

LABEL 000000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/MLUGAN+0000000

OBJECT /READ

SYMBOL/MLOGAN

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COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE * 00000010
* FILE ID: SYMBOL/MLOGAN TAPE ID: SYMBOL2/FILE000 * 00000011
* THIS MATERIAL IS PROPRIETARY TO BURROUGHS CORPORATION * 00000012
* AND IS NOT TO BE REPRODUCED, USED, OR DISCLOSED * 00000013
* EXCEPT IN ACCORDANCE WITH PROGRAM LICENSE OR UPON * 00000014
* WRITTEN AUTHORIZATION OF THE PATENT DIVISION OF * 00000015
* BURROUGHS CORPORATION, DETROIT, MICHIGAN 48232 * 00000016
* * 00000017
* COPYRIGHT (C) 1972 BURROUGHS CORPORATION * 00000018
* AA320206 AA386657 *; 00000019

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1 00000020
2 % COMMENT DATE 21 AUG 72 : LATEST AND GREATEST; 00000100
3 % COMMENT DATE 14 DEC 73 : REVISED TO HANDLE EXCEPTION CONDITIONS; 00000110
4 % 00000120
5 % VARIOUS REPORTS ARE PRODUCED BY THIS PROGRAM KEYED ON THE COMMON VALUE 00000200
6 % THE COMMON VALUE HAS AN INPUT PART AND AN OUTPUT PART.. 00000210
7 % THE UNITS DIGIT SPECIFIES THE INPUT MODE AS FOLLOWS: 00000300
8 % 1 = SPD INPUT 00000310
9 % 2 = CARD INPUT 00000320
10 % THE TENS DIGIT SPECIFIES WHICH REPORTS TO GENERATE AS FOLLOWS: 00000400
11 % 0 = GENERATE ANY AND ALL REPORTS. 00000410
12 % 1 = CHRONOLOGICAL LISTING REPORT ONLY. 00000420
13 % 2 = SUMMARY REPORTS FOR PERIPHERIAL UNIT ERRORS ONLY. 00000430
14 % 4 = REAL TIME TAPE WRITE FAILURE REPORT ONLY. 00000440
15 % 8 = ONLINE CONFIDENCE TEST RESULT SUMMARIES ONLY. 00000450
16 % TO GENERATE COMBINATIONS OF REPORTS, SIMPLY ADD UP THE TENS DIGIT 00000500
17 % FOR EACH REPORT DESIRED, FOR EXAMPLE: 00000510
18 % 3 = SUMMARY REPORTS AND CHRONOLOGICAL LISTING REPORT... 00000520
19 % 5 = CHRONOLOGICAL LISTING REPORT AND REAL TIME TAPE TEST REPORT... 00000530
20 % 6 = SUMMARY REPORTS AND REAL TIME TAPE TEST REPORT... 00000540
21 % 10 = SUMMARY REPORTS OF PERIPHERIAL UNIT AND ONLINE MAINT ENTRIES.. 00000550
22 % 00000600
23 % TO MAKE THE PROGRAM EASIER TO RUN FOR NORMAL TERMINATION PROCEDURES 00000610
24 % THE FOLLOWING MODIFICATIONS HAVE BEEN MADE TO THE COMMON VALUES: 00000612
25 % 00000614
26 % IF THE PROGRAM IS EXECUTED WITH A USERCODE OF "SITE" AND 00000616
27 % THE COMMON VALUE IS OF THE FORM: 00000618
28 % COMMON = 0 OR COMMON = MMDD (MM=MONTH, DD=DAY) 00000620
29 % THEN THE FOLLOWING OPERATIONS OCCUR: 00000622
30 % (IF THE USERCODE IS NOT "SITE" AND COMMON = 0 OR COMMON = MMDD 00000624
31 % THEN THE NORMAL OPERATION OF THE COMMON VALUES IS USED) 00000626
32 % 00000628
33 % 1) ONLY THE SUMMARY REPORTS FOR PERIPHERIAL UNIT ERRORS 00000632
34 % ARE PRODUCED, 00000634
35 % 00000635
36 % 2) WITH A COMMON VALUE OF 0, ALL MAINTENANCE LOGS CREATED 00000636
37 % ON THE DAY OF EXECUTION TOGETHER WITH THE CURRENT MAINT/LOG 00000638
38 % ARE USED, 00000640
39 % 00000642
40 % 3) IF THE COMMON VALUE MMDD IS USED, ONLY THE MAINTENANCE 00000644
41 % LOG FILES CREATED ON THE DATE "MMDD" WHICH ARE ON THE DISK 00000646
42 % ARE USED. 00000648
43 % 00000650
44 % SAMPLE EXECUTE 00000652
45 % Q USER = SITE ; EXECUTE LOGANL/MAINT; COMMON = 0 ; END. 00000654
46 % Q USER = SITE ; EXECUTE LOGANL/MAINT; COMMON = 0622 ; END. 00000656
47 % 00000658
48 BEGIN 00001000
49 INTEGER COMMON; 00002000
50 DEFINE 00002100

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LOGFID="MNTLOG" #, % CHANGE THIS FOR SHAREDISK          00002200
MAXFNUM=99#, % MAXIMUM NUMBER OF FILES                 00002300
MAXENTRY=205#; % MAXIMUM SIZE OF LOG ENTRY             00002400
1 REAL
2 I,J,K,N,                                              00003000
3 MFID,FID,ALPHA1,ALPHA2, %KEEP IN THIS ORDER FOR SCAN 00004000
4 TAPERRORS,DISKERRORS,TAPETESTS,                     00005000
5 LUN,TYPE,FNUM,MIX,MARKER,                            00006000
6 LASTENTRY,LOGENTRY,NUMENTRIES,RCNT,SEGS,            00007000
7 STARTDATE,STARTIME,STOPDATE,STOPTIME,              00008000
8 CDATE,ACTDATE,TIME0,TIME1,PROCTIME,IOTIME,          00009000
9 ETYPE,EUSPEED,T1,T2,LUNMAX,MIXMAX;                 00010000
10 ARRAY
11 A[0:9],                                              00011000
12 B[0:209],                                           00012000
13 DAYS[0:6],                                          00012100
14 INX[0:39],                                          00012200
15 JAR[0:31,0:299],                                   00012300
16 JUNKBUFFER[0:39],                                  00012400
17 L[0:17],                                           00012500
18 MESS[0:25],                                        00012600
19 RETRY[0:31],                                       00012700
20 TABLE[0:39,0:1022],                               00012800
21 TERMINALMESSAGE[0:9],                             00012900
22 TINU[0:31],                                        00013000
23 TPECNF[0:1,0:31],                                  00013100
24 UNIT[0:63],                                        00013200
25 UNK[0:11],                                         00013300
26 UTITLES[0:17];                                     00013400
27 BOOLEAN
28 LISTOG,SUMTOG,TESTOG,ONLTUG,% REPORT TOGGLES       00013500
29 DRUMTOG,SUMFILETOG,CROSSTOG,HALTOG,XDLOG,          00013600
30 INPASS1,MAINTLOG,USEFINPUT;                       00021000
31 LABEL
32 STARTUP,FINISHUP,RENTER,ENDOFFILE,EOP,FINIS,       00021100
33 FLAGBIT,INVALIDINDEX,INTEGROVFLW,EXPONOVFLW,DIVBYZERO; 00021200
34 MONITOR FLAG,INDEX,INTOVR,EXPOVR,ZERO:=DIVZERO;    00021300
35 FILE
36 LOG DISK SERIAL (2,5,90),                          00022000
37 FINPUT DISK SERIAL[20:30] (2,10,30),               00022100
38 PBD DISK SERIAL[20:1500] "PBD""MAINT" (2,18,90),  00022200
39 TST DISK SERIAL[20:100] "TST""MAINT" (1,210,210), 00022300
40 TEMP DISK SERIAL[20:600] "TMP""MAINT" (2,10,30),  00023000
41 BADISK DISK SERIAL[20:600] "XD""MAINT" (2,10,30), 00024000
42 SUM DISK SERIAL[20:600] "SUM""MAINT" (2,10,30),   00024100
43 SORTED DISK SERIAL[20:600] "SRT""MAINT" (2,10,30), 00025000
44 SPO 11(1,10),                                       00025100
45 LPA 17(3,15),                                       00026000
46 WHATLOG 0(2,10);                                    00026100
47 SWITCH FILE SWIN := TEMP,BADISK;                   00027000
48 SWITCH FILE SWOUT := SUM,SORTED;                   00028000
49 DEFINE
50 COM =T1#,                                           00029000
51 CF=33:15#, FF=18:15#, SF=8:10#,                   00030000
52 ARROW ="<"#,                                        00031000
53 BIT = IF SB THEN DS:=SET ELSE DS:=RESET;SKIP SB#, 00032000
54 OCTADE=DS:=3 RESET;3(IF SB THEN DS:=SET ELSE DS:=RESET;SKIP SB)#, 00033000
55 BL =BOOLEAN#,                                       00034000
56 PRINTMFID = WRITE(LPA[DBL],FMFID,LMFID) #,        00035000
57 WRITESINGLE = L[17]:=0; WRITE(PBD,18,L[*])#;        00036000

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WRITEDOUBLE= L[17]=1; WRITE(PBD,18,L[*])# 00038000
WRITEPAGE = L[17]=999; WRITE(PBD,18,L[*])# 00039000
WRITESPACES(WRITESPACES1)= 00040000
L[17]=WRITESPACES1; WRITE(PBD,18,L[*])# 00041000
SINGLESPEACE= L[17]=0# 00042000
DOUBLESPEACE= L[17]=1# 00043000
PAGEIT = L[17]=999# 00044000
EOFPBD = L[17]=1023# 00045000
ZERO(ZERO1,ZERO2)=ZEROUT((ZERO1)-1,ZERO2)# 00045100
DUMMY=DUMMY# 00046000
LIST 00046100
LMFID(MFID,[6:6],MFID,FID,[6:6],FID) 00046200
LALPHA(ALPHA1,ALPHA2,NUMENTRIES,I:=LUGENTRY,[CF],I DIV 6); 00046300
FORMAT 00047000
SPACES(*(/)), 00048000
FMFID("ANALYSIS FOR FILE ",A1,A6,"/",A1,A6) 00049000
FDATE(X8,"DATE IS ",A5,X2,A6,"DAY",A0) 00050000
FTERMINATE(A6,A6," BRANCH : ENTRY ",U,"AT RECORD ",U,"SEGMENT ",U); 00051000
% 00065000
STREAM PROCEDURE BOJMESS 00066000
(L,JULIAN,DAY,DATE,TIME,LISTOG,SUMTOG,TESTOG,ONLTOG); 00066100
VALUE JULIAN,DAY,DATE,TIME,LISTOG,SUMTOG,TESTOG,ONLTOG; 00066200
BEGIN 00066400
DI:=L; 00066500
DS:=12 LIT"LOGANL/MAINT"; 00066550
DS:=12 LIT" RUN "; 00066600
SI:=LOC JULIAN; SI:=SI+3; DS:=5 CHR; 00066650
DI:=DI+2; SI:=SI+2; DS:=6 CHR; 00066700
DS:=7 LIT"DAY, "; DS:=8 CHR; 00066800
DI:=DI+3; SI:=SI+3; DS:=5 CHR; 00066900
DS:=9 LIT" WITH "; 00067000
LISTOG(DS:=14 LIT"CHRONOLOGICAL,"); 00067100
SUMTOG(DS:=8 LIT"SUMMARY,"); 00067200
TESTOG(DS:=13 LIT"REALTIMETAPE,"); 00067300
ONLTOG(DS:=11 LIT"CONFIDENCE,"); 00067400
DI:=DI-1; DS:=LIT"."; 00067500
END BOJMESS; 00067600
% 00067700
STREAM PROCEDURE BLANK(L); 00069000
BEGIN 00069100
DI:=L; DS:=8 LIT" "; SI:=L; DS:=14 WDS; 00069200
END BLANK; 00069300
% 00069400
STREAM PROCEDURE UNDERLINE(L); 00070000
BEGIN 00071000
SI:=L; DI:=L; 00072000
2(60(IF SC# " " THEN DS:=LIT"" ELSE DI:=DI+1; SI:=SI+1)); 00073000
END UNDERLINE; 00074000
% 00074100
STREAM PROCEDURE ZEROUT(N,A); VALUE N; 00075000
BEGIN LOCAL NDIV64; 00076000
SI:=LOC N; DI:=LOC NDIV64; SI:=SI+6; DI:=DI+7; DS:=CHR; 00077000
DI:=A; DS:=8 LIT"0"; SI:=A; 00078000
NDIV64(DS:=32 WDS; DS:=32 WDS); DS:=N WDS; 00079000
END ZEROUT; 00080000
% 00080100
STREAM PROCEDURE MOVE(N,HERE,THERE); VALUE N; 00081000
BEGIN 00082000
SI:=HERE; DI:=THERE; DS:=N WDS; 00083000
END MOVE; 00084000

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%
REAL STREAM PROCEDURE SNOOP(FILEN);
BEGIN
  SI:=FILEN; DI:=LOC SNOOP; DS:=WDS;
END SNOOP;
%
REAL STREAM PROCEDURE GETEUSPEED(EU,EUSPEED); VALUE EU,EUSPEED;
BEGIN
  DI:=LOC GETEUSPEED; DI:=DI+7, SKIP 4 DB;
  SI:=LOC EUSPEED; SKIP SB; EU(SKIP 2 SB); 2(BIT);
END GETEUSPEED;
%
REAL STREAM PROCEDURE OCTV(DEC1); VALUE DEC1;
BEGIN
  DI:=LOC DEC1; DS:=5 RESEI; DI:=LOC OCTV; SI:=LOC DEC1; DS:=8 OCT;
END OCTV;
%
REAL STREAM PROCEDURE OCTCONV(N,DEC1); VALUE N,DEC1;
BEGIN
  SI:=LOC DEC1; SI:=SI+N; DI:=LOC OCTCONV; 8(OCTADE);
END OCTCONV;
%
REAL STREAM PROCEDURE DECM(OCTV); VALUE OCTV;
BEGIN
  SI:=LOC OCTV; DI:=LOC DECM; DS:=8 DEC;
END DECM;
%
REAL STREAM PROCEDURE DECL(OCTV); VALUE OCTV;
BEGIN
  SI:=LOC OCTV; DI:=LOC DECL; DS:=8 DEC; DI:=DI-7; DS:=7 FILL;
END DECL;
%
REAL PROCEDURE ATIME(XCLOCK); VALUE XCLOCK; REAL XCLOCK;
BEGIN INTEGER HR,MIN;
  HR:= XCLOCK DIV 216000;
  MIN:= (XCLOCK DIV 3600) MOD 60;
  ATIME:= DECM(MIN) & 13[30:42:6] & DECM(HR)[18:36:12];
END ATIME;
%
REAL PROCEDURE DAY(JULIAN); VALUE JULIAN; REAL JULIAN;
BEGIN
  INTEGER D,H,M,Q,P,Y;
  LABEL OWT,EXIT;
  IF JULIAN=0 THEN BEGIN ACTDATE:=0; GO EXIT; END;
  D:=JULIAN.[30:6]*100+JULIAN.[36:6]*10+JULIAN.[42:6];
  Y:=JULIAN.[18:6]*10 +JULIAN.[24:6];
  FOR H:=31, IF Y MOD 4 = 0 THEN 29 ELSE 28,
    31,30,31,30,31,31,30,31,30 DO
    IF D LEQ H THEN GO OWT ELSE
      BEGIN D:=D-H; M:=M+1; END;
  OWT:
  IF M<2 THEN BEGIN Q:=M+11; P:=Y-1 END
    ELSE BEGIN Q:=M-1; P:=Y END;
  M:=M+1;
  ACTDATE:= JULIAN.[18:12] & 49[30:42:6] & DECM(D)[18:36:12]
    & 49[12:42:6] & DECM(M)[1:37:11];
  IF JULIAN < 0 THEN
    DAY:= ACTDATE ELSE
    DAY:= DAYS[((Q*26-2) DIV 10+D+P+P.[36:10]+1) MOD 7];
  EXIT;

