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Burroughs Corporation

COMPUTER SYSTEMS GROUP
SANTA BARBARA PLANT

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B1800/B1700 LOGCONVERT

PRODUCT SPECIFICATION

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SANTA BARBARA PLANT

BURROUGHS CORPORATION
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TABLE OF CONTENTS

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GENERAL DESCRIPTION

The LOGCONVERT program extracts data of greatest potential user interest from the file LOG/#<integer> and creates a new file NEW.LOG/#<integer> containing this data in COBOL/RPG-readable format. LOGCONVERT acts only upon a transferred SYSTEM/LOG file as created with either the LG or TL System Control Instruction. The significant digits of the six-digit <integer> identifying the log to be processed are entered with a free-format ACCEPT message.

RELATED DOCUMENTATION

Name	Number
B1800/B1700 MCP II	P.S. 2212 5462
B1800/B1700 Software Operational Guide	1068731

OPERATING INSTRUCTIONS

LOGCONVERT is executed from the SPO by entering the following:

EX LOGCONVERT

A free-format ACCEPT message of ST or STATUS may be entered at any time after processing commences; LOGCONVERT responds with the current input record count, thus enabling the user to monitor program progress.

LOGCONVERT will execute most efficiently if the log area size as specified with the SL System Control Instruction is an integral multiple of five. The NEW.LOG/#<integer> file contains 180 byte records blocked 5.

Seven distinct record types, identified by the first two digits of each record as detailed in tables below, can be found within the NEW.LOG/#<integer> file:

01 Clear/Start record: one for each Clear/Start performed while the given log was being filled.

02 Program Parameter Block (PPB) record: one for each program scheduled or executed, containing information about the program.

03 File Parameter Block (FPB) record: one for each file declared within the program, appearing immediately after the PPB record for that program. Attributes and data in the FPB record generally apply to the last (or only) time the file was opened, or those present at BOJ should the given file never be opened.

The following record types appear only when the TABS option is set:

04 Open record: one for each open of a file, with attributes applicable to the file at that time.

05 Close record: one for each close of a file, with attributes identical to the corresponding open record, and data fields pertaining solely to the particular time the file was open.

06 Log Transfer record: the last record in the file, containing the name of the next sequential log file filled by the system.

07/08 Peripheral Assignment/Release record: denotes the exclusive reservation of a peripheral by an SDL program doing special direct I/O, such as SYSTEM/DISK.INIT or

DISKMAP/UTILITY, and the subsequent return of that unit to the system.

Open and close records are event-oriented phenomena which consequently may be entered in the file at some distance from the program PPB and FPB records. To simplify user processing, a sort is invoked to restructure the NEW.LOG/#<integer> file such that these records appear immediately after the FPB records with the original order maintained. The sort is invoked only if the TABS option was set at some point within the time span of the given log. Users not needing this convenience may suppress the sort by executing LOGCONVERT with SW 9 = 1.

The input and output files have the internal names of LOGFILE and NEWLOGFILE, respectively, and are declared with two buffers. The NEWLOGFILE will go to the second spindle at those sites with multiple spindles of system disk (refer to the "SD" System Control Instruction). Other users can minimize disk arm movement and consequently achieve a substantial performance improvement by putting the output file on a user pack through file-equation of the PACK.ID (PID) attribute of NEWLOGFILE.

RECORD FORMATS

Detailed information regarding the format of the various record types appears in the tables below. "N" denotes packed numeric fields with the specified number of four-bit digits (including the sign). "A" corresponds to alphanumeric EBCDIC data fields containing the specified number of characters. In these tables, all thirty-character alphanumeric fields represent the standard system Pack-Family-File triples of ten characters each. Likewise, all 16-digit numeric date/time fields are composed of three distinct subfields: a four-digit field containing the last two digits of the year, a four-digit field containing the Julian day (073 means the seventy-third day of the year), and an eight-digit field containing the time in tenths of seconds past midnight.

