

LABEL 000000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/HARD;END+

OBJECT /READ

SYMBOL/HARD

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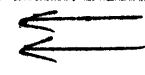
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BEGIN COMMENT CREATES HARD COPY OF CANDE FILES FOR USERS;          00010000
REAL I,J,K,X,Y,Z,NUMUSERS,NUMFILES,USERCODE,MEDIA,FMED,          00010100
COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE            * 00010110
1 * FILE ID: SYMBOL/HARD TAPE ID: SYMBOL2/FILE000                * 00010111
2 * THIS MATERIAL IS PROPRIETARY TO BURROUGHS CORPORATION        * 00010112
3 * AND IS NOT TO BE REPRODUCED, USED, OR DISCLOSED              * 00010113
4 * EXCEPT IN ACCORDANCE WITH PROGRAM LICENSE OR UPON          * 00010114
5 * WRITTEN AUTHORIZATION OF THE PATENT DIVISION OF              * 00010115
6 * BURROUGHS CORPORATION, DETROIT, MICHIGAN 48232              * 00010116
7 *                                                                * 00010117
8 * COPYRIGHT (C) 1971, 1972 BURROUGHS CORPORATION              * 00010118
9 * AA320206 AA386657                                           *; 00010119
10 ROW,FIRSTUSER,LASTUSER,DATE,THING;                             00010200
11 BOOLEAN FN;                                                    00010300
12 LABEL NEWROW,FINI;                                            00010400
13 DEFINE PRINT=2#, %MEDIA DIGITS FOR FILES TO BE PRINTED,      00010500
14 PUNCH=3#, %PUNCHED OR                                       00010600
15 TAPE =4#; %COPIED TO TAPE                                    00010700
16 DEFINE ROWMAX=9#,                                             00010800
17 USERMAX=49#,                                                00010900
18 WORDMAX=5#;                                                  00011000
19 DEFINE NUMINROW(NUMINROW1)=FILENAME[ NUMINROW1,0],[33:15]#,   00011100
20 NXTROW(NXTROW1)=FILENAME[ NXTROW1,0],[18:15]#,               00011200
21 LASTAPE(LASTAPE1)=FILENAME[ LASTAPE1,0],[9:9]#,              00011300
22 FMEDIA=[6:6]#;                                               00011400
23 DEFINE MATCH(MATCH1,MATCH2)=REAL(BOOLEAN(MATCH1) EQV        00011500
24 BOOLEAN(MATCH2))=REAL(NOT FALSE)#;                           00011600
25 DEFINE LEFTARROW="<"#;                                       00011700
26 DEFINE BLANKS="06060606060606060"#+;                         00011800
27 DEFINE SITE="06231635660606060"#+;                           00011900
28 ARRAY DAYS[0:12];                                           00012000
29 SAVE ARRAY STUFF[0:29], BUFF[0:9], JUNK[0:1],               00012100
30 USERS[0:USERMAX],                                           00012200
31 FILENAME[0:USERMAX,0:ROWMAX],                                00012300
32 WORD[0:WORDMAX];                                             00012400
33 FORMAT NOFILES(" NO FILES TO COPY");                          00012500
34 FORMAT TOBAD(" NO SUCH FILE(S)");                             00012600
35 FILE DIRECTORY DISK RANDOM "DIRCTRY" "DISK"(1,30);           00012700
36 FILE SPQ 11 (2,10);                                          00012800
37 FILE LINE 1 (2,15);                                          00012900
38 FILE PNCH 0 (2,10);                                          00013000
39 SAVE FILE TPE 2 (2,56,10,SAVE 30);                            00013100
40 FILE DISKFILE DISK SERIAL (3,10,30);                         00013200
41 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 00013300
42 PROCEDURE SET(USERCODE);                                     00013400
43 VALUE USERCODE; REAL USERCODE;                              00013500
44 COMMUNICATE(-10);                                           00013600
45 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 00013700
46 STREAM PROCEDURE FORMAT1(BUFF,FN);                           00013800
47 BEGIN                                                         00013900
48 SI:=FN; DI:=BUFF;                                           00014000
49 DS:=22LIT" NO ROOM IN TABLES FOR";                          00014100
50 DS:=16 CHR; DS:=LIT LEFTARROW;                               00014200
51 END;                                                           00014300
52 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 00014400
53 STREAM PROCEDURE NOFILE(BUFF,TYPE);                          00014500
54 BEGIN                                                         00014600
55 DI:=BUFF; SI:=TYPE; SI:=SI+1;                                00014700
56 DS:=14 LIT" NO FILES FOR ";                                  00014800
57 DS:=7 CHR;                                                   00014900

