SIGMA 6,7,9 and XEROX 560 CP-V

Author: XEROX (November 1974)

1.0   BP REFERENCE MANUAL UPDATES

Page 3 - Figure 2

Under "System Management Processors", delete the (OB) after DEVDMP
which is a stand-alone processor.

Page 20 - Column 1

Change the paragraph following "INPUT FILES" to read:

"This is the same as for direct access input files."

Page 20 - Column 1

Delete the entire "NOTE" which follows "UPDATE FILES".

Page 27 - Column 2

Delete the part of the second sentence in step 2 which reads:

"ORG should be zero,"

Page 27 - Column 2

Change the example following step 2 to read:

```
OPENSYNON    GEN,8,24    X'14',M:EO
             DATA        X'41000001'
             DATA        ABN           ABN
             DATA        4             INOUT
             DATA        X'01000808'
PARENT       RES         8
             DATA        X'0B010808'
SYNONYM      RES         8
```

Page 27 - Column 2

Change the first sentence in step 4 to read:

"Once the synonymous file has been created, the SYNON name...."

Page 28 - Column 1

Insert the following paragraph after the third paragraph:

The term "alphanumeric" when used in conjunction with any of the
following control commands is defined as any combination of the
following characters:

A-Z, a-z, 0-9, ←, $, *, %, :, #, @, -

except where explicitly noted otherwise.

Page 83 - Column 1

Change the M:CHECKECB FPT as follows:

Change "word 2" to "Option EVENTS (P1)".

Change "word 3" to "Option TIME (P2)".

Change "word 4" to "Option ECB".

Delete "word 5".

Add to the sentence "Addresses and lengths of additional ECB
areas" the sentence "(one pair for each ECB specified)".

Change "word n(P2)" to "Option ECBL".

Delete "word n+1(P2)".

Add to the sentence "Addresses and lengths of additional ECB
areas" the sentence "(one pair for each ECBL specified)".

Page 90 - Column 2

Delete the last sentence in the description of NXTA which reads:

"It is not applicable for ANS labeled tapes".

Page 90 - Column 2

Delete the second last sentence in the description of NXTF which reads:

"NXTF is not applicable for ANS labeled tapes."

Page 97 - Column 1

Delete the last sentence in the description for NXTA which reads:

"It is not applicable for ANS labeled tape."

Page 97 - Column 1

Delete the second last sentence in the description for NXTF which reads:

"NXTF is not applicable to ANS labeled tape."

Page 112 - Column 2

Change the last sentence in the M:DEVICE TAB option description to read:

"A value of 0 specified at TABi causes TAB$\underline{i}$ through TAB16 to be...."

Page 126

Insert the following option between the "MAP" option and "LDEF" option:

MAPONLY [,NAME][,VALUE] specifies mapping an existing load module. The output is the same as that described for MAP above.

Page 148 - Column 1

Change the second sentence in the description of "segment" to read:

"If the segment name is omitted, the specified area currently in core will be dumped. To dump only the root, the name of the root segment is specified."

Page 148 - Column 2

Change the first sentence of the paragraph following the first !PMD
example to read:

"This example specifies that the data areas of the program
currently in core are to be dumped."

Page 160 - Column 2

Change the fourth sentence in the first paragraph to read:

"If blank characters are included, or multiple serial numbers
specified, the serial numbers......"

Page 161 - Column 1

Change Specification Example 3 to read:

AT#'123ϐϐϐ'#'456ϐϐϐ'-BT/MYFILE

Page 168 - Table 30

Within the "Modes" Valid Option Combinations make the following changes:

Change the "BSCF" under modes to "ASCI".

Make the following table changes:

DESTINATION DEVICE

CODES	LT	DP	FT	ME
ASCI	X	-	X	-
EBCD	d	-	d	-
DEN	X	-	X	-

Page 175 - Column 1

Change the form of the PCL termination command to read:

E[ND]

Page 177 - Table 31

Add the following PCL Error Code to the table.

DECIMAL CODE	MESSAGE	SEVERITY LEVEL
57	Tape Density Specification is in error	3

Page 207

Add the following sentence to both the "CIS" and "COS" descriptions:

"When the DCB is open, this field is always zero if not assigned to tape."

Page 211

Delete "CCF" in word 5 by hachuring the field.

Page 214

Delete the "CCF" description altogether.

Page 226 - Table B-1

Add the following Abnormal Code after the "0800" code.

09	00	RDERLOG	Attempt to close and return a device which was not partitioned.

Page 227 - Table B-1

Change the second sentence of code "0907" description to read:

"...by user is invalid, or there is insufficient...."

Page 227 - Table B-1

Add the following Abnormal Code after the "090E" code.

09	OF	RDERLOG	Cannot get MPOOL for use in processing command list or MPOOL is less than 13 words long.

Page 228 - Table B-1

Add the following Abnormal Code after the "1413" code.

14	14	OPEN	An access vehicle has opened an execute only file.

Page 233 - Table B-5

Change the "A40B" Error Code Meaning from "Storage" to "Programmed Trap".

Change the "A40C" Error Code Originating Monitor Routine from "TRAP" to "CSEHAND".

Page 237 - Table B-5

Add the following Monitor Error Codes to the table.

Error Code	Sub Code	Originating Monitor Routine	Meaning of Code
7F	1D	INITRCVR	Single User Abort due to Software Check 1D
7F	21	"	" 21
7F	22	"	" 22
7F	31	"	" 31
7F	32	"	" 32
7F	61	"	" 61
7F	6A	"	" 6A
7F	79	"	" 79
7F	7C	"	" 7C
7F	7E	"	" 7E

TS REFERENCE MANUAL UPDATES

These updates assume that the TS Reference Manual has been updated with
the update packet dated October, 1974 to bring the manual to the C00
level.

Page 1 - Column 1

Change the second sentence of the first paragraph to read:

"CP-V provides for five concurrent modes of operation:"

Page 25 - Column 2

Add the "PAGE" command to the list of commands given in item 1.

Page 25 - Column 2

Add the "SHOW" command to the list of commands given in item 4.

Page 26 - Column 1

Add the following sentence after the line: A-Z   a-z 0-9 ← _ & ☆ % . # @ -

"The first character of password may not be a ".".".

Page 27 - Column 1

Delete "[packid]" from the third SET dcb format.

Page 27 - Column 1

Add the following after the third SET dcb.

"SET dcb JR/fid"

Page 27 - Column 2

Insert the following between the "tapeid" description and the "rt" description.

"JR   a Teleprocessing Journal. Refer to the TP Reference Manual, 90-31-12, for a description of journals and their use."

Page 27 - Column 2

Delete the entire "packid" description.

Page 38 - Column 2

Change the first sentence to read:

"The text may be from 1 to 72 characters long, the first of which may not be a '.'."

Page 39 - Table 10

Insert the following between the third and fourth TEL error messages.

