-NEED-MEM	39	18-35	
307	9(06)C	MAX-NO-USERS-START	40	0-17	
313	9(06)C	CURRENT-NO-USERS	40	18-35	
319	9(06)C	NO-URGENT-USERS	41	0-35	
325	9(06)C	LOWER-MEM-LIMIT	42	0-17	
331	9(06)C	UPPER-MEM-LIMIT	42	18-35	
337	9(06)C	NO-UST-ENTRIES	43	0-17	
343	9(06)C	MEM-ADDR-FIRST-UST	43	18-35	
349	9(06)C	NO-WORDS-MEM-MAP	44	0-17	
355	X(1600)	REC508-REMAINDER	45-305		
355	X(1600)*	MEM-MAP	45-305		
355	X(06)*	WORD-1	45	0-35	(2)
355	X(1594)*	NEXT-N-WORDS	46-305		

* These fields redefine REC508-REMAINDER.

SCF RECORD NUMBER 510

TRANSACTION PROCESSING SYSTEM STATISTICAL RECORD

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(06)	STARTUP-DATE	14	0-35
91	9(06)C	STARTUP-TIME	15	0-35
97	9(06)C	CURRENT-TRANS-NO	16	0-35
103	9(06)C	NO-REJECT-TERM	17	0-35
109	9(06)C	NO-REJECT-TRANS	18	0-35
115	9(06)C	TOTAL-NO-POOL-BUFF	19	0-17
121	9(06)C	MAX-NO-BUFF-USED	19	18-35
127	9(06)C	OUTPUT-THRESHOLD	20	0-17
133	9(06)C	MAX-USE-OUTPUT-THRESHOLD	20	18-35
139	9(06)C	THRESHOLD-COUNT-OUTBUF	27	0-35
145	9(06)C	COUNT-OUTBUF-RELEASE	35	0-17
151	9(06)C	TRABUF-THRESHOLD	21	0-17
157	9(06)C	MAX-USE-TRABUF	21	18-35
163	9(06)C	THRESHOLD-COUNT-TRABUF	28	0-35
169	9(06)C	COUNT-TRABUF-RELEASE	35	18-35
175	9(06)C	BPOOL-THRESHOLD	22	0-17
181	9(06)C	MAX-USE-BPOOL	22	18-35
187	9(06)C	THRESHOLD-COUNT-BPOOL	30	0-35
193	9(06)C	INPUT-THRESHOLD	23	0-17
199	9(06)C	MAX-USE-INPUT	23	18-35
205	9(06)C	THRESHOLD-COUNT-INPUT	24	0-35
217	9(06)C	COUNT-INPUT-ACQUIRED	31	0-17
223	9(06)C	COUNT-INPUT-REFUSALS	31	18-35
229	9(06)C	THRESHOLD-COUNT-LINK	25	0-35
235	9(06)C	THRESHOLD-COUNT-RECOVERY	26	0-35
241	9(06)C	THRESHOLD-COUNT-UNDOT	29	0-35
247	9(06)C	COUNT-FAIL-ENABLE-SPAWN	32	0-17
253	9(06)C	COUNT-JOBS-TERMINATED	32	18-35
259	9(06)C	COUNT-WRITE-INTERCOM	33	0-17
265	9(06)C	COUNT-READ-INTERCOM	33	18-35
271	9(06)C	COUNT-LOST-INTERR-WRITE	34	0-17
277	9(06)C	COUNT-LOST-INTERR-READ	34	18-35
283	9(06)C	COUNT-JI-JO-WRAP	36	0-35
289	9(06)C	NO-TPAPS	NOT IN INPUT	
295	X(1620)	REC510-REMAINDER	37-306	
295*	X(1620)	TPAP-ENTRY	37-306	
295*	X(03)	TPAP-ID	37	0-17
298*	X(03)	FILLER	N.A.	
301*	9(06)C	COUNT-SPAWNS	37	18-35
307*	9(06)C	COUNT-TRANS-ACCEPT	38	0-17

313*	9(06)C	COUNT-TRANS-COMPLETE	38	18-35
319*	9(06)C	NO-KEYWORDS	39	0-35
325*	X(1590)	KEYWORD-ENTRY	40-304	
325*	X(08)	KEYWORD	40-41	0-48
333*	X(04)	FILLER	N.A.	
337*	9(06)C	KEYWORD-USE-COUNT	41	18-35
343*	X(1572)	NEXT-N-WORDS	42-303	

* Note that these fields redefine REC510-REMAINDER.