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00084050
00084100
00084200
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00084400
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00084500
00084600
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00084800
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END DAY; 00131000
% 00132000
BOULEAN STREAM PROCEDURE TESTBIT(B,I); VALUE I; 00133000
1 BEGIN 00134000
2 SI:=B; SI:=SI+30; SKIP 2 SB; 00135000
3 SKIP I SB; IF SB THEN TALLY:=1; 00136000
4 TESTBIT:= TALLY; 00137000
5 END TESTBIT; 00138000
6 % 00139000
7 INTEGER STREAM PROCEDURE ANALYZEDESC(TYPE,TINU,RESULT,MSGBUFFER); 00140000
8 VALUE TYPE,TINU; 00141000
9 BEGIN LOCAL R; 00142000
10 LABEL CARD,LINE,TAPE,DRUM,DISK,SPO, 00143000
11 PUNCH,PREAD,D19,XIT; 00144000
12 DI:=MSGBUFFER; DS:=8 LIT" "; 00144100
13 SI:=MSGBUFFER; DS:=39 WDS; 00144200
14 DI:=MSGBUFFER; 00145000
15 SI:=RESULT; SI:=SI+4; IF SB THEN TALLY:=1; 00146000
16 R:=TALLY; TALLY:=0; SKIP 2 SB; 00146100
17 IF SB THEN 00147000
18 BEGIN 00148000
19 DS:=24 LIT"D22 - CORE ADDRESS ERROR"; 00149000
20 DS:=11 LIT" ADDRESS= @"; 00150000
21 SKIP 7 SB; 5(OCTADE); 00152000
22 SI:=SI-4; SKIP 2 SB; 00154000
23 TALLY:=TALLY+1; 00155000
24 END; 00156000
25 SKIP 4 SB; 00157000
26 IF SB THEN 00158000
27 BEGIN 00159000
28 SI:=LOC TINU; SI:=SI+5; 00160000
29 DS:=6 LIT"D18 - "; DS:=3 CHR; 00161000
30 DS:=10 LIT" NOT READY"; DI:=DI+21; 00162000
31 SI:=RESULT; SI:=SI+5; 00163000
32 TALLY:=TALLY+1; 00164000
33 END; 00165000
34 SKIP SB; 00166000
35 IF SB THEN 00167000
36 BEGIN 00168000
37 DS:=18 LIT"D17 - DESC. PARITY"; DI:=DI+22; 00169000
38 TALLY:=TALLY+1; 00170000
39 END; 00171000
40 SKIP SB; 00172000
41 IF SB THEN 00173000
42 BEGIN 00174000
43 SI:=LOC TINU; SI:=SI+5; 00175000
44 DS:=6 LIT"D16 - "; DS:=3 CHR; 00176000
45 DS:=5 LIT" BUSY"; DI:=DI+26; 00177000
46 TALLY:=TALLY+1; 00178000
47 END; 00179000
48 SI:=RESULT; SI:=SI+4; SKIP 3 SB; 00180000
49 CI:=CI+TYPE; 00181000
50 GO TO XIT; 00182000
51 GO TO CARD; 00183000
52 GO TO LINE; 00184000
53 GO TO TAPE; 00185000
54 GO TO DRUM; 00186000
55 GO TO DISK; 00187000
56 GO TO SPO; 00188000
57 GO TO PUNCH; 00189000
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GO TO XIT;                                00190000
GO TO SPO;    % PPUNCH...                 00191000
GO TO PREAD;                                00192000
1  GO TO SPO;    % DCOM,.....              00193000
2  CARD;                                       00194000
3  SKIP SB;                                   00195000
4  IF SB THEN                                00196000
5  BEGIN                                     00197000
6      DS:=16 LIT"D20 - READ CHECK"; DI:=DI+24; 00198000
7      TALLY:=TALLY+1;                       00199000
8  END;                                       00200000
9  SKIP SB;                                   00201000
10 IF SB THEN                                00202000
11 BEGIN                                     00203000
12     DS:=20 LIT"D19 - VALIDITY CHECK";      00204000
13     TALLY:= TALLY+1;                       00205000
14 END;                                       00206000
15 GO TO XIT;                                00207000
16 LINE;                                       00208000
17 SKIP SB;                                   00209000
18 IF SB THEN                                00210000
19 BEGIN                                     00211000
20     DS:=17 LIT"D20 - PRINT CHECK"; DI:=DI+23; 00212000
21     TALLY:=TALLY+1;                       00213000
22 END;                                       00214000
23 GO TO D19;                                00216000
24 TAPE;                                       00217000
25 SKIP SB;                                   00218000
26 IF SB THEN                                00219000
27 BEGIN                                     00220000
28     DS:=6 LIT"D20 - ";                    00222000
29     DS:=5 LIT"WRITE"; R(DI:=DI-5; DS:=5 LIT"READ "); 00223000
30     DS:=7 LIT" PARITY"; DI:=DI+22;        00224000
31     TALLY:=TALLY+1;                       00226000
32 END;                                       00227000
33 SKIP SB;                                   00228000
34 IF SB THEN ELSE GO TO XIT; % SAVES PRT LOCATION 00229000
35 BEGIN                                     00230000
36     SI:=RESULT; SKIP 2 SB;                 00231000
37     IF SB THEN ELSE BEGIN SI:=SI+3; SKIP 4 SB; GO TO D19 END; 00232000
38     BEGIN                                  00233000
39         % MOD III 1/0"S                    00234000
40     SKIP 9 SB;                             00235000
41     IF SB THEN                              00236000
42     BEGIN                                   00237000
43         DS:=20 LIT"D37,D19 - MEM PARITY"; DI:=DI+20; 00238000
44         TALLY:=TALLY+1;                   00239000
45     END;                                    00240000
46     SKIP SB;                               00241000
47     IF SB THEN                              00242000
48     BEGIN                                   00244000
49         DS:=24 LIT"D36,D19 - BLANK TAPE ON "; 00245000
50         DS:=5 LIT"WRITE"; R(DI:=DI-5; DS:=5 LIT"READ "); 00246000
51         DI:=DI+11;                         00248000
52         TALLY:=TALLY+1;                   00249000
53     END;                                    00250000
54     SKIP SB;                               00251000
55     IF SB THEN                              00252000
56     BEGIN                                   00253000
57         DS:=18 LIT"D35,D19 - TAPE BOT"; DI:=DI+22; 00254000
58         TALLY:=TALLY+1;

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	END;	00255000
	SKIP SB;	00256000
	IF SB THEN	00257000
1	BEGIN	00258000
2	DS:=18 LIT"D34,D19 - TAPE EOT";	00259000
3	TALLY:=TALLY+1;	00260000
4	END;	00261000
5	DI:=RESULT; DI:=DI+4; SKIP 3 DB;	00262000
6	SI:=SI-1;	00263000
7	IF SB THEN DS:=SET ELSE DS:=RESET;	00264000
8	SKIP DB;	00265000
9	SI:=SI-1; SKIP 5 SB;	00266000
10	IF SB THEN ELSE DS:=RESET;	00267000
11	END; END;	00271000
12	GO TO XIT;	00272000
13	DRUM;	00273000
14	IF SB THEN	00274000
15	BEGIN	00275000
16	DS:=27 LIT"D21 - DRUM CHANNEL LOCK OUT"; DI:=DI+13;	00276000
17	TALLY:=TALLY+1;	00277000
18	END;	00278000
19	SKIP SB;	00279000
20	IF SB THEN	00280000
21	BEGIN	00281000
22	DS:=17 LIT"D20 - MEMORY RACE"; DI:=DI+23;	00282000
23	TALLY:=TALLY+1;	00283000
24	END;	00284000
25	SKIP SB;	00285000
26	IF SB THEN	00286000
27	BEGIN	00287000
28	R(DS:=17 LIT"D19 - READ PARITY"; TALLY:=TALLY+1; JUMP OUT XIT);	00288000
29	SI:=SI-1; SKIP 4 SB;	00289000
30	GO TO D19;	00290000
31	END;	00296000
32	GO TO XIT;	00297000
33	DISK;	00298000
34	SI:=SI-1; SKIP SB;	00298100
35	IF SB THEN	00298120
36	BEGIN	00298140
37	DS:=16 LIT"D23 - READ CHECK"; DI:=DI+24;	00298160
38	TALLY:=TALLY+1;	00298180
39	END;	00298200
40	SKIP 2 SB;	00298220
41	IF SB THEN	00299000
42	BEGIN	00300000
43	DS:=18 LIT"D21 - EU NOT READY"; DI:=DI+22;	00301000
44	TALLY:=TALLY+1;	00302000
45	END;	00303000
46	SKIP SB;	00304000
47	IF SB THEN	00305000
48	BEGIN	00306000
49	DS:=17 LIT"D20 - WRITE LOCK ";	00307000
50	R(DI:=DI-11; DS:=11 LIT"READ PARITY"); DI:=DI+23;	00307100
51	TALLY:=TALLY+1;	00308000
52	END;	00309000
53	SKIP SB;	00310000
54	IF SB THEN	00311000
55	BEGIN	00312000
56	DS:=17 LIT"D19 - DATA PARITY";	00313000
57	TALLY:=TALLY+1;	00314000



	END;	00315000
	GO TO XIT;	00316000
	PUNCH;	00317000
1	SKIP SB;	00318000
2	IF SB THEN	00319000
3	BEGIN	00320000
4	DS:=17 LIT"D20 - PUNCH CHECK"; DI:=DI+23;	00321000
5	TALLY:=TALLY+1;	00322000
6	END;	00323000
7	GO TO D19;	00325000
8	PREAD;	00326000
9	SKIP 2 SB;	00327000
10	IF SB THEN	00328000
11	BEGIN	00329000
12	DS:=17 LIT"D19 - READ PARITY";	00330000
13	TALLY:=TALLY+1;	00331000
14	END;	00332000
15	GO TO XIT;	00333000
16	SPU;	00334000
17	SKIP SB;	00336000
18	D19;	00337000
19	SKIP SB;	00338000
20	IF SB THEN	00339000
21	BEGIN	00340000
22	DS:=16 LIT"D19 - MEM PARITY";	00341000
23	TALLY:=TALLY+1;	00342000
24	END;	00343000
25	XIT;	00344000
26	ANALYZEDESC:=TALLY;	00345000
27	END ANALYZEDESC;	00346000
28	%	00347000
29	PROCEDURE BREAKDOWNADDRESS(FA, ARAY);	00348000
30	VALUE FA; REAL FA; INTEGER ARRAY ARAY[0];	00349000
31	BEGIN	00350000
32	DEFINE	00351000
33	FILEADDR=ARAY[0]#;	00352000
34	EU =ARAY[1]#;	00353000
35	SU =ARAY[2]#;	00354000
36	SET =ARAY[3]#;	00355000
37	FACE =ARAY[4]#;	00356000
38	ZONE =ARAY[5]#;	00357000
39	TRACK =ARAY[6]#;	00358000
40	SEG =ARAY[7]#;	00359000
41	HEAD =ARAY[8]#;	00360000
42	PIN =ARAY[9]#;	00361000
43	ERROR(ERROR1)=BEGIN ARAY[9]:=-ERROR1; GO EXIT; END#;	00362000
44	%	00362100
45	INTEGER C, TR, DKTYPE;	00363000
46	LABEL HS1, HS2, HS3, HS4, EXIT;	00364000
47	SWITCH HSW:=HS1, HS2, HS3, HS4;	00365000
48	BOOLEAN EVEN;	00366000
49	%	00366100
50	INTEGER PROCEDURE ZNE(FA, DKTYPE);	00367000
51	VALUE FA, DKTYPE; INTEGER FA, DKTYPE;	00368000
52	ZNE:= IF FA:=(FA MOD 100) < (IF DKTYPE=2 THEN 25 ELSE 24) THEN 0	00369000
53	ELSE IF FA < (IF DKTYPE=2 THEN 58 ELSE 56) THEN 1 ELSE 2;	00370000
54		00371000
55	FILEADDR:= OCTV(FA);	00372000
56	IF (EU:=OCTV(FA.[5:7])) > 19 THEN ERROR(1);	00373000
57	IF (DKTYPE:=GETEUSPEED(EU, EUSPEED)) = 0 THEN ERROR(2);	00374000

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IF (SET:=OCTV(FA.[12:12])) > 20*DKTYPE-1 THEN ERROR(3);
IF (TR:=TRACK:=OCTV(FA.[24:12])) > 99 THEN ERROR(4);
IF (SEG:=ABS(OCTV(FA.[36:12]))) > 99 THEN ERROR(5);
SU:= SET DIV (4*DKTYPE) +1;
SET:= (SET MOD 4) +1;
FACE:=IF (REAL(TR<50) + REAL(SET MOD 2=1)) MOD 2=0
THEN "CW " ELSE "CCW";
ZONE:=ZNE(FILEADDR,DKTYPE)+1;
EVEN:=TR MOD 2=0;
C:= IF TR LEQ 24 THEN IF EVEN THEN 1 ELSE 0 ELSE
IF TR LEQ 49 THEN IF EVEN THEN 3 ELSE 2 ELSE
IF TR LEQ 74 THEN IF EVEN THEN 1 ELSE 0 ELSE
IF EVEN THEN 3 ELSE 2;
TR:= TR MOD 50;
GO TO HSW[C+1];
HS1: %C=0
PIN:=TR DIV 2+5;
HEAD:=IF ZONE = 1 THEN 1 ELSE
IF ZONE = 2 THEN 5 ELSE 11;
GO EXIT;
HS2: %C=1
PIN:=TR DIV 2 + 4;
HEAD:=IF ZONE=1 THEN 2 ELSE
IF ZONE=2 THEN 8 ELSE 12;
GO EXIT;
HS3: %C=2
PIN:=((TR-24) DIV 2)+4;
HEAD:=IF ZONE=1 THEN 3 ELSE
IF ZONE=2 THEN 7 ELSE 13;
GO EXIT;
HS4: %C=3
PIN:=((TR-26) DIV 2)+5;
HEAD:=IF ZONE=1 THEN 4 ELSE
IF ZONE=2 THEN 6 ELSE 14;
GO EXIT;
EXIT:
END BREAKDOWNADDRESS;
%
PROCEDURE PERIPHANDLER;
BEGIN REAL IO,NEUM,ENTRY;
LABEL READOBJ,READFIL,NOFILE,SEEK,EXIT;
DEFINE FILEADDR=A[0]#,
EU =A[1]#,
SU =A[2]#,
SET =A[3]#,
FACE =A[4]#,
ZONE =A[5]#,
TRACK =A[6]#,
SEG =A[7]#,
HEAD =A[8]#,
PIN =A[9]#;
FORMAT
DETAIL(A5,X3,A3,"(",A1,")",X2,"MIX=",I3,X3,"CHANNEL=",I2),
DAF(X40,"DISK ADDRESS = ",I2,A6),
ADDRESSERRORF(X40,"DISK ADDRESS ERRGR"),
EUF(X40,"EU",I2),
SUF(X40,"STORAGE UNIT",I3,X2,":",X2,"ZONE",I2,X6,"I",
X2,"HEAD",I3),
DISKF(X40,"DISK",I2,X11,":",X2,"TRACK",I3,X4,":",X2,
"PIN ",I2," (CENTER TAP)"),