Message	Description
CAN'T DBUG EXEC ONLY LMN - QUIT?	User attempted to associate DELTA with an execute only program. The program may be continued (with GO) or terminated with QUIT or N/L.

Page 39 - Table 10

Insert the following between the second last and last TEL error message.

LAST BRANCH TAKEN FROM XXXX	On Xerox 560 system, this message is printed after a trap and shows the address of the last branch instruction which was executed.

Page 42 - Table 11

Add to the "MESSAGE" command:

"The first character may not be a '.'."

Page 43 - Table 11

Add to the "PASSWORD" command:

"The first character may not be a '.'."

Page 44 - Table 11

Change the "[codes]" in the "RUN" command to "[options]".

Change the last sentence of the "RUN" command description to read:

"lid must name a file containing one or more roms."

Page 44 - Table 11

Delete "[packid]" from the third "SET dcb" format.

Add "SET dcb JR/fid" as a fourth "SET dcb" command.

Page 55 - Column 1

Change the fourth sentence of the eighth paragraph to read:

"If blank characters are included, <u>or multiple serial numbers
are specified</u>, the serial number...."

Page 63 - Table 23

Within the "Modes" Valid Option Combinations make the following changes:

DESTINATION DEVICE

CODES	LT	DP	FT	ME
ASCI	x	-	x	-
EBCD	d	-	d	-
DEN	x	-	x	-

Page 72 - Table 24

Add the following PCL Error Code to the table:

Decimal Code	Message	Severity Level
57	Tape Density Specification is in error.	3

Page 97 - Column 2

Add after the first sentence:

Any necessary truncations in instruction expressions are
performed as in system SIG7FDP and the message '**TRUNCATION'
is output to the user.

Page 105 - Column 1

Replace the first paragraph with the following:

The data breakpoint will detect changes caused by M:READ calls,
but other CALS which might cause a data breakpoint location to
be altered (such as M:TIME or M:KEYIN) are not checked.
Changes in a temp stack or a stack pointer doubleword are also
detected.

Page 108 - Column 1

Prior to the section entitled EXECUTIVE DELTA, add the following:

CHANGING THE PROMPT IN USER DELTA: THE ;V COMMAND

The ;Vp command changes the prompt character in USER DELTA
from the bell to whatever character was specified by 'p'.
This character will then be used by DELTA as the prompt for
this session.

Page 109 - Column 1

Add the following example errors:

.A216<LI> ret)   The symbol specified conflicts with one
? 9   of DELTA's op-code mnemonics.

.A\LI,17 X'20' ret)   Value specified is too large for the
**TRUNCATION   intended field.

'CAN'T GET PAGE'   A request was made requiring a page
                                  not available to DELTA.

Page 109 - Column 2

Replace the section PROGRAM EXITS with:

Delta takes control of program exits and aborts. It reports execution of exit cals with the message:

EXIT AT loc

for normal M:EXIT calls and either the proper message from the system error message file, or the message:

ABORT WITH CODE = xx   SUBCODE = yy
LOCATION = loc

if not message file entry exists.

Page 114 - Column 1

Delete the last sentence of the first paragraph which reads:

"Load is available only in the batch mode."

Page 118 - Table 32

Change the "[codes]" in the "RUN" command to "[options]".

Page 120 - column 2

Change the first line in the example to read:

!BATCH FILE1,FILE2 ;"

(note space following FILE2)

Page 145 - Table B-1

Add the following Abnormal Code after the "0800" code:

09	00	RDERLOG	Attempt to close and return a device which was not partitioned.

Page 146 - Table B-1

Change the second sentence of code "0907" description to read:

"...by user is invalid, or there is insufficient...."

Page 146 - Table B-1

Add the following Abnormal Code after the "090E" code:

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Page 147 - Table B-1

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14	14	OPEN	An access vehicle has opened an execute only file.

Page 152 - Table B-5

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Page 156 - Table B-5

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Error Code	Sub Code	Originating Monitor Module	Meaning of Code	
7F	1D	INITRCVR	Single User Abort due to Software Check	1D
7F	21	"	"	21
7F	22	"	"	22
7F	31	"	"	31
7F	32	"	"	32
7F	61	"	"	61
7F	6A	"	"	6A
7F	79	"	"	79
7F	7C	"	"	7C
7F	7E	"	"	7E

.0   SP REFERENCE MANUAL UPDATES

Page 3 - Figure 1

Under "System Management Processors", delete the (OB) after DEVDMP which is a stand-alone processor.

Page 18 - Column 2

Change the third sentence of the fourth paragraph to read:

"They need not be contiguous in the DCT table and any file may cross a boundary (even a two cylinder file)."

Page 19 - Column 1

Change sub-item a. and b. under item 1. in the second paragraph to read:

a.   Its own data area (LOCK=01).

b.   Any batch, on-line or shared processor code (LOCK=00).

Page 19 - Column 1

Change the second sentence in item 4. in the second paragraph to read:

"To take advantage of this feature, the 560 I/O system always uses a key of 1000 which does not match any of the locks."

Page 24 - Figure 5

Change the second image of the tape records to read:

ALLOCAT,FIX,GHOST1,Monitor Overlays,.....

Page 25 - Figure 6

Change the Segment Patching Order to read:

```
                                    (ROOT)
        ALLOCAT0                    (DATA)
        ALLOCAT1                    (PROC)
        FIX0                        (DATA)
        FIX2                        (DCBS)
        FIX1                        (PROC)
        GHOST10                     (DATA)
        GHOST12                     (DCBS)
        GHOST11                     (PROC)
           .                          .
           .                          .
           .                          .
```

Page 28 - Column 1

Change the second paragraph in the :PART description to read:

"A device partition request causes all devices which have identical device addresses to be partitioned."

Page 30 - Table 5

Change the sentence describing "value" to read:

"device address (in the format ndd described at the beginning of this section)"

Page 31 - Table 5

Change the description of the sixth message to read:

CANNOT PARTITION, DEV. ndd NOT PRESENT	The device specified on a :PART command either doesn't exist or was removed in the reconfiguration process.

Change the description of the eleventh message to read:

CONTINUATION ILLEGAL	Continuation commands (i.e., commands containing a semi-colon) are not allowed.

Page 32 - Table 5

The first message is actually two messages which should read:

NO RECONFIGURATION PERFORMED	The :GO command .... or a :END command was specified by itself.
ACCESS DEFINITION CONFLICT $(ndd_1 [,ndd_2]),(ndd_3 [,ndd_4])$	A device address conflict.. ... This message will appear twice for each conflict encountered.

Note that in the last description, the last parenthetical sentence has been deleted.

Page 35 - Column 2

Replace the message:

```
RESDF SIZE IN PAGES?
```

and the paragraph following it, including that which overflows to page 36 - column 1 by the following:

```
RESET RESDF YYY,XXXXX?
```

where YYY = SYSGEN defined decimal number of pages in the RESDF area.

      XXXXX = SYSGEN defined hexidecimal word address of the first page in the RESDF area.