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DS:=LIT LEFTARROW;                                00015000
END;                                                00015100
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00015200
1 REAL STREAM PROCEDURE OCTCONV(DEC);              00015300
2 VALUE DEC;                                       00015400
3 BEGIN                                            00015500
4   SI:=LOC DEC; DI:=LOC OCTCONV; DS:=8 OCT;      00015600
5 END;                                             00015700
6 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00015800
7 REAL STREAM PROCEDURE DECCONV(OCT);             00015900
8 VALUE OCT;                                       00016000
9 BEGIN                                            00016100
10  SI:=LOC OCT; DI:=LOC DECCONV; DS:=8 DEC;      00016200
11 END;                                             00016300
12 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00016400
13 STREAM PROCEDURE BLANK(BUFF,WORD);              00016500
14 BEGIN DI:=BUFF; DS:=LIT" ";                    00016600
15   SI:=WORD; SI:=SI+1; DS:=7 CHR;                00016700
16 END;                                             00016800
17 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00016900
18 STREAM PROCEDURE FORMAT4(BUFF,WORD);           00017000
19 BEGIN                                            00017100
20   SI:=WORD; SI:=SI+1; DI:=BUFF;                 00017200
21   DS:=9 LIT" NO USER ";                          00017300
22   7(IF SC=ALPHA THEN DS:=CHR ELSE JUMP OUT);     00017400
23   DS:=LIT LEFTARROW;                             00017500
24 END;                                             00017600
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00017700
26 STREAM PROCEDURE FORMAT8(BUFF, FN, TYPE);       00017800
27 BEGIN                                            00017900
28   SI:=FN;                                         00018000
29   DI:=BUFF; DS:=CHR;                              00018100
30   15(IF SC=ALPHA THEN DS:=CHR ELSE JUMP OUT);    00018200
31   DS:=11 LIT" COPIED TO ";                        00018300
32   SI:=TYPE; SI:=SI+1; DS:=7 CHR;                 00018400
33   DS:=LIT LEFTARROW;                             00018500
34 END;                                             00018600
35 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00018700
36 STREAM PROCEDURE HEADING(BUFF, FN, DATE, WORD); 00018800
37 BEGIN DI:=BUFF; SI:=FN;                          00018900
38   DS:=5 LIT" FILE: "; DS:=CHR;                   00019000
39   15(IF SC=ALPHA THEN DS:=CHR ELSE IF SC="/" THEN DS:=CHR
40     ELSE JUMP OUT);                               00019100
41   DS:=8 LIT" ";                                   00019200
42   SI:=WORD; SI:=SI+1; DS:=5 CHR; DS:=4 LIT" ED: "; 00019300
43   SI:=DATE; DS:=8 CHR; DS:=16 LIT" ";            00019400
44 END;                                             00019500
45 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00019600
46 STREAM PROCEDURE SHIFT(BUFF, STUFF);           00019700
47 BEGIN LOCAL A;                                    00019800
48   SI:=BUFF; 2(SI:=SI+36); DI:=STUFF; DS:=LIT" "; 00019900
49   TALLY:=8;                                       00020000
50   7(IF SC="0" THEN BEGIN DS:=LIT" "; SI:=SI+1; TALLY:=TALLY+63 END
51     ELSE JUMP OUT);                               00020100
52   A:=TALLY; DS:=A CHR; DS:=LIT" ";              00020200
53   SI:=BUFF; 2(DS:=36 CHR); DS:=6 LIT" ";        00020300
54 END;                                             00020400
55 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%00020500
56 STREAM PROCEDURE MAKEFILE(A, B, NAME);         00020600
57 BEGIN LABEL L1, L2;                              00020700