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00375000
00376000
00377000
00378000
00379000
00380000
00381000
00382000
00383000
00384000
00385000
00386000
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00389000
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00410000
00411000
00414000
00415000
00416000
00417000
00417100
00417200
00417300
00417400
00417500
00417600
00417700
00417800
00417900
00418000
00418500
00419000
00420000
00420100
00420200
00420300
00420400
00420500
00420600

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1	FACEF(X40,A3,"FACE",X9,":",X2,"SEGMENT",I2,X2,":"),	00420700	
2	PHYREEL(X40,"PHYSICAL REEL=",I5),	00421000	
3	IDDESC(X40,"I/O DESC.",X2,0,X1,0,	00422000	
4	*(X15,"OBJ JOB NAME",X2,A1,A6,"/",A1,A6)),	00423000	
5	REDESC(X40,"RESULT DESC.",X2,0,X1,0,	00424000	
6	*(X15,"FILE NAME",X2,A1,A6,"/",A1,A6)),	00425000	
7	RETRIES(X40,"RETRIES",I5),	00426000	
8	TAPENAME(X88,"TAPE NAME",A1,A6,"/",A1,A6),	00427000	
9	TAPERFEEL(X88,"REEL",I5),	00428000	
10	TAPEDATE(X88,"CREATION DATE",A5,X2,0),	00429000	
11	TAPECYCL(X88,"CYCLE",I5),	00430000	
12	TAPETRAN(X88,"TRANSACTION",I5);	00431000	
13	%	00432000	
14	MIX := B[0].[20:5];	00433000	
15	IF (FNUM:=B[0].[9:9])>MAXFNUM THEN FNUM:=MAXFNUM;	00434000	
16	LUN := UNIT[B[3].[3:5]*2+I0:=B[3].[24:1]];	00435000	
17	IF TYPE=3 THEN IF B[9]=1023 THEN	00436000	
18	BEGIN IF LUN<16 THEN RETRY[LUN]:=RETRY[LUN]+B[8];	00438000	
19	GO EXIT;	00439000	
20	END;	00440000	
21	IF LISTOG THEN	00441000	
22	BEGIN	00442000	
23	IF TYPE=5 THEN WRITE(L[*],DAF,B[2].[5:7],B[2]) ELSE	00443000	
24	IF TYPE=3 THEN WRITE(L[*],PHYREEL,B[7].[30:18]) ELSE BLANK(L);	00444000	
25	WRITE(A[*],DETAIL	00446000	
26	,ATIME(B[1].[3:24])	00447000	
27	,NEUM:=IF LUN=3 THEN UNK[TYPE] ELSE TINU[LUN]	00448000	
28	,IF I0=1 THEN 41 ELSE 54	00449000	
29	,MIX	00450000	
30	,B[0].[18:2]+1	00451000	
31	);	00452000	
32	MOVE(5,A,L);	00453000	
33	WRITESINGLE;	00454000	
34	IF TYPE=5 THEN	00455000	
35	BEGIN WRITE(L[*],RETRIES,IF (I:=B[2].[1:4])=0 THEN 10 ELSE I);	00456000	
36	IF I=0 THEN MOVE(2,MESS[6],L[8]) ELSE MOVE(2,MESS[4],L[8]);	00458000	
37	WRITESINGLE;	00460000	
38	END ELSE	00461000	
39	IF TYPE=3 THEN	00462000	
40	BEGIN WRITE(L[*],RETRIES,(B[8] + RETRY[LUN]) DIV 2);	00463000	
41	IF (I:=B[9]) = 0 THEN MOVE(2,MESS[4],L[8]) ELSE	00465000	
42	IF I=8 THEN MOVE(2,MESS[8],L[8]) ELSE	00466000	
43	IF I=16 THEN MOVE(2,MESS[6],L[8]) ELSE	00467000	
44	IF I=32 THEN MOVE(2,MESS[10+2*I0],L[8]);	00468000	
45	WRITESINGLE;	00469000	
46	END;	00470000	
47	BLANK(L); WRITEDOUBLE;	00471000	
48	END;	00472000	
49	IF MIX#0 THEN	%OBJ JOB RELATED	00473000
50	IF TYPE=5 THEN	%DISK LOOK AHEAD	00474000
51	IF JAR[MIX,0]=0 THEN	%NO JOB ENTRY	00475000
52	BEGIN		00476000
53	ENTRY:= RCNT;		00477000
54	READOBJ:		00478000
55	READ(LOG,5,A[*])(SEEK);		00479000
56	ENTRY:= ENTRY+1;		00480000
57	IF (T1:=A[0].[3:6])#12 THEN	%CHECK FOR H/L	00481000
58	IF T1=63 OR T1=15 THEN	%END OF LOG OR HALT/LOAD	00482000
59	BEGIN		00483000
60	JAR[MIX,0]:= 1;		00484000

	MOVE(2,MESS[0+REAL(T1=63)*2],JAR[MIX,1]);	00485000
	IF FNUM=0 THEN GO SEEK ELSE GO NOFILE;	00486000
	END ELSE	00487000
1	BEGIN SPACE(LOG,I:=A[0],[39:9])[SEEK];	00488000
2	ENTRY:= ENTRY+1;	00489000
3	GO READOBJ;	00490000
4	END ELSE	00491000
5	IF A[0],[20:5]≠MIX THEN GO READOBJ;	00492000
6	A[2],[3:15]:= ENTRY;	00493000
7	MOVE(3,A[2],JAR[MIX,0]);	00494000
8	IF FNUM=0 THEN GO SEEK;	00495000
9	READFIL:	00496000
10	READ(LOG,5,A[*])[SEEK];	00497000
11	ENTRY:= ENTRY+1;	00498000
12	IF (T1:=A[0],[3:6])≠13 THEN	00499000
13	IF T1=63 OR T1=15 THEN	00500000
14	BEGIN	00501000
15	NOFILE: JAR[MIX,FNUM*3]:= 1;	00502000
16	MOVE(2,MESS[0+REAL(T1=63)*2],JAR[MIX,FNUM*3+1]);	00503000
17	GO SEEK;	00504000
18	END ELSE	00505000
19	BEGIN SPACE(LOG,I:=A[0],[39:9])[SEEK];	00506000
20	ENTRY:= ENTRY+1;	00507000
21	GO READFIL;	00508000
22	END ELSE	00509000
23	IF A[0],[20:5]≠MIX THEN GO READFIL ELSE	00510000
24	IF A[0],[9:9]≠FNUM THEN GO READFIL;	00511000
25	A[2],[3:15]:= ENTRY;	00512000
26	MOVE(3,A[2],JAR[MIX,FNUM*3]);	00513000
27	SEEK: READ SEEK(LOG[RCNT+1]);	00514000
28	END ELSE	00515000
29	IF FNUM≠0 THEN	00516000
30	IF JAR[MIX,FNUM*3]=0 THEN	00517000
31	BEGIN ENTRY:= RCNT;	00518000
32	GO READFIL;	00519000
33	END;	00520000
34	IF LISTOG THEN	00521000
35	BEGIN	00522000
36	IF MIX=0 THEN	00523000
37	BEGIN WRITE(L[*],IODESC	00524000
38	,OCTCONV(0,B[3])	00525000
39	,OCTCONV(4,B[3])	00526000
40	,-1);	00527000
41	WRITESINGLE;	00528000
42	END ELSE	00529000
43	BEGIN	00530000
44	WRITE(L[*],IODESC	00531000
45	,OCTCONV(0,B[3])	00532000
46	,OCTCONV(4,B[3])	00533000
47	,1	00534000
48	,(I:=JAR[MIX,1]),[6:6],I	00535000
49	,(I:=JAR[MIX,2]),[6:6],I	00536000
50	);	00537000
51	WRITESINGLE;	00538000
52	END;	00539000
53	IF FNUM=0 THEN	00540000
54	BEGIN WRITE(L[*],REDESC	00541000
55	,OCTCONV(0,B[4])	00542000
56	,OCTCONV(4,B[4])	00543000
57	,-1);	00544000

	WRITEDOUBLE;	00545000
	END ELSE	00546000
	BEGIN WRITE(L[*],REDESC	00547000
1	,UCTCONV(0,B[4])	00548000
2	,UCTCONV(4,B[4])	00549000
3	,1	00550000
4	,(I:=JAR[MIX,FNUM*3+1]),[6:6],I	00551000
5	,(I:=JAR[MIX,FNUM*3+2]),[6:6],I	00552000
6	);	00553000
7	WRITEDOUBLE;	00554000
8	END;	00555000
9	IF (I:=(ANALYZEDESC(TYPE,NEUM,B[4],JUNKBUFFER)-1)*5) GEQ 0 THEN	00556000
10	BEGIN	00557000
11	BLANK(L);	00558000
12	FOR J:=0 STEP 5 UNTIL I DO	00559000
13	BEGIN	00560000
14	MOVE(5,JUNKBUFFER[J],L[7]);	00561000
15	WRITESINGLE;	00562000
16	END;END;	00563000
17	BLANK(L); WRITEDOUBLE;	00564000
18	END ELSE IF TYPE=3 THEN I:=ANALYZEDESC(3,0,B[4],JUNKBUFFER);	00565000
19	IF SUMTOG THEN	00565100
20	BEGIN	00565200
21	MOVE(7,B,JUNKBUFFER);	00565300
22	MOVE(2,JAR[MIX,1],JUNKBUFFER[8]);	00565400
23	IF TYPE#3 THEN MOVE(2,JAR[MIX,FNUM*3+1],JUNKBUFFER[5]);	00565500
24	JUNKBUFFER[1]:= JUNKBUFFER[1] & OCTV(CDATE)[27:27:21];	00565600
25	JUNKBUFFER[7]:= (B[0],[18:2]+1) & LUN[1:43:5];	00565700
26	SUMFILETOG:= TRUE;	00565800
27	END;	00565900
28	IF TYPE=5 THEN	00566000
29	BEGIN	00567000
30	BREAKDOWNADDRESS(B[2],A);	00568000
31	IF LISTOG THEN	00569000
32	BEGIN IF A[9]<0 THEN WRITE(L[*],ADDRESSERRORF) ELSE	00569100
33	BEGIN WRITE(L[*],EUF,EU); WRITESINGLE;	00569200
34	WRITE(L[*],SUF,SU,ZONE,HEAD); WRITESINGLE;	00569300
35	WRITE(L[*],DISKF,SET,TRACK,PIN); WRITESINGLE;	00569400
36	WRITE(L[*],FACEF,FACE,SEG);	00569500
37	END;	00569600
38	WRITEDOUBLE;	00569700
39	END;	00569800
40	IF SUMTOG THEN	00570000
41	BEGIN	00571000
42	JUNKBUFFER[7]:= JUNKBUFFER[7] & REAL(A[9]<0)[7:47:1] &	00572000
43	FILEADDR[8:23:25] & B[3][33:27:6] &	00573000
44	(IF (I:=B[2],[1:4])#0 THEN 10 ELSE I)[39:42:6];	00574000
45	END;	00576000
46	END ELSE	00579000
47	IF TYPE=3 THEN	00580000
48	BEGIN IF LISTOG THEN	00581000
49	BEGIN	00582000
50	WRITE(L[*],TAPENAME	00583000
51	,B[5],[6:6],B[5]	00584000
52	,B[6],[6:6],B[6]); WRITESINGLE;	00585000
53	WRITE(L[*],TAPERELL,B[2],[14:10]); WRITESINGLE;	00586000
54	WRITE(L[*],TAPEDATE	00587000
55	,IF (I:=DECM(B[2],[24:17]))#0	00588000
56	ANB IQ#0 THEN I:=CDATE ELSE I	00589000
57	,DAY(-I)); WRITESINGLE;	00590000

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	WRITE(L[*],TAPECYCL,B[2],[41:7]); WRITESINGLE;	00591000
	WRITE(L[*],TAPETRA,B[1],[27:21]); WRITEDOUBLE;	00592000
	END;	00593000
1	IF SUMTOG THEN	00594000
2	BEGIN	00595000
3	RETRY[LUN]:= 0;	00596000
4	JUNKBUFFER[0]:= JUNKBUFFER[0] & B[1][27:27:21];	00597000
5	JUNKBUFFER[7]:= JUNKBUFFER[7] & B[7][15:30:18] &	00598000
6	LUN[33:42:6] & B[9][39:42:6];	00599000
7	END;	00601000
8	END ELSE	00602000
9	IF TYPE=4 THEN DRUMTOG:= TRUE;	00603000
10	IF LISTOG THEN BEGIN BLANK(L); WRITESPACES(4); END;	00604000
11	IF SUMTOG THEN WRITE(TEMP,10,JUNKBUFFER[*]);	00605000
12	EXIT;	00606000
13	END PERIPHANDLER;	00607000
14	%	00611000
15	PROCEDURE GROUPTOTALS(J,COUNT);	00612000
16	VALUE J; REAL J,COUNT;	00613000
17	BEGIN	00614000
18	REAL IO,KEY,S,UERR,UTITLE1,UTITLE2,LUNMIN,LUNMAX,LASTL,LASTK;	00615000
19	ARRAY TOTERR[0:13];	00615100
20	LABEL LOOP,COMPARE,ADDUP,WRITEIT,EXIT;	00616000
21	SWITCH FORMAT SWFORM:=	00617000
22	%MAG TAPE	00618000
23	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X4,"BLANK TAPE",X3,"TAPE PARITY"	00619000
24	,X4,"MEM PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00620000
25	%DISK	00621000
26	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS EU NOT READY",X3,"READ PARITY",	00622000
27	X3,"DATA PARITY",X2,"CU NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00623000
28	%DRUM	00624000
29	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X4,"WRITE LOCK",X3,"MEMORY RACE"	00625000
30	,X4,"MEM PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00626000
31	%PRINTER	00627000
32	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X17,"PRINT CHECK",	00628000
33	X4,"MEM PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00629000
34	%CARD PUNCH	00630000
35	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X17,"PUNCH CHECK",	00631000
36	X4,"MEM PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00632000
37	%CARD READ	00633000
38	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X18,"READ CHECK",	00634000
39	X4,"VALIDTY CK",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00635000
40	%SPD	00636000
41	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X28,	00637000
42	X4,"SPD PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00638000
43	%PAPER TAPE	00639000
44	(X4,"UNIT",X7,"TOTALS",X5,"MEM ADDRESS",X28,	00640000
45	X3,"TAPE PARITY",X5,"NOT READY",X3,"DESC PARITY",X7,"BUSY"),	00641000
46	%DCOM	00642000
47	(X4,"UNIT",X7,"TOTALS",X5,"MEM OVRFLOW",X28,	00643000
48	X4,"MEM PARITY",X1,"DIC NOT READY",X3,"DESC PARITY",X3,"BUSY");	00644000
49	%	00644100
50	FORMAT	00645000
51	TITLE("TOTAL ERRORS BY GROUP FOR ",A6,A6),	00646000
52	BITS(X16,"UNIT",X10,"D22",X11,"D",I2,X11,"D20",X11,"D19",	00647000
53	X11,"D18",X11,"D17",X11,"D16"),	00648000
54	RW(X8,8(X7,"W",X5,"R"),///),	00649000
55	DETAIL(X4,A3,A5,7(A4,X2,A4,X4),A4,X2,A4);	00650000
56	%	00650100
57	STREAM PROCEDURE GETLUNTITLES(J,A,LUNMIN,LUNMAX,UTITLE1,UTITLE2);	00651000