1. TPAP entries are always complete and never "broken" (i.e., you will not find one half of a TPAP entry on 510 and one half on a 510 continuation record).

SCF RECORD NUMBER 510C

TRANSACTION PROCESSING SYSTEM STATISTICAL RECORD

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	9(06)C	NO-TPAPS-C	NOT IN INPUT	
91	X(1818)	REC510C-REMAINDER	14-316	
91	X(1818)	TPAP-ENTRY-C	14-316	
91	X(03)	TPAP-ID-C	14	0-17
94	X(03)	FILLER	N.A.	
97	9(06)C	COUNT-SPAWNS-C	14	18-35
103	9(06)C	COUNT-TRANS-ACCEPT-C	15	0-17
109	9(06)C	COUNT-TRANS-COMPLETE-C	15	18-35
115	9(06)C	NO-KEYWORDS-C	16	0-35
121	X(1788)	KEYWORD-ENTRY-C	17-314	
121	X(08)	KEYWORD-C	17-18	0-48
129	X(04)	FILLER	N.A.	
133	9(06)C	KEYWORD-USE-COUNT-C	18	18-35
139	X(1770)	NEXT-N-WORDS-C	19-314	

SCF RECORD NUMBER 511

TOTAL ON-LINE TEST SYSTEM

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	
81	X(04)	FILLER	N.A.	
85	X(510)	REC511-REMAINDER	14-124	
85*	X(510)	TOLTS-MSG	14-124	
85*	X(06)	WORD-1	14	0-35
91*	X(504)	NEXT-N-WORDS	15-124	

* These fields redefine REC511-REMAINDER.

For this record, only the header is expanded. The format for characters 85 to 595 are identical to the information specified in words 14 to 124 in record type 511 in the SCF expanded record formats in section I of this document.

SCF RECORD NUMBER 515

CONNECT (SERVER HOST)

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER		
85	X(1824)	REC515-REMAINDER	14-318	0-35

SCF RECORD NUMBER 934

USER SECURITY MATRIX ADDITION/CHARGE

EXPANDED DATA			UNEXPANDED DATANOTES	
Start Char. Position	Format & Size	WWDMS Data Name	Word(s)	Bit(s)
1	X(80)	STANDARD RECORD HEADER	0-13	0-35
81	X(04)	FILLER	N.A.	
85	X(24)	REC934-REMAINDER	14-19	0-35

For this record, only the header is expanded. The format for characters 85 to 108 are identical to the information specified in words 14 to 19 in record type 934 in the SCF unexpanded record formats in section I of this document.

NOTES

(1) This field is converted from binary integer to its decimal equivalent.

(2) This field is converted from binary integer to its octal equivalent.

(3) This field is converted from binary integer to its hexadecimal equivalent.

(4) This field is converted from ASCII to its BCD character equivalent.

(5)-(45) This field is of limited size (1 bit) and therefore may contain only a small (2) number of values. The tables below completely describe both the expanded (1 character) and the unexpanded (1 bit) values for the specified data item.