The operator may override those SYSGEN defined values by responding with:

      (YYY)(,XXXXX)

where YYY = the decimal number of pages to be dedicated RESDF pages. A value of 0 through 999 may be used.

      XXXXX = the hexidecimal word address of the first page of the RESDF area. A value of 10000_{16} (64K) or greater may be used.

Both parameters are optional. If new line is entered, the SYSGEN defined values for both parameters is used.

Page 36 - Column 1

Change the first paragraph to read:

"The boot procedure then requests the current date and time
keyins with the following messages:"

Page 36 - Column 2

Change the third message and its explanation to read:

SWAPPER NOT (model number)

DCndd $\Rightarrow$ DC

(The swapper indicated by "(model number)" was expected as the swap
device.)

Page 106 - Table 39

Add the following message to the end of the table.

DRSP NOT FOUND IN PROCESSOR TABLES	DRSP must be run as a shared processor in order to maintain integrity over the monitor's processor tables.

Page 108 - Column 2

Change item 3 in Restrictions to read:

"The M:LOCK,M:DOPEN,M:DCLOSE,M:BLIST, and M:SIO procedures
require a privilege level of AO or higher if the user has been
specified as the current diagnostic user via the DIAG keyin.
If the privilege level is CO or higher, only the M:BLIST and
M:SIO procedures require the DIAG keyin. If one of these
two conditions is not met, the user is aborted."

Page 108 - Column 2

Add the following item 4 in Restrictions:

> "4. User registers SR1 and SR3 are volitile for the M:DOPEN,
>   M:DCLOSE, M:BLIST, M:SIO, M:LOCK and M:MAP procedures."

Page 109 - Column 2

Change the second sentence in item 2 of the SN explanation to read:

> "There may be from one to twelve serial numbers of from one
> to four alphanumeric characters."

Page 110 - Column 1

Delete the third sentence in the description of M:DOPEN which reads:

> "In such cases the resulting abnormal......"

Page 110 - Column 1

The DEVICE specification should read:

DEVICE, [*]NAME

in two places.

Page 110 - Column 2

Delete the last sentence of the ABN description so as to leave only:

> "If an address is not present, the user is aborted."

Page 112 - Column 1

Add to the last point in "command list restrictions" which reads:

"o I/O commands which do not cause a transfer of data (e.g., skip file, rewind) must have a valid byte address and byte count."

the following sentence:

"When such commands are used with the ICE flag, the I/O completion interrupt occurs immediately. Hence, the user must handle any I/O wait activity he desires independent of any I/O end action."

Page 112 - Column 1

The PRI specification should read:

PRI, [*] priority

Page 114 - Column 2

Add the following sentence after the first sentence of the first paragraph following "ABNORMAL CODES AND MESSAGES":

"The abnormal code (bits 0-7) and subcode (bits 8-14) are returned in users register SR3 and the address of the procedure plus one word (CAL+1) is returned in users register (SR1)."

Page 114 - Table 42

Change the last part of the second sentence of abnormal code "09 08" to read:

"...status address is in error or the byte count is illegal in the IOCD."

Page 115 - Figure 16

Change word zero of the DDCB as follows:

		F C I	F C D	W A T		D R C		ASN=3
TTL								
0	7	8	9	10	11	12	15 16	17

0   7 8 9 10 11 12   15 16 17   27 28   31

Change word two of the DDCB as follows:

	0--------------0	BUF
0	7 8	14 15

0   7 8   14 15   31

Page 118

Delete the parenthetical sentence in the ABA description. Add the
following between ASN and CHAN:

> "BUF   Address of a monitor MPOOL buffer used when processing
> users command list."

Delete the last sentence in the DEVICE description.

Add the following between DIAG and ERA:

> "DRC   is the format control flag and indicates whether (DRC=0)
> or not (DRC=1) the monitor is to do special formatting
> of records on read or write operations. DRC is always
> set to 1 in a DDCB."

Change the TAB1 description to read:

> "Contains the physical double word address of the command list
> in the DDCB."

Add the following after TYPE:

> "WAT   is the wait flag and indicates whether (WAT=1) or
> not (WAT=0) WAIT was specified for the I/O. WAT is
> always set to 1 in a DDCB."

Page 119 - Column 1

In the NOTE: following the second paragraph, change M:IDEX to M:IOEX.

Page 122 - Column 2

Change the last sentence in the CC2 description to read:

"The requested operation is not performed in this case."

Page 124 - Column 2

In the first and second sentence, change M:INSTAT to M:INTSTAT.

Page 124 - Column 2

Delete the CC1 explanation for the M:INTSTAT procedure. CC1 is not set.

Page 124 - Column 2

Add the following to the M:HOLD procedure:

$$M:HOLD \quad \begin{Bmatrix} ON \\ OFF \end{Bmatrix} \underline{\left[, PURGE \right]}$$

where PURGE specifies that the user's pages should not be released
if the user exits (or aborts) while locked in core.

Page 125 - Column 1

Change the first paragraph to read:

"...the memory involved will not be released if PURGE was
specified."

Page 125 - Column 1

Change the M:HOLD FPT as follows:

X'25'	0--0	f_2	f_1
0 7	8 29	30	31
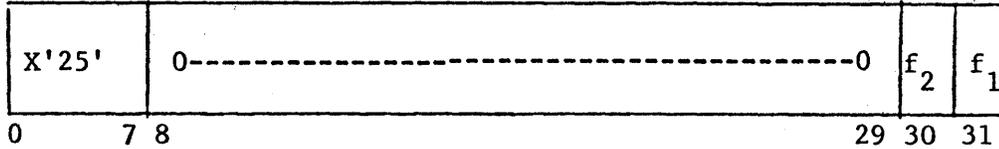
where f_1 specifies ON if set to 0 or OFF if set to 1. f_2 specifies PURGE if set to 1.

Page 126 - Column 2

Change word zero of the M:STOPIO procedure as follows:

*	X'1C'	0--------------0	DCB/device address
0	1 7	8 14	15 31
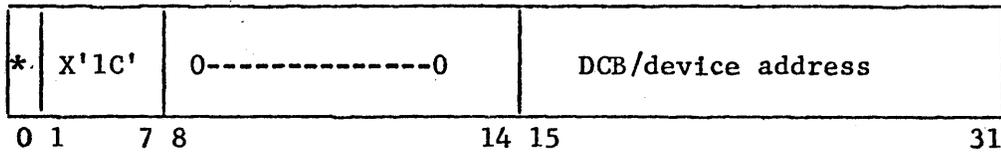
Page 126 - Column 2

Change word two of the M:STOPIO procedure as follows:

WORD 2 (f_2)

*	0--------------------------0	End Action Address
0	1 14	15 31
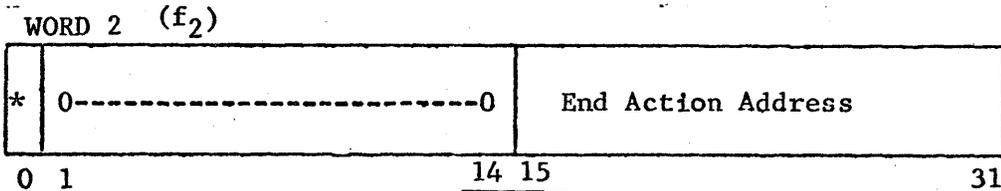
Page 126 - Column 2

Change the description of f_1 in the M:STOPIO procedure FPT to read:

"f_1 specifies DEV if 0 or DCB if 1."