	VALUE J;	00651100
	BEGIN	00651200
	SI:=A; J(SI:=SI+16);	00651300
1	DI:=LUNMIN; DI:=DI+7; DS:=CHR;	00651400
2	DI:=LUNMAX; DI:=DI+7; DS:=CHR;	00651500
3	DI:=UTITLE1; DI:=DI+2; SI:=SI+1; DS:=6 CHR;	00651600
4	DI:=UTITLE2; DI:=DI+2; DS:=6 CHR;	00651700
5	END GETLUNTITLES;	00651800
6	%	00651900
7	GETLUNTITLES(J,UTITLES,LUNMIN,LUNMAX,UTITLE1,UTITLE2);	00652000
8	LOOP: % FOR DRUM ERRORS	00653000
9	IF LUNMIN > (LUN:=SNOOP(SUM(7)).[1:5]) THEN	00653100
10	BEGIN SPACE(SUM,1);	00653200
11	GO LOOP;	00653300
12	END;	00653400
13	IF LUNMAX < LUN THEN GO EXIT;	00654000
14	LASTL:= LUN;	00655000
15	LASTK:= KEY:= SNOOP(SUM(0)).[3:6];	00656000
16	WRITE(LPA,PAGE);	00657000
17	PRINTMFID;	00657010
18	WRITE(L[*],TITLE,UTITLE1,UTITLE2);	00658000
19	WRITE(LPA,15,L[*]);	00659000
20	UNDERLINE(L);	00660000
21	WRITE(LPA,15,L[*]); WRITE(LPA,SPACES,4);	00661000
22	WRITE(LPA,BITS,IF J=0 THEN 36 ELSE 21);	00662000
23	WRITE(L[*],SWFORM[J]); WRITE(LPA,15,L[*]);	00663000
24	UNDERLINE(L);	00664000
25	WRITE(LPA[DBL],15,L[*]);	00665000
26	WRITE(LPA,RW);	00666000
27	COMPARE:	00667000
28	IF LASTL = LUN THEN	00667200
29	BEGIN	00667300
30	IF LASTK = KEY THEN	00667400
31	BEGIN	00667500
32	ADDUP: READ(SUM,10,A[*]); COUNT:=COUNT+1;	00667600
33	FOR I:=0 STEP 1 UNTIL 6 DO	00667700
34	IF TESTBIT(A,I) THEN	00667800
35	TOTERR[N:=I*2+(I0:=A[3].[24:1])]:=TOTERR[N]+1;	00667900
36	UERR:= UERR+ (IF BL(I0) THEN 1 ELSE 32768);	00668000
37	LUN:= SNOOP(SUM(7)).[1:5];	00668100
38	KEY:= SNOOP(SUM(0)).[3:6];	00668200
39	END ELSE	00668300
40	BEGIN	00668400
41	WRITEIT: WRITE(LPA[DBL],DETAIL,TINULLLASTL,	00668500
42	IF LASTK=21 THEN "-CONF" ELSE " ",	00668600
43	DECL(UERR,[FF]),DECL(UERR,[CF]),	00668700
44	FOR N:=0 STEP 1 UNTIL 13 DO DECL(TOTERR[N]);	00668800
45	IF LUN > LUNMAX THEN GO EXIT;	00668900
46	IF LASTL≠LUN THEN WRITE(LPA[DBL]);	00669000
47	ZERO(14,TOTERR); UERR:=0;	00669100
48	LASTK:= KEY;	00669200
49	LASTL:= LUN;	00669300
50	GO ADDUP;	00669400
51	END;	00669500
52	END ELSE GO WRITEIT;	00669600
53	GO COMPARE;	00669700
54	EXIT:	00670000
55	END GROUPTOTALS;	00671000
56	%	00677100
57	PROCEDURE REPORTAPETEST;	00677200

```

BEGIN
INTEGER R;
REAL D,P,Q,S,T,
RCNT,CHRCNT,WRDCNT,WRD,MINWRD,PTR,NEUM,
WC,SZ,BSIZE,CIOD,DIODCF,IOD,RESULT,
PATTERN,PATTERN1,PATTERN2; % DONT INSERT HERE %
ARRAY BMESS[0:6], BUFF[0:33],
BOOLEAN MOD3IOS,BCL,NEXTOG,LASTOG,MCRETOG,DUPTOG;
DEFINE
LAST =BUFF[27]#,
NEXT =BUFF[21]#,
PATT =BUFF[15]#,
LOCN =BUFF[8]#,
FSTWRD=BUFF[8]#,
XLATE =BUFF[0]#,
MIN(MIN1,MIN2)=(IF MIN1<MIN2 THEN MIN1 ELSE MIN2)#;
%
LABEL AGAIN,DUPE,MOV,EDIT,EUL,ENDTEST,EXIT;
FORMAT
TITLE("REAL TIME TAPE TESTS FOR UNRECOVERED WRITE FAILURES",/,
"-----",/),
DETAIL(A5,X3,A3,X6,"MIX=",I3,
X3,"CHANNEL=",I2,X3,"PHYSICAL REEL=",I5),
OBJNAME(X88,"OBJ JOB NAME = ",A1,A6,"/",A1,A6),
FILENAME(X88,"FILE NAME = ",A1,A6,"/",A1,A6),
ORIG(/,X31,"ORIGINAL I/O DESC. = ",O,X1,O,
/,X31,"ORIGINAL RESULT DESC. = ",O,X1,O,/),
RDC(X88,"TAPE NAME = ",A1,A6,"/",A1,A6,/,
X88,"REEL = ",I5,/,
X88,"CREATION DATE = ",A5,X2,O,/,
X88,"CYCLE = ",I5),
MODE(/,X31,"(",A6,"",I4," WORDS ON BLOCK # ",I5,")"),
TESTNO(////,"ANALYSIS FOR TEST NO. ",I2,
X2,"(",A6," WRITE ",A6,A4," PATTERN)",
/, "-----",/),
DESC(////,"TEST PATTERN ",A5,X9,"CHANNEL=",I2,
//,"I/O DESC. = ",O,X1,O,
//,"RESULT DESC. = ",O,X1,O,/),
WORD(//,I4," WORDS WERE(",A3,")-",/),
EQLS(X8,6(2(8("=", " ")," ")),
UNK(/,X27,"***** WORDS ",I4," THRU ",I4," NOT LOGGED, ",
"THEFORE CONTENTS UNKNOWN *****"),
SIZERROR(/,X16,"SIZE ERROR( ",I5," WORDS ",A*,")"),
NOERRORS(/,X16,"NO DATA ERRORS"),
TALLY(//,I4," CHRS (IN ",I4," WDS) DIFFER FROM TEST RECORD ",
"(FIRST IN WRD ",I4,")");
%
STREAM PROCEDURE FILLPATTERN(PATTERN,K,M,N,BUFFER);
VALUE K,M,N;
BEGIN
DI:=BUFFER; SI:=PATTERN; SI:=SI+K;
M(DS:=N CHR; SI:=SI-N);
SI:=BUFFER; DS:=5 WDS;
END FILLPATTERN;
BOOLEAN STREAM PROCEDURE COMPARE(NEXT,LAST);
BEGIN
SI:=NEXT; DI:=LAST; TALLY:=1;
48(IF SC<DC THEN BEGIN TALLY:=0; JUMP OUT; END);
COMPARE:=TALLY;
END COMPARE;

```

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00677300
00677400
00677500
00677600
00677700
00677800
00677900
00678000
00678100
00678200
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00678400
00678500
00678600
00678700
00678900
00678950
00679000
00679100
00679200
00679300
00679400
00679500
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00679800
00679900
00680000
00680100
00680200
00680300
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00683000
00683100

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	STREAM PROCEDURE BUILD PATTERN(MOD3IOS,PATTERN);	00683200
	VALUE MOD3IOS;	00683300
	BEGIN	00683400
1	DI:=PATTERN;	00683500
2	DS:=14 LIT"01248+x+)=%XS<";	00683600
3	MOD3IOS(DI:=DI-7; DS:=LIT""; DI:=DI+6);	00683700
4	DS:=LIT""; DS:=3 LIT"J\$(";	00683800
5	END BUILD PATTERN;	00683900
6	STREAM PROCEDURE MOVEX(BCL,HERE,THERE,XBUFF);	00684000
7	VALUE BCL;	00684100
8	BEGIN LABEL XIT; LOCAL SVDI,SVSI,SV;	00684200
9	SI:=HERE; DI:=THERE;	00684300
10	BCL(8(SVDI:=DI; DI:=LOC SV; DI:=DI+7; DS:=CHR;	00684400
11	SVSI:=SI; SI:=XBUFF; SI:=SI+SV;	00684500
12	DI:=SVDI; DS:=CHR; SI:=SVSI);	00684600
13	JUMP OUT TO XIT);	00684700
14	DS:=WDS;	00684800
15	XIT;	00684900
16	END MOVEX;	00685000
17	STREAM PROCEDURE EDITR(N,LOCN,BUFF,L);	00685100
18	VALUE N,LOCN;	00685200
19	BEGIN	00685300
20	DI:=L; SI:=LOC LOCN;	00685400
21	DS:=4 DEC; DI:=DI+2; SI:=BUFF;	00685500
22	N(DI:=DI+2; 8(OCTADE); DI:=DI+1; 8(OCTADE));	00685600
23	DI:=L; DS:=3 FILL;	00685700
24	END EDITR;	00685800
25	STREAM PROCEDURE GETVALUES(BUFF,CHRCNT,WRDCNT,FSTWRD);	00685900
26	BEGIN	00686000
27	SI:=BUFF; SI:=SI+3;	00686100
28	DI:=CHRCNT; DI:=DI+5; DS:=3 CHR;	00686200
29	DI:=WRDCNT; DI:=DI+6; DS:=2 CHR;	00686300
30	DI:=FSTWRD; 7(DI:=DI+6; DS:=2 CHR);	00686400
31	END GETVALUES;	00686500
32	PROCEDURE BREAKDOWNRESULT(N,NEUM,RESULT);	00686600
33	VALUE N,NEUM; REAL N,NEUM,RESULT;	00686700
34	BEGIN REAL Q;	00686800
35	IF (Q:=(ANALYZEDESC(3,NEUM,RESULT,JUNKBUFFER)-1)*5) GEQ 0 THEN	00686900
36	BEGIN	00687000
37	BLANK(L);	00687100
38	FOR J:=0 STEP 5 UNTIL Q DO	00687200
39	BEGIN	00687300
40	MOVE(5,JUNKBUFFER[J],L[J]);	00687400
41	WRITE(LPA,15,L[*]);	00687500
42	END;END;	00687600
43	BLANK(L);	00687700
44	END BREAKDOWNRESULT;	00687800
45	%	00687900
46	REWIND(TST);	00688000
47	READ(TST[NO],5,B[*]);	00688100
48	BUILD PATTERN(MOD3IOS:=BL(B[2],[2:1]),PATTERN);	00688300
49	FILL BUFF[*] WITH	00688400
50	OCT1201020304050607,	00688500
51	OCT1011131400151617,	00688600
52	OCT7261626364656667,	00688700
53	OCT7071737460757677,	00688800
54	OCT5241424344454647,	00688900
55	OCT5051535440555657,	00689000
56	OCT2021222324252627,	00689100
57	OCT3031333432353637;	00689200

FILL BMESS[\*] WITH

" P-BIT",  
" 1-BIT",  
" 2-BIT",  
" 4-BIT",  
" 8-BIT",  
" A-BIT",  
" B-BIT";

00689300  
00689400  
00689500  
00689600  
00689700  
00689800  
00689900  
00690000

AGAIN:

READ(TST,210,B[\*]);  
OIOD:= B[3];  
RESULT:= B[4];  
OIODCF:= OIOD.[CF];  
WC:=OIOD.[8:10];  
WRITE(LPA,PAGE); PRINTMFID; WRITE(LPA,TITLE);  
WRITE(LPA,DBL),FDATE,T:=B[206],DAY(T),ACTDATE);  
WRITE(LPA,DETAIL

00690100  
00690300  
00690400  
00690500  
00690600  
00690700  
00690800  
00690900  
00691000

,ATIME(B[1].[3:24])  
,NEUM:=TINULUNIT(OIOD.[3:5]\*2)  
,MIX:=B[0].[20:5]  
,B[0].[18:2]+1  
,B[7].[30:18]

00691100  
00691200  
00691300  
00691400  
00691500  
00691600  
00691700

);  
IF MIX#0 THEN  
WRITE(LPA,OBJNAME,B[201].[6:6],B[201],B[202].[6:6],B[202]);  
IF B[0].[9:9]#0 THEN  
WRITE(LPA,FILNAME,B[204].[6:6],B[204],B[205].[6:6],B[205]);

00691800  
00691900  
00692000  
00692100

WRITE(LPA,ORIG  
,OCTCONV(0,OIOD),OCTCONV(4,OIOD)  
,OCTCONV(0,RESULT),OCTCONV(4,RESULT)

00692200  
00692300  
00692400

);  
BREAKDOWNRESULT(7,NEUM,RESULT);

00692500  
00692600

WRITE(LPA,MODE  
,IF BL(OIOD.[21:1]) THEN "BINARY" ELSE "ALPHA "  
,WC  
,B[1].[27:21]

00692700  
00692800  
00692900  
00693000

);  
WRITE(LPA,RDC

00693100  
00693200

,B[5].[6:6],B[5],B[6].[6:6],B[6]  
,B[2].[14:10]  
,IF (D:=DECM(B[2].[24:17]))=0 THEN D:=T ELSE D  
,DAY(-D)  
,B[2].[41:7]

00693300  
00693400  
00693500  
00693600  
00693700  
00693800

);  
OIOD:= OIOD & 1[18:42:6];  
FOR I:=0 STEP 1 UNTIL 15 DO  
BEGIN

00693900  
00694000  
00694100

WRITE(LPA,TESTNO

00694200

,I+1  
,IF (BCL:=I>6 AND I<14) THEN " ALPHA" ELSE "BINARY"  
,IF I#14 THEN " SKEW" ELSE IF I#15 THEN " FLUX" ELSE  
IF I#7 THEN IF MOD3IOS THEN BMESS[0] ELSE BMESS[6]  
ELSE BMESS[I MOD 7]

