

LABEL 000000000PRINTFR00175099CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/QUIKLST;END+

OBJECT /READ

SYMBOL/QUIKLST

Data Documents/Inc.

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BEGIN
%% QUIKLST/CANDE SOURCE PROGRAM. 6-70. %%
COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE *
        * FILE ID: SYMBOL/QUIKLST 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 *;
REAL COMMON;
FILE IN SOURCE DISK SERIAL (2,0,0,MYUSE=INPLT);
SAVE ARRAY A,B[0:30],PARAMS[0:10];
BOOLEAN BRAAK, PRNT, SQUASHED, SFLG, NUMBERED, NOFMT;
REAL A1, ADJ, B1, B4, HRANGE, LRANGE, LREC, MAX,
PC, NPARAMS, REC, RECSZ, SEQ, TYPE, RECWDS;
LABEL NEXTPARAM, RANDMRD, SERIALRD, PRINT, EOF;
DEFINE LEFTARROW = "<"#;
%*****
PROCEDURE DISKWAIT(I,A,S,D);
VALUE I,S,D; ARRAY A[*]; REAL I,S,D; COMMUNICATE(-8);
%*****
PROCEDURE TWXOUT(A,N,T);
%*****
VALUE N,T;
REAL A,N,T;
BEGIN
COMMUNICATE(-11);
BRAAK:=BRAAK OR BOOLEAN(T); % MCF RETURNS 1 IF BREAK OCCURRED;
END;
%*****
REAL STREAM PROCEDURE OCTCONV(ADRS); VALUE ADRS;
BEGIN SI:=ADRS; DI:=LOC OCTCONV; DS:= 8 OCT; END;
%*****
REAL STREAM PROCEDURE HDR(F,N); VALUE N;
%*****
BEGIN
SI:=F; 3(SI:=SI-8); DI:=LOC F; DS:=WDS;
SI:=F; 14(SI:=SI+8); DI:=LOC F; DS:=WDS;
SI:=F; N(SI:=SI+8); DI:=LOC HDR; DS:=WDS;
END STREAM PROCEDURE HDR;
%*****
STREAM PROCEDURE MOVE(N,A,B); VALUE N;
BEGIN SI:=A; DI:=B; DS:= N WDS; END;
%*****
REAL STREAM PROCEDURE WHEREIS(X);
BEGIN SI:=X; WHEREIS:=SI; END;
%*****
STREAM PROCEDURE OUTFORMAT(A1,B1,B4,SQSH,SFLG,PRNT);
%*****
COMMENT A1 IS ADDRESS OF A[0], B1 IS ADDRESS OF B[0],
B4 IS ADDRESS OF B[9] IF NOT TYPE DATA, OF B[10] IF TYPE DATA,
SQSH IS TRUE IF "SQUASHED" OPTION SET.
SFLG=TRUE IF NOT TYPE DATA FILE, PRNT=TRUE IF NOT "DISPLAY" VERB
ROUTINE REFORMATS RECORD FOR OUTPUT TO REMOTE STATION;
VALUE A1,B1,B4,SQSH,SFLG,PRNT;
BEGIN LOCAL SV,SEQ; LABEL EXIT;
DI:=A1; DS:=8LIT" "; SI:=A1; DS:=10WDS; DI:=A1; % BLANK RCRD

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Data Documents/Inc.

Data Documents/Inc.

