

SYMBOL/AUXTST

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

Data Documents/Inc.

33527

```

***** AUXMEM TEST ROUTINE *****
COMMENT: * TITLE: B5500/B5700 MARK XV.1 SYSTEM RELEASE * 00001000
          * FILE ID: SYMBOL/AUXTST TAPE ID:SYMBOL2/FILE000 * 00001110
          * THIS MATERIAL IS PROPRIETARY TO BURROUGHS CORPORATION * 00001111
          * AND IS NOT TO BE REPRODUCED, USED, OR DISCLOSED * 00001112
          * EXCEPT IN ACCORDANCE WITH PROGRAM LICENSE OR UPON * 00001113
          * WRITTEN AUTHORIZATION OF THE PATENT DIVISION OF * 00001114
          * BURROUGHS CORPORATION, DETROIT, MICHIGAN 48232 * 00001115
          * COPYRIGHT (C) 1972, 1973 BURROUGHS CORPORATION * 00001116
          * * * 00001117
          * * * 00001118
          * * * 00001119
          * * * 00002000
          * * * 00003000
          * * * 00004000
          * * * 00005000
          * * * 00006000
          * * * 00007000
          * * * 00008000
          * * * 00009000
          * * * 00010000
          * * * 00011000
          * * * 00012000
          * * * 00013000
          * * * 00014000
          * * * 00015000
          * * * 00016000
          * * * 00017000
          * * * 00018000
          * * * 00019000
          * * * 00020000
          * * * 00021000
          * * * 00022000
          * * * 00023000
          * * * 00024000
          * * * 00025000
          * * * 00026000
          * * * 00027000
          * * * 00028000
          * * * 00029000
          * * * 00030000
          * * * 00031000
          * * * 00032000
          * * * 00033000
          * * * 00034000
          * * * 00035000
          * * * 00036000
          * * * 00037000
          * * * 00038000
          * * * 00039000
          * * * 00040000
          * * * 00041000
          * * * 00042000
          * * * 00043000
          * * * 00044000
          * * * 00045000
          * * * 00046000
          * * * 00047000
          * * * 00048000
          * * * 00049000
          * * * 00050000

```

Data Documents/Inc.

	IF IOD= 6 THEN "OKA" ELSE	00051000
	IF IOD= 4 THEN "DRA" ELSE "XXX";	00052000
	STREAM(X,A:=RESULT,[25:8],MESSAGE);	00053000
1	BEGIN	00054000
2	SI:=LOC X; SI:=SI+5; DS:=3 CHR;	00055000
3	DS:=17 LIT" ERROR, RESULT= @";	00056000
4	SI:=SI+6; SKIP 3 SB;	00057000
5	3(DS:=3 RESET; 3(IF SB THEN DS:=SET	00058000
6	ELSE DS:=RESET; SKIP SB));	00059000
7	DS:=LIT"+";	00060000
8	END;	00061000
9	IO(MESSAGE,@7400000000000000,0);	00062000
10	IF IOD =10 THEN	00063000
11	BEGIN DO UNTIL P(RRR).[24:1] = 0;	00064000
12	DO UNTIL P(RRR).[24:1];	00065000
13	END ELSE	00066000
14	P(DES,R,ZP1,DEL,DEL);	00067000
15	END;	00068000
16	SAVE PROCEDURE AUXMEMIO(READ,CORE,ADDRESS,MASK);	00069000
17	VALUE READ,CORE,ADDRESS,MASK;	00070000
18	REAL READ,CORE,ADDRESS,MASK;	00071000
19	BEGIN	00072000
20	IO(CORE,0&READ[2:47:1]&UNIT[4:46:2]&ADDRESS[18:33:15]&[8:38:10],	00073000
21	MASK);	00074000
22	END;	00075000
23	SAVE PROCEDURE COMPAREPATTERNS;	00076000
24	BEGIN	00077000
25	INTEGER BIT;	00078000
26	REAL TESTWRD,NTEST;	00079000
27	LABEL FOUND;	00080000
28	TESTWRD:=M[P(.TESTWORD)].[1:47]; NTEST:=M[P(.INTEST)].[1:47];	00081000
29	IF (TESTWRD EQV NTEST) ≠ NOT 0 THEN	00082000
30	BEGIN	00083000
31	FOR BIT:=1 STEP 1 UNTIL 47 DO	00084000
32	BEGIN	00085000
33	IF TESTWRD THEN IF NTEST THEN ELSE GO FOUND ELSE	00086000
34	IF NOT NTEST THEN ELSE GO FOUND;	00087000
35	TESTWRD:=TESTWRD.[1:46]; NTEST:=NTEST.[1:46];	00088000
36	END;	00089000
37	FOUND:	00090000
38	STREAM(A:=I,BIT,MESSAGE);	00091000
39	BEGIN	00092000
40	SI:=LOC A; SI:=SI+5; SKIP 3 SB;	00093000
41	DS:=33 LIT"AUXMEM PATTERN ERROR - ADDRESS= @";	00094000
42	5(DS:=3 RESET; 3(IF SB THEN DS:=SET ELSE DS:=RESET;	00095000
43	SKIP SB));	00096000
44	DS:=7 LIT", BIT= "; DS:=2 DEC; DS:=LIT"+";	00097000
45	END;	00098000
46	IO(MESSAGE,SPU,0);	00099000
47	STREAM(A:=P(.TESTWORD),MESSAGE);	00100000
48	BEGIN	00101000
49	SI:=A; DS:=8LIT "WRITE: ";	00102000
50	2(DS:=LIT" "; 8(DS:=3 RESET; 3(IF SB THEN	00103000
51	DS:=SET ELSE DS:=RESET; SKIP SB));	00104000
52	DS:=LIT"+";	00105000
53	END;	00106000
54	IO(MESSAGE,SPU,0);	00107000
55	STREAM(A:=P(.INTEST),MESSAGE);	00108000
56	BEGIN	00109000
57	SI:=A; DS:=8LIT" READ: ";	00110000

