

LABEL 00000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/LFILES;END+

OBJECT /READ

SYMBOL/LFILES

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BEGIN
REAL COMMON;
*** LFILES/CANDE SOURCE PROGRAM, 11-72, ***
COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE *
          * FILE ID: SYMBOL/LFILES TAPE ID: SYMBOL2/FILE000 *
          * THIS MATERIAL IS PROPRIETARY TO BURROUGHS CORPORATION *
          * AND IS NOT TO BE REPRODUCED, USED, OR DISCLOSED *
          * EXCEPT IN ACCORDANCE WITH PROGRAM LICENSE OR UPON *
          * WRITTEN AUTHORIZATION OF THE PATENT DIVISION OF *
          * BURROUGHS CORPORATION, DETROIT, MICHIGAN 48232 *
          * COPYRIGHT (C) 1971, 1972 BURROUGHS CORPORATION *
          * AA320206 AA386657 *
FILE LPA(2,15);
FILE DSK DISK SERIAL [20:100] (2,10,300,SAVE 1);
SAVE ARRAY A[0:60],WORK[0:15],NAMES[0:20];
ARRAY DAYS[0:12],TYPETABLE[0:11],DIR[0:1022];
REAL CTR, DISKBOTTOM, FID, I, INCREMENT, K, LITWORD, LL, MASK,
MAXPTR, NAME, NAMECOUNT, NI, PTH, RECS, SECNAME, SEGS,
SPECS, TABLESIZE, TDATE, TFILES, TYPE, TRECS, TSEGS,
TYPEFIELD, USER, USERNAME, LINK;
BOULLEAN ALL, BRAAK, LITERAL, LOCKED, OBJECT, PRINTER, RESTART,
SECURITYCHECK, SOLEUSER, SOURCE, TELETYPE, UNLOCKED, PUBLIC;
LABEL COMPARE, CYCLE, ENDFID, ENDSORT, EXIT, FOUND, PRINTIT,
SKIP, SKIPIT, SORTT, SUMM;
INTEGER S;
DEFINE MATCH(MATCH1,MATCH2)=
REAL(BOOLEAN(MATCH1) EQV BOOLEAN(MATCH2))=REAL(NOT FALSE)#;
DEFINE MODULUS=13#,DIRMOD=169#,NUMOFTYPES=11#;
*****
REAL STREAM PROCEDURE OCTCONV(DECV); VALUE DECV;
BEGIN SI:=LOC DECV; DI:=LOC OCTCONV; DS:=8OCT; END;
*****
REAL STREAM PROCEDURE DECCONV(OCTV); VALUE OCTV;
BEGIN SI:=LOC OCTV; DI:=LOC DECCONV; DS:=8DEC; END;
*****
STREAM PROCEDURE BLANK(WORD);
BEGIN DI:=WORD; DS:=LIT" "; END;
*****
STREAM PROCEDURE BLANKS(WORK);
BEGIN DI:=WORK; DS:=8LIT" "; SI:=WORK; DS:=9WDS; END;
*****
PROCEDURE TWXOUT(A,N,T); VALUE N,T; REAL A,N,T;
BEGIN COMMUNICATE(-11); BRAAK:=BOOLEAN(T); END;
*****
STREAM PROCEDURE MOVE(N,A,B); VALUE N;
BEGIN SI:=A; DI:=B; DS:=N WDS; END;
*****
PROCEDURE DISKWAIT(IOBIT,AREA,SIZE,DISKADDRESS);
VALUE IOBIT,SIZE,DISKADDRESS; REAL IOBIT,SIZE,DISKADDRESS; ARRAY AREA[0];
COMMUNICATE(-8);
*****
REAL STREAM PROCEDURE SETBIT(N); VALUE N;
BEGIN DI:=LOC SETBIT; SKIP DB; N(SKIP DB); DS:=SET; END;
*****
BOOLEAN STREAM PROCEDURE LITCOMP(A,B); VALUE A,B;
*****
BEGIN LOCAL N,SV;
SI:=LOC B; SII:=SI+1; TALLY:=7;
IF SC="0" THEN

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"PRINTER"
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BEGIN
SI:=SI+1; TALLY:=6;
END;
SV:=SI; SI:=LOC A; SI:=SI+1; DI:=SV;
N:=TALLY; TALLY:=1;
N(IF SC NEQ DC THEN
BEGIN
SI:=SI-1; IF SC NEQ " " THEN TALLY:=0; JUMP OUT;
END);
LITCOMP:=TALLY;
END STREAM PROCEDURE LITCOMP;
*****
BOOLEAN STREAM PROCEDURE COMPANDSWAP(A,B);
*****
BEGIN LOCAL T1,T2;
% ROUTINE COMPARES WDS "A" AND "B"
% IF "B" IS GREATER THAN "A", WDS "A" AND "A+1" ARE
% EXCHANGED WITH WDS "B" AND "B+1".
