

LABEL 00000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/TSFILL++0000000

OBJECT /READ

SYMBOL/TSFILL

Data Documents/Inc.

3345N

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COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE * 00000010
* FILE ID: SYMROL/TSFILL 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
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* * 00000017
* COPYRIGHT (C) 1971, 1972 BURROUGHS CORPORATION * 00000018
* AA320206 AA332366 AA386657 *; 00000019
TSFILL/PRT 00000998
LAST PATCHED 12/11/73 00000999

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BEGIN 00001000
INTEGER COMMON; COMMENT FIRST DECLARED; 00001100
DEFINE NOLIST=COMMON=1#; % SUPPRESS ALL PRINTED OUTPUT 00001200
FILE MCP DISK SERIAL "TSSMCP" "STUFF"(2,10,30); 00002000
FILE INT DISK SERIAL "TSSINT" "STUFF"(2,10,30); 00003000
FILE DISK DISK SERIAL [1:200] "TSS" "PRT"(2,30,SAVE 999); 00004000
FILE PRINT 4(2,15); 00005000
ARRAY CARD[0:3]; 00006000
ARRAY PRS[0:29]; 00007000
DEFINE NAMESIZE=800#; 00008000
ARRAY NAME[0:NAMESIZE-1]; 00009000
DEFINE NAMSSIZE=1023#; 00010000
ARRAY NAMS[0:NAMSSIZE-1]; 00011000
INTEGER PRTMAX,NAMSMAX; 00012000
DEFINE INAMESIZE=200#; 00013000
ARRAY INAME[0:INAMESIZE-1]; 00014000
DEFINE INAMSSIZE=300#; 00015000
ARRAY INAMS[0:INAMSSIZE-1]; 00016000
INTEGER INAMAX,INAMSMAX; 00017000
INTEGER L; 00018000
REAL LEVEL; 00019000
REAL OPT;%COMPILE-TIME OPTION WORD:ONE BIT PER OPTION 00020000
DEFINE 00021000
CHECKLINK = OPT.[47:1]#; 00022000
DCP = OPT.[46:1]#; 00023000
DEBUGGING = OPT.[45:1]#; 00024000
DFX = OPT.[44:1]#; 00025000
DUMPP = OPT.[43:1]#; 00026000
SAVERESULTS = OPT.[42:1]#; 00027000
SHAREDISK = OPT.[41:1]#; 00028000
STATISTICS = OPT.[40:1]#; 00029000
TWXONLY = OPT.[39:1]#; 00030000
AUXMEMM = OPT.[38:1]#; 00031000
B6500LOAD = OPT.[37:1]#; 00031100
SEPTICTANK = OPT.[36:1]#; 00031200
PACKETS = OPT.[35:1]#; 00031300
MONITORR = OPT.[34:1]#; 00031400
MAXOPT = 14#; % UPDATE AS OPTIONS ARE ADDED 00032000
ALPHA ARRAY OPTIONS[0:2*MAXOPT]; 00033000
SWITCH FORMAT MCPOPT:= 00034000
("CHECKLINK"), 00035000
("DCP"), 00036000
("DEBUGGING"), 00037000
("DFX"), 00038000
("DUMP"), 00039000
("SAVERESULTS"), 00040000
("SHAREDISK"), 00041000
("STATISTICS"), 00042000