Page 127 - Column 2

Add the following after the last sentence of the SIO option description
of the M:IOEX procedure.

"... must all be physical addresses. The channel program must
request a "Channel End Interrupt" (unless REL has been specified,
see below); however, multiple interrupts per I/O request are
permitted (e.g., "Zero Byte Count Interrupt" and "Channel End
Interrupt")."

Page 128 - Column 1

Change Word 1 of the M:IOEX FPT as follows:

1	P_1	P_2	P_3	0--------------0	f	0----------------------------0

0 1 2 3 4   15 16 17   31
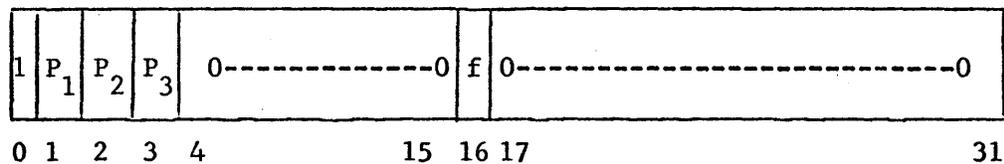
Page 128 - Column 2

Add the following after Word 4 of the M:IOEX FPT.

WORD 5 (P_3)

*	0------------------------------------0	PRIORITY

0 1   23 24   31
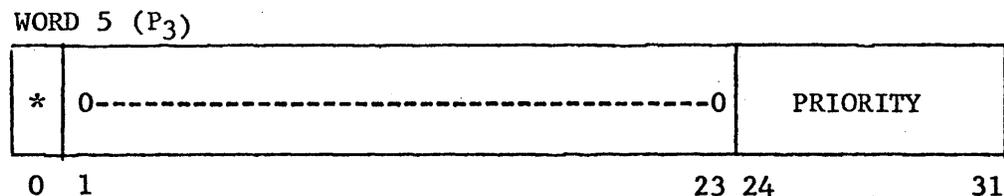
Page 128 - Table 43

Change the R4 and R5 register "Contents when Routine Entered due to
Timeout or SIO Failure" description to read:

"SIO status (if timeout); R4 contains the doubleword address
of the failing channel program (if SIO failure)."

Page 129 - Column 1

Change word 1 of the M:IOEX FPT as follows:

0---------------------------0	f	0------------------0	CODE
0 15 16 17		27	28 31

Page 132 - Column 2

Add the following after the "USER" description:

"GJOB#   is the user number of the ghost job (if it is active)
which will be entered on the occurrence of the interrupt.
If the ghost job is not active, GJOB# contains zero."

Page 136 - Column 2

Change the last sentence of the first point in the first paragraph
to read:

"... until returned to the system via the Physical Page
Stealer (PPS) Ghost."

Page 136 - Column 2

Change the sixth sentence in the third paragraph to read:

"Increases that would cause the maximum user size to be set
less than 186 pages are limited to times when there are no
users on the system other than system ghosts, i.e., the system
must be quiescent...."

Page 139 - Column 1

Change the first sentence of the last paragraph to read:

"If attempting to decrease the maximum number of DYNRESDF
pages, and the maximum user size would fall below 186 pages,
the value specified....."

Page 139 - Column 2

Change the last sentence which begins "therefore" to read:

Therefore, if the maximum user size would fall below
186 pages,...."

Page 148 - Table B-3

Change the Cluster-Unit designator for Unit Number 3, Cluster
Number 0 from "Q" to "@".

Page 154 - Screech Code 22

Change the "Called From" module name from "TYPR" to "PV".

Delete the "D4" line.

Page 154 - Screech Code 23

Change the "Called From" module names "CSE57" and "CSE59" to
"CSES7" and "CSES9" respectively.

Page 160 - Screech Code 46-21

Change the "Called From" module name from "RDF" to "PV".

Page 160 - Screech Code 49

Change "Remarks" to read:

"... reset resource flags, resource (tape only) not properly..."

4.0   SM REFERENCE MANUAL UPDATES

Page 4 - Figure 1

 Under "System Management Processors", delete the (OB) after DEVDUMP
which is a stand-alone processor.

Page 50 - Table 13 (cont.)

 Under "TAPES:", delete the line and explanation which reads:

  "SAVE TAPES USED   XX"

Page 110 - Column 1 - DISPLAY Command Format

 Add a "] " (right bracket) to the end of the "CONT" option to read:

  CONT [,[yy]value]

Page 111 - Column 1 - MODNUM Command

 After the last sentence of the first paragraph which reads:

  "The device/controller model numbers are verified by
  SYSGEN and, if needed, the appropriate controller model
  number is obtained from the file."

 add the sentence:

  "This file is also used by the boot-time reconfiguration
  process for boot-time control command verification."

Page 118 - Column 1

 In the first paragraph after "Method 2" change the second sentence
to read:

  "It will restore any file created by either of the processors
  FSAVE or FILL in a timely manner."

Page 120 - Column 1 - Paragraph 3

Delete the sentence which reads:

"They need not be run in any particular order or time sequence."

Page 120 - Column 1 - Paragraph 5

Paragraph 5 should read:

"The example in Figure 34 shows how PCL and the loader are used
in conjunction with DEF in the production of a new system tape
and an updated copy of the XDELTA load module."

Page 120 - Column 1 - Figure 34

Replace with the following example:

```
!JOB :SYSGEN,1234,F
!PCL
COPYALL LT#POX TO DC
     (LOAD OLD MONITOR TAPE INTO FILES)
END
!LOAD   (LMN,XDELTA),(BTAS,EA00),(SL,F),(NOTCB),;
!       (PERM),(ABS),(NOSYSLIB),;
!       (MAP),(EF,;
!       (XDLT),;
!       (SYMTAB),;
!       (MONSTK))
!ASSIGN  M:PO,(DEVICE,9T),(OUTSN,C00)
     (new monitor tape)
!DEF  CP,C00
!FIN
```

Page 120 - Column 2

First sentence should read:

"Commands for PASS2 fall into seven groups:"

Page 120 - Column 2

Add the following after the last sentence on the page:

7.   :HANDLERS2   specifies that some handlers should not
be placed in the monitor root.   PASS2 decides which
handlers will not be placed in the root.

Page 121 - Column 1

Change the second sentence in the first paragraph of "Target System
Parameters" to read:

"That is, the user must know the desired characteristics
of the system so the appropriate information may be supplied
via the system generation control commands."