RECORD TYPE FORMATS

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	1 = CLEAR/START record
MCP Name	30	A	
MCP Interpreter Name	30	A	
MCP Version	10	A	MARK.LEVEL.PATCH, e.g. "VII.0.2 "
Main Memory Size	10	N	Value in bits used this CLEAR/START
CLEAR/START Date/Time	16	N	YYYYDDDDTTTTTTTT
GISMO Name	30	A	
MICRO MCP Name	30	A	
TABS Option Set	2	N	1 = TABS is set until next CLEAR/START
Filler	35	A	

Table 2-1 Clear/Start Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	2 = PPB record
Job Accounting Number	8	N	
Job Number	6	N	What user sees: 1-9999
Job Name	30	A	
Interpreter Name	30	A	
Object Name	30	A	Codefile name compiled if this is a compiler
Schedule Priority	4	N	
Processor Priority	4	N	
Memory Priority	4	N	
Static Memory	10	N	Non-overlayable data space in bits
Dynamic Memory	10	N	Overlayable data space in bits
Total Memory	10	N	Run structure size in bits
Number of Files	4	N	Declared within the program
Charge Number	8	N	0-9999999
Virtual Disk	10	N	Segments of disk allocated for data overlays
Execute Type	2	N	1 = Execution 2 = Compile and Go 3 = Compile for Syntax 4 = Compile to Library 5 = Compile and Save 6 = Execute Phase of Compile and Go 7 = Execute Phase of Compile and Save
EOJ Type	2	N	0 = Normal EOJ 1 = DS'ed while running 2 = Program Error (DS or DP condition) 3 = Execution Aborted by a Clear/Start
Compilation Date/Time	16	N	
Schedule Date/Time	16	N	
BOJ Date/Time	16	N	
EOJ Date/Time	16	N	
Processor Time	10	N	In tenths of seconds
Code Segment Overlays	8	N	
Data Overlays	8	N	Can be non-zero only if program had dynamic memory
Filler	3	A	

Table 2-2 Program Parameter Block Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	3 = FPB record
Job Accounting Number	8	N	
Job Number	6	N	
File Number	4	N	N = nth file declared in program
Internal File Name	10	A	
External File Name	30	A	PID-MFID-FID
Hardware Type	4	N	See Hardware Type Definitions below
Number of Buffers	10	N	
Record Size	10	N	In bits
Records Per Block	10	N	
Maximum Block Size	10	N	In bits, valid only for variable length record files
Save Factor	10	N	
Access Type	2	N	0 = serial 1 = random 2 = sequential (on file opened I/O) 3 = data recorder input with stackers 4 = data recorder input/output 5 = emulator tape 6 = delayed random 7 = I/O sequential with extend
Areas Declared	4	N	
Blocks Per Area	10	N	
Total Record Count	10	N	Logical I/O's performed
Total Block Count	10	N	Physical I/O's performed
Number of Opens/Closes	8	N	
Total Time Open	10	N	In tenths of seconds
Number of Errors	10	N	
Filler	71	A	

Table 2-3 File Parameter Block Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	4 = Open record
Job Accounting Number	8	N	
Job Number	6	N	
Time of Open	16	N	
File Number	4	N	1 through n+1 (n+1 = Trace File)
Internal Name	10	A	
External Name	30	A	
Hardware Type	4	N	See Hardware Type Definitions below
DMS Flag	2	N	1 = Data management file
Emulator Tape Flag	2	N	1=Processed by emulator communicates
Record Size	10	N	In bits
Blocking Factor	10	N	
Save Factor	10	N	
Unit Name	6	A	Peripheral unit mnemonic, e.g., LPA
Access Type	2	N	See FPB layout
Record Count	10	N	Logical I/O's performed
Block Count	10	N	Physical I/O's performed
Number of Errors	10	N	
File Type	4	N	0 = Undefined 1 = Log 2 = Invalid in this context 3 = Control Deck 4 = Backup print file 5 = Backup punch file 6 = Dump file 7 = Interpreter 8 = Code file 9 = Data file 10 = Undefined 11 = Variable-length record data file 12 = Intrinsic file 13 = Undefined 14 = Undefined 15 = DMS audit file
Serial Number	6	A	Of tape
Protection	2	N	0 = Public 1 = Private
Protection IO	2	N	0 = Input/Output 1 = Input 2 = Output
Open Input Flag	2	N	On this and following flags, 1=true
Open Output Flag	2	N	
New File Flag	2	N	

(Table continued on next page)

Open With Punch Flag	2	N	Data recorder attribute
Open With Print Flag	2	N	Data recorder attribute
No Rewind Flag	2	N	For data recorder=open with interpret
Open Reverse Flag	2	N	For card punch = pocket select
Open Lock Flag	2	N	
Open Lockout Flag	2	N	
Filler	62	A	