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1	("TWXONLY"),	00043000
2	("AUXMEM"),	00044000
3	("B6500LOAD"),	00044100
4	("SEPTICTANK"),	00044200
5	("PACKETS"),	00044300
6	("MONITOR"),	00044400
7	(" ")	00045000
8	;	00046000
9	BOOLEAN STREAM PROCEDURE BITON(A,N);VALUE N;	00047000
10	BEGIN	00048000
11	SI:=A; SKIP N SB; IF SB THEN TALLY:=1;	00049000
12	BITON:=TALLY;	00050000
13	END BITON;	00051000
14	%	00052000
15	STREAM PROCEDURE SETBIT(A,N);VALUE N;	00053000
16	BEGIN	00054000
17	DI:=A; SKIP N DB; DS:=SET;	00055000
18	END SETBIT;	00056000
19	%	00057000
20	PROCEDURE PRINTOPTIONS;	00058000
21	BEGIN	00059000
22	INTEGER I;	00060000
23	FORMAT MCPHDR("TSMCP.",A5," COMPILE-TIME OPTIONS:");	00061000
24	WRITE(PRINT[DBL],MCPHDR,LEVEL);	00062000
25	FOR I:=9,10,0,1,2,3,4,13,12,5,11,6,7,8 DO	00064000
26	IF BITON(OPT,47-I) THEN	00065000
27	WRITE(PRINT ,MCOPT[I]);	00066000
28	WRITE(PRINT[DBL]); WRITE(PRINT[DBL]);	00067000
29	END OF PRINTOPTIONS;	00068000
30	PROCEDURE FILLOPTIONS;	00069000
31	FILL OPTIONS[*] WITH	00070000
32	"CHECKLIN", "KS" ",%CHECKLINK	00071000
33	"DCPARRAY", " " ",%DCP	00072000
34	"DT" ", " ",%DEBUGGING	00073000
35	"EUG" ", " ",%DFX	00074000
36	"PRINTCOR", "E" ",%DUMP	00075000
37	"RESULTHO", "LDER" ",%SAVERESULTS	00076000
38	"SYSNO" ", " ",%SHAREDISK	00077000
39	"FILLSYST", "AT" ",%STATISTICS	00078000
40	"TNAQG" ", " ",%NOT TWXONLY	00079000
41	"NEXTAUXM", "EMWORD" ",%AUXMEM	00080000
42	"B6500FOR", "MATTER" ",%B6500LOAD	00080100
43	"DISPOSAL", " " ",%SEPTICTANK	00080200
44	"PSEUDO" ", " ",%PACKETS	00080300
45	"SETMONIT", "ORFILE" ",%MONITOR	00080400
46	"LAST";%NEVER USED	00081000
47	BOOLEAN STREAM PROCEDURE EQUAL(S,D);	00082000
48	BEGIN	00083000
49	SI:=S; DI:=D;	00084000
50	IF 16 SC=DC THEN TALLY:=1;	00085000
51	EQUAL:=TALLY;	00086000
52	END EQUAL;	00087000
53	PROCEDURE SETOPTIONS;	00088000
54	BEGIN	00089000
55	INTEGER I;	00090000
56	FOR I:=0 STEP 1 UNTIL MAXOPT-1 DO	00091000
57	IF NOT BITON(OPT,47-I) THEN	00092000
58	IF EQUAL(CARD[I],OPTIONS[2*I]) THEN	00093000
59	BEGIN	00094000
60	SETBIT(OPT,47-I);	00095000

	I:=MAXOPT+1;%FALL THRU	00096000
	END;	00097000
	END SETOPTIONS;	00098000
1	STREAM PROCEDURE MOVE(S,D,W); VALUE W;	00099000
2	BEGIN SI:=S; DI:=D; DS:= W WDS END;	00100000
3	PROCEDURE WRITEARRAY(A,WORDSIZE); VALUE WORDSIZE;	00101000
4	INTEGER WORDSIZE; ARRAY A(C);	00102000
5	BEGIN	00103000
6	STREAM PROCEDURE ZEROBUF(B); BEGIN DI:=B;30(DS:=8LIT"0") END;	00104000
7	INTEGER I,SEGS; ARRAY BUF(0:29);	00105000
8	SEGS:=((WORDSIZE+29) DIV 30) - 1;	00106000
9	FOR I:=0 STEP 1 UNTIL SEGS DO BEGIN	00107000
10	ZEROBUF(BUF);	00108000
11	MOVE(A[30×I],BUF,30);	00109000
12	WRITE(DISK,30,BUF[*]) END;	00110000
13	END WRITEARRAY;	00111000
14	BOOLEAN STREAM PROCEDURE SPACES(S);	00112000
15	BEGIN	00113000
16	LABEL EXIT;	00114000
17	SI:=S;	00115000
18	8(IF SC≠" " THEN JUMP OUT TO EXIT; SI:=SI+1);	00116000
19	TALLY:=1;	00117000
20	EXIT;	00118000
21	SPACES:=TALLY;	00119000
22	END SPACES;	00120000
23	INTEGER STREAM PROCEDURE ICV(S,T);	00121000
24	BEGIN	00122000
25	SI:=S; SI:=SI+4;	00123000
26	DI:=LOC ICV;	00124000
27	DS:=4 OCT;	00125000
28	SI:=S; DI:=T; SI:=SI+2; DS:=2 OCT;	00126000
29	END ICV;	00127000
30	REAL PROCEDURE OCTAL(N);	00128000
31	VALUE N;	00129000
32	INTEGER N;	00130000
33	OCTAL:=N.[45:3]&(IF N>7 THEN OCTAL(N.[24:21])ELSE 0)[3:9:39];	00131000
34	PROCEDURE SEQUENCE(ARRAY,LIM,INX,GRTR);	00132000
35	VALUE LIM;	00133000
36	ARRAY ARRAY(0);	00134000
37	INTEGER LIM,INX;	00135000
38	BOOLEAN GRTR;	00136000
39	BEGIN	00137000
40	INTEGER I,L;	00138000
41	STREAM PROCEDURE MOVE(S,D,D32,M32);	00139000
42	VALUE D32,M32;	00140000
43	BEGIN	00141000
44	SI:=S; DI:=D;	00142000
45	D32(DS:=32 WDS); D3:=M32 WDS;	00143000
46	END MOVE;	00144000
47	I:=LIM-1;	00145000
48	WHILE(INX:=I:=I-1)≥0 DO	00146000
49	BEGIN	00147000
50	ARRAY[LIM]:=ARRAY[I];	00148000
51	L:=0;	00149000
52	WHILE LIM>INX:=INX+1 AND GRTR DO L:=L+1;	00150000
53	IF L>0 THEN	00151000
54	BEGIN	00152000
55	MOVE(ARRAY[I+1],ARRAY[I],L.[37:6],L.[43:5]);	00153000
56	ARRAY[I+L]:=ARRAY[LIM];	00154000
57	END;	00155000