Note	bit=0	bit=1	GMAP Reference
(5)	.	1	TI..1
(6)	.	2	TI..2
(7)	.	3	TI..3
(8)	.	4	TI..4
(9)	.	9	TI..9
(10)	.	A	TI..A
(11)	.	C	TI..C
(12)	.	D	TI..D
(13)	.	E	TI..E
(14)	.	F	TI..F
(15)	.	G	TI..G
(16)	.	I	TI..I
(17)	.	J	TI..J
(18)	.	L	TI..L
(19)	.	M	TI..M
(20)	.	N	TI..N
(21)	.	P	TI..P
(22)	.	R	TI..R
(23)	.	S	TI..S
(24)	.	T	TI..T
(25)	.	U	TI..U
(26)	.	W	TI..W
(27)	C	N	TI.CN
(28)	F	N	TI.FN
(29)	F	R	TI.FR
(30)	G	L	TI.GL
(31)	L	H	TI.LH
(32)	L	N	TI.LN
(33)	N	A	TI.NA

(34)	N	D	TI.ND
(35)	N	I	TI.NI
(36)	N	J	TI.NJ
(37)	N	P	TI.NP
(38)	N	S	TI.NS
(39)	N	W	TI.NW
(40)	N	Y	TI.NY
(41)	R	S	TI.RS
(42)	S	R	TI.SR
(43)	T	I	TI.TI
(44)	T	P	TI.TP
(45)	Y	N	TI.YN

(46) CONTINUATION INDICATOR

Character	Continuation Code	Meaning
space	0	First record, no continuation record
F	1	First record, continuation(s) follow
I	2	Intermediate continuation
L	3	Last continuation record

(47) DISPOSITION CODE

Character	Value	Meaning
R	0	Release
D	1	Dismount
S	2	Save
C	3	Continue
$	4-7	Secondary file entry

(48) RECOVERY PERMISSION

Mnemonic	Value	Meaning
***	0	Recovery allowed/requested
REC	1	Recovery not allowed/requested

(49) TAPE DENSITY CODES

Mnemonics	Density Code Decimal	Octal	Density Description
00	0	0	As Is (No IOS Mapping)
02	1	1	200 BPI
05	2	2	556 BPI
08	4	4	800 BPI
16	9	11	1600 BPI
SD	15	17	System Default
UD			Unknown Density Code

(50) HANDLER CAPABILITY CODES

Mnemonic	Capability Code Decimal/Octal		Capability Codes
258	1	1	200, 556, 800 BPI
ALL	4	4	200, 556, 800, 1600 BPI
58	8	10	556, 800 BPI
816	9	11	800, 1600 BPI
UC			Unknown Capability Code

(51) END-OF-ACTIVITY CODES

Mnemonic	Value	Meaning
N	0	Normal Termination
F	1	Activity Faulted
A	2	Activity Aborted
K	3	Activity Killed
U		Unknown Activity Code

(52) FMS FUNCTION CODES

Mnemonic	Function Code Octal/Decimal	Description
SETPRI	00/00	Privity Check
CRMAST	01/01	Create SMC Entry
CCREAT	02/02	Catalog Create
FCREAT	03/03	File Create
ALCFIL	04/04	File Allocate
CKFALC	05/05	File Allocate Check
DLCFIL	06/06	File Deallocate
PATALC	07/07	File Reallocate
CPURGE	10/08	Catalog Delete
FPURGE	11/09	File Purge
CMOD	12/10	Catalog Modify
FMOD	13/11	File Modify
MODMAS	14/12	Modify SMC Entry
DELMAS	15/13	Delete SMC Entry
QRYMST	16/14	Query SMC Entry
UPDMST	17/15	Update then Query
1STMST	20/16	Get First Master
NXTMST	21/17	Get Next Master
CURRNT	22/18	Cet Catalog or File Descriptic
GTFSUB	23/19	Get First Subordinate
GTNSUB	24/20	Get Next Subordinate
GETSPC	25/21	Get Specific Catalog Record
FRELES	26/22	File Release
FQUERY	27/23	File Query
CRPACK	30/24	Create PMC Entry
MODPAC	31/25	Modify PMC Entry
DELPAC	32/26	Delete PMC Entry
RPURGE	33/27	Reference Delete
SLOCK	34/28	Security Lock Catalog or File
ALOCK	35/29	Abort Lock File
RDDUPF	36/30	Read from Duplicate or Original File
CANCHG	37/31	Cancel File Changes
CHGCMP	40/32	Indicate File Changes Complete
CMPCAN	41/33	Indicate File Changes Complete or Cancel File Changes
DEFSPC	42/34	Identify Defective Space
RPLDFS	43/35	Replace and/or Re-mark Defective Space
SMCACT	44/36	Produce Accounting Records