Table 2-4 Open Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	5 = Close record
Job Accounting Number	8	N	
Job Number	6	N	
Time of Close	16	N	
File Number	4	N	1 through n+1 (n+1 = trace file)
Internal Name	10	A	
External Name	30	A	
Hardware Type	4	N	See Hardware Type Definitions below
DMS Flag	2	N	1 = Data management file
Emulator Tape Flag	2	N	1=Processed by emulator communicates
Record Size	10	N	In bits
Blocking Factor	10	N	
Save Factor	10	N	
Unit Name	6	A	Peripheral unit mnemonic, e.g., LPA
Access Type	2	N	See FPB layout
Record Count	10	N	Logical I/O's performed
Block Count	10	N	Physical I/O's performed
Number of Errors	10	N	
File Type	4	N	See Open Record layout, above.
Serial Number	6	A	Of tape
Protection	2	N	0 = Public 1 = Private
Protection IO	2	N	0 = Input/Output 1 = Input 2 = Output
Close Reel Flag	2	N	On this and following flags, 1=true
CLose With Release Flag	2	N	
Close With Purge Flag	2	N	
Close With Remove Flag	2	N	
Close With Crunch Flag	2	N	
Close No Rewind Flag	2	N	
Close With Lock Flag	2	N	
Close With Rollout Flag	2	N	
DMS Audit Switch Flag	2	N	
MCP Close due to EOJ	2	N	
Filler	61	A	

Table 2-5 Close Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record Type	2	N	6 = Log Transfer record
Transfer Date/Time	16	N	
Current Log Name	30	A	
Filler	141	A	

Table 2-6 Log Transfer Record Format

FIELD NAME	FIELD SIZE	DATA TYPE	VALUE AND FUNCTION
Record type	2	N	7 = Unit Assigned; 8 = Unit Released
Job Accounting Number	8	N	
Job Number	6	N	
Action Date/Time	16	N	
Hardware Type	4	N	See Hardware Type Definitions
Unit Name	6	A	Unit mnemonic for this peripheral
Filler	156	A	

Table 2-7 Peripheral Assign/Release Record Format

HARDWARE TYPES

VALUE	DEVICE
1	80 Column Data Recorder
2	80 Column Card Punch
4	Industry Compatible Mini-Disk (Flexi-Disk)
5	96 Column Reader Punch Printer
6	Paper Tape Reader
7	Paper Tape Reader
8	Printer (other than B1247-4 Printer Control)
9	Reader Sorter
10	Reader Sorter
11	Disk File (any Head-per-Track unit)
12	Head per Track Disk
13	Disk Cartridge Control 2 or 3
14	Disk Cartridge Control 1
15	Disk Pack
16	Disk Pack (any available)
17	Disk (of any kind)
18	5N Head-per-Track Disk
19	96 Column Card Reader
20	Paper Tape Punch
21	80 Column Card Reader
22	Teletype SPO
23	CRT SPO
24	Nine-track NRZ Tape
25	Seven-track Tape, Upright Drive
26	Nine-track PE Tape
27	Any Tape Unit
28	Any Nine-track Tape Unit
30	Cassette
31	Printer (B1247-4 Printer Control)
61	Queue File
63	Remote File