% THE WORD AT "A" ( AND "B" ) IS A FILE NAME, AND
% THE WORD AT "A+1" ( AND "B+1" ) IS THE ADDRESS ASSOCIATED
% WITH THAT NAME.
SI:=A; SI:=SI+1; DI:=B; DI:=DI+1;
IF 7SC GTR DC THEN
BEGIN
TALLY:=1; COMPANDSWAP:=TALLY;
SI:=A; DI:=LOC T2; DS:=2WDS;
SI:=B; DI:=A; DS:=2WDS;
SI:=LOC T2; DI:=B; DS:=2WDS;
END;
END STREAM PROCEDURE COMPANDSWAP;
*****
REAL PROCEDURE TIMECONV;
*****
BEGIN
INTEGER HRS,MIN,TIM;
REAL STREAM PROCEDURE ST(H,M,X);
BEGIN
DI:=LOC ST; SI:=H; DS:=2 DEC; DS:="LIT":;
SI:=M; DS:=2DEC;
SI:=X; SI:=SI+5; DS:=3CHR;
END STREAM ST;
TIM := TIME(1);
HRS := TIM DIV 21600;
MIN := (TIM DIV 3600) MOD 60;
TIM := IF HRS GTR 11 THEN " PM" ELSE " AM";
IF HRS GTR 12 THEN HRS := HRS - 12;
IF HRS LSS 1 THEN HRS := 12;
TIMECONV := ST(HRS,MIN,TIM);
END TIMECONV;
*****
REAL PROCEDURE MAKEDATE( DATE ); VALUE DATE; REAL DATE;
*****
BEGIN
REAL MM,DD,YY;
MM:=DECCONV( DATE ); 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;

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DO MM:=MM+1 UNTIL DD LEQ DAYS[MM] OR MM=12;          00021000
DD:=DECCONV (DD-DAYS[MM-1]);                        00021100
MM:=DECCONV (MM);                                  00021200
MAKEDATE:="0/00/00"&MM[1:37:11]&DD[18:36:12]&YY[36:36:12]; 00021300
END MAKEDATE;                                       00021400
%*****00021500
STREAM PROCEDURE PRINTING(WORK);                   00021600
BEGIN DI:=WORK; DS:=10LIT"PRINTING."; END;         00021700
%*****00021800
STREAM PROCEDURE HEADING(WORK);                   00021900
%*****00022000
BEGIN                                              00022100
DI:=WORK; DS:=39LIT"NAME    TYPE    RECS SEGS   CREATED  "; 00022200
DS:=41LIT"ACCESSED  W/R  W/B  S=F LOCKD BY  ";          00022300
END STREAM PROCEDURE HEADING;                     00022400
%*****00022500
STREAM PROCEDURE TRAILER(WORK,NFIL,NSEG,NREC); VALUE NFIL,NSEG,NREC; 00022600
%*****00022700
BEGIN LOCAL DV;                                   00022800
DI:=WORK; DS:=8LIT" "; SI:=WORK; DS:=9WDS; DI:=WORK; 00022900
DI:=DI+10; DS:=8LIT"FILES  ";                     00023000
DI:=DI+10; DS:=8LIT"SEGMENTS";                     00023100
DI:=DI+10; DS:=8LIT"RECORDS ";                     00023200
DI:=WORK; SI:=LOC NFIL;                            00023300
3(DS:=8DEC; DV:=DI; DI:=DI-8; DS:=7FILL; DI:=DV; DI:=DI+10); 00023400
END STREAM PROCEDURE HEADING;                     00023500
%*****00023600
STREAM PROCEDURE OUTFORMAT                          00023700
(WORK,FILNAM,FILTYP,RECS,SEGS,CDAT,ADAT,WPR,WPB,SAVFAC,SECNAM,AFLG); 00023800
%*****00023900
VALUE FILNAM,FILTYP,RECS,SEGS,CDAT,ADAT,WPR,WPB,SAVFAC,SECNAM,AFLG; 00024000
BEGIN LOCAL DV;                                   00024100
DI:=WORK; SI:=LOC FILNAM;                          00024200
2(SI:=SI+1; DS:=7CHR; DS:=LIT" "); % FILE NAME AND TYPE 00024300