00694300  
00694400  
00694500  
00694600  
00694700

,IF I>13 THEN " " ELSE IF BCL THEN "-OFF" ELSE "-ON "

00694800

);

00694900

WRITE(LPA,DESC,"WRITE"

00695000

, (RESULT:=B[N:=I\*12+8]),[19:2] +1  
,OCTCONV(0,IOD:=OIOD&REAL(NOT BCL)[21:47:1])  
,OCTCONV(4,IOD)

00695100  
00695200  
00695300

```

      ,OCTCONV(0,RESULT),OCTCONV(4,RESULT)
    );
BREAKDOWNRESULT(2,NEUM,RESULT);
1 IF (BSIZE:=ABS(OIUDCF-RESULT,[CF]))<WC
2 THEN WRITE(LPA,SIZERROR,BSIZE,5,"WRITE");
3 WRITE(LPA,WORD,WC,IF BCL THEN "BCL" ELSE "INT");
4 FILLPATTERN(PATTERN
5     ,I+REAL(I=15),4*4*REAL(I<14),1+REAL(I>13)
6     ,PATT);
7
8 IF WC>6 THEN
9 BEGIN EDITR(6,1,PATT,L);
10 WRITE(LPA,15,L[*]);
11 END;
12 IF WC>12 THEN WRITE(LPA,EQLS);
13 IF (R:=WC MOD 6)=0 THEN R:=6 ELSE BLANK(L);
14 EDITR(R,WC+1-R,PATT,L);
15 WRITE(LPA[DBL],15,L[*]);
16 WRITE(LPA,DESC,"READ "
17     ,(RESULT:=B[N+1]).[19:2] +1
18     ,OCTCONV(0,IOD:=100&1[24:47:1])
19     ,OCTCONV(4,IOU)
20     ,OCTCONV(0,RESULT),OCTCONV(4,RESULT)
21 );
BREAKDOWNRESULT(2,NEUM,RESULT);
22 GETVALUES(B[N+2],CHRCNT,WRDCNT,LOCN);
23 SZ:= IF (BSIZE:=ABS(OIUDCF-RESULT,[CF]))>WC THEN WC ELSE
24     IF BL(RESULT,[21:1]) THEN BSIZE ELSE
25     BSIZE - REAL(RESULT,[15:3]=0);
26 IF SZ<WC THEN WRITE(LPA,SIZERROR,SZ,4,"READ");
27 IF WRDCNT=0 THEN WRITE(LPA,NOERRORS) ELSE
28 BEGIN
29 WRITE(LPA,WORD,SZ,IF BCL THEN "BCL" ELSE "INT");
30 D:= SZ DIV 6 - REAL((R:=SZ MOD 6)=0);
31 IF R=0 THEN R:=6;
32 WRD:=0; PTR:=8;
33 MINWRD:=MIN(WRDCNT,7)+7;
34 MORETOG:= WRDCNT>7;
35 FOR P:=0 STEP 1 UNTIL D DO
36 BEGIN
37 MOVE(6,PATT,NEXT);
38 NEXTOG:=FALSE;
39 FOR T:=PTR STEP 1 UNTIL MINWRD DO
40 BEGIN
41 IF (S:=BUFF[T]) > WRD+5 THEN T:=MINWRD ELSE
42 BEGIN
43 MOVEX(BCL,B[N+T-3],BUFF[21+S-WRD],XLATE);
44 IF (PTR:=PTR+1)>14 THEN IF MORETOG THEN
45 BEGIN
46 BLANK(L);
47 EDITR(S+1-WRD,WRD+1,NEXT,L);
48 WRITE(LPA,15,L[*]);
49 WRITE(LPA,UNK,S+2,SZ);
50 GO ENDTEST;
51 END;
52 NEXTOG:=TRUE;
53 END;
54 END;
55 IF P=0 OR P=D THEN BEGIN BLANK(L); GO MOV; END ELSE
56 IF NEXTOG THEN
57 IF LASTOG THEN

```

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00695400
00695500
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00696000
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00700300
00700400
00700500
00700600
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00700800
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00701000
00701100
00701200
00701300

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1          IF COMPARE(NEXT, LAST) THEN                                00701400
2          DUPE: IF DUPTOG THEN GO EOL ELSE BEGIN WRITE(L[+], EQLS);  00701500
3          DUPTOG:=TRUE;                                           00701600
4          END                                                       00701700
5          ELSE BEGIN                                               00701800
6          MOV: MOVE(6, NEXT, LAST);                                00701900
7          EDIT: LASTOG:=NEXTOG;                                    00702000
8          EDITR(IF P#D THEN 6 ELSE R, WRD+1, NEXT, L);            00702100
9          DUPTOG:=FALSE;                                           00702200
10         END                                                       00702300
11         ELSE GO MOV                                               00702400
12         ELSE IF LASTOG THEN GO EDIT ELSE GO DUPE;              00702500
13         WRITE(LPA, 15, L[+]);                                     00702600
14         EOL: WRD:=WRD+6;                                          00702700
15         END;                                                      00702800
16         ENDTEST:                                                 00702900
17         WRITE(LPA, TALLY, CHRCNT, WRDCNT, FSTWRD+1);           00703000
18         END;                                                      00703100
19         END;                                                      00703200
20         IF (RCNT:=RCNT+1)#TAPETESTS THEN GO AGAIN;            00703300
21         EXIT:                                                    00703500
22         REWIND(TST);                                             00703700
23         END REPORTAPETEST;                                       00703800
24         *                                                         00742000
25         PROCEDURE HI(A); ARRAY A[0];                             00743000
26         A[0]:=A[1]:=A[7]:=MARKER;                                00744000
27         *                                                         00745000
28         BOOLEAN PROCEDURE CMP(A, B); ARRAY A, B[0];           00746000
29         CMP := IF (T1:=A[7].[7:26]) < (T2:=B[7].[7:26]) THEN TRUE ELSE 00749000
30         IF T1 > T2 THEN FALSE ELSE                               00750000
31         IF (T1:=A[0].[3:6]) < (T2:=B[0].[3:6]) THEN TRUE ELSE 00750100
32         IF T1 > T2 THEN FALSE ELSE                               00750200
33         IF (T1:=A[1].[27:21]) < (T2:=B[1].[27:21]) THEN TRUE ELSE 00750300
34         IF T1 > T2 THEN FALSE ELSE                               00750400
35         IF (T1:=A[7].[33:6]) < (T2:=B[7].[33:6]) THEN TRUE ELSE 00750500
36         IF T1 > T2 THEN FALSE ELSE                               00750600
37         IF (T1:=A[7].[39:6]) < (T2:=B[7].[39:6]) THEN TRUE ELSE 00751000
38         IF T1 > T2 THEN FALSE ELSE                               00752000
39         IF (T1:=A[7].[45:3]) < (T2:=B[7].[45:3]) THEN TRUE ELSE 00753000
40         IF T1 > T2 THEN FALSE ELSE TRUE;                         00754000
41         *                                                         00754100
42         BOOLEAN PROCEDURE CMPLUN(A, B); ARRAY A, B[0];         00755000
43         CMPLUN:=IF (T1:=A[7].[1:5]) < (T2:=B[7].[1:5]) THEN TRUE ELSE 00755100
44         IF T1 > T2 THEN FALSE ELSE                               00755200
45         IF (T1:=A[0].[3:6]) < (T2:=B[0].[3:6]) THEN TRUE ELSE 00755300
46         IF T1 > T2 THEN FALSE ELSE                               00755400
47         IF (T1:=A[1].[27:21]) < (T2:=B[1].[27:21]) THEN TRUE ELSE 00755500
48         IF T1 > T2 THEN FALSE ELSE                               00755600
49         IF (T1:=A[1].[3:24]) < (T2:=B[1].[3:24]) THEN TRUE ELSE 00755700
50         IF T1 > T2 THEN FALSE ELSE TRUE;                         00755800
51         *                                                         00755900
52         BOOLEAN PROCEDURE INLUNSORT(A); ARRAY A[0];           00756000
53         BEGIN                                                    00757000
54         READ(SWIN[J], 10, A[*]);                                  00758000
55         IF A[7]=MARKER THEN                                       00759000
56         BEGIN REWIND(SWIN[J]);                                    00760000
57         INLUNSORT:=TRUE;                                         00761000
58         END; END INLUNSORT;                                       00762000
59         *                                                         00762050
60         BOOLEAN PROCEDURE INSORT(A); ARRAY A[0];              00762100