Table 2-8 Hardware Type Definitions

COBOL RECORD FORMATS

Appearing below are COBOL declarations corresponding to the record layouts detailed above; they may be used by programs processing the output of LOGCONVERT.

```
01 CLEAR-START-RECORD.
   02 CS-REC-TYPE                PC S9     CMP.
   02 CS-MCP-NAME                PC X(30).
   02 CS-INTERP-NAME             PC X(30).
   02 CS-MCP-VERSION             PC X(9).
   02 CS-MAIN-MEMORY-SIZE        PC S9(9) CMP.
   02 CS-YEAR                    PC S9(3) CMP.
   02 CS-JULIAN-DAY              PC S9(3) CMP.
   02 CS-TIME                    PC S9(7) CMP.
   02 CS-GISMO-NAME              PC X(30).
   02 CS-MMCP-NAME               PC X(30).
   02 CS-TABS-OPTION-SET         PC S9     CMP.
   02 FILLER                     PC X(36).

01 PPB-RECORD.
   02 PPB-REC-TYPE               PC S9     CMP.
   02 PPB-JOB-ACCTING-NO         PC S9(7) CMP.
   02 PPB-JOB-NO                 PC S9(5) CMP.
   02 PPB-PROGRAM-NAME           PC X(30).
   02 PPB-INTERP-NAME            PC X(30).
   02 PPB-OBJECT-NAME            PC X(30).
   02 PPB-SCHEDULE-PRIORITY      PC S9(3) CMP.
   02 PPB-PROCESSOR-PRIORITY     PC S9(3) CMP.
   02 PPB-MEMORY-PRIORITY        PC S9(3) CMP.
   02 PPB-STATIC-MEMORY          PC S9(9) CMP.
   02 PPB-DYNAMIC-MEMORY         PC S9(9) CMP.
   02 PPB-TOTAL-MEMORY           PC S9(9) CMP.
   02 PPB-NUMBER-OF-FILES        PC S9(3) CMP.
   02 PPB-CHARGE-NUMBER          PC S9(7) CMP.
   02 PPB-VIRTUAL-DISK           PC S9(9) CMP.
   02 PPB-EXECUTE-TYPE           PC S9     CMP.
   02 PPB-EOJ-TYPE               PC S9     CMP.
   02 PPB-YEAR-COMPILED          PC S9(3) CMP.
   02 PPB-J-DAY-COMPILED         PC S9(3) CMP.
   02 PPB-TIME-COMPILED          PC S9(7) CMP.
   02 PPB-SCHED-YEAR             PC S9(3) CMP.
   02 PPB-SCHED-J-DAY            PC S9(3) CMP.
   02 PPB-SCHED-TIME             PC S9(7) CMP.
   02 PPB-BOJ-YEAR               PC S9(3) CMP.
   02 PPB-BOJ-J-DAY              PC S9(3) CMP.
   02 PPB-BOJ-TIME               PC S9(7) CMP.
   02 PPB-EOJ-YEAR               PC S9(3) CMP.
   02 PPB-EOJ-J-DAY              PC S9(3) CMP.
   02 PPB-EOJ-TIME               PC S9(7) CMP.
   02 PPB-PROCESSOR-TIME         PC S9(9) CMP.
   02 PPB-CODE-OVERLAYS          PC S9(7) CMP.
   02 PPB-DATA-OVERLAYS          PC S9(7) CMP.
```

```
        02 FILLER                          PC X(3).

    01 FPB-RECORD.
        02 FPB-REC-TYPE                    PC S9    CMP.
        02 FPB-JOB-ACCTING-NO              PC S9(7) CMP.
        02 FPB-JOB-NO                      PC S9(5) CMP.
        02 FPB-FILE-NO                     PC S9(3) CMP.
        02 FPB-FILE-NAME                   PC X(10).
        02 FPB-EXTERNAL-NAME               PC X(30).
        02 FPB-HDWR                        PC S9(3) CMP.
        02 FPB-BUFFERS                     PC S9(9) CMP.
        02 FPB-RECORD-SIZE                 PC S9(9) CMP.
        02 FPB-RECORDS-PER-BLOCK           PC S9(9) CMP.
        02 FPB-MAX-BLOCK-SIZE              PC S9(9) CMP.
        02 FPB-SAVE-FACTOR                 PC S9(9) CMP.
        02 FPB-ACCESS-TYPE                 PC S9    CMP.
        02 FPB-AREAS_DECLARED              PC S9(3) CMP.
        02 FPB-BLOCKS-PER-AREA             PC S9(9) CMP.
        02 FPB-RECORD-COUNT                PC S9(9) CMP.
        02 FPB-BLOCK-COUNT                 PC S9(9) CMP.
        02 FPB-NO-OPENS-AND-CLOSES         PC S9(7) CMP.
        02 FPB-CUM-OPEN-TIME               PC S9(9) CMP.
        02 FPB-ERRORS                      PC S9(9) CMP.
        02 FILLER                          PC X(71).

    01 OPEN-RECORD.
        02 OPEN-REC-TYPE                   PC S9    CMP.
        02 OPEN-JOB-ACCTING-NO             PC S9(7) CMP.
        02 OPEN-JOB-NO                     PC S9(5) CMP.
        02 OPEN-YEAR                       PC S9(3) CMP.
        02 OPEN-J-DAY                      PC S9(3) CMP.
        02 OPEN-TIME                       PC S9(7) CMP.
        02 OPEN-FILE-NO                    PC S9(3) CMP.
        02 OPEN-FILE-NAME                  PC X(10).
        02 OPEN-EXTERNAL-NAME              PC X(30).
        02 OPEN-HDWR                       PC S9(3) CMP.