	END;	00156000
	END SEQUENCE;	00157000
	BOOLEAN PROCEDURE GREATER(ONE,TWO,NAMS);	00158000
1	VALUE ONE,TWO;	00159000
2	REAL ONE,TWO;	00160000
3	ARRAY NAMS[0];	00161000
4	BEGIN	00162000
5	INTEGER STREAM PROCEDURE COMPARISON(W1,W2);	00163000
6	BEGIN	00164000
7	LABEL UNEQ,EXIT;	00165000
8	SI:=W1; DI:=W2;	00166000
9	B(IF SC<DC THEN JUMP OUT TO UNEQ);	00167000
10	GO TO EXIT;	00168000
11	UNEQ:	00169000
12	SI:=SI-1; DI:=DI-1;	00170000
13	IF SC<DC THEN TALLY:=2 ELSE TALLY:=1;	00171000
14	EXIT:	00172000
15	COMPARISON:=TALLY;	00173000
16	END COMPARISON;	00174000
17	INTEGER L1,L2,L,A1,A2,A,C;	00175000
18	A1:=ONE.[33:15]; A2:=TWO.[33:15];	00176000
19	L:=MIN(L1:=ONE.[18:15],L2:=TWO.[18:15]);	00177000
20	IF L>0 THEN	00178000
21	WHILE L>A AND	00179000
22	(C:=COMPARISON(NAMS[A1],NAMS[A2]))=0 DO	00180000
23	BEGIN	00181000
24	A:=A+1;	00182000
25	A1:=A1+1;	00183000
26	A2:=A2+1;	00184000
27	END;	00185000
28	GREATER:=IF C=0 THEN L1>L2 ELSE C=1;	00186000
29	END GREATER;	00187000
30	PROCEDURE FILLARRAY(NAMS,NAME,NAMAX,NMSIMAX,STUFF,MCP);	00188000
31	VALUE MCP;	00188100
32	ARRAY NAMS,NAME[0];	00189000
33	INTEGER NAMAX,NMSIMAX;	00190000
34	FILE STUFF;	00191000
35	BOOLEAN MCP;	00191500
36	BEGIN	00192000
37	LABEL EOS;	00193000
38	INTEGER NMSI,NAMI,L,KLASS;	00194000
39	WHILE TRUE DO	00195000
40	BEGIN	00196000
41	READ(STUFF,4,CARD[*])[EOS];	00197000
42	IF MCP THEN	00197500
43	SETOPTIONS;	00198000
44	NAME[NAMI:=ICV(CARD,KLASS)-129]:=NMSI;	00199000
45	NAME[NAMI].[3:5]:=KLASS-1;	00200000
46	NAMAX:=MAX(NAMAX,NAMI);	00201000
47	L:=3;	00202000
48	WHILE SPACES(CARD[L]) DO L:=L-1;	00203000
49	NAME[NAMI].[18:15]:=L;	00204000
50	MOVE(CARD[1],NAMS[NMSI],L);	00205000
51	NMSI:=NMSI+L;	00206000
52	END;	00208000
53	EOS:	00209000
54	NMSIMAX:=NMSI;	00209500
55	IF MCP THEN TWXONLY:=REAL(NOT BOOLEAN(TWXONLY));	00209600
56	IF MCP AND AUXMEMM=1 THEN MONITORR:=0;	00209700
57	CLOSE(STUFF);	00210000