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33501

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BEGIN
  IF SNOOP(SUM(7)), [1:5] > LUNMAX THEN INSORT:= TRUE
  ELSE READ(SUM, 10, A[*]);
  END INSORT;
%
PROCEDURE OUTSORT(B, A); VALUE B; BOOLEAN B; ARRAY A[0];
BEGIN
  IF B THEN
    BEGIN JUNKBUFFER[0]:=JUNKBUFFER[7]:= MARKER;
          WRITE(SWOUT[J], 10, JUNKBUFFER[*]);
          REWIND(SWOUT[J]);
        END ELSE WRITE(SWOUT[J], 10, A[*]);
  END OUTSORT;
%
PROCEDURE REPORTPRN;
BEGIN
  ARRAY TOTERR[0:15];
  REAL IO, LASTPRN, PRN, LASTKEY, KEY, UERR;
  LABEL AGAIN, COMPARE, ADDUP, WRITEIT, EXIT;
  BOOLEAN TOG;
  FORMAT
    TITLE("TAPE ERRORS BY PHYSICAL REEL NUMBER", /,
          "-----", /, /, /),
    BITS (X17, "PRN", X10, "D22", X11, "D36", X11, "D20", X11, "D19",
          X11, "D18", X11, "D17", X11, "D16", /,
          X5, "PRN", X7, "TOTALS", X5, "MEM ADDRESS", X4, "BLANK TAPE",
          X3, "TAPE PARITY", X4, "MEM PARITY", X5, "NOT READY",
          X3, "DESC PARITY", X7, "BUSY", /,
          X5, "-----", X7, "-----", X5, "-----", X4, "-----",
          X3, "-----", X4, "-----", X5, "-----",
          X3, "-----", X7, "-----", /,
          X8, 8(X7, "w", X5, "R"), /, /, /),
    UNITS(X5, "PRN", X5, "TOTALS",
          X8, "MTA", X3, "MTB", X3, "MTC", X3, "MTD", X3, "MTE", X3,
          "MTF", X3, "MTG", X3, "MTJ", X3, "MTK", X3, "MTL", X3,
          "MTM", X3, "MTN", X3, "MTP", X3, "MTR", X3, "MTS", X3, "MTT", /
          X5, "----", X5, "-----", X5, 16(X3, "----"), /, /, /),
    SUB(X2, I5, A5, 7(A4, X2, A4, X4), A4, X2, A4),
    DETAIL(X2, I5, A5, X2, A4, X6, 16(X2, A4));
  AGAIN:
    WRITE(LPA[PAGE]);
    PRINTMFID ;
    WRITE(LPA, TITLE);
    IF TOG THEN WRITE(LPA, UNITS) ELSE WRITE(LPA, BITS);
    ZERO(16, TOTERR); UERR:=0;
    READ(SORTED, 10, A[*]);
    LASTPRN:= A[7].[15:18];
    LASTKEY:= A[0].[3:6];
  COMPARE:
    IF LASTPRN = (PRN:=A[7].[15:18]) THEN
      BEGIN
        IF LASTKEY= A[0].[3:6] THEN
          BEGIN
            ADDUP: IF TOG THEN
              BEGIN
                TOTERR[LUN:=A[7].[2:4]]:= TOTERR[LUN]+1;
                UERR:=UERR+1;
              END ELSE
              BEGIN
                BEGIN

```

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00762200
00762300
00762400
00762500
00762600
00763000
00764000
00765000
00766000
00767000
00768000
00769000
00770000
00770100
00771000
00772000
00773000
00774000
00775000
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00778000
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00780000
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00782000
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00815000

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FOR J:=0 STEP 1 UNTIL 6 DO
  IF TESTBIT(A,J) THEN
    TOTERR[N:=J*2+(IU:=A[3].[24:1])]:= TOTERR[N]+1;
    UERR:= UERR+ (IF BL(ID) THEN 1 ELSE 32768);
  END;
  READ(SORTED,10,A[*]);
END ELSE
BEGIN
WRITEIT: IF TOG THEN
  WRITE(LPA[DBL],DETAIL, LASTPRN,
    IF LASTKEY=21 THEN "-CONF" ELSE " ",
    DECL(UERR),
    FOR N:=0 STEP 1 UNTIL 15 DO DECL(TOTERR[N]));
ELSE
  WRITE(LPA[DBL],SUB, LASTPRN,
    IF LASTKEY=21 THEN "-CONF" ELSE " ",
    DECL(UERR.[FF]), DECL(UERR.[CF]),
    FOR N:=0 STEP 1 UNTIL 13 DO DECL(TOTERR[N]));
IF PRN > 99999 THEN GO EXIT;
IF LASTPRN# PRN THEN WRITE(LPA[DBL]);
ZERO(16,TOTERR); UERR:=0;
LASTPRN:= PRN;
LASTKEY:= A[0].[3:6];
GO ADDUP;
END
END ELSE GO WRITEIT;
GO COMPARE;
EXIT:
REWIND(SORTED);
IF NOT TOG THEN
  BEGIN TOG:= TRUE;
  GO AGAIN;
END;
END REPORTPRN;
%
PROCEDURE REPORTBADISK;
BEGIN
  REAL LASTEU, LASTSU;
  ARRAY BREAKDOWN[C:Y];
  DEFINE
    BK =BREAKDOWN#,
    EU =BK[1]#,
    SU =BK[2]#,
    SET =BK[3]#,
    ZONE =BK[5]#,
    TRACK=BK[6]#,
    HEAD =BK[8]#,
    PIN =BK[9]#;
  LABEL AGAIN, LINE1, SETUP, EXIT;
  FORMAT
  TITLE("BADISK AREAS BY DISK ADDRESS FOR EU ", I2, /
    "-----", //),
  HEADING(X4, "BEGINNING", /,
    X4, "ADDRESS SEGS PREVIOUS FILE", X6, "DISK ZONE ",
    "TRACK HEAD PIN", /,
    X4, "-----", X6, "-----",
    "-----", //),
  DETAIL(X4, A1, A6, X1, I8, X5, A1, A6, A1, A1, A6, X6,
  I1, X5, I1, X5, A2, X4, I2, X3, I2),
  SU("SU ", I1, //);

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00816000
00817000
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00842000
00843000
00844000
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00848000
00849000
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00850040
00850060
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00850100
00850120
00850140
00850160
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00850200
00850220
00850240
00850260
00850280
00850300
00850320
00850340
00850360
00850380
00850400
00850420
00850440
00850460
00850480
00850500

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1	%	00850520
2	LASTEU:=64;	00850540
3	AGAIN:	00850560
4	READ(SORTED,10,A[*]);	00850580
5	IF A[7]#MARKER THEN BREAKDOWNADDRESS(A[2],BK)	00850600
6	ELSE GO EXIT;	00850620
7	IF EU=LASTEU THEN	00850640
8	BEGIN	00850660
9	IF SU=LASTSU THEN	00850680
10	LINE1:  WRITE(LPA,DETAIL	00850700
11	,A[2],[6:6],A[2]	00850720
12	,ABS(A[4])	00850740
13	,A[5],[6:6],A[5]	00850760
14	,IF A[4] LSS 0 THEN "/" ELSE " "	00850780
15	,A[6],[6:6],A[6]	00850800
16	,SET,ZONE,DECM(TRACK),HEAD,PIN	00850820
17	)	00850840
18	ELSE	00850860
19	BEGIN	00850880
20	WRITE(LPA,DBL);	00850900
21	SETUP:  WRITE(LPA,SUF,SU);	00850920
22	LASTSU:=SU;	00850940
23	LASTEU:=EU;	00850960
24	GO LINE1;	00850980
25	END	00851000
26	END ELSE	00851020
27	BEGIN	00851040
28	WRITE(LPA,PAGE);	00851060
29	PRINTMFID;	00851080
30	WRITE(LPA,TITLE,EU);	00851100
31	WRITE(LPA,HEADING);	00851120
32	GO SETUP;	00851140
33	END;	00851160
34	WRITE(LPA);	00851180
35	GO AGAIN;	00851200
36	EXIT:	00851220
37	REWIND(SORTED);	00851240
38	END REPORTBADISK;	00851260
39	%	00852000
40	PROCEDURE REPORTADDRESS;	00853000
41	BEGIN	00854000
42	REAL I,J,NEUM,MAINT,IO,REPEATS,	00855000
43	LASTEU,LASTSU,SUERR,LASTKEY,LASTERROR,	00855100
44	REAL LASTADR;	00855150
45	ARRAY BREAKDOWN[0:9];	00855200
46	DEFINE EU  =BREAKDOWN[1]#,	00855300
47	SU  =BREAKDOWN[2]#,	00855400
48	SET  =BREAKDOWN[3]#,	00855500
49	ZONE =BREAKDOWN[5]#,	00855600
50	TRACK=BREAKDOWN[6]#,	00855700
51	HEAD =BREAKDOWN[8]#,	00855800
52	PIN  =BREAKDOWN[9]#;	00855900
53	BOOLEAN ADDRESSERR,DUPADR;	00856000
54	LABEL AGAIN,LINE1,PEEP,SETUP,EXIT;	00856100
55	FORMAT	00857000
56	TITLE("DISK ERRORS BY DISK ADDRESS FOR EU ",I2,/ "-----",,,,,),	00858000
57	DISKADDRESSERROR("DISK ADDRESS ERRORS",/ "-----",,,,,),	00859000
58	HEADING(X4,"BEGINNING",/,	00859100
59		00859200
60		00860000

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X4,"ADDRESS SEGS MAINT REPEAT",X9,"DISK ZONE ", 00861000
"TRACK HEAD PIN RETRY I/O UNIT ERRORS",/, 00862000
X4,"-----",X9,"-----", 00863000
"-----",////), 00864000
1
2  DETAIL(X4,A1,A6,X4,I2,X6,A2,X4,A6,X11,A1,X5,A1,X5, 00865000
3      A2,X4,A2,X3,A2,X5,I2,A1,X3,A1,X3,A3,"(",A1,")"), 00866000
4  SUTOT(/,X14,"TOTAL ERRORS = ",I6,//), 00867000
5  SUF("SU ",I1,//); 00868000
6  % 00868100
7  LASTEU:=64; 00869000
8  AGAIN: 00870000
9  READ(SORTED,10,A[*]); 00871000
10 IF A[7]#MARKER THEN IF ADDRESSERR THEN GO LINE1 ELSE 00872000
11 IF BL(A[7],[7:1]) THEN 00872100
12 BEGIN IF SUERR#0 THEN WRITE(LPA,SUTOT,SUERR); 00872200
13 WRITE(LPA[PAGE]); 00872300
14 PRINTMFID; 00872310
15 WRITE(LPA,DISKADDRESSERR); 00872400
16 WRITE(LPA,HEADING); 00872500
17 ZERO(10,BREAKDOWN); SUERR:=0; 00872600
18 ADDRESSERR:=TRUE; 00872700
19 DUPADR:=FALSE; 00872750
20 GO LINE1; 00872800
21 END ELSE 00873000
22 BEGIN 00873010
23 BREAKDOWNADDRESS(A[2],BREAKDOWN); 00873020
24 IF LASTADR=A[7],[8:25] THEN DUPADR:=TRUE ELSE 00873030
25 BEGIN 00873040
26 DUPADR:=FALSE; 00873050
27 LASTADR:=A[7],[8:25]; 00873060
28 END; 00873070
29 END ELSE 00873080
30 IF ADDRESSERR THEN 00873100
31 BEGIN WRITE(LPA,SUTOT,SUERR); 00873200
32 GO EXIT; 00873300
33 END ELSE EU:=63; 00873400
34 IF EU=LASTEU THEN 00874000
35 BEGIN 00875000
36 IF SU=LASTSU THEN 00876000
37 BEGIN 00877000
38 LINE1: LASTKEY:=A[7]; 00877100
39 LASTERROR:=A[4],[25:8]; 00877200
40 IO:=A[4],[24:1]; 00877300
41 TYPE:=A[0],[3:6]; 00877400
42 MAINT:=A[2],[42:2]; 00877500
43 PEEP: READ(SORTED[NO],10,L[*]); 00877600
44 IF LASTKEY=L[7] THEN 00877700
45 IF LASTERROR=L[4],[25:8] THEN 00877800
46 IF IO=L[4],[24:1] THEN 00877900
47 IF TYPE=L[0],[3:6] THEN 00878000
48 IF MAINT=L[2],[42:2] THEN 00878100
49 BEGIN 00878200
50 REPEATS:=REPEATS+1; 00878300
51 SUERR:=SUERR+1; 00878400
52 READ(SORTED); 00878500
53 GO PEEP; 00878600
54 END; 00878700
55 IF DUPADR THEN 00878710
56 BEGIN 00878720
57 A[2]:=" "; 00878730

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	ZERO(10,BREAKDOWN);	00878740
	END ELSE	00878750
	IF TYPE=21 THEN A[2],[42:2]=0;	00878800
1	WRITE(L[*],DETAIL	00878900
2	A[2],[6:6],A[2]	00879000
3	A[3],[27:6]	00879100
4	IF TYPE=21 THEN IF MAINT=1 THEN "M1" ELSE	00879200
5	IF MAINT=3 THEN "M2" ELSE "GL" ELSE " "	00879300
6	DECL(REPEATS,REAL(REPEATS#0))	00879400
7	DECL(SET),DECL(ZONE)	00879500
8	IF ADDRESSERR OR DUPADR THEN " " ELSE DECM(TRACK)	00879510
9	DECL(HEAD),DECL(PIN)	00879520
10	I:=A[7],[39:6]	00879600
11	IF I=(IF TYPE=21 THEN 4 ELSE 10) THEN "*" ELSE " "	00879650
12	DECL(A[7],[45:3])	00879700
13	NEUM:=TINU[A[7],[1:5]]	00879800
14	IF IO=1 THEN 41 ELSE 54	00879900
15	);	00880000
16	IF (K:=(ANALYZEDESC(5,NEUM,A[4],JUNKBUFFER)-1)*5) GEQ 0 THEN	00880100
17	BEGIN FOR J:=0 STEP 5 UNTIL K DO	00880200
18	BEGIN MOVE(3,JUNKBUFFER[J],L[12]);	00880300
19	WRITE(LPA,15,L[*]);	00880400
20	BLANK(L);	00880500
21	END; END;	00880600
22	SUERR:=SUERR+1;	00880800
23	REPEATS:=0;	00880900
24	END ELSE	00881000
25	BEGIN	00882000
26	WRITE(LPA,SUTOT,SUERR);	00882100
27	SETUP: WRITE(LPA,SUF,SU);	00882200
28	SUERR:=0;	00882300
29	LASTSU:= SU;	00882400
30	LASTEU:= EU;	00882500
31	GO LINE1;	00882600
32	END	00882700
33	END ELSE	00883000
34	BEGIN	00884000
35	IF LASTEU# 64 THEN WRITE(LPA,SUTOT,SUERR);	00885000
36	IF EU=63 THEN GO EXIT;	00886000
37	WRITE(LPA[PAGE]);	00887000
38	PRINTMFID ;	00887010
39	WRITE(LPA,TITLE,EU);	00888000
40	WRITE(LPA,HEADING);	00889000
41	GO SETUP;	00890000
42	END;	00891000
43	WRITE(LPA);	00892000
44	GO AGAIN;	00893000
45	EXIT;	00894000
46	REWIND(SORTED);	00895000
47	END REPORTADDRESS;	00896000
48	;	00896100
49	PROCEDURE INITIALIZE;	00896200
50	BEGIN LABEL LOOP,EOfC;	00896300
51	FORMAT	00896400
52	FSTOP("STOP+"),	00896410
53	FCOMMON("WHICH COMMON...+"),	00896420
54	FCOMMONVALUES("COMMON VALUES AVAILABLE ARE:"/	00896430
55	"01 GENERATE ANY AND ALL REPORTS"/	00896440
56	"11 CHRONOLOGICAL LISTING ONLY"/	00896450
57	"21 PERIPHERIAL UNIT ERROR SUMMARY"/	00896460

"41 REAL TIME TAPE WRITE FAILURES"/  
"81 ONLINE CONFIDENCE TEST RESULTS+" ) ;

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00897200

00897240

00897260

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1 PROCEDURE MAKEINPUTLOGMAK ;

2 BEGIN LABEL NEXT;

3 INTEGER SER,COUNT;

4 FORMAT

5 FSEC(A1,A6,"/",A1,A6," SECURED FILE --- MAINT LOGGER+"),

6 FMAIN("MAINT/",A4,"+"),

7 FFREE("\*\* PLEASE FREE =/MNTLOG AND RESTART \*\*"),

8 FNON("\*\* NO =/MNTLOG FILES FOUND, ",

9 "ONLY MAINT/LOG WILL BE PROCESSED \*\*"),

10 FOK(A1,A6,"/",A1,A6," FILE OK --- MAINT LOGGER+");

11 %

12 STREAM PROCEDURE MAKEMFID(SER,MFID); VALUE SER;

13 BEGIN

14 DI:=MFID; DI:=DI+5;

15 SI:=LOC SER; DS:=3 DEC;

16 END MAKEMFID ;

17 %

18 IF COMMON=0 THEN

19 BEGIN

20 MFID:=O&TIME(5)[6:12:24];

21 END ELSE

22 MFID:=O&DECM(COMMON)[6:24:24];

23 FID := LOGFID ;

24 FOR SER := 1 STEP 1 UNTIL 999 DO

25 BEGIN

26 MAKEMFID(SER,MFID) ;

27 FILL LOG WITH MFID,FID ;

28 SEARCH(LOG,A[\*]) ;

29 IF A[0] = -1 THEN GO TO NEXT ;

30 IF A[0] = 0 THEN

31 BEGIN

32 WRITE(SPO,FSEC,LMFID);

33 WRITE(SPO,FFREE) ; GO TO FINIS ;

34 END;

35 WRITE(A[\*],FOK,LMFID);

36 WRITE(SPO,10,A[\*]);

37 WRITE(FINPUT,10,A[\*]);

38 COUNT := COUNT + 1 ;

39 NEXT;

40 END;

41 IF COUNT = 0 THEN

42 BEGIN

43 WRITE(SPO,FNON);

44 END;

45 IF COMMON=0 THEN

46 WRITE(FINPUT,FMAIN,FID) ;

47 COMMON := 22 ;

48 USEFINPUT := TRUE ;

49 END MAKEINPUTLOGMAK;

50 %

51 TIME0:=TIME(0);

52 MARKER:=REAL(NOT FALSE);

53 LOG.MYUSE:=INPUT;

54 IF TIME(-1)="SITE " AND

55 (COMMON=0 OR COMMON>100) THEN

56 MAKEINPUTLOGMAK;

57 %

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1 IF COMMON=0 THEN                                00899900
2 BEGIN FILL SPO WITH *,*,*,*,*,19;              00900000
3 WRITE(SPOLSTOP),FCOMMON);                      00901000
4 READ(SPO,/,/,COMMON);                          00902000
5 IF COMMON = 0 THEN                              00902100
6 BEGIN                                           00902110
7 WRITE(SPU,FCOMMONVALUES) ;                     00902120
8 WRITE(SPU[STOP],FCOMMON) ;                     00902130
9 READ(SPO,/,/,COMMON) ;                         00902140
10 END ;                                          00902150
11 END;                                           00903000
12 IF COMMON > 9 THEN                             00904000
13 BEGIN CGM:=COMMON DIV 10;                      00905000
14 COMMON:=COMMON MOD 10;                         00906000
15 LISTOG:= BL(COM),[47:1];                       00906100
16 SUMTOG:= BL(COM),[46:1];                       00906200
17 TESTOG:= BL(COM),[45:1];                       00906300
18 ONLTOG:= BL(COM),[44:1];                       00906400
19 END ELSE                                       00907000
20 LISTOG:=SUMTOG:=TESTOG:=ONLTOG:=TRUE;         00908000
21 IF COMMON=2 THEN                               00909000
22 BEGIN                                          00909100
23 IF USEINPUT THEN GO EOFC;                     00909150
24 LOOP: READ(WHATLOG,10,A[*]);[EOFC];           00909200
25 WRITE(FINPUT,10,A[*]);                        00909300
26 GO LOOP;                                       00909400
27 EOFC: CLOSE(WHATLOG);                          00909500
28 WRITE(FINPUT,FSTOP);                          00909600
29 REWIND(FINPUT);                                00909700
30 END;                                           00909800
31 FILL TINU[*] WITH                              00909900
32 "MTA","MTB","MTC","MTD","MTE","MTF","MTH","MTJ", 00910000
33 "MTK","MTL","MIM","MTN","MIP","MTR","MIS","MIT", 00911000
34 "DRA","DRB","DKA","DKB","LPA","LPB","CPA","CRA", 00912000
35 "CRB","SPO","PPA","PRA","PRB","PPB","DCA","UNK"; 00913000
36 LOCK(TINU[*]);                                00913100
37 FILL UNK[*] WITH                              00913200
38 "UNK","CR ","LP ","MT ","DK ","DK ",           00913300
39 "SPO","CP ","UNK","PP ","PR ","DCA";          00913400
40 LOCK(UNK[*]);                                00913500
41 FILL UNIT[*] WITH                             00914000
42 % WRITE = READ                                00915000
43 81, 31, % 0 ---, ---                          00916000
44 0, C, % 1 MTA                                  00917000
45 81, 31, % 2 ---, ---                          00918000
46 1, 1, % 3 MTB                                  00919000
47 16, 16, % 4 DRA                                00920000
48 2, 2, % 5 MTC                                  00921000
49 18, 18, % 6 DKA                                00922000
50 3, 3, % 7 MTD                                  00923000
51 17, 17, % 8 DRB                                00924000
52 4, 4, % 9 MTE                                  00925000
53 22, 23, % 10 CPA, CRA                          00926000
54 5, 5, % 11 MTF                                  00927000
55 19, 19, % 12 DKR                                00928000
56 6, 6, % 13 MTH                                  00929000
57 81, 24, % 14 ---, CRB                          00930000
58 7, 7, % 15 MTJ                                  00931000
59 90, 30, % 16 DCA                                00932000
60 8, 8, % 17 MTK                                00933000

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26, 27, % 18 PPA, PRA 00934000
9, 9, % 19 MTL 00935000
29, 28, % 20 PPB, PRB 00936000
10, 10, % 21 MTM 00937000
20, 31, % 22 LPA, --- 00938000
11, 11, % 23 MTN 00939000
31, 31, % 24 ---, --- 00940000
12, 12, % 25 MTP 00941000
21, 31, % 26 LPB, --- 00942000
13, 13, % 27 MTR 00943000
31, 31, % 28 ---, --- 00944000
14, 14, % 29 MTS 00945000
25, 25, % 30 SPO 00946000
15, 15, % 31 MTT 00947000
LOCK(UNIT[*]); 00947100
FILL MESS[*] WITH 00948000
"O*NONAME", "O*HALTED", % 0 00949000
"O*NONAME", "O*ENDLOG", % 2 00950000
"RECOVERE", "D", % 4 00951000
"UNRECOVE", "RED", % 6 00952000
"OPPOSITE", "MODE", % 8 00953000
"BLANK TA", "PE ABORT", % 10 00954000
"EBT ON W", "RITE", % 12 00955000
"O FLAG", "O BIT", % 14 00955100
"O INVALID", "O INDEX", % 16 00955200
"O INTEGR", "O OVFLW", % 18 00955300
"O EXPON", "O OVFLW", % 20 00955400
"O DIV BY", "O ZERO", % 22 00955500
"O END OF", "O FILE", % 24 00955600
LOCK(MESS[*]); 00955900
FILL UTITLES[*] WITH 00956000
OCT0017104421276063, "APE", % 0 MAG TAPE 00957000
OCT2223042431624260, " ", % 1 DISK 00958000
OCT2021042451644460, " ", % 2 DRUM 00959000
OCT2425074751314563, "ER", % 3 PRINTER 00960000
OCT2626122321512460, "PUNCH", % 4 CARD PUNCH 00961000
OCT2730132321512460, "READER", % 5 CARD READER 00962000
OCT3131036247406060, " ", % 6 SPO 00963000
OCT3235124721472551, "TAPE", % 7 PAPER TAPE 00964000
OCT3636112421632160, "COMM", % 8 DATA COMM 00965000
LOCK(UTITLES[*]); 00965100
FILL DAYS[*] WITH 00966000
" SUN", " MON", " TUES", " WEDNES", 00967000
" THURS", " FRI", " SATUR"; 00968000
LOCK(DAYS[*]); 00968100
% 00970000
FLAG:=FLAGBIT; 00973100
INDEX:=INVALIDINDEX; 00973200
INTOVR:=INTEGROVFLW; 00973300
EXPOVR:=EXPONOVFLW; 00973400
DIVZERO:=DIVBYZERO; 00973500
END INITIALIZE; 00973600
% 00973700
PROCEDURE PASS1; 00974000
BEGIN 00974100
REAL MAXTYPE, LOGVERSION; 00974200
FORMAT 00974300
NFILE("WHICH LOG FILE..."), 00974400
NFILE("#NO EIL ON DISK ", A1, A6, "/", A1, A6, "+"), 00974500
ETIME(X8, "TIME IS ", A5), 00974600

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	WM(X8,"MCPBASE IS ",I8),	00974700
	NEU(X8,"NO. OF EUS ON LINE ARE",I3),	00974800
	MODEL(X8,"EU",I3,"=-DISK MODEL ",A2," (" ,I2," MS)");	00974900
1	*	00975000
2	LABEL	00976000
3	PERIP,OBJJOB,FILEN,EOJOB,HALOD,WMCP,TMDAT,XDISK,FECOM,	00977000
4	TAPETST,	00977100
5	ONLTEST,	00977200
6	FINDIT,REED,CROSSREF,EXIT;	00978000
7	*	00978900
8	SWITCH SWTYPE:=	00979000
9	PERIP,PERIP,PERIP,PERIP,PERIP,PERIP,PERIP,REED,	00980000
10	PERIP,PERIP,PERIP,	00981000
11	OBJJOB,FILEN,EOJOB,HALOD,WMCP,TMDAT,XDISK,FECOM,	00982000
12	TAPETST,	00982100
13	ONLTEST,	00982200
14	REED;	00982900
15	*	00982950
16	STREAM PROCEDURE MOVEMESS(PTR,L);	00983000
17	BEGIN LABEL LL;	00984000
18	SI:=PTR; DI:=L;	00985000
19	2(52(IF SC#ARROW THEN DS:=CHR ELSE JUMP OUT 2 TO LL));	00986000
20	LL: DS:=LIT",";	00987000
21	END MOVEMESS;	00988000
22	*	00989000
23	STREAM PROCEDURE FINDOPTIONS(B,L);	00990000
24	BEGIN	00991000
25	LABEL L1,L2,L3,XIT;	00992000
26	SI:=B; DI:=L; DI:=DI+8;	00993000
27	DS:=16 LIT"MCP OPTIONS ARE!";	00994000
28	63(IF SC="," THEN JUMP OUT TO L1 ELSE SI:=SI+1);	00995000
29	GO XIT;	00996000
30	L1:	00997000
31	63(IF SC=" " THEN JUMP OUT TO L2 ELSE SI:=SI-1);	00998000
32	GO XIT;	00999000
33	L2:	01000000
34	2(48(IF SC#ARROW THEN JUMP OUT 2 TO L3 ELSE DS:=CHR));	01001000
35	L3: DS:=LIT",";	01002000
36	XIT;	01003000
37	END FINDOPTIONS;	01004000
38	*	01004050
39	BOOLEAN STREAM PROCEDURE XDBADISK(B,XDFILE,JUNK); VALUE XDFILE;	01004100
40	BEGIN	01004150
41	LOCAL BAD; LABEL L1,L2,L3,XIT;	01004200
42	SI:=B; IF SC#" " THEN GO XIT;	01004250
43	SI:=SI+1; DI:=LOC BAD; DS:=6LIT"BADISK"; DI:=DI-6;	01004300
44	IF 6 SC#DC THEN GO XIT;	01004350
45	L1: IF SC#"/" THEN BEGIN SI:=SI+1; GO L1; END;	01004400
46	SI:=SI+1; DI:=JUNK; DS:=LIT"C"; DS:=7CHR;	01004450
47	SI:=SI-7; DS:=7OCT;	01004500
48	L2: IF SC#"=" THEN BEGIN SI:=SI+1; GO L2; END;	01004550
49	SI:=SI+1; DS:=8 OCT;	01004600
50	DS:=16LIT"0 ";	01004650
51	XDFILE(DI:=DI+24; SKIP DB; DS:=SET; DI:=DI+8);	01004700
52	L3: IF SC#ARROW THEN BEGIN SI:=SI+1; GO L3; END;	01004750
53	SI:=SI-15; DS:=7CHR;	01004800
54	SI:=SI+1; DI:=DI+1; DS:=7CHR);	01004850
55	TALLY:=1;	01004900
56	XIT: XDBADISK:=TALLY;	01004950
57	END XDBADISK;	01005000