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SFLG(SI:=B4; DI:=LOC SEQ; DS:=WDS; % SAVE SEQ. NUMBER 00015000
PRNT(DI:=LOC SEQ; DS:=7FILL); SI:=LOC SEQ; DI:=A1; 00015100
8(IF SC=" " THEN SI:=SI+1 ELSE DS:=CHR); 00015200
PRNT(DS:=LIT" "); SV:=DI; DI:=B4; DS:=8LIT" "; DI:=SV); 00015300
SI:=B1; 00015400
SQSH( 00015500
2(40( IF SC=" " THEN 00015600
BEGIN SI:=SI+1; IF SC NEQ " " THEN DS:=LIT" ", END 00015700
ELSE DS:=CHR)); 00015800
JUMP OUT TO EXIT); 00015900
2(DS:=40 CHR); DS:=LIT" "; 00016000
EXIT: 00016100
END STREAM PROCEDURE OUTFORMAT; 00016200
%*****00016300
STREAM PROCEDURE REKNUMBER(A1,LREC), VALUE A1,LREC; 00016400
%*****00016500
BEGIN 00016600
SI:=LOC LREC; DI:=A1; DS:=8DEC; DI:=A1; DS:=7FILL; 00016700
SI:=A1; DI:=A1; 8(IF SC=" " THEN SI:=SI+1 ELSE DS:=CHR); 00016800
DS:=8LIT" "; 00016900
END STREAM PROCEDURE REKNUMBER; 00017000
%*****00017100
A[0]:=0; A1:=WHEREIS(A[0]); % FIXED ADDRESSES 00017200
B[0]:=0; B1:=WHEREIS(B[0]); B4:=WHEREIS(B[9]); 00017300
DISKWAIT(1,A,30,COMMON); % GET ESP RECORD 00017400
PRNT := A[1],[7:1] = 0; % ON, IF "DISPLAY" VERB 00017600
FILL SOURCE WITH A[3],A[4]; 00017700
READ SEEK(SOURCE[0]); 00017800
IF (MAX:=HDR(SOURCE,7)) LSS 0 THEN GO TO EOF; 00017810
IF A[1],[6:1] = 1 THEN % WORKFILE 00017900
BEGIN 00018000
SFLG:=A[1],[3:1]=0; % GET FILE TYPE FROM CANDE 00018100
NUMBERED := A[1],[4:1]=1 AND NOT SFLG; 00018200
RECWDS:=10; RECSZ:=81; % STANDARD RECORD SIZE 00018300
END 00018400
ELSE 00018500
BEGIN % NOT THE WORKFILE 00018600
TYPE:=HDR(SOURCE,4).[36:6]; % FILE TYPE 00018700
NOFMT := (RECWDS:=HDR(SOURCE,0).[1:14]) NEQ 10 OR TYPE=10; 00018710
SFLG := (TYPE LSS 8 OR TYPE GEQ 10) AND RECWDS = 10; 00018800
NUMBERED := A[1],[4:1]=1 AND NOT SFLG; 00018900
RECSZ := IF SFLG AND TYPE NEQ 10 THEN 81 ELSE 00019000
IF TYPE=10 THEN 72 ELSE % TYPE INFO 00019100
IF RECWDS GTR 15 THEN (RECWDS:=15)*8 ELSE RECWDS*8; 00019200
END; 00019300
SQUASHED:=A[1],[2:1]=1 AND TYPE NEQ 10; % "SQUASHED" OPTION 00019310
IF NPARAMS:=A[1],[27:6] GTR 0 THEN % PARAMETERS SPECIFIED 00019400
BEGIN 00019500
MOVE(9,A[21],PARAMS); % SAVE PARAMETERS 00019600
REC:=0; NPARAMS:=NPARAMS-1; SEQ:=PC:=1; LREC:=1; 00019700
NEXTPARAM: 00019800
LREC := LREC -1; 00019900
LRANGE:=HRANGE:=PARAMS[PC:=PC+1]; 00020000
IF LRANGE=100000000 THEN % "END" 00020100
BEGIN 00020200
READ(SOURCE[MAX],RECWDS,8[*]); READ(SOURCE); LREC := MAX+1; 00020300
GO TO PRINT; 00020400
END; 00020500
IF PC LSS NPARAMS THEN % MORE PARAMETERS AVAILABLE 00020600
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1	IF PARAMS[PC+1].[1:1]=1 THEN % RANGE SPECIFIED	00020700