	END FILLARRAY;	00211000
	PROCEDURE SORTANDLIST(IMAX,NAME,NAMS);	00212000
	VALUE IMAX;	00213000
1	INTEGER IMAX;	00214000
2	ARRAY NAME,NAMS[0];	00215000
3	BEGIN	00216000
4	INTEGER I;	00217000
5	ARRAY ALFA[0:NAMESIZE-1]; ARRAY LINE[0:14];	00218000
6	FORMAT F(X8,2(X1,A4," : ",5X8));	00219000
7	FOR I:=0 STEP 1 UNTIL IMAX DO ALFA[I]:=I;	00220000
8	SEQUENCE(ALFA,IMAX:=IMAX+1,I,	00221000
9	GREATER(NAME[ALFA[IMAX]],NAME[ALFA[I]],NAMS));	00222000
10	IMAX:=IMAX-1;	00223000
11	IF NOLIST THEN ELSE	00223500
12	IF IMAX GTR INAMESIZE THEN PRINTOPTIONS;	00224000
13	FOR I:=0 STEP 1 UNTIL IMAX DO	00225000
14	BEGIN	00226000
15	IF NOLIST THEN NAME[I],[8:10]:=ALFA[I] ELSE	00226300
16	BEGIN	00226400
17	WRITE(LINE[*],F,OCTAL(I+129),OCTAL(ALFA[I]+129));	00227000
18	MOVE(NAMS[NAME[I],[33:15]],LINE[2],	00228000
19	NAME[I],[18:15]);	00229000
20	MOVE(NAMS[NAME[ALFA[I]],[33:15]],LINE[8],	00230000
21	NAME[ALFA[I]],[18:15]);	00231000
22	NAME[I],[8:10]:=ALFA[I];	00232000
23	WRITE(PRINT,15,LINE[*]);	00233000
24	END;	00233500
25	END;	00234000
26	END SORTANDLIST;	00235000
27	LEVEL:="XV.2 "; % 5 CHR - LEFT JUSTIFIED	00236000
28	FILLOPTIONS;	00237000
29	FILLARRAY(NAMS,NAME,PRTMAX,NAMSMAX,MCP,TRUE);	00238000
30	FILLARRAY(INAMS,INAME,INAMAX,INAMSMAX,INT,FALSE);	00239000
31	SORTANDLIST(PRTMAX,NAME,NAMS); WRITE(PRINT[PAGE]);	00240000
32	SORTANDLIST(INAMAX,INAME,INAMS);	00241000
33	PRTS[00]:=LEVEL;	00242000
34	PRTS[01]:=OPT;	00243000
35	PRTS[02]:=PRTMAX;	00244000
36	PRTS[03]:=NAMSMAX;	00245000
37	PRTS[04]:=INAMAX;	00246000
38	PRTS[05]:=INAMSMAX;	00247000
39	WRITEARRAY(PRTS,30);	00248000
40	WRITEARRAY(NAME,PRTMAX+1);	00249000
41	WRITEARRAY(NAMS,NAMSMAX);	00250000
42	WRITEARRAY(INAME,INAMAX+1);	00251000
43	WRITEARRAY(INAMS,INAMSMAX);	00252000
44	LOCK(DISK,*);	00253000
45	END.	00254000
46	END;END. LAST CARD ON OCRBING TAPE	99999999
47	00000000)x2A41YE	IF R,[25:8]=MASK,[25:8] OR K
48	EY=3 THEN " " ELSE 37000000 T 0078	0000000000000000)x2A41YD
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LABEL 00000000PRINTER00175100CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/TSFILL++0000000

OBJECT /READ

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