2(DS:=5DEC; DV:=DI; DI:=DI-5; DS:=4FILL; DI:=DV); % RECS AND SEGS 00024400
DS:=2LIT" "; DS:=8CHR; % CREATION DATE              00024500
DS:=3LIT" "; AFLG(DI:=DI-3; DS:=3LIT" * ");         00024600
DS:=8CHR; % ACCESSED DATE                           00024700
3(DS:=5DEC; DV:=DI; DI:=DI-5; DS:=4FILL; DI:=DV); 00024800
SI:=SI+1; DS:=2LIT" "; DS:=7CHR; DS:=9LIT" "; % SECURITY NAME 00024900
END STREAM PROCEDURE OUTFORMAT;                     00025000
%*****00025100
STREAM PROCEDURE TYPEFILE(FIIL,TYPE); VALUE TYPE;  00025200
%*****00025300
BEGIN LOCAL SV;                                    00025400
SI:=FIIL; 3(SI:=SI-8); DI:=LOC FIIL; DS:=WDS;       00025500
SI:=FIIL; 14(SI:=SI+8); DI:=LOC FIIL; DS:=WDS;     00025600
DI:=FIIL; 4(DI:=DI+8); DI:=DI+6;                   00025700
SI:=LOC TYPE; SI:=SI+7; DS:=CHR;                    00025800
END STREAM PROCEDURE TYPEFILE;                       00025900
%*****00026000
%*****00026100
TDATE := OCTCONV(TIME(0));                           00026200
FILL DAYS[*] WITH 0,31,60,91,121,152,182,213,244,274,305,335,366; 00026300
FILL TYPETABLE[*] WITH "UNKNOWN","BASIC ","ALGOL ","COBOL "," 00026400
"FORTRAN","TSPOL ","XALGOL ","SEQ  ","DATA  ","LOCK  ", 00026500
"INFO  ","COBOL68";                                  00026600
A[0] := 0; DISKWAIT(1,A,30,COMMON); % GET ESP RECORD 00026700
USER   := A[2]; % USER CODE                           00026800
SPECS  := A[3]; % SELECTION INSTRUCTIONS              00026900

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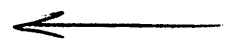
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1  USERNAME := A[4]; % USER NAME ASSOCIATED WITH FILES          00027000
2  LITWORD  := A[5]; % "LITERAL" VALUE                          00027100
3  IF (NAMECOUNT:=A[7]) GEQ 0 THEN % FILE NAMES GIVEN        00027200
4  BEGIN                                                         00027300
5  MOVE(NAMECOUNT+1,A[21],NAMES[0]);                          00027400
6  FOR I:=0 STEP 1 UNTIL NAMECOUNT DO                          00027500
7  NAMES[NAMECOUNT+1+1] := NAMES[I].[6:36]; % OBJECT FILE NAMES 00027600
8  NAMECOUNT := NAMECOUNT * 2 + 1;                          00027700
9  END;                                                         00027800
10 ALL := MATCH(SPECS,0); % NO RESTRICTIONS                    00027900
11 SECURITYCHECK := NOT(MATCH(USER,USERNAME)); % NOT PRIMARY USER 00028000
12 LITERAL := NOT ( MATCH(LITWORD,0) ); % EMPTY LITERAL WORD    00028100
13 IF MATCH(A[6],"TELETYPE") THEN TELETYPE := TRUE ELSE        00028200
14 IF MATCH(A[6],"PRINTER") THEN PRINTER := TRUE ELSE          00028300
15 FILL DSK WITH A[6],USER; % OUTPUT TO DISK FILE               00028400
16 BLANKS(WORK); WORK[0] := MAKEDATE(TDATE);                    00028500
17 WORK[1] := USERNAME; BLANK(WORK[1]);                          00028600