        02 OPEN-DMS-FLAG                   PC S9    CMP.
        02 OPEN-EMULATOR-TAPE-FLAG         PC S9    CMP.
        02 OPEN-RECORD-SIZE                PC S9(9) CMP.
        02 OPEN-RECORDS-PER-BLOCK          PC S9(9) CMP.
        02 OPEN-SAVE-FACTOR                PC S9(9) CMP.
        02 OPEN-UNIT-NAME                  PC X(6).
        02 OPEN-ACCESS-TYPE                PC S9    CMP.
        02 OPEN-RECORD-COUNT               PC S9(9) CMP.
        02 OPEN-BLOCK-COUNT                PC S9(9) CMP.
        02 OPEN-NO-ERRORS                  PC S9(9) CMP.
        02 OPEN-FILE-TYPE                  PC S9(3) CMP.
        02 OPEN-SERIAL-NO                  PC X(6).
        02 OPEN-PROTECTION                 PC S9    CMP.
        02 OPEN-PROTECTION-IO              PC S9    CMP.
        02 OPEN-INPUT                      PC S9    CMP.
        02 OPEN-OUTPUT                     PC S9    CMP.
        02 OPEN-NEW-FILE                   PC S9    CMP.
        02 OPEN-WITH-PUNCH                 PC S9    CMP.
```

```
        02 OPEN-WITH-PRINT                PC S9     CMP.
        02 OPEN-NO-REWIND                 PC S9     CMP.
        02 OPEN-REVERSE                   PC S9     CMP.
        02 OPEN-LOCK                      PC S9     CMP.
        02 OPEN-LOCKOUT                   PC S9     CMP.
        02 FILLER                         PC X(62).

    01 CLOSE-RECORD.
        02 CLOSE-REC-TYPE                 PC S9     CMP.
        02 CLOSE-JOB-ACCTING-NO           PC S9(7)  CMP.
        02 CLOSE-JOB-NO                   PC S9(5)  CMP.
        02 CLOSE-YEAR                     PC S9(3)  CMP.
        02 CLOSE-J-DAY                    PC S9(3)  CMP.
        02 CLOSE-TIME                     PC S9(7)  CMP.
        02 CLOSE-FILE-NO                  PC S9(3)  CMP.
        02 CLOSE-FILE-NAME                PC X(10).
        02 CLOSE-EXTERNAL-NAME            PC X(30).
        02 CLOSE-HDWR                     PC S9(3)  CMP.
        02 CLOSE-DMS-FLAG                 PC S9     CMP.
        02 CLOSE-EMULATOR-TAPE-FLAG       PC S9     CMP.
        02 CLOSE-RECORD-SIZE              PC S9(9)  CMP.
        02 CLOSE-RECORDS-PER-BLOCK        PC S9(9)  CMP.
        02 CLOSE-SAVE-FACTOR              PC S9(9)  CMP.
        02 CLOSE-UNIT-NAME                PC X(6).
        02 CLOSE-ACCESS-TYPE              PC S9     CMP.
        02 CLOSE-RECORD-COUNT             PC S9(9)  CMP.
        02 CLOSE-BLOCK-COUNT              PC S9(9)  CMP.
        02 CLOSE-NO-ERRORS                PC S9(9)  CMP.
        02 CLOSE-FILE-TYPE                PC S9(3)  CMP.
        02 CLOSE-SERIAL-NO                PC X(6).
        02 CLOSE-PROTECTION               PC S9     CMP.
        02 CLOSE-PROTECTION-IO            PC S9     CMP.
        02 CLOSE-REEL                     PC S9     CMP.
        02 CLOSE-WITH-RELEASE             PC S9     CMP.
        02 CLOSE-WITH-PURGE               PC S9     CMP.
        02 CLOSE-WITH-REMOVE              PC S9     CMP.
        02 CLOSE-WITH-CRUNCH              PC S9     CMP.
        02 CLOSE-NO-REWIND                PC S9     CMP.
        02 CLOSE-WITH-LOCK                PC S9     CMP.
        02 CLOSE-ROLLOUT                  PC S9     CMP.
        02 CLOSE-DMS-AUDIT-SWITCH         PC S9     CMP.
        02 MCP-TERMINATION-CLOSE          PC S9     CMP.
        02 FILLER                         PC X(61).

    01 LOG-TRANSFER-RECORD.
        02 LT-REC-TYPE                    PC S9     CMP.
        02 LT-YEAR                        PC S9(3)  CMP.
        02 LT-J-DAY                       PC S9(3)  CMP.
        02 LT-TIME                        PC S9(7)  CMP.
        02 LT-CURRENT-LOG-NAME            PC X(30).
        02 FILLER                         PC X(141)
```

```
01 PERIPHERAL-ASSIGNMENT-RELEASE-RECORD.
   02 AR-REC-TYPE                PC S9    CMP.
   02 AR-JOB-ACCTING-NO          PC S9(7) CMP.
   02 AR-JOB-NO                  PC S9(5) CMP.
   02 AR-YEAR                    PC S9(3) CMP.
   02 AR-J-DAY                   PC S9(3) CMP.
   02 AR-TIME                    PC S9(7) CMP.
   02 AR-HOUR                    PC S9(3) CMP.
   02 AR-UNIT-NAME               PC X(6).
   02 FILLER                     PC X(156).
```