Page 121 - Column 2

Add after item 23:

24.   Will all handler files reside in the root?

25.   Will the target system have transaction processing
facilities?

Page 123 - Figure 35

Change the second image of the tape records to read:

ALLOCAT,FIX,GHOST1,Monitor Overlays,...

Page 124 - Column 1

Add to the list of commands recognized by PASS2:

:HANDLERS2

<u>Page 124 - Column 1</u>

Change the first sentence of the second paragraph under PASS2 COMMANDS
to read:

"With the exception of the :CHAN, :DEVICE, :SDEVICE, <u>:MON</u>
and :COC commands, PASS2......"

and add as the last sentence of the same paragraph the sentence:

"The first three letters of the defaulted commands are printed
to focus attention on the absence of the commands."

<u>Page 124 - Column 1</u>

Add the following paragraph between the second last paragraph and the
last paragraph:

"Except for :CHAN, :DEVICE, and comments control commands, all
other commands should be specified only once. Information
requiring more than one card may be included on continuation
cards."

<u>Page 125 - Column 1</u>

Change the description of dddd to read:

"is the device model number; if <u>unknown</u>, FFFF should be
specified."

<u>Page 125 - Column 1</u>

Change the description of cccc to read:

"is the controller model number; if <u>unknown</u>, FFFF should be
specified."

<u>Page 125 - Column 1</u>

All references to Table 66 in the descriptions of $\left\{ \begin{array}{l} \text{INPUT} \\ \text{OUTPUT} \\ \text{IO} \end{array} \right\}$ and

HANDLER options should be changed to reference Table 35.

Page 125 - Column 2

Change the first sentence of the second paragraph to read:

"When all :DEVICE commands have been processed, PASS2 builds the SPEC:HAND file containing...."

Page 125 - Column 2 - Figure 35

Add the model numbers to the following Device Types:

        PR - 7060
        PP - 7060
        CR - 7121, 7122, 7140
        CP - 7160
        7T - 7362, 7372
        XP - 1200
        PL - 7530, 7531

Page 127 - Column 1

Delete the part of the third sentence in the description of PER which reads:

"unless the CYLIN is also specified, in which case the value must be expressed in terms of logical cylinders."

Page 127 - Column 1

Change the first sentence of the last paragraph to read:

"When the system is initialized at boot time...."

Page 128 - Column 2

Change the second item under the description of SP to read:

"2.   Otherwise, SP is equivalent to the first disk pack device which was mentioned ('MOVE' specified on :DEVICE card)."

Page 129 - Column 2

Change the last sentence of the description of "label" under the :OPLBLT command to read:

"NO,MO,MT, and SP are also invalid."

Page 134 - Column 1

Change the fourth paragraph to read:

"The input and output interrupts for all COC devices must be within one and the same interrupt group.[†]"

Page 134 - Column 1

Change the first sentence of the last paragraph to read:

"All COC input interrupts should be one higher in priority than the corresponding COC output interrupt."

Page 134 - Column 2

Change the sixth sentence in the description of TYPE to read:

"The default TYPE value for all other lines is 5."

Page 137 - Column 1

Add the following option and description after the description of the "TP" option.

"MINICOC   specifies that the MINICOC handler is to be used instead of the TPCOC or COC handler. NOTE: If TP has been specified, the MINICOC specification will be ignored."

Page 137 - Column 1

Change the first sentence in the description of MON to read:

"followed by the names of the overlays to be added to the
automatic default overlays which are KEYIN, LTAPE, DEBUG,
OPEN, CLOSE, STEPOVR, LDLNK, MULOV, MISOV, RMAOV, UMOV, and
OPENTP."

Page 138 - Column 1 - Table 40

Add the following after the CCI entry:

	JSDPMTGBC	No. Overlays
FIX	000010000	0

Add following the :P11 entry:

	JSDPMTGBC	No. Overlays
DRSP	000100000	0

Delete the following entries from the table:

EDIT, PCL, BASIC, METASYM, FORT, BATCH

Page 139 - Column 1

Change the description of the size option to read:

"specifies, in decimal, the size in pages of the dedicated
foreground memory area to be allocated at system initialization.
Default is 10 $(0 \leq size \leq 999)$."

Page 139 - Column 1

Add the following sentence to the description of the address option:

"The default is 10000_{16}."

Page 139 - Column 2

Change the first sentence in the description of pages to read:

"specifies, <u>in decimal</u>, the maximum...."

and add as the last sentence in the description:

"The default is 0 $(0 \leq pages \leq 999)$."

Page 139 - Column 2

Change the first sentence of the description of segments to read:

"specifies, <u>in decimal</u>, the maximum....."

and add following the last sentence of the description:

$(1 \leq segments \leq 999)$

Page 139 - Column 2

Change the :INTLB command format to read:

":INTLB (label,loc,<u>prio</u>) ,(label,loc,<u>prio</u>) ..."

Page 140 - Column 1

Add the following as special features after the RP entry in the :FAUTH card description:

TP - transaction processing

Page 140 - Column 1

Add the following control card, explanation and table immediately
before the major title "PASS2 CONTROL COMMAND SEQUENCE".

:HANDLERS2   The HANDLERS2 command specifies that the destination
of certain handlers is to be the HANDLERS2 file instead of the
HANDLERS file. The handlers placed in HANDLERS2 are placed in
UMOV (UMOV is a resident "overlay" in which all code executes
unmapped). The generation of large target systems may require
the utilization of this command to remove code from the monitor
root. Table 40A indicates which handlers are placed in the
HANDLERS2 file when :HANDLERS2 control command is specified.

TABLE 40A

DISTRIBUTION OF HANDLERS WHEN :HANDLERS2
CONTROL COMMAND IS SPECIFIED

HANDLERS FILE [†]	HANDLERS2 FILE
CSESCOM	BSCIO
CSE7	CRDIN
CSE9	CRDOUT
CSEX50	DISCIO
EAPL	DISKAB
ESTD	DPAK
HSPM	DSCIO
MOCIOP	DPSIO
PWP	HASPIO
RA	INSYM
RAS	KBTIO
RTROOT	MAGTAPE
SAPL	MTAP
SSTD	OCPIO
TPCOC/COC/MINICOC [∓]	OUTSYM
TQROOT	PLOT
	PRTOUT
	PTAP
	RBSSS
	SWAPPER
	TSIO
	K2IO
	2780IO
	3270IO
	7TAP

† These handlers are placed in the monitor root.

‡ Only one of these handlers may be placed in the HANDLERS file.

NOTE: If :HANDLERS2 command is absent from the control
command input, all handlers are placed into the
HANDLERS file and are destined to reside in the
monitor root.

Page 141 - Table 42

Delete the second PASS2 Message and explanation which reads:

"***CC IGNORED, PREVIOUS CC OF THIS TYPE ACCEPTED"

Change the fourth PASS2 Message to read:

***DUPLICATE CC OTHER THAN DEVICE/CHAN DUPLICATE IGNORED	A duplicate control command other than a :DEVICE or :CHAN command was encountered. PASS2 ignores duplicates and continues.