18 WORK[2] := " "; BLANK(WORK[2]); WORK[3] := TIMECONV;         00028700
19 IF TELETYPE THEN TWXOUT(WORK[0],32,1)                        00028800
20 ELSE IF PRINTER THEN WRITE(LPA,10,WORK[*])                   00028900
21 ELSE WRITE(DSK,10,WORK[*]);                                  00029000
22 % SEARCH THE BYPASS DIRECTORY                                00029100
23 DISKWAIT(1,A[*],30,0); % GET SEGMENT ZERO                    00029200
24 DISKBOTTOM := A[4] - 2;                                      00029300
25 RESTART := FALSE;                                           00029400
26 FOR FID := MODULUS - 1 STEP -1 UNTIL 0 DO                    00029500
27 BEGIN % TRY ALL POSSIBLE SCRAMBLE BLOCKS                     00029600
28 S := DISKBOTTOM -                                           00029700
29 2 * ((FID.[1:23]+FID.[24:24]) MOD MODULUS * MODULUS +       00029800
30 (USERNAME.[1:23]+USERNAME.[24:24]) MOD MODULUS);            00029900
31 DO BEGIN                                                     00030000
32 DISKWAIT(1,A[*],60,S); % GET DIRECTORY RECORD               00030100
33 FOR I := 0 STEP 3 UNTIL 57 DO % SEARCH DIRECTORY SEGMENT    00030200
34 IF (NAME:=A[I]) NEQ "7" THEN % VALID ENTRY                   00030300
35 IF MATCH(A[I+1],USERNAME) THEN % ENTRY FOR THIS USER        00030400
36 BEGIN                                                         00030500
37 IF NAME.[6:12] LEQ 9 THEN GO TO SKIP; % NOT CANDE FILE      00030600
38 IF (K:=NAME.[6:6]) LEQ 9 AND K GEQ 1 THEN GO SKIP; % WK FIL  00030700
39 IF LITERAL THEN IF NOT LITCOMP(LITWORD,NAME) THEN GO SKIP;  00030800
40 IF NAMECOUNT GEQ 0 THEN % FILE NAMES SPECIFIED             00030900
41 BEGIN                                                         00031000
42 FOR K:=0 STEP 1 UNTIL NAMECOUNT DO                          00031100
43 IF MATCH(NAME,NAMES[K]) THEN GO TO FOUND;                    00031200
44 GO TO SKIP; % NOT MATCHED                                    00031300
45 END; % IF NAMES SPECIFIED                                     00031400
46 FOUND: DIR[N1] := NAME;                                       00031500
47 DIR[N1+1] := A[I+2].[33:15]; % HEADER ADDRESS               00031600
48 NI := NI + 2;                                                00031700
49 SKIP: END; % I LOOP                                          00031800
50 IF NI GTR 960 THEN % LIST FILES IN 2 SECTIONS                00031900
51 BEGIN                                                         00032000
52 RESTART := TRUE; LINK:=A[2]; GO TO SORTT;                   00032100
53 END;                                                         00032200
54 ENDFID;                                                       00032300
55 END UNTIL ( S:=A[2].[18:15] ) = 0;                            00032400