2	HRANGE:=PARAMS[PC:=PC+1].[21:27];	00020800
3	IF NOT SFLG THEN % RECORD LOCATION SPECIFIED	00020900
4	BEGIN	00021000
5	READ SEEK(SOURCE[LREC:=(LRANGE-1)*REAL(LRANGE NEG 0)]);	00021100
6	GO TO SERIALRD; % SKIP BINARY SEARCH	00021200
7	END;	00021300
8	IF SEQ=LRANGE THEN	00021400
9	BEGIN LREC:=LREC+1; GO TO PRINT; END;	00021500
10	IF (MAX-LREC) LSS 30 THEN GO TO SERIALRD; % SKIP BINARY SEARCH	00021600
11	REC:=LREC+(MAX-LREC) DIV 2; % START IN THE CENTER OF RANGE	00021700
12	GO TO RANDMRD;	00021800
13	DO BEGIN	00021900
14	IF LRANGE LSS SEQ THEN % MOVE BACK, NOT LSS 0	00022000
15	REC:=(REC:=REC-ADJ)*REAL(REC.[1:1]=0) ELSE % MOVE UP	00022100
16	IF REC:=(LREC:=REC)+ADJ GTR MAX THEN REC:=MAX; % NOT MORE THAN MAX	00022200
17	RANDMRD:	00022300
18	READ(SOURCE[REC],RECWDS,B[*]);	00022400
19	SEQ:=OCTCONV(B4);	00022500
20	IF SEQ=LRANGE THEN % MATCHING RECORD	00022600
21	BEGIN LREC:=REC; READ(SOURCE); GO TO PRINT; END;	00022700
22	ADJ:=(REC-LREC) DIV 2;	00022800
23	END UNTIL ADJ LEQ 1;	00022900
24	READ SEEK(SOURCE[LREC]); % NOT FOUND IN BINARY SEARCH, GO BACK	00023000
25	SERIALRD:	00023100
26	READ(SOURCE,RECWDS,B[*])(EOF);	00023200
27	LREC:=LREC+1; % POINTS TO THE NEXT RECORD	00023300
28	SEQ:=IF SFLG THEN OCTCONV(B4) ELSE LREC;	00023400
29	IF SEQ LSS LRANGE THEN GO TO SERIALRD; % TOO LOW	00023500
30	IF SEQ GTR HRANGE THEN % TOO HIGH	00023600
31	IF PC LSS NPARAMS THEN GO NEXTPARAM ELSE GO EOF;	00023700
32	PRINT:	00023800
33	IF NUMBERED THEN % PRINT OUT RECORD LOCATION	00023900
34	BEGIN	00024000
35	REKNUMBER(A1,LREC);	00024100
36	TWXOUT(A[0],9,1);	00024200
37	END;	00024300
38	IF NOFMT THEN MOVE(RECWDS,B,A) ELSE	00024310
39	OUTFORMAT(A1,B1,B4,SQUASHED,SFLG,PRNT);	00024400
40	TWXOUT(A[0],RECSZ,1);	00024500
41	IF BRAAK THEN GO TO EOF; % STOP PRINTING	00024600
42	GO TO SERIALRD;	00024700
43	END % IF PARAMETERS SPECIFIED	00024800
44	ELSE	00024900
45	DO BEGIN % READ FILE SERIALLY	00025000
46	READ(SOURCE,RECWDS,B[*])(EOF);	00025100
47	LREC := LREC + 1;	00025200
48	IF NUMBERED THEN % PRINT OUT RECORD LOCATION	00025300
49	BEGIN	00025400
50	REKNUMBER(A1,LREC);	00025500
51	TWXOUT(A[0],9,1);	00025600
52	END;	00025700
53	IF NOFMT THEN MOVE(RECWDS,B,A) ELSE	00025710
54	OUTFORMAT(A1,B1,B4,SQUASHED,SFLG,PRNT);	00025800
55	TWXOUT(A[0],RECSZ,1);	00025900
56	END UNTIL BRAAK; % OR END-OF-FILE	00026000
57	EOF:	00026100
	CLOSE(SOURCE);	00026200
	END PROGRAM.	00026300
	END;END. LAST CARD ON OCRDING TAPE	99999999

LABEL 000000000PRINTER00175099CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/QUIKLST;END←

OBJECT /READ

Data Documents/Inc.

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