Mnomonic	Function Code Octal/Decimal	Description
DMCACT	45/37	Intialize System and Boot Sequence Numbers
CFCHNG	50/40	Cancel File Changes
POSTCH	51/41	Regard Changes as Complete
GCLLNK	52/42	Locate Sector for Catalog Record
FILINF	53/43	Provide Allocated File Information
USBEFR	54/44	User-supplied Befores
FQAFIL	56/46	File Query for Allocated File
WHAT		Unknown Function Code

(53) GCOS DEVICE CODES

Mnemonic	Device Codes Decimal	Octal	Device Descriptions
DDN355	01	01	DATANET 355/6600 Processor
TMTS	08	10	Magnetic Tape Subsystem
TMT7AS	09	11	Magnetic Tape Subsystem - ASA7 Track
TMT9AS	10	12	Magnetic Tape Subsystem - ASA9 Track
TMT457	11	13	MTS500 or MTU0400/MTU0500 Magnetic Tape Subsystem - 7 Track
TMT459	12	14	MTS500 or MTU0400/MTU0500 Magnetic Tape Subsystem - 9 Track
TMT607	13	15	MTU0600 Magnetic TApe Subsystem - 7 Track
TMT609	14	16	MTU0600 Magnetic Tape Subsystem - 9 Track
UCR201	17	21	CRZ201 Card Reader
UCP230	19	23	CPZ201 or PCU0300 Card Punch
	20	24	PRT401 of PRU1200 Printer - MPC
UPR426	20	24	PRT402 or PRU1600 Printer - MPC
UPR300	21	25	PRT300 Printer
UPR201	22	26	PRT201 Printer
UPT265	23	27	PTS200 or PTS0650 Paper Tape Subsystem
CCONSL	24	30	Console (Typewriter)
CSCC	25	31	System Control Center or CSU6001/CSU6002 Console
UCP312	26	32	CPZ300 or PCU0120 Card Punch
UCP301	27	33	CPZ301 Card Punch
UCR310	28	34	CRZ301 or CRU1050 Card Reader
UPR303	29	35	PRT303 Printer
UPR211	30	36	PRT203 or PRU1100 Printer
DDN305	31	37	DATANET 30/305 Front-End Network Processor (Series 6000 only)
MDS167	34	42	DSS167 Disk Storage Subsystem-REM (Removable)
MDS170	37	45	DSS170 Disk Storage Subsystem-REM (Removable)
MDS180	38	46	DSS180 Disk Storage Subsystem-REM (Removable)
MDS270	40	50	DSS270 Disk Storage Subsystem-FIX (Fixed)
BBSS	42	52	Bulk Store Subsystem
MDS181	48	60	DSS181Disk Storage Subsystem-REM

			(Removable)
MDS190	49	61	DSS190Disk Storage Subsystem-REM (Removable)
MDS191	50	62	DSS191 Disk Storage Subsystem-REM (Removable)
MMS300	51	63	MSU0310 Mass Storage Subsystem-REM (Removable)
MMS400	52	64	MSU0400 Mass Storage Subsystem-REM
MMS450	53	65	MSU0450 Mass Storage Subsystem-REM (Removable)
WWHAT			Device mnemonic used for device codes not found in this table....