Data Documents/Inc.

	2(DS:=LIT" "; 8(DS:=3 RESET; 3(IF SB THEN	00111000
	DS:=SET ELSE DS:=RESET; SKIP SB));	00112000
	END;	00113000
1	IO(MESSAGE, SPO, 0);	00114000
2	END ELSE	00115000
3	IF P(.TESTWORD, LCD, TOP, XCH, DEL) P(.INTEST, LUD, TOP, XCH, DEL) THEN	00116000
4	BEGIN	00117000
5	BIT:=48; GC FOUND;	00118000
6	END;	00119000
7	END;	00120000
8	SAVE PROCEDURE TESTAUXMEM;	00121000
9	BEGIN	00122000
10	FOR I:=0 STEP 1 UNTIL 32767 DO	00123000
11	BEGIN	00124000
12	AUXMEMIO(WRITE, P(.TESTWORD), I, 1);	00125000
13	AUXMEMIO(READ, P(.INTEST), I, 1);	00126000
14	COMPAREPATTERNS;	00127000
15	END;	00128000
16	END;	00129000
17	SAVE REAL PROCEDURE ECM;	00130000
18	BEGIN GO TO TIMER END;	00131000
19	TART @20: GO TO START;	00132000
20	TIMER @22:P(INI); GO TO TIMER; % TIME INTERVAL	00133000
21	@24:GO TO TIMER; % KEYBOARD REQUEST	00134000
22	@25:GO TO TIMER;	00135000
23	@26:GO TO TIMER;	00136000
24	@27:P(@14, LUD, RTN); % I/O #1 FINISHED	00137000
25	@30:P(@15, LOD, RTN); % I/O #2 FINISHED	00138000
26	@31:P(@16, LOD, RTN); % I/O #3 FINISHED	00139000
27	@32:P(@17, LOD, RTN); % I/O #4 FINISHED	00140000
28	@34:GO TO TIMER; % INQUIRY REQUEST	00141000
29	START:** P(64, STS);	00142000
30	CORE+P(.ECM, LOD), [33:15]+3; % INITIALIZE DESC	00143000
31	STREAM(CORE); % ZERO 1024 WORDS	00144000
32	BEGIN DS+8 LIT"0"; SI:=CORE;	00145000
33	32(DS+32 WDS);	00146000
34	END;	00147000
35	MESSAGE := CORE;	00148000
36	CORE:=CORE+100;	00149000
37	***** MAIN LOOP *****	00150000
38	ENTERUNIT:;	00151000
39	ERRTOG:=0;	00152000
40	STREAM(MESSAGE); DS:=29 LIT"ENTER AUXMEM UNIT, DRA OR DRB*";	00153000
41	IO(MESSAGE, SPO, 0);	00154000
42	IO(MESSAGE, SPO&READ[24:47:11, 0];	00155000
43	STREAM(A:=0; B:="DRADRB ", MESSAGE);	00156000
44	BEGIN	00157000
45	SI:=MESSAGE; DI:=LOC B; DI:=DI+1;	00158000
46	IF 3 SC=DC THEN TALLY:=1 ELSE	00159000
47	BEGIN SI:=MESSAGE; IF 3 SC=DC THEN TALLY:=2 END;	00160000
48	A:=TALLY;	00161000
49	END;	00162000
50	IF P(UNIT:=P, DUP) DRA AND P(XCH) DRB THEN GO ENTERUNIT;	00163000
51	STREAM(A:=IF UNIT THEN "DRA" ELSE "DRB", MESSAGE);	00164000
52	BEGIN	00165000
53	SI:=LOC A; SI:=SI+5; DS:=3 CHR;	00166000
54	DS:=16 LIT" WILL BE TESTED*";	00167000
55	END;	00168000
56	IO(MESSAGE, SPO, 0);	00169000
57	***** -TEST INTERROGATE PERIPHERAL STATUS- *****	00170000

Data Documents/Inc.