```

%
STREAM PROCEDURE SETEUSPEED(EUS,B,EUSPEED); VALUE EUS;
BEGIN
1  SI:=B; SI:=SI+2; BI:=EUSPEED; SKIP DB;
2  EUS(IF SB THEN
3    BEGIN DS:=SET; DS:=RESET; END ELSE
4    BEGIN DS:=RESET; DS:=SET; END; SKIP SB);
5  END SETEUSPEED;
%
STREAM PROCEDURE SPOUT(L,MFID,FID,DATE,RECS);
VALUE MFID,FID,DATE,RECS;
BEGIN
10 DI:=L; SI:=LOC MFID; SI:=SI+1; DS:=LIT" ";
11 DS:=7 CHR; SI:=SI+1; DS:=LIT"/"; DS:=7 CHR;
12 DS:=12 LIT" ACCESSED: "; DS:=8 CHR;
13 DS:=8 LIT" SEGS: "; SI:=SI+4; DS:=4 CHR; DS:=LIT ARROW;
14 END SPOUT;
%
STREAM PROCEDURE SCAN(A,ID);
BEGIN LABEL L1,L2,L3,L4,XIT;
17 SI:=A; DI:=ID; DS:=8LIT"OSTOP "; DI:=DI-7;
18
19 L1: IF SC=" " THEN BEGIN SI:=SI+1; GO L1; END;
20 IF SC=ARROW THEN GO XIT;
21 7(IF SC=ALPHA THEN DS:=CHR ELSE DS:=LIT" ");
22
23 L2: IF SC=ALPHA THEN BEGIN SI:=SI+1; GO L2; END;
24 L3: IF SC=" " THEN BEGIN SI:=SI+1; GO L3; END;
25 IF SC="/" THEN
26 BEGIN
27 DS:=LIT"0";
28 SI:=SI+1;
29 IF SC=" " THEN GO L4;
30 7(IF SC=ALPHA THEN DS:=CHR ELSE DS:=LIT" ");
31 END;
32 XIT:
33 END SCAN;
%
INPASS1:=TRUE;
34 DRUMTOG:=SUMFILETOG:=CROSSTOG:=HALTOG:=XDTUG:=FALSE;
35
36 NUMENTRIES:=ETYPE:=0;
37 TAPERRORES:=DISKERRORS:=TAPETESTS:=0;
38
39 FINDIT:
40 TIME1:= TIME(1);
41 PROCTIME:= TIME(2);
42 IOTIME:= TIME(3);
43 IF COMMON#2 THEN
44 BEGIN
45 WRITE(SPO[STOP],WFILE);
46 READ(SPO,9,A[*]);
47 END ELSE
48 BEGIN
49 READ(FINPUT,10,A[*]);
50 END;
51 A[9]:= MARKER; FID:= LOGFID;
52 SCAN(A,MFID);
53 IF MFID="STOP " THEN GO TO EOP;
54 MAINTLOG:=(MFID="MAINT ");
%
55 CLOSE(LOG); % JUST TO BE SURE
56 FILL LOG WITH MFID,FID;
57 IF NOT USEFINPUT THEN

```

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01021000
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01022100
01022200
01022300
01022400
01022500
01022600
01022700
01022800
01022900
01023000
01023100
01023200
01023300
01023400
01030000
01031000
01031100
01031200
01031300
01031400
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01033000
01033100
01033200
01034000
01035000
01036000
01037000
01038000
01038100
01038200
01038300
01039000
01040000
01042000
01042100
01042200
01043000
01044000
01045000

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	BEGIN	01045100
	SEARCH(LOG,A[*]);	01046000
	IF A[0]=(-1) THEN	01047000
1	BEGIN WRITE(SPO,NFILE,LMFID);	01048000
2	GO FINDIT;	01049000
3	END;	01050000
4	END USEINPUT;	01051000
5	%	01052000
6	READ(LOG,5,A[*]);	01057000
7	SEGS:= A[0].[24:15]+2+REAL(MAINTLOG);	01058000
8	%CROSSTOG:= NOT (A[0] < 0);	01059000
9	IF COM=512 THEN	01060000
10	BEGIN SPOUT(L,MFID,FID,DAY(-AL4),DECL(SEGS));	01061000
11	WRITE(SPO,10,L[*]); GO FINDIT;	01062000
12	END;	01063000
13	LASTENTRY:=A[0].[9:15];	01063100
14	STOPTIME:=A[1].[3:24]; % IN BINARY (1/60THS)	01063200
15	IF STOPTIME=0 THEN STOPTIME:=TIME1;	01063300
16	LOGVERSION:=A[3];	01063400
17	MAXTYPE:=LOGVERSION.[30:6];	01063500
18	LOGVERSION:=LOGVERSION.[42:6];	01063600
19	STOPDATE:= A[4]; % IN BCL (YYDDD)	01064000
20	SPACE(LOG,5);	01066000
21	RCNT:= 5;	01067000
22	READ(LOG[N0],5,A[*]);	01068000
23	LASTENTRY:=LASTENTRY-A[0].[25:14]+1;	01068100
24	STARTDATE:=CDATE:= DECM(A[1].[30:18]);	01069000
25	STARTTIME:= A[1].[3:24];	01070000
26	REED:	01071000
27	READ(LOG,5,A[*])[ENDOF FILE];	01072000
28	LOGENTRY:= RCNT:= RCNT+1;	01073000
29	IF (TYPE:=A[0].[3:6]) = 0 THEN GO REED;	01074000
30	IF A[0] = MARKER THEN GO EXIT;	01075000
31	%	01076000
32	NUMENTRIES:= NUMENTRIES+1;	01076100
33	I:=A[0].[39:9]*5;	01076200
34	IF I>MAXENTRY THEN GO INVALIDINDEX;	01076300
35	MOVE(5,A,B);	01079000
36	FOR J:=5 STEP 5 UNTIL I DO	01080000
37	BEGIN READ(LOG,5,A[*])[ENDOF FILE];	01081000
38	RCNT:= RCNT+1;	01082000
39	MOVE(5,A,B[J]);	01083000
40	END;	01084000
41	IF TYPE>MAXTYPE THEN GO REED;	01084100
42	GO SWTYPE[TYPE];	01085000
43	PERIP:	01086000
44	IF LISTOG OR SUMTOG THEN PERIPHANDLER;	01087000
45	GO CROSSREF;	01088000
46	OBJOB:	01089000
47	B[2].[3:15]:= LOGENTRY;	01090000
48	MOVE(3,B[2],JAR[MIX:=B[0].[20:5],0]);	01091000
49	IF MIX>MIXMAX THEN MIXMAX:=MIX;	01092000
50	GO CROSSREF;	01093000
51	FILEN:	01094000
52	B[2].[3:15]:= LOGENTRY;	01095000
53	IF (FNUM:=B[0].[9:9])>MAXFNUM THEN FNUM:=MAXFNUM;	01095100
54	MOVE(3,B[2],JAR[MIX:=B[0].[20:5],FNUM*3]);	01096000
55	LOGENTRY.[3:15]:= JAR[MIX,0].[3:15];	01097000
56	GO CROSSREF;	01098000
57	EOJOB:	01099000

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1  J:= JAR[MIX:=B[0].[20:5],0],[3:15]; 01100000
2  IF CRUSSTOG THEN 01100100
3  FOR I:= 1 STEP 1 UNTIL INX[31] DO 01101000
4  IF TABLE[31,I]=J THEN TABLE[31,I].[3:15] := LOGENTRY; 01102000
5  LOGENTRY,[3:15] := J; 01103000
6  ZERO(300,JAR[MIX,0]); 01104000
7  GO CROSSREF; 01105000
8  HALOD: 01106000
9  IF LISTOG THEN 01107000
10 BEGIN 01108000
11 BLANK(L); 01109000
12 WRITEPAGE; 01110000
13 MOVEMESS(B[2],L); 01111000
14 WRITEDOUBLE; 01112000
15 WRITE(L[*],FTIME,ATIME(B[1],[3:24])); WRITEDOUBLE; 01113000
16 WRITE(L[*],FDATE 01114000
17 ,CDATE:=DECM(B[1].[30:18]) 01115000
18 ,DAY(CDATE) 01116000
19 ,ACTDATE 01117000
20 ); WRITEDOUBLE; 01118000
21 HALTOG:= TRUE; 01119000
22 END; 01120000
23 GO CROSSREF; 01121000
24 WMCP: 01122000
25 N:=B[3].[43:5]; 01122100
26 IF N>20 THEN N:=20; % MAXIMUM OF 20 ELS 01122200
27 EUSPEED:=N; 01122300
28 SETEUSPEED(N,B[3],EUSPEED); 01123000
29 FOR I:=1 STEP 1 UNTIL MIXMAX DO 01124000
30 ZERO(300,JAR[I,0]); 01125000
31 MIXMAX:= 0; 01126000
32 IF LISTOG THEN 01127000
33 BEGIN 01128000
34 BLANK(L); 01129000
35 IF NOT HALTOG THEN 01130000
36 BEGIN 01131000
37 WRITEPAGE; 01132000
38 MOVEMESS(B[4],L); 01133000
39 WRITEDOUBLE; 01134000
40 WRITE(L[*],FTIME,ATIME(B[1],[3:24])); WRITEDOUBLE; 01135000
41 WRITE(L[*],FDATE 01136000
42 ,CDATE:=DECM(B[1].[30:18]) 01137000
43 ,DAY(CDATE) 01138000
44 ,ACTDATE 01139000
45 ); WRITEDOUBLE; 01140000
46 END ELSE 01141000
47 BEGIN FINDOPTIONS(B[4],L); 01142000
48 WRITEDOUBLE; 01143000
49 HALTOG:= FALSE; 01144000
50 END; 01145000
51 WRITE(L[*],WM,B[2]); WRITEDOUBLE; 01146000
52 WRITE(L[*],NEU,N); WRITEDOUBLE; 01147000
53 FOR I:=1 STEP 1 UNTIL N DO 01148000
54 BEGIN 01149000
55 WRITE(L[*],MODEL 01150000
56 ,I=1 01151000
57 ,IF (J:=GETEUSPEED(I-1,EUSPEED))=2 THEN "1B" ELSE "1 " 01152000
58 ,J*20 01153000
59 ); WRITEDOUBLE; 01154000
60 END; 01155000