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SI:=A; SI:=SI+2;
DI:=NAME; DS:=LIT" ";
TALLY:=14;
6(IF SC=ALPHA THEN BEGIN DS:=CHR; TALLY:=TALLY+63 END
  ELSE JUMP OUT);
DS:=LIT"/";
SI:=B; SI:=SI+1;
7(IF SC=ALPHA THEN BEGIN DS:=CHR; TALLY:=TALLY+63 END
  ELSE JUMP OUT);
A:=TALLY; A(DS:=LIT" ");
END;
*****
REAL STREAM PROCEDURE ANALYZE(INPUT, CODE, TAB);
BEGIN LABEL L, LAB, BEL;
LOCAL START, B, C;
SI:=INPUT;
LAB: IF SC=" " THEN BEGIN SI:=SI+1; GO TO LAB END;
IF SC = LEFTARROW THEN GO TO L;
START:=SI;
SI:=TAB;
WORDMAX(B:=SI;
DI:=LOC C; DI:=DI+7; DS:=CHR;
DI:=START;
IF C SC=DC THEN
BEGIN ANALYZE:=TALLY;
C:=DI; SI:=C;
JUMP OUT TO L;
END;
SI:=B; SI:=SI+8; TALLY:=TALLY+1));
TALLY:=0; ANALYZE:=TALLY;
SI:=START;
L: DI:=CODE; 2(
BEL: IF SC=" " THEN BEGIN SI:=SI+1; GO TO BEL END;
IF SC="/" THEN BEGIN SI:=SI+1; GO TO BEL END;
DS:=LIT"0";
TALLY:=7;
7(IF SC=ALPHA THEN BEGIN DS:=CHR; TALLY:=TALLY+63 END
  ELSE JUMP OUT);
B:=TALLY; B(DS:=LIT" ");
END;
*****
REAL STREAM PROCEDURE YESORNO(ANS);
BEGIN LABEL L;
SI:=ANS;
L: IF SC=" " THEN BEGIN SI:=SI+1; GO TO L END;
IF SC="Y" THEN TALLY:=1 ELSE
IF SC="N" THEN TALLY:=0 ELSE TALLY:=3;
YESORNO:=TALLY;
END;
*****
PROCEDURE SEARCHDIRECTORY;
BEGIN LABEL REED, STORE, BUGOUT, TSER;
Z:=15;
REED:
READ(DIRECTORY[Z], 30, STUFF[*]);
READ SEEK(DIRECTORY[Z:=Z+16]);
FOR J:=28 STEP -2 UNTIL 0 DO
IF (X:=STUFF[J])=3"114" THEN GO TO BUGOUT ELSE
IF X NEQ 3"14" AND X.FMEDIA GEQ 2 AND X.FMEDIA LEQ 5 THEN
BEGIN

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USERCODE:=STUFF[J+1];
FOR I:=0 STEP 1 UNTIL NUMUSERS DO
  IF MATCH(USERS[I],USERCODE) THEN
    BEGIN
      ROW:=I;
      WHILE NUMINROW[I] GEQ ROWMAX DO
        IF NXTROW[I]=0 THEN
          IF NUMUSERS GEQ USERMAX THEN GO TO TSER
          ELSE NXTROW[I]:=I:=NUMUSERS:=NUMUSERS+1
          ELSE I:=NXTROW[I];
          GO TO STORE;
        END;
      IF NUMUSERS LSS USERMAX THEN
        BEGIN
          USERS[ROW:=I:=NUMUSERS:=NUMUSERS+1]:=USERCODE;
        STORE: NUMINROW[I]:=Y:=NUMINROW[I]+1;
          FILENAME[I,Y]:=X;
          NUMFILES:=NUMFILES+1;
          IF X.FMEDIA = TAPE THEN
            BEGIN LASTAPE[I]:=Y;
              WHILE ROW LSS I DO BEGIN LASTAPE[ROW]:=0;
                ROW:=NXTROW[ROW] END;
            END;
          END ELSE
            BEGIN
              TSER: MAKEFILE(X,USERCODE,BUFF[6]);
                FORMAT1(BUFF[6],BUFF[6]);
                WRITE(SPO,5,BUFF[*]);
            END;
          END;
          GO TO REED;
        BUGOUT: CLOSE(DIRECTORY);
        END;
        %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
        PROCEDURE SEEIFTHEKLUTZNEEDSFILENAMES;
        BEGIN LABEL START,REED,IT;
          REAL L,M;
          FORMAT FMT2(" FILE NAMES?"),
            HUNH(" ANSWER MUST BE YES OR NO - TRY AGAIN.");
          WRITE(SPO,FMT2);
        REED:
          READ(SPO,10,STUFF[*]);
          IF BOOLEAN(X:=YESORNO(STUFF[*])) THEN
            IF X LSS 2 THEN
              BEGIN
                FOR J:=PRINT STEP 1 UNTIL TAPE DO
                  BEGIN Z:=0; L:=-1;
                    BLANK(STUFF[0],WORD[J]);
                    FOR M:=0 STEP 1 UNTIL NUMUSERS DO
                      BEGIN I:=M;
                        IF USERCODE:=USERS[I] NEQ 0 THEN
                          BEGIN
                            IT: FOR K:=1 STEP 1 UNTIL NUMINROW[I] DO
                              IF FILENAME[I,K].FMEDIA=J THEN
                                BEGIN
                                  MAKEFILE(FILENAME[I,K],USERCODE,STUFF[L:=L+2]);
                                  Z:=1;
                                  IF L=7 THEN
                                    BEGIN WRITE(SPO,9,STUFF[*]);
                                      L:=1