Insert the following between the last and second last PASS2 Messages.

***ERROR IN PROC-ESSOR JOB ABORTED	One of the control command modules has transmitted incorrect syntax parameters to the syntax routine.
######XX ERRORS AND OR WARNINGS IN THIS PASS2 #####	PASS2 keeps a count of the error and warning messages it has issued and prints the number in the XX field.

Page 142 - Table 42

Insert just before the first PASS2 Message:

***INADEQUATE CORE SPACE - SKIP TO NEXT CC	Current option caused a table overflow.

Change first PASS2 Message to read:

***INADEQUATE SPACE TO BUILD INTER-MEDIATE TABLES ***PASS2 ABORTS	Same.

Change fourth PASS2 Message to read:

PASS2 AT YOUR SERVICE	On-line message to inform you that PASS2 is ready to read SI and start processing.

Insert between the twelfth and thirteenth PASS2 Messages:

***FIXED HEAD DEVICE EXCEEDS MAX TRACKS FOR SWAPPER - SET TO MAX TRACKS	A PSA value greater than 200 tracks has been specified for a non-standard RAD device.

Delete the thirteenth and fourteenth PASS2 Messages which begin:

*HGP CANNOT....	
***HGP TABLE FULL	

Page 143 - Table 42

Change the fifth PASS2 message to read:

***NGC >255-55 USED FOR 7261/7275/3275	Same.

Page 144 - Table 42

Delete the fourth, fifth and sixth PASS2 Message which begin:

***PSA+PER+PFA > SIZE	--------
***PSA VALUE TO LARGE....	--------
***PSA INCREMENTED	--------

Change the seventh PASS2 Message to read:

***PSA MUST BE 7212/ 7232/3214 DISK PACK- PSA IGNORED	Same.

Delete the ninth PASS2 Message which begins:

***PSA/PER INVALID ON CYLIN ALLOCATED DEVICE - PSA/PER IGNORED	-----

Page 145 - Table 42

Change the fourth PASS2 Message to read:

***TOO MANY COC'S SPECIFIED - ONLY 8 ARE ALLOWED	Same.

Change the tenth PASS2 Message to read:

***WARNING INCOR- RECT MOD. # OR CONT. #. FFFF HAS BEEN SUBSTITUTED.	Same.

Change the fifteenth PASS2 Message to read:

***NO SYMBIONT DEVICES DEFINED. ***PASS2 UNABLE TO CONTINUE.	There is missing or incorrect information on the :SDEVICE command. PASS2 aborts.

Page 147 - Table 42

Change the first PASS2 Message to read:

***XX CANNOT BE ASSIGNED - ENTRY IGNORED.	The logical device name XX is always automatically generated by the system and should not be speci- fied on the :LDEV command. PASS2 continues.

Insert between the first and second PASS2 Messages:

***XX DEVICE NOT DEFINED ***PASS2 UNABLE TO CONTINUE	Either CR or LP or both are missing on the :SDEVICE command. PASS2 aborts.

Change the third PASS2 Message to read:

***NAME A DEVICE TYPE - NAME IGNORED	Same.

Insert between the twelfth and thirteenth PASS2 Message:

***MINICOC OPTION WILL BE IGNORED SINCE TP HAS ALSO BEEN SPECIFIED	"TP" and "MINICOC" options are mutually exclusive. PASS2 continues.

Delete the thirteenth through the sixteenth PASS2 Messages which begin:

***ERROR IN PROCESSOR - JOB ABORTED	-----
***ILLEGAL TYPE OR SIZE	-----
***INADEQUATE CORE SPACE - SKIP TO NEXT CC	-----
***INVALID CHARACTER STRING	-----

Page 148 - Table 42

Delete the first and second PASS2 Messages which begin:

***INVALID, UNKNOWN, OR DUPLICATE KEYWORD	-----
***MODIFY ERROR - SKIP TO NEXT CC	-----

Change the seventh PASS2 Message to read:

***TROUBLE WITH SPEC:HAND HANDLERS RECORD NOT INCLUDED	Same.

Delete the ninth PASS2 Message which begins:

***COCO IN NOT HIGHEST PRIORITY	-----

Change the thirteenth PASS2 Message to read:

***COCX 'IN' OR 'OUT' NOT IN SAME GROUP AS PREVIOUS ONES	Same.

Change the fifteenth PASS2 Message to read:

***COCX 'OUT' LOCATION NOT 'IN' LOCATION+1	Same.

Change the fifteenth PASS2 Message to read:

***RAMAX,RATO=0 BUT RASIZE IS NON-ZERO. R.A. TABLES NOT GEN- ERATED	Same.

Delete the sixteenth PASS2 Message which begins:

***RAMAX ZERO - RATO IGNORED	-----

Change the last PASS2 Message to read:

***UCYL VALUE INVALID - DEFAULT (1) USED	Same.

Page 150 - Table 42

Delete the fifth PASS2 Message which begins:

***ILLEGAL TYPE OR SIZE	-----

Delete the seventh PASS2 Message which begins:

***INVALID ALPHA- NUMERIC STRING	-----

Insert between the seventh and eighth PASS2 Messages:

***MOSPACE OPTION NOT VALID IT WILL BE IGNORED	MOSPACE is no longer a valid option.

Delete the tenth PASS2 Message which begins:

***TOO MANY VALUES	-----

Insert between the tenth and eleventh PASS2 Messages:

***TROUBLE WITH SPEC:HAND FILE. NO MONITOR OVER-LAY NAMES RECORD GENERATED	An I/O error occurred when opening or writing this file. PASS2 continues but PASS3 for this system will abort if allowed to run.

Delete the eleventh PASS2 Message which begins:

:NFR	-----

Insert between the eleventh and twelfth PASS2 Messages:

***ADDRESS < 10000. DEFAULTED TO 10000.	The address supplied for the RESDF option is <10000 HEX.

●age 151 - Table 42

Delete the second PASS2 Message which begins:

:NIN	-----

Insert between the fourth and fifth PASS2 Messages:

***SIZE OUT OF RANGE DEFAULTED TO 0.	The size value for the REFDEF option is out of range.
***# OF PAGES OUT OF RANGE, DEFAULTED TO 0.	The # of pages for the DYNRESDF option is out of range.
***# OF SEGMENTS OUT OF RANGE. DEFAULTED TO 1.	The # of segments for the DYNRESDF options is out of range.