RPG RECORD FORMATS

Appearing below are RPG declarations corresponding to the record layouts detailed above; they may be used by RPG programs which process the output of LOGCONVERT.

Clear/Start Record Format:

```
     ILOGFILE NS 01   1 01
                                          P   1   10CSRTYP
                                              2   31 CSMCP
                                             32   61 CSINTP
                                             62   70 CSVRSN
                                          P  71   75OCSSMEM
                                          P  76   77OCSYR
                                          P  78   79OCSJDAY
                                          P  80   83OCSTIME
                                             84  113 CSGSMO
                                            114  143 CSMMCP
                                          P 144  144 CSTABS
```

PPB Record Format:

```
              NS 02   1 02
                                          P   1   10PRTYPE
                                          P   2    5OPJAN
                                          P   6    8OPJOBNO
                                              9   38 PJOBNM
                                             39   68 PINTRP
                                             69   98 POBJNM
                                          P  99  100OPSPRI
                                          P 101  102OPPPRI
                                          P 103  104OPMPRI
                                          P 105  109OPSTMEM
                                          P 110  114OPDYMEM
                                          P 115  119OPTOMEM
                                          P 120  121OPFILES
                                          P 122  125OPCHG
                                          P 126  130OPVDISK
                                          P 131  131OPEXTYP
                                          P 132  132OPEOJTP
                                          P 133  134OPCYR
                                          P 135  136OPCJDAY
```

```
P 137 1400PCTIME
P 141 142CPSYR
P 143 1440PSJDAY
P 145 1480PSTIME
P 149 1500PBYR
P 151 152CPBJDAY
P 153 1560PBTIME
P 157 1580PEYR
P 159 160CPEJDAY
P 161 1640PETIME
P 165 169CPCPUTM
P 170 173CPCOVLY
P 174 177CPDOVLY
```

FPB Record Format:

```
NS 03   1 D3

P   1   10FRTYPE
P   2   50FJAN
P   6   80FJOBNO
P   9  100FFILNO
   11   20 FINTNM
   21   50 FEXTNM
P  51  520FHDWR
P  53  570FBUFFS
P  58  620FRSZ
P  63  670FRECBL
P  68  720FMAXBS
P  73  77CFSAVEF
P  78  78CFACCSS
P  79  800FAREAS
P  81  85CFBAREA
P  86  900FRECCT
P  91  950FBLKCT
P 106  99CFOCCNT
P 100 1040FOPENT
F 105 1090FERRS
```

