

PRS01

TOGGLE IN TEST PROG.
MD-11-DZPRB-A

EP-DZPRB-A-DL-A
COPYRIGHT © 1977
FICHE 1 OF 1

JUN 1977
digital
MADE IN USA

B01

EOF1DV0VASEQ

00010000

770608

PDP10 411

IMH0R1DZPRBASEQ

00010000

770608

CO1

.MAIN. MACY11 27(1006) 27-APR-77 10:45 PAGE 1
DZPRBA.P11 20-APR-77 10:09

000000

.REPT 0

IDENTIFICATION

PRODUCT CODE: MAINDEC-11-DZPRB-A-D
PRODUCT NAME: PRS01 TOGGLE IN PROGRAM FOR DL11
DATE: APRIL 1977
MAINTAINER: DIAGNOSTIC ENGINEERING
AUTHOR: JOHN COMEAU

THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL EQUIPMENT CORPORATION ASSUMES NO RESPONSIBILITY FOR ANY ERRORS THAT MAY APPEAR IN THIS MANUAL.

THE SOFTWARE DESCRIBED IN THIS DOCUMENT IS FURNISHED TO THE PURCHASER UNDER A LICENSE FOR USE ON A SINGLE COMPUTER SYSTEM AND CAN BE COPIED (WITH INCLUSION OF DIGITAL'S COPYRIGHT NOTICE) ONLY FOR USE IN SUCH SYSTEM, EXCEPT AS MAY OTHERWISE BE PROVIDED IN WRITING BY DIGITAL.

DIGITAL EQUIPMENT CORPORATION ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT THAT IS NOT SUPPLIED BY DIGITAL.

COPYRIGHT (C) 1977, BY DIGITAL EQUIPMENT CORPORATION

.ENDR

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

001

.MAIN. MACY11 27(1006) 27-APR-77 10:45 PAGE 2
DZPRBA.P11 20-APR-77 10:09

56			
57	001000		
58	177560		
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69	001000	012703	177560
70	001004	012702	001040
71	001010	005004	
72	001012	005012	
73	001014	105713	
74	001016	100376	
75	001020	016300	000002
76	001024	001772	
77	001026	105312	
78	001030	005204	
79	001032	020012	
80	001034	001767	
81	001036	000000	
82		000001	

```

.ABS
=1000
RBUF=177560
THIS IS THE TOGGLE IN TEST ROUTINE FOR THR PRS01 CONNECTED WITH A DL11.
IT EXPECTS A TAPE CONSISTING OF NULLS
FOLLOWED BY A DECREMENTING PATTERN STARTING WITH 377 AND ENDING WITH 1,
FOLLOWED BY MORE NULLS
THE ROUTINE WILL HALT AT LOCION "ERROR" IF IT DETECTS
A BAD CODE OR A DL11 ERROR BIT
WHEN THE PROGRAM HALTS, LOCATION 1040 WILL HOLD THE VALUE OF THE
CHARACTER EXPECTED. R0 WILL HOLD THE VALUE OF THE CHAR ACTUALLY GOTTEN
BEFORE RUNNING THIS PROGRAM MAKE SURE THAT
LOCATION 1002 CONTAINS THE DL11 CONTROL/STATUS REGISTER ADDRESS
START:  MOV    R3,RBUF      ;SETUP THE ADDRESS OF THE DL11 BUFFER REGISTER
        MOV    R2,RBUF+2    ;SETUP ADDRESS OF CODE WE EXPECT
        CLR    R4           ;ZERO COUNT OF NON-ZERO CHARS
1$:     CLR    (R2)         ;SET THE CODE WE SHOULD EXPECT TO 0
3$:     TSTB   (R3)         ;GOT A CHAR FROM THE DL11 YET?
        BPL    3$          ;IF NOT, GO BACK AND WAIT FOR ONE
        MOV    R0,(R3),R0  ;YES, GOT A CHAR. TAKE IT FROM THE DL11 BUFFER REG
        BEQ    1$          ;IF ITS A NULL GO BACK AND GET THE NEXT CHAR
        DECB   (R2)        ;NOT A NULL. DECREMENT THE EXPECTED VALUE
        INC    R4          ;ADD 1 TO THE COUNT OF NON-ZERO CHARS
        CMP    R0,(R2)     ;IS WHAT WE GOT, WHAT WE EXPECTED TO GET?
        BEQ    3$          ;IF SO, GO BACK AND KEEP TESTING
        HALT   ERROR:     ;NO. CODE WE GOT AND CODE EXPECTED ARE DIFFERENT
.END

```

E01