Page 154 - Column 1

Change the second paragraph to read:

"All monitors <u>must</u> be loaded by PASS3 to take advantage of PASS3's ability to form the HANDLERS file automatically <u>and to permit PASS3 to remove optional overlays (determined by options included or omitted on the :MON PASS2 control command) from the LOCCT prior to its M:LINK call to the loader.</u> If a monitor is to be loaded and there is no LOCCT for it, the LOAD (!LOCCT)/TREE commands must be used to generate a LOCCT by the LOCCT processor, and then PASS3 can use the LOCCT tables for the loading of the Monitor. <u>If desired, the user may assign F:LOADER to a file in an account other than :SYS.   PASS3 will then do an M:LINK to the alternate loader.</u>"

Page 154 - Column 2

    Change the first sentence of the second paragraph to read:

        "For a monitor, PASS3 will obtain the information in SPEC:HAND
        the file that SYSGEN PASS2 generated."

Page 154 - Column 2

    Replace the last paragraph and the sentence which continues onto
    Page 155 (All files accessed by PASS3 by this technique will be
    saved) by the following paragraph:

        "PASS3 next attempts to read the HANDLERS2 record in the
        SPEC:HAND file. If the read is unsuccessful, a pseudo
        HANDLERS2 file is generated. The BASHANDL (the basic handlers
        file) is then copied to the file named HANDLERS. PASS3 then
        reads the HANDLERS record in the SPEC:HAND file to obtain
        the names of the remaining handler files that need to be added
        to the HANDLERS file. Each unique file name (with the exception
        of those names shown in Table 44) causes PASS3 to open the
        corresponding file, read it and add it to the HANDLERS file.
        When all names have been processed, PASS3 closes and saves
        the HANDLERS file. In the event that the HANDLERS2 record
        exists, PASS3 copies the BASHANDL file to the HANDLERS2 file.
        It then reads the files named in the HANDLERS2 record of
        SPEC:HAND (with the exception of those names shown in Table 44),
        and adds these files to the HANDLERS2 file. When all files
        have been copied, PASS3 reads the files named in the HANDLERS
        record in the same manner. The resulting files are copied
        into the HANDLERS file.

        To summarize, the BASHANDL file is copied to either the
        HANDLERS file or the HANDLERS2 file depending on the absence
        or presence of the HANDLERS2 record. The file names given
        in these two records are copied to the file of the same name
        as the record with the exception of those names listed in
        Table 44."

Insert between the first and second PASS3 Messages:

***M:MON MUST BE A TREED LOAD MODULE PASS3 WILL NOT ATTEMPT TO LOAD IT	PASS3 continues to next control command.

Change the sixth PASS3 Message to read:

***OPEN/READ BASHANDL FILE ERR/ABN=XXXX	PASS3 could not obtain a given file when forming the HANDLERS file. The value XXXX is the error or abnormal code. Trouble encountered in the file attempting to be copied to the HANDLERS file. PASS3 continues to the next command.

Insert between the sixth and seventh PASS3 Messages:

***OPEN/READ BASHANDL FILE ERR/ABN=XXXX	PASS3 could not obtain a given file when forming HANDLERS2. Trouble encountered in file that was attempting to be copied into the HANDLERS2 file.

Insert between the tenth and eleventh PASS3 Messages:

***PROBLEM WITH LOCCT - NO MATCH WITH MISSING OVER-LAY NAMES RECORD PRODUCED BY PASS2	This error can occur only when loading a monitor. No attempt is made to load the monitor and PASS3 continues to the next control command.

Insert between the eleventh and twelfth PASS3 Messages:

***THE FOLLOWING OVERLAYS HAVE BEEN REMOVED FROM THE M:MON LOCCT AS PER PASS2 REQUIREMENTS	Overlay names removed are listed for information purposes only.

Append the following to the end of Table 42

***WRITE ABS ERR/ ABN=XXXX (LOCCT)	An I/O error or abnormal condition was encountered during a write operation on the EO device. The value XXXX is the error or abnormal code. PASS3 continues to the next control command.
***UNRECOGNIZED KEY IN SPEC:HAND= XXXXXXXX	Key found was not HANDLERS, HANDLERS2, or OVNAMES.

Page 160 - Column 1

Change the second and third paragraphs to read:

"When the DEF processor is called on-line, it types:

    TYPE IS? $

The response should be (CR) or CP (CR) to specify CP-V. The version number must follow the type preceded by a comma.

If PASS3 is called on-line, it types:

    OPTION(ALL,MON)

The response should be "ALL" or "MON" followed by a (CR) or just a (CR) for none.

If PASS2 is called, it types:

    PASS2 AT YOUR SERVICE

No response is required. The message indicates that PASS2 has started processing the SI information.

5.0   TP REFERENCE MANUAL UPDATES

Page 139

Insert at the end of JOB EXECUTION paragraph:

"The Terminal Interface Controller load module consists of three
element files - TIC, GETMAIN and TICDCBS. After SYSGEN, all
of these files exist in the :SYS account. The TICDCBS module
is provided as an example and is intended to be altered by the
installation to define the Data Control Blocks necessary for
communications I/O. The compressed source coding for the
example TICDCBS is displayed below. The sample TICDCBS defines
one message mode and two character mode Data Control Blocks.
The installation may define more character mode Data Control
Blocks starting with F:3002 as the DCB name and more message
mode Data Control Blocks starting with F:4001 as the DCB names

```
                    SYSTEM SIG7
                    SYSTEM BPM
        *
        F:3000      DSECT        1
        F:3000      M:DCB        (DEVICE,'LN'),(DRC)
        F:3001      DSECT        1
        F:3001      M:DCB        (DEVICE,'LN'),(DRC)
        *
        F:4000      DSECT        1
        F:4000      M:DCB        (DEVICE,'LN'),(LIST,L:4000)
        L:4000      M:LIST       (CLS),(PSL,DUM,DUM,DUM,DUM,DUM,DUM,
                                           DUM,DUM,DUM,DUM)
        *
                    END
```

6.0   OPS REFERENCE MANUAL UPDATES

Page 3 - Table 3

Change the Cluster/Unit designator for Cluster Number 0, Unit Number 3, from "Q" to "@".

Page 6 - Column 1

Change the first message and explanation to read:

```
SWAPPER NOT (model number)

DCndd       DC
```

The swapper indicated by "(model number)" was expected as the swap device.

Page 6 - Column 1

Change the last figure in Column 1 to read in the following order:

	(ROOT)
ALLOCAT0	(DATA)
ALLOCAT1	(PROC)
FIX0	(DATA)
FIX2	(DCBS)
FIX1	(PROC)
GHOST10	(DATA)
GHOST12	(DCBS)
GHOST11	(PROC)
.	
.	
.	

<u>Page 10 - Column 2</u>

Insert the following just prior to "VOLUMES".

"PACKS   causes the monitor to list the device name and
status of each of the disk drives. The listing
is of the form:

$$yyndd \quad \begin{Bmatrix} \text{LOCKED} \\ \text{SCRATCH} \\ \text{USER} \\ \text{SHARED} \\ \text{PUBLIC} \\ \text{AVAIL} \\ \text{SYSTEM} \\ \text{EMPTY} \end{Bmatrix} \quad \text{serial number,id}$$

for each drive in the system."