56 END; % FID LOOP                                              00032500
57 SORTT:                                                         00032600
58 TABLESIZE := NI/2;                                          00032700
59 INCREMENT := (TABLESIZE+1) DIV 2;                            00032800
60 MAXPTR := TABLESIZE - INCREMENT;                            00032900

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SECURITYCHECK := FALSE; % defeat the security check mechanism

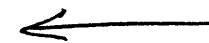


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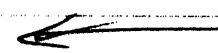
CTR := PTR := 0;                                00033000
GO TO COMPARE;                                  00033100
CYCLE:                                           00033200
1 IF (CTR:=CTR+1) GTR MAXPTR THEN % HALVE THE INCREMENT 00033300
2 BEGIN                                          00033400
3 IF (INCREMENT := INCREMENT DIV 2) = 0 THEN GO TO ENDSORT; 00033500
4 MAXPTR := TABLESIZE - INCREMENT;           00033600
5 CTR := 0;                                     00033700
6 END;                                          00033800
7 PTR := CTR;                                   00033900
8 COMPARE:                                      00034000
9 IF COMPANDSWAP(DIR[PTR*2],DIR[(PTR+INCREMENT)*2]) THEN 00034100
10 IF (PTR:=PTR-INCREMENT) GEQ 0 THEN GO TO COMPARE; 00034200
11 GO TO CYCLE;                                  00034300
12 ENDSORT: NI:=NI-2;                            00034400
13 IF NOT TELETYPE THEN                         00034500
14 BEGIN PRINTING(WORK); TWXOUT(WORK[0],10,1); END; 00034600
15 HEADING(WORK);                               00034700
16 IF TELETYPE THEN TWXOUT(WORK[0],72,1) ELSE   00034800
17 IF PRINTER THEN WRITE(LPA[10],9,WORK[*]) ELSE 00034900
18 WRITE(DSK,10,WORK[*]);                       00035000
19 FOR I:=0 STEP 2 UNTIL NI DO                   00035100
20 BEGIN                                         00035200
21 DISKWAIT(1,A[*],30,DIR[I+1]); % GET FILE HEADER 00035300
22 UNLOCKED := MATCH(A[5],12) AND MATCH(A[6],12); 00035400
23 PUBLIC := MATCH(A[5],12) AND NOT(MATCH(A[6],12)); 00035410
24 IF SECURITYCHECK THEN IF NOT(UNLOCKED OR PUBLIC) THEN GO SKIPIT; 00035500
25 LOCKED := BOOLEAN(A[5],[1:1]);               00035600
26 SOLEUSER := MATCH(A[5],0) AND MATCH(A[6],0); 00035700
27 SOURCE := NOT (OBJECT := BOOLEAN(A[4],[10:1])); 00035800
28 IF (TYPEFIELD:=A[4],[36:6]) GTR NUMOFTYPES THEN TYPEFIELD:=0; 00035900
29 IF ALL THEN GO TO PRINTIT;                   00036000
30 % BUILD COMPARISON MASK                      00036100
31 MASK := SETBIT(TYPEFIELD) &                 00036200
32 REAL(SOURCE) [47:47:1] &                    00036300
33 REAL(OBJECT) [46:47:1] &                    00036400
34 REAL(LOCKED) [45:47:1] &                    00036500