```



	BLANK(L); WRITESPACES(4);	01156000
	END;	01157000
	GO CROSSREF;	01158000
1	TMDAT:	01159000
2	IF B[3]#0 THEN	01160000
3	IF (I:=DECM(B[1],[30:18]))#CDATE THEN	01161000
4	BEGIN	01162000
5	CDATE:=I;	01163000
6	IF LISTOG THEN	01164000
7	BEGIN	01165000
8	WRITEPAGE;	01166000
9	WRITE(L[*],FTIME,ATIME(B[1],[3:24])); WRITEDOUBLE;	01167000
10	WRITE(L[*],FDATE	01168000
11	,CDATE	01169000
12	,DAY(CDATE)	01170000
13	,ACTDATE	01171000
14	); WRITEDOUBLE;	01172000
15	END;	01173000
16	END;	01174000
17	GO CROSSREF;	01175000
18	XDISK:	01176000
19	IF LISTOG THEN	01177000
20	BEGIN	01178000
21	BLANK(L);	01179000
22	MOVEMESS(B[3],L[1]);	01180000
23	L[0]:= " " & ATIME(B[1],[3:24])[1:19:29];	01181000
24	WRITESPACES(3);	01182000
25	END;	01183000
26	IF SUMTOG THEN	01183050
27	BEGIN	01183100
28	IF XBADISK(B[3],BL(B[2],[1:1]),JUNKBUFFER[2]) THEN	01183150
29	BEGIN	01183200
30	MOVE(2,B,JUNKBUFFER);	01183250
31	JUNKBUFFER[7]:=JUNKBUFFER[4]&JUNKBUFFER[3][8:23:25];	01183300
32	WRITE(BADISK,10,JUNKBUFFER[*]);	01183350
33	XDTOG:=TRUE;	01183400
34	END;	01183450
35	END;	01183500
36	GO CROSSREF;	01184000
37	FECOM:	01185000
38	IF LISTOG THEN	01186000
39	BEGIN	01187000
40	BLANK(L);	01188000
41	MOVEMESS(B[2],L[2]);	01189000
42	L[0]:= " " & ATIME(B[1],[3:24])[1:19:29];	01190000
43	L[1]:= "COMMENT " & 19[1:43:5];	01191000
44	WRITESPACES(3);	01192000
45	END;	01193000
46	GO CROSSREF;	01193100
47	TAPETST:	01193200
48	IF TESTOG THEN	01193300
49	BEGIN	01193400
50	MOVE(3,JAR[MIX:=B[0],[20:5],0],B[200]);	01193500
51	IF (FNUM:=B[0],[9:9])>MAXFNUM THEN FNUM:=MAXFNUM;	01193550
52	MOVE(3,JAR[MIX,FNUM*3],B[203]);	01193600
53	B[206]:= CDATE;	01193700
54	WRITE(TST,210,B[*]); TAPETESTS:= TAPETESTS+1;	01193800
55	END;	01193900
56	CROSSREF;	01194000
57	IF CROSSTOG THEN	01195000

	BEGIN	01196000
	IF TYPE < 12 THEN	01197000
	BEGIN	01198000
1	IF MIX#0 THEN LOGENTRY:= LOGENTRY & JAR[MIX,0] [3:3:15];	01199000
2	IF FNUM#0 THEN LOGENTRY:= LOGENTRY & JAR[MIX,FNUM*3] [18:3:15];	01200000
3	TABLE[LUN,(INX[LUN]:= INX[LUN]+1)] := LOGENTRY;	01201000
4	END ELSE	01202000
5	BEGIN	01203000
6	TABLE[(TYPE:=TYPE+19),(INX[TYPE]:= INX[TYPE]+1)] := LOGENTRY;	01204000
7	END;END;	01205000
8	GO REED;	01205100
9	ONLTEST;	01205200
10	IF ONLTOG THEN	01205300
11	BEGIN	01205400
12	IF TYPE:=B[0].[9:3] = 2 THEN	01205500
13	BEGIN	01205600
14	MOVE(7,B,L);	01205700
15	L[1]:= L[1] & OCTV(CDATE)[27:27:21];	01205800
16	L[7]:= 0 & (LUN:=UNIT[B[3].[3:5]*2])[1:43:5];	01205900
17	IF B[0].[18:2]=1 THEN %TAPE	01206000
18	BEGIN	01206100
19	L[0]:= L[0] & B[1][27:27:21];	01206200
20	L[7]:= L[7] & B[7][15:30:18] &	01206300
21	LUN[33:42:6] & B[9][39:42:6];	01206400
22	L[8]:= TPECNF[0,MIX:=B[0].[20:5]];	01206500
23	L[9]:= TPECNF[1,MIX];	01206600
24	END ELSE	01206800
25	BEGIN	01206900
26	BREAKDOWNADDRESS(B[2],A);	01207000
27	L[7]:= L[7] & REAL(A[9]<0)[7:47:1] &	01207100
28	A[0][8:23:25] & B[3][33:27:6] & B[2][41:1:4];	01207200
29	END;	01207400
30	WRITE(TEMP,10,L[*]);	01207500
31	SUMFILETOG:= TRUE;	01207600
32	END ELSE	01207700
33	IF TYPE=1 AND B[0].[18:2]=1 THEN	01207800
34	BEGIN TPECNF[0,MIX:=B[0].[20:5]]:= B[5];	01207900
35	TPECNF[1,MIX]:= B[6];	01208000
36	END;	01208100
37	END;	01208200
38	GO CROSSREF;	01208300
39	EXIT;	01208400
40	END PASS1;	01208500
41	%	01226000
42	PROCEDURE PASS2;	01227000
43	BEGIN LABEL CLEANUP;	01228000
44	FORMAT	01228100
45	WRAPUP(/////,"LOG FILE IS",X5,A1,A6,"/",A1,A6,	01228200
46	2(//,"LOG ",A5,X15,A5,X2,A6,"DAY", "0,X3,A5),	01228300
47	//,"LOG ENTRIES ",X4,15," OF "U,	01228400
48	//,"LOG SEGMENTS",X4,15,	01228500
49	///,"PROCESSOR TIME "I4," MIN. "F5.1," SEC.",	01228600
50	///,"I/O TIME "I4," MIN. "F5.1," SEC.",	01228700
51	///,"ELAPSED TIME "I4," MIN. "F5.1," SEC.");	01228800
52	INPASS1:=FALSE;	01228900
53	IF SUMTOG THEN	01229000
54	BEGIN	01229050
55	IF SUMFILETOG THEN % THERE ARE ERROR ENTRIES IN SUM FILE	01230000
56	BEGIN	01231000
57	A[7]:= MARKER; WRITE(TEMP,10,A[*]);	01231100

	REWIND(TEMP);	01231200
	J:= 0;	01231300
	SORT(OUTSORT,INLUNSORT,0,HI,CMPLUN,10,6000);	01231400
1	READ(SUM[NO]);	01231500
2	GROUPTOTALS(0,TAPERERRORS);	01232000
3	IF TAPERERRORS#0 THEN	01233000
4	BEGIN	01234000
5	REWIND(SUM); READ(SUM[NO]);	01235000
6	J:= 1; LUNMAX:= 15;	01236000
7	SORT(OUTSORT,INSORT,0,HI,CMP,10,6000);	01237000
8	REPORTPRN;	01238000
9	END;	01240000
10	GROUPTOTALS(1,DISKERRORS);	01242000
11	IF DISKERRORS#C THEN	01243000
12	BEGIN	01244000
13	SPACE(SUM,-DISKERRORS); READ(SUM[NO]);	01245000
14	J:=1; LUNMAX:= 19;	01246000
15	SORT(OUTSORT,INSORT,0,HI,CMP,10,6000);	01247000
16	REPORTADDRESS;	01248000
17	END;	01250000
18	END SUMFILETOG;	01250050
19	IF XDTOG THEN	01250100
20	BEGIN	01250150
21	A[7]:=MARKER; WRITE(BADISK,10,A[*]);	01250200
22	REWIND(BADISK);	01250250
23	J:=1;	01250300
24	SORT(OUTSORT,INLUNSORT,0,HI,CMP,10,6000);	01250350
25	REPORTBADISK;	01250400
26	END XDTOG;	01250450
27	IF SUMFILETOG THEN	01250500
28	BEGIN	01250550
29	IF DRUMTOG THEN BEGIN REWIND(SUM); READ(SUM[NO]); END;	01251000
30	FOR J:=3-REAL(DRUMTOG) STEP 1 UNTIL 8 DO GROUPTOTALS(J,T1);	01252000
31	END;	01252050
32	END SUMTOG;	01252100
33	IF TESTOG THEN IF TAPETESTS#0 THEN REPORTAPETEST;	01252200
34	IF LISTOG THEN	01253000
35	BEGIN	01254000
36	IF ETYPE#0 THEN	01254100
37	BEGIN	01254200
38	BLANK(L); WRITEDOUBLE;	01254300
39	MOVE(10,TERMINALMESSAGA,L);	01254400
40	WRITEDOUBLE;	01254500
41	END;	01254600
42	L[17]:=1023; WRITE(PBD,18,L[*]);	01255000
43	REWIND(PBD);	01256000
44	WHILE TRUE DO	01257000
45	BEGIN	01258000
46	READ(PBD,18,L[*]);	01259000
47	IF EOFPBD THEN GO CLEANUP;	01260000
48	IF PAGEIT THEN	01261000
49	BEGIN	01261010
50	WRITE(LPA[PAGE]);	01261020
51	PRINTMFID;	01261030
52	END ELSE	01261040
53	IF SINGLESPACE THEN WRITE(LPA,15,L[*]) ELSE	01262000
54	IF DOUBLESPACE THEN WRITE(LPA[DBL],15,L[*]) ELSE	01263000
55	BEGIN WRITE(LPA,15,L[*]);	01264000
56	WRITE(LPA,SPACES,L[17]);	01265000
57	END;	01266000

	END;	01267000
	CLEANUP:	01268000
	REWIND(PBD);	01269000
1	END LISTOG;	01270000
2	%	01270100
3	IF SUMFILETOG THEN REWIND(SUM);	01271000
4	WRITE(LPA[PAGE]);	01275000
5	PRINTMFID ;	01275010
6	BLANK(L);	01276000
7	BOJMESS(L,TIME0,TIME(6),DAY(-TIME0),ATIME(TIME1),	01277000
8	LISTOG,SUMTOG,TESTOG,ONLTOG);	01278000
9	WRITE(LPA[DBL],15,L[*]);	01279000
10	IF ETYPE#0 THEN	01279100
11	BEGIN	01279200
12	WRITE(LPA[DBL]); WRITE(LPA,10,TERMINALMESSAGE[*]);	01279300
13	END;	01279400
14	IF LASTENTRY<NUMENTRIES OR MAINTLOG THEN	01279500
15	LASTENTRY:=NUMENTRIES;	01279600
16	WRITE(LPA,WRAPUP	01280900
17	,MFID.[6:6],MFID,FID.L6:6],FID	01281000
18	, "START",STARTDATE,DAY(STARTDATE),ACTDATE,ATIME(STARTIME)	01282000
19	, "END ",STOPDATE,DAY(STOPDATE),ACTDATE,ATIME(STOPTIME)	01283000
20	,NUMENTRIES,LASTENTRY,SEGS	01284000
21	,T1:=(T2:= TIME(2)-PRUCTIME) DIV 3600	01285000
22	,(T2/60) - T1*60	01286000
23	,T1:=(T2:= TIME(3)-IUTIME) DIV 3600	01287000
24	,(T2/60) - T1*60	01288000
25	,T1:=(T2:= TIME(1)-TIME1) DIV 3600	01289000
26	,(T2/60) - T1*60	01290000
27	);	01291000
28	END PASS2;	01293000
29	%	01294000
30	% START OF OUTER BLOCK %	01295000
31	%	01296000
32	INITIALIZE;	01297000
33	STARTUP;	01298000
34	PASS1;	01299000
35	FINISHUP;	01300000
36	PASS2;	01301000
37	GO STARTUP;	01302000
38	%	01303000
39	FLAGBIT;	01304000
40	ETYPE:=1;	01305000
41	GO RENTER;	01306000
42	INVALIDINDEX;	01307000
43	ETYPE:=2;	01308000
44	GO RENTER;	01309000
45	INTEGROVFLW;	01310000
46	ETYPE:=3;	01311000
47	GO RENTER;	01312000
48	EXPONOVFLW;	01313000
49	ETYPE:=4;	01314000
50	GO RENTER;	01315000
51	DIVBYZERO;	01316000
52	ETYPE:=5;	01317000
53	GO RENTER;	01318000
54	ENDOFILE;	01319000
55	ETYPE:=6;	01320000
56	RENTER;	01321000
57	I1=ETYPE*2;	01322000

ALPHA1:=MESS[12+I]; ALPHA2:=MESS[13+I];  
WRITE(TERMINALMESSAGA[\*],FTERMINATE,LALPHA);  
WRITE(SPO,10,TERMINALMESSAGA[\*]);  
IF INPASS1 THEN GO FINISHUP;  
GO STARTUP;

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01330000  
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EOP;

FINIS;

END PROGRAM.

END;END. LAST CARD ON OCRDING TAPE

LABEL 00000000PRINTER00175100CC LX OBJECT/READ;FILE SOURCEFILE=SYMBOL/MLUGAN<<0000000

OBJECT /READ

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