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      END
      END;
      IF I:=NXTROW[I] NEQ 0 THEN GO TO I1
END
END;
IF L GTR 0 THEN WRITE(SPO,L+2,STUFF[*])
ELSE IF Z=0 THEN
BEGIN NOFILE(BUFF[0],WORD[L]);
WRITE(SPO,3,BUFF[*])
END
END
END ELSE BEGIN WRITE(SPO,HUNH); GO TO REED END;
END;
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
BOOLEAN PROCEDURE THERESOMETHINGTODO;
BEGIN LABEL REED,EXIT;
REAL J;
FORMAT FMT3(" WHAIS NEXT?");
DEFINE CODE=JUNK#;
IF NUMFILES NEQ 0 THEN
BEGIN
X:=0;
WRITE(SPO,FMT3);
REED: READ(SPO,10,STUFF[*]);
MEDIA:=ANALYZE(STUFF[*],CODE[*],WORD[*]);
IF THERESOMETHINGTODO:=(MEDIA NEQ 1) THEN
BEGIN
IF MATCH(CODE[0],BLANKS) THEN
BEGIN LASTUSER:=NUMUSERS;
FIRSTUSER:=0;
END ELSE
BEGIN
FOR J:=0,1 DO
FOR I:=0 STEP 1 UNTIL NUMUSERS DO
IF MATCH(CODE[J],USERS[I]) THEN
BEGIN LASTUSER:=FIRSTUSER:=I;
GO TO EXIT;
END;
NOFILE(BUFF[*],CODE IF MATCH(CODE[1],BLANKS) THEN 0 ELSE 1);
WRITE(SPO,3,BUFF[*]);
GO TO REED;
END;
EXIT: IF FN:=BOOLEAN(J) THEN THING:=JUNK[0].[6:36];
END
END ELSE THERESOMETHINGTODO:=FALSE;
END;
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
PROCEDURE MAKEDATE;
BEGIN
REAL MM,DD,YY;
MM:=TIME(0); DD:=OCTCONV(MM,[30:18]);
YY:=OCTCONV(MM,[18:12]);
IF DD GEQ 60 THEN
IF YY.[46:2] NEQ 0 THEN DD:=DD+1;
YY:=MM.[18:12]; MM:=0;
DO MM:=MM+1 UNTIL DD LEQ DAYS[MM];
DD:=DECCONV(DD-DAYS[MM-1]);
MM:=DECCONV(MM);
DATE:="0/00/00"&MM[1:37:11]&DD[18:36:12]&YY[36:36:12];
END;
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*****00039000
PROCEDURE COPY(ROW,J);                                00039100
  VALUE ROW,J; REAL RCY,J;                            00039200
1 BEGIN LABEL PRINTIT,PLNCHIT,TAPEIT,EOFT,EOF,       00039300
2   SWITCH ACTION:=PRINTIT,PLNCHIT,TAPEIT;          00039400
3   FORMAT SPACER(*(" "/));                          00039500
4   SET(USERCODE);                                    00039600
5   FILL DISKFILE WITH FILENAME[ROW,J].[6:42],USERCODE; 00039700
6   MAKEFILE(FILENAME[ROW,J],USERCODE,JUNK[*]);      00039800
7   IF FMED NEQ TAPE THEN HEADING(STUFF[0],JUNK[0],DATE,WORD[FMED]); 00039900
8 GO TO ACTION[FMED=PRINT+1];                        00040000
9 PRINTIT:                                           00040100
10  WRITE(LINE[PAGE]);                                00040200
11  WRITE(LINE,6,STUFF[*]);                          00040300
12  WRITE(LINE,SPACER,3);                            00040400
13 DO BEGIN                                          00040500
14  READ(DISKFILE,10,BUFF[*])(EOF);                  00040600
15  SHIFT(BUFF[*],STUFF[*]);                         00040700
16  WRITE(LINE[DBL],11,STUFF[*]);                   00040800
17 END UNTIL FALSE;                                  00040900
18 PUNCHIT:                                          00041000
19  WRITE(PNCH,SPACER,1);                            00041100
20  WRITE(PNCH,6,STUFF[*]);                          00041200
21  WRITE(PNCH,SPACER,1);                            00041300