(54) GRTS TERMINAL TYPE CODES

Mnemonic	Function Code Octal/Decimal	Description
REMOTE	03/03	Remote Computer
TTY	04/04	Teleprinter
D76446	05/05	DATANET 760 VIP-4x46 Characters
D76846	06/06	DATANET 760 VIP-8x46 Characters
D76146	07/07	DATANET 760 VIP-16x46 Characters
D76246	10/08	DATANET 760 VIP-26x46 Characters
V76575	11/09	765/775 VIP-22x46 Characters
V785	12/10	785 VIP-22/96 Characters
V71280	13/11	7700 VIP-12x80 Characters
V72246	14/12	7700 VIP-22x46 Characters
V72480	15/13	7700 VIP-24x80 Characters
T2741	20/16	2741 Teletypewriter
RLP300	23/19	RLP300 remote Line Printer
MSL	25/21	Mass Store Link
T&D	40-50/32-40	Reserved for T and D
USER	61-77/49-63	Reserved for Customer Use

(55) DAC/SYSOUT ENTRY CODES

Mnemonic	Value	Entry Description
ZDFALT	0	File defaulted to SYSOUT
ZDAC	1	File assigned to terminal
ZRMTE	2	File assigned to remote
ZSYSOUT	4	File assigned to SYSOUT
ZWHAT		Code not found in this table

(56) GEIN DELETION CODES

MNEMONIC/VALUE	DELETION MESSAGE
THSR01	Illegal $SNUMB, job deleted
THSR02	Bad $IDENT card
THSR03	Valid $USERID control card missing
THSR04	Multiple $USERID's are illegal
THSR05	Valid SCC missing on $SNUMB
THSR06	$CONTROL card sequence error
THSR07	Card has illegal character
THSR08	Card encountered trouble
THSR09	Card has bad checksum, operator aborted
THSR10	Card has bad checksum, operator continued
THSR11	$DKEND card missing
THSR12	Invalid $SELECT syntax
THSR13	$SELECT password incorrect
THSR14	Imbedded $SNUMB in $SELECT file illegal
THSR15	$SELECT greater than 10 deep
THSR16	GEFYSE error
THSR17	Input non-system standard
THSR18	Unknown transliteration type
THSR19	*J PAT tumbled - cannot continue
THSR20	IMCV read error
THSR21	Bad data format on IMCV
THSR22	IMCV read error, job was deleted
THSR25	Fatal I/O error - job must be rerun
TASK01	Undefined file
TASK02	Duplicate SNUMB
TASK04	No program number available
TASK05	Activity name undefined
TASK06	Limits out of range (time, memory, etc.)
TASK07	Bad status (R/W on *J)
TASK08	System out of file space (pushdown file)
TASK09	No *J provided
TASK10	Incorrect entry to DRL task
TASK11	Too many users of DRL task
WRONG	Unknown deletion code

(57) RGIN DELETION CODES

SCHD01	Operator delete
SCHD02	Class catalog exhausted
SCHD03	MSL I/O error
SCHD04	$$MSG3 card -- Bad date
SCHD05	$ MSG3 Card -- Bad time interval
SCHD06	I/O Error
SCHD07	Bad J* from SYS SCHED