33525

```

IF (UNIT AND (I:=P(KRR)).[30:2])=0 THEN % UNIT NOT READY      00171000
BEGIN                                                           00172000
  STREAM(A:=I,MESSAGE);                                       00173000
  BEGIN                                                         00174000
    SI:=LOC A;                                                 00175000
    DS:=42 LIT"INTERROGATE PERIPHERAL STATUS ERROR, RES =";  00176000
    2(DS:=LIT" "; 8(DS:=3 RESET; 3(IF SB THEN DS:=SET ELSE    00177000
      DS:=RESET; SKIP SB)));                                  00178000
    DS:=LIT"+";                                               00179000
  END;                                                         00180000
  IO(MESSAGE,SPO,0);                                          00181000
  GO ENTERUNIT;                                              00182000
END ELSE                                                       00183000
BEGIN                                                         00184000
  STREAM(MESSAGE);                                           00185000
  DS:=45 LIT"INTERROGATE PERIPHERAL STATUS OPERATOR IS OK+"; 00186000
  IO(MESSAGE,SPO,0);                                          00187000
END;                                                           00188000
%%%%% -TEST DETERMINATION- %%%%%%                             00189000
ASKTEST:                                                       00190000
  STREAM(MESSAGE);                                           00191000
  DS:=33 LIT"READ-ONLY TEST DESIRED, YES OR NO+";           00192000
  IO(MESSAGE,SPO,0);                                          00193000
  IO(MESSAGE,SPO&READ[24:47:1],0);                           00194000
  STREAM(A:=0:B:="YESNO ",MESSAGE);                          00195000
  BEGIN                                                         00196000
    SI:=MESSAGE; DI:=LOC B; DI:=DI+1;                         00197000
    IF 3 SC=DC THEN TALLY:=1 ELSE                             00198000
    BEGIN SI:=MESSAGE; IF 2 SC=DC THEN TALLY:=2 END;         00199000
    A:=TALLY;                                                 00200000
  END;                                                         00201000
  IF (I:=P) THEN                                              00202000
  %%%%% -BEGIN READ-ONLY TEST- %%%%%%                          00203000
  BEGIN                                                         00204000
    STREAM(MESSAGE);                                         00205000
    DS:=25 LIT"BEGINNING READ-ONLY TEST+";                    00206000
    IO(MESSAGE,SPO,0);                                        00207000
    FOR I:=0 STEP 1 UNTIL 32767 DO                             00208000
    AUXMEMIO(READ,P(.INTEST),1);                               00209000
    STREAM(ERR:=ERRTOG,MESSAGE);                               00210000
    BEGIN                                                       00211000
      DS:=30 LIT"READ-ONLY TEST COMPLETE... NO ";           00212000
      ERR(DI:=DI-3); DS:=6 LIT"ERRORS";                       00213000
      ERR(DS:=12 LIT" ENCOUNTERED"); DS:=LIT"+";             00214000
    END;                                                       00215000
    IO(MESSAGE,SPO,0);                                        00216000
    GO ENTERUNIT;                                            00217000
  END ELSE IF I<2 THEN GO TO ASKTEST;                          00218000
  %%%%% -BEGIN PATTERN TESTS- %%%%%%                           00219000
  STREAM(MESSAGE);                                           00220000
  DS:=24 LIT"BEGINNING PATTERN TESTS+";                       00221000
  IO(MESSAGE,SPO,0);                                          00222000
  TESTWORD:=0; % PATTERN #1                                    00223000
  TESTAUXMEM;                                                 00224000
  TESTWORD:=FLAG(@3777777777777777); % PATTERN #2           00225000
  TESTAUXMEM;                                                 00226000
  TESTWORD:=@2525252525252525; % PATTERN #3                  00227000
  TESTAUXMEM;                                                 00228000
  TESTWORD:=FLAG(@1252525252525252); % PATTERN #4           00229000
  TESTAUXMEM;                                                 00230000

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

STREAM(ERR:=ERRTCG,MESSAGE);
BEGIN

00231000

DS:=29 LIT"PATTERN TESTS COMPLETE... NO ";

00232000

ERR(DI:=DI-3); DS:=6 LIT"ERRORS";

00233000

ERR(DS:=12 LIT" ENCOUNTERED"); DS:=LIT"+";

00234000

END;

00235000

IO(MESSAGE,SPO,0);

00236000

GO ENTERUNIT;

00237000

END.

00238000

00239000

Data Documents/Inc.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

LABEL 000000000PRINTER0017510000 EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/AUXTST++

OBJECT /READ

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

Data Documents/Inc.

33524