<u>Page 15 - Column 1</u>

Insert the following just prior to "FORM CHANGES":

"If while reading binary input (which was initiated by a !BIN
command) the input symbiont does not detect a !EOD or !BCD
command to terminate binary input before detecting another
!COMMAND control card, the following message is printed on
the operator's console:

```
AN EOD OR BCD CARD IS MISSING

      CRndd SYMB SUSPENDED
```

To recover, the operator should perform the following:

● Get last card read from output hopper, and place it at the
read station (e.g., the next card to be read) of the card
reader input hopper.

● Put the card reader in the ready state and type SCRndd,C ret
at the operator's console."

Page 18 - Column 1

Change the second paragraph to read:

"The INT keyin has the form...."

Page 23 - Column 2

Insert the following after example 2 of "LABEL EXAMPLES":

"NOTE: Tapes mounted for LABEL should always be set at
load point and should be mounted with BLP option."

Page 25 - Column 1

Change the third sentence in the third paragraph to read:

"The BLP option is required when initializing deqaussed
or otherwise unreadable tapes with the LABEL processor."

Page 27 - Column 1 - Table 9

In the operator action portion of the table under yyndd TIMED OUT,
delete ",continue(C)".

Page 28 - Column 1

Change the first sentence of "CARD PUNCH" to read:

"For a 7160 card punch,...."

Page 28 - Column 1

Change the first sentence of the fifth paragraph to read:

"For any error on a 7165 card punch.......   with a specified
time on a 7160 card punch....."

Page 28 - Column 1

Change the paragraph following

```
----CPndd TIMED OUT
```

to read:

"The operator should enter the keyin:

CPndd,R

and note the occurrence. If it happens repeatedly he should keyin:

CPndd,E

and call the Customer Engineer. The punched output......"

Page 29 - Column 1

Change the paragraph following

```
----CRndd TIMED OUT
```

to read:

"The operator should enter the keyin:

CRndd,R

and note the occurrence. If it happens repeatedly he should keyin:

CRndd,E

and call the Customer Engineer."

Page 29 - Column 2

Change the paragraph following

```
----DCndd TIMED OUT
```

to read:

"The operator should keyin:

DCndd,R

and note the occurrence. If it happens repeatedly he should keyin:

DCndd,E

and call the Customer Engineer."

Page 30 - Column 1

Change the paragraph following

```
----DPndd TIMED OUT
```

to read:

"The operator should keyin:

DPndd,R

and note the occurrence. If it happens repeatedly he should keyin:

DPndd,E

and call the Customer Engineer."

Page 31 - Column 1

Change the paragraph following

> ----LPndd TIMED OUT

to read:

"The operator should keyin:

LPndd,R

and note the occurrence. If it happens repeatedly he should keyin:

LPndd,E

and call the Customer Engineer."

Page 32 - Column 1

Change the paragraph following

> ----yyndd TIMED OUT

to read:

"The operator should keyin:

yyndd,R

and note the occurrence. If it happens repeatedly he should keyin:

yyndd,E

and call the Customer Engineer."

Page 40 - Column 1

Change the message:

```
CHANGE PRINTER ADDRESS TO
```

to read:

```
CHANGE LPndd to LP
```

Page 40 - Column 1

Change the first sentence following

```
PRINT ALL, ERRORS ONLY, OR NOTHING (A,E,N)?
```

to read:

"Entering an A causes the name of each file in the system
to be printed."

Page 41 - Column 2

Delete the fourth paragraph which begins:

"Whenever a file inconsistency......"

Page 42 - Column 1

Delete the last two sentences of the "FIX" command and the "75" option
and description.

Page 42 - Column 2

Delete the "LIST", "AUTO", and "MAILBOX" commands and thier explanations.

Page 44 - Table 13

Delete the "P" in the seventh Fix Message which reads:

"OPTION ILLEGAL WITH COMMAND"

Page 44 - Table 14

Delete the "8" in the third Fix Message which reads:

"BAD KEY"

Page 50 - Column 2

Add the following command after the "STATUS" command:

SNAP   The SNAP command causes the internal FILL data to be
           snapped and printed on the line printer. This command
           should be used to document problems which may occur
           with the FILL processor. Other diagnostic snaps
           are also taken automatically at various places
           within the FILL processor. The operator is notified
           that this has occurred by the message:

                        ERROR SNAP

           This message is for information only. The format of
           the command is:

                        SN[AP]

Page 64 - Table 21

Add the following device model numbers to the list of valid model numbers in the description for the command "#model number":

#3214
#3277
#3282

Page 64 - Table 22

Add the following command and description after those for "MTndd":

DNdddd	Specifies that a dual density tape unit is being used as indicated by the device address specified in the "MT" parameter (e.g., the MT field should always preceed the DN field in the Argument List whenever DN is used). The dddd option is used to set the specified tape unit to the desired density where:
	
	    dddd = 800 specifies 800 BPI
	
	    dddd = 1600 specifies 1600 BPI
	
	If no DN argument is specified and a dual density tape unit is addressed in the MT argument, the default density is 1600 BPI.

Page 67 - Table 22

Add the following message to the end of the table:

23	MT MUST PRECEED DN IN CMMND LIST	The density has been specified before the logical address of the desired tape unit has been assigned.

Page 77 - Example 19

Add the following sentence to item 1 of "To shut the system down":

"OBOFF will prevent on-line users from submitting additional batch jobs."

Page 97 - Appendix B

Delete the sentence:

"May occur if FPURGE terminates abnormally."

from the "Meaning" column of the seventh entry which begins:

"id: -- UNABLE TO READ RATE FILE
ERROR CODE = XX"

Page 98 - Appendix B

Add the following to the table:

MESSAGE	MEANING	ACTION
id: UNABLE TO WRITE ACCOUNT-ING RECORD	System was unable to write on accounting record for this user.	Action varies with error type. Contact the Systems Analyst.

Page 99 - Appendix C

For the "TIMED OUT" message for CPndd, CRndd, DCndd, DPndd, LPndd and MTndd, substitute the following "Operator Action and Response" for the appropriate device:

Enter
$\left\{ \begin{array}{l} \text{CPndd} \\ \text{CRndd} \\ \text{DCndd} \\ \text{DPndd} \\ \text{LPndd} \\ \text{MTndd} \\ \text{7Tndd} \\ \text{9Tndd} \end{array} \right\}$
,R. If it persists in happening type

$\left\{ \begin{array}{l} \text{CPndd} \\ \text{CRndd} \\ \text{DCndd} \\ \text{DPndd} \\ \text{LPndd} \\ \text{MTndd} \\ \text{7Tndd} \\ \text{9Tndd} \end{array} \right\}$
,E and call Customer Engineer.

Page 100 - Appendix D

Change the "Originating Monitor Routine" for Software Check Code 22 from "TYPR" to "PV".

Page 102 - Appendix D

Change the "Originating Monitor Routine" for Software Check Code 46 from "RDF" to "PV".