Open Record Format:

```
NS 04   1 D4

P   1   100RECTP
P   2   500JAN
P   6   800JOBNO
P   9  1000YR
P  11  1200JDAY
P  13  160CTIME
P  17  180CFILNO
   19   28 OINTNM
   29   58 OEXTNM
P  59  6000HDWR
P  61  6100DMS
P  62  620OENUTP
P  63  6700RSZ
```

```
P  68  720ORECBL
P  73  770SAVEF
   78  83 CUNI
P  84  8400ACCSS
P  85  8900RECCT
P  90  9400BLKCT
P  95  9900ERRS
P 100 1010CFILTP
  102 107 OSERNO
P 108 1080CPTN
P 109 1090CPTNIO
P 110 1100CINPUT
P 111 1110COUTPT
P 112 1120CNEW
P 113 1130CWPNCH
P 114 1140CWPRNT
P 115 1150CNORWD
P 116 1160CREVRS
P 117 1170CLOCK
P 118 1180CLKOUT
```

Close Record Format

NS 05 1 05

```
P   1   10CRTYPE
P   2   50CJAN
P   6   80CJOBNO
P   9  100CYR
P  11  120CJDAY
P  13  160CTIME
P  17  180CFILNO
   19  28 CINTNM
   29  58 CEXTNM
P  59  600CHDWR
P  61  610CDMS
P  62  620CEMUTP
P  63  670CRSZ
P  68  720CRECBL
P  73  770CAVEF
   78  83 CUNI
P  84  840CACCSS
P  85  890CRECCT
P  90  940CBLKCT
P  95  990CERRS
P 100 1010CFILTP
  102 107 CSERNO
P 108 1080CPTN
P 109 1090CPTNIO
P 110 1100CREEL
P 111 1110CRELSE
P 112 1120CPURGE
P 113 1130CREMOV
P 114 1140CCRNCH
P 115 1150CNORWD
```

```
P 116 116OCWLOCK
P 117 117OCRLOUT
P 118 118OCDMSSW
P 119 119OCTERM
```

Log Transfer Record Format:

```
NS 06   1 D6

P   1   1OLRTYPE
P   2   3OLYR
P   4   5OLJDAY
P   6   9OLTIME
   10  39 LLOGID
```

Peripheral Assignment/Release Record Format:

```
NS 07   1 D7
OR      1 D8

P   1   1OARTYPE
P   2   5OAJAN
P   6   8OAJOBNO
P   9  10OAYR
P  11  12OAJDAY
P  13  16OATIME
P  17  18OAHDWR
   19  24 AUNI
```

ERROR MESSAGES

1. INCOMPATIBLE SYSTEM SOFTWARE - MUST BE <level> MCP...EOJ

   Due to the changing format of log records between MCP releases, LOGCONVERT ascertains that it has been executed under control of the appropriate level of software and aborts in case of a mismatch.

2. [LET'S TRY AGAIN...] ENTER LOG NUMBER

   The integer representing the log to be processed is requested; input is free-format. If an invalid entry has been made, causing one of the error messages below to be displayed, another request for the log identification integer is prefaced by the phrase "LET'S TRY AGAIN".

The next four error messages reflect invalid cases of user input to the request for the log identification integer. The request is re-displayed following the error message.

3. LOG # CAN'T BE ZERO

   The MCP assigns log numbers sequentially from one. Consequently, LOGCONVERT refuses to accept an identification integer of zero.

4. LOG NUMBER TOO LONG - MAX 6 DIGITS

   As the integer identifying a transferred log does not exceed six decimal digits, LOGCONVERT disallows specification of an integer exceeding six digits.

5. <token> ISN'T NUMERIC

   Non-numeric data was input in response to the request for a log identification integer.

6. NULL INPUT...PROGRAM EOJ

   The response to the request for a log identification integer was an empty input line. LOGCONVERT considers this as a request to terminate.

7. UNEXPECTED EOF ON LOG WHILE READING <record type>; PROBABLE HARDWARE MALFUNCTION

   where <record type> is one of:

   PPB SEG 1
   PPB SEG 2
   DUMMY PPB
   FPB #<integer>

TRACE FPB

Once the PPB record for a given job is found in a log file, certain other records are expected. This message informs the operator that EOF was reached when attempting to input one of the expected records for a job for which the first PPB record had been found.

8. AT RECORD <integer>

This message is the response to a STATUS request. It informs the user of the actual record number of the log file being processed.

9. HUH?

LOGCONVERT emits this reply if an invalid request is entered after processing commences.

BURROUGHS CORPORATION
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INDEX