35 REAL(UNLOCKED) [44:47:1] &                  00036600
36 REAL(SOLEUSER) [43:47:1] &                  00036700
37 REAL(PUBLIC ) [42:47:1];                      00036710
38 % IF "SPECS" BIT IS ON, CORRESPONDING "MASK" BIT *MUST* BE ON 00036800
39 IF REAL( BOOLEAN(SPECS) IMP BOOLEAN(MASK) ) NEQ 00036900
40 REAL(NOT FALSE) THEN GO TO SKIPIT;           00037000
41 PRINTIT:                                     00037100
42 FOR K:=10 STEP 1 UNTIL 29 DO IF A[K]=0 THEN GO TO SUMM; 00037200
43 SUMM:                                         00037300
44 TRECS := TRECS + (RECS:=A[7]+1);             00037400
45 TSEGS := TSEGS + (SEGS:=(K-10)*A[8]);       00037500
46 TFILES := TFILES + 1;                       00037600
47 NAME := DIR[I];                              00037700
48 TYPE := TYPETABLE[TYPEFIELD];               00037800
49 IF OBJECT THEN                               00037900
50 BEGIN                                  00038000
51 NAME := " " & NAME[6:12+36];          00038100
52 TYPE := "OBJ( ) " & TYPE[30:6:6];      00038200
53 END;                                    00038300
54 SECNAME := IF LOCKED THEN A[5],[6:42] ELSE 00038400
55 IF UNLOCKED THEN "UNLOCKD" ELSE             00038500
56 IF PUBLIC THEN "PUBLIC " ELSE " "          00038510
57 OUTFORMAT(WORK,                             00038600

```



Handwritten notes:
NAME := IF NAME [6:12+36]
TYPE := "OBJ() " & NAME[30:6:6]

1	NAME,	% FILENAME	00038700
2	TYPE,	% FILE TYPE	00038800
3	RECS,	% NUMBER OF RECORDS	00038900
4	SEGS,	% NUMBER OF SEGMENTS	00039000
5	MAKEDATE(A[3],[30:18]),	% CREATION DATE	00039100
6	MAKEDATE(A[3],[12:18]),	% ACCESS DATE	00039200
7	A[0],[1:14],	% WORDS PER RECORD	00039300
8	A[0],[15:15],	% WORDS PER BLOCK	00039400
9	A[3],[2:10],	% SAVE FACTOR	00039500
10	SECNAME,	% SECNAME	00039600
11	(A[3],[12:18]=TDATE));	% ACCESS FLAG	00039700
12	IF TELETYPE THEN TXOUT(WORK[0],72,1) ELSE		00039800
13	IF PRINTER THEN WRITE(LPA 000 ,9,WORK[*]) ELSE		00039900
14	WRITE(DSK,10,WORK[*]);		00040000
15	IF BRAAK THEN GO TO EXIT; % QUIT ON BREAK		00040100
16	SKIPIT:		00040200
17	END I LOOP;		00040300
18	IF RESTART THEN		00040400
19	BEGIN NI:=0; A[2]:=LINK; RESTART:=FALSE; GO TO ENDFID; END;		00040500
20	TRAILER(WORK,TFILES,TSEGS,TRECS);		00040600
21	IF TELETYPE THEN TXOUT(WORK[0],54,1) ELSE		00040700
22	IF PRINTER THEN WRITE(LPA 000 ,9,WORK[*]) ELSE		00040800
23	WRITE(DSK,10,WORK[*]);		00040900
24	IF NOT(PRINTER OR TELETYPE) THEN IF IFILES GTR 0 THEN		00041000
25	BEGIN		00041100
26	TYPEFILE(DSK,8); LOCK(DSK,*);		00041200
27	END;		00041300
28	EXIT:		00041400
29	END PROGRAM.		00041500
30	END;END. LAST CARD ON OCRDING TAPE		99999999



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LABEL 000000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/LFILES;END*

OBJECT /READ

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