22 DO BEGIN                                          00041400
23  READ(DISKFILE,10,BUFF[*])(EOF);                  00041500
24  WRITE(PNCH,10,BUFF[*]);                          00041600
25 END UNTIL FALSE;                                  00041700
26 TAPEIT:                                          00041800
27  FILL TPE WITH USERCODE,BLANKS&FILENAME[ROW,J][6:12:36]; 00041900
28 DO BEGIN                                          00042000
29  READ(DISKFILE,10,BUFF[*])(EOFT);                 00042100
30  WRITE(TPE,10,BUFF[*]);                           00042200
31 END UNTIL FALSE;                                  00042300
32 EOFT:                                             00042400
33  IF LASTAPE[ROW]=J THEN LOCK(TPE) ELSE CLOSE(TPE,*); 00042500
34 EOF:                                              00042600
35  CLOSE(DISKFILE,PURGF);                            00042700
36  FORMAT8(BUFF[0],JUNK[0],WORD[FMED]);            00042800
37  WRITE(SPO,5,BUFF[*]);                            00042900
38  SET(SITE);                                        00043000
39 END;                                              00043100
40 *****00043200
41 %% START OF PROGRAM                                %% 00043300
42 *****00043400
43 NUMUSERS:=1;                                       00043500
44 FILL WORD[*] WITH "3ALL ",                        00043600
45   "4STOP ",                                        00043700
46   "7PRINTER",                                     00043800
47   "5PUNCH ",                                      00043900
48   "4TAPE ";                                       00044000
49 FILL DAYS[*] WITH 0,31,60,91,121,152,182,213,244,274, 00044100
50   305,335,366;                                    00044200
51 MAKEDATE;                                         00044300
52 SEARCHDIRECTORY;                                  00044400
53 IF NUMUSERS GEQ 0 THEN                            00044500
54 BEGIN                                             00044600
55   SEEIFTHEKLUTZNEEDSFILENAMES;                  00044700
56   WHILE THERESOMETHINGTODD DO                   00044800
57   BEGIN                                           00044900

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FOR I:=FIRSTUSER STEP 1 UNTIL LASTUSER DO
IF USERS[I] NEQ 0 THEN
BEGIN
ROW:=I;
USERCODE:=USERS[I];
NEWROW:FOR J:=1 STEP 1 UNTIL NUMINROW[ROW] DO
BEGIN
IF FN THEN IF FILENAME[ROW,J].[12:36] NEQ THING THEN GO TO FINI;
IF (FMED:=FILENAME[ROW,J].FMEDIA) NEQ 0 AND
(MEDIA=FMED OR MEDIA=0) THEN
BEGIN
COPY(ROW,J);
X:=X+1;
FILENAME[ROW,J]:=0;
END;
FINI: END;
IF ROW:=NXTROW[ROW] NEQ 0 THEN GO TO NEWROW;
END;
IF X=0 THEN WRITE(SPO,TOUBAD) ELSE NUMFILES:=NUMFILES+X;
END
END ELSE WRITE(SPO,NOFILES);
END.
END;END. LAST CARD ON OCRDING TAPE
BEGIN

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LABEL 000000000PRINTEK00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/HARD;END+

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