APPENDIX A
SUMMARY OF SCF RECORDS BY CURRENT NUMBER

New No.	Old No.	Record Description	Reason
001	05	System Input	Job input statistics
003	26	Peripheral Allocation	Completion of activity peripheral allocation
004	18	FMS Allocate/Deallocate	File access and/or breach
005	17	FMS User Function Audit	Create or delete file; modify security or abort locks
006	15	FMS Accounting	TSS restart or prmfl create or delete
007	22	Permanent File I/O Error	I/O error on prmfl
008	21	FMS Error Detection	FMS detected error
009	03	I/O Error Accounting Record	I/O error
010	27	Dynamic Media Allocation	MME GEMORE
011	28	Dynamic Release of Media	MME GEMREL or MME GERELS file
012		Secure Protected File	
013	06	System Snapshot Dump	Snapshot Dump
014	02	SYSOUT Report Writer	Job output to media
015	01	Activity Accounting	Activity termination
015	08	Activity Accounting	01 overflow
	11	Not used	
016	-	Job Delete	Job deleted by GEIN or PALC
017	-	System Input	
101	-	Connect (User Host)	
102	-	Connect (Server Host)	
104	25	Terminal Log-on Identification	Terminal log-on
108	07	Time-Sharing User	TSS user log-off
201	-	User Host Security Breach	
202	-	Server Host Security Breach	
215	30	MME .EMM Audit	User Slave program requests Master Mode
216	16	FMS Master Function Audit	Create or delete SMC/PMC
217	24	Master System Usage Journal	Master function utilization
218	23	TSS Security Violation	Security breach
402	12	Console Operator Verbs	Operator request
	13	Unused	
403	-	GPOP Program Start	Request to start a sys. prog.
404	06	Program Dump	Snapshot dump
405	-	Tape/Disk Mount Request Audit	Request by PALC or MORE to mount tape or disk
503	09	Restart Accounting	System Restart
504	-	System Counters	Job begin and end
505	-	DN355 System-Oriented Record	
506	29	TSS Media Allocation	TSS allocation of temporary
507	14	TSS Statistical Summary	Site-defined intervals
508	19	TSS Test and Measurement	TSS subsystem terminate
510	10	Transaction Processing System Statistical Record	
511	04	TOLTS Statistical Record	TOLTS console messages
515	-	PWIN Host Software Instrumentation	

934	20	User Security Matrix Addition/Charge	Add or modify User Security Matrix

APPENDIX B
SUMMARY OF SCF RECORDS BY OLD NUMBER

Old No.	New No.	Record Description	Reason
01	015	Activity Accounting	Activity termination
02	014	SYSOUT Report Writer	Job output to media
03	009	I/O Error Accounting Record	I/O error
04	511	TOLTS Statistical Record	TOLTS console messages
05	001	System Input	Job input statistics
06	404	System Snapshot/Program Dump	Snapshot dump
	013		
07	108	Time-Sharing User	TSS user log-off
08	015	Activity Accounting	01 overflow
09	503	Restart Accounting	System Restart
10	510	Transaction Processing System	
11		Not used	
		Statistical Record	
12	402	Console Operator Verbs	Operator request
			Unused
14	507	TSS Statistical Summary	Site-defined intervals
15	006	FMS Accounting	TSS restart or prmfl create or delete
16	216	FMS Master Function Audit	Create or delete SMC/PMC
17	005	FMS User Function Audit	Create or delete file; modify security or abort locks
18	004	FMS Allocate/Deallocate	File access and/or breach
	012	Secure Protected File	
19	508	TSS Test and Measurement	TSS subsystem terminate
20	934	User Security Matrix Addition/Charge	Add or modify User Security Matrix
21	008	FMS Error Detection	FMS detected error
22	007	Permanent File I/O Error	I/O error on prmfl
23	218	TSS Security Violation	Security breach
24	217	Master System Usage Journal	Master function utilization
25	104	Terminal Log-on Identification	Terminal log-on
26	003	Peripheral Allocation	Completion of activity peripheral allocation
27	010	Dynamic Media Allocation	MME GEMORE
28	011	Dynamic Release of Media	MME GEMREL or MME GERELS
29	506	TSS Media Allocation	TSS allocation of temporary file
30	215	MME .EMM Audit	User Slave program requests Master Mode
-	016	Job Delete	Job deleted by GEIN or PALC
-	403	GPOP Program Start	Request to start a sys. prog.
-	405	Tape/Disk Mount Request Audit	Request by PALC or MORE to mount tape or disk
-	504	System Counters	Job begin and end
-	017	System Input	
-	101	Connect (User Host)	
-	102	Connect (Server Host)	

- 201 User Host Security Breach
- 202 Server Host Security Breach
- 505 DN355 System-Oriented Record
- 515 PWIN Host Software Instrumentation