

**DataGeneral**

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**TECHNICAL  
STATEMENT**

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TEXT LISTING

068-000241-04

PROGRAM

EXERCISER FOR ECLIPSE  
PART 3

TEXT TAPE

097-000241-04

ABSTRACT

'ECLIPSE20' IS AN EXERCISER PROGRAM USED TO TEST THE RELIABILITY OF THE CENTRAL PROCESSOR INSTRUCTIONS OF THE ECLIPSE COMPUTER. 'ECLIPSE20' EXERCISES THE EXTENDED INSTRUCTIONS OF THE ECLIPSE EXTENSIVELY AND ASSURES OF ITS RELIABLE OPERATION.

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0001 ECL20          MACRO REV 06.30          07:56:12 05/16/79
01
02          .TTL      ECL20
03          :FCLPSE20
04          :
05          :ECLIPSE20 = CONTINUATION OF ECLIPSE11
06          :
07          :PART 3 OF EXERCISER FOR ECLIPSE
08          :
09          : 0.0  REVISION HISTORY
10          :
11          :  REV. 03 WAS CREATED TO
12          :  IMPLEMENT THE STANDARDS PROVIDED
13          :  BY DLIB.
14          :  THIS HAS NOT CHANGED THE PHILOSOPHY
15          :  OR TEST PROCEDURES IN THIS PROGRAM.
16          :  ALL UNNECESSARY "TORST" HAVE BEEN
17          :  DELETED FROM THIS FILE.
18          :
19          :  REV. 04 WAS CREATED TO CORRECT THE MMPUI
20          :  WRAP AROUND SIZING PROBLEM.
21          :  ALSO, TO CLEAR DTR # 244.
22          :
23          :
24          :
25          :
26          :

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10002 ECL20
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:*****
: NAME: ECLIPSE20.TX          PART NUMBER: 097-000241
:
: DESCRIPTION: ECLIPSE EXERCISER, PART 3
:
: REVISION HISTORY:
:
: REV.      DATE
: 00      06/02/74
: 01      12/20/74
: 02      05/06/76
: 03      10/05/78
: 04      11/17/78
:
:
: COPYRIGHT © DATA GENERAL CORPORATION, 1974, 1976, 1978
: ALL RIGHTS RESERVED.
:*****

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10005 ECL20

```
01 OPERATING PROCEDURE/OPERATOR INPUT
02 -----
03
04
05 :5.1 LOAD THE PROGRAM VIA THE RTNARY LOADER OR INSERT A
06 : PRELOADED MEMORY MODULE.
07 : SET SWITCHES TO 200.
08 : PROGRAM WILL HALT AFTER PRINTING THE MESSAGE
09 : 'SET DATA SWITCHES AND PRESS CONTINUE'.
10 : SET REQUIRED SWITCH SETTINGS AND PRESS CONTINUE.
11 : THE PROGRAM WILL RUN UNTIL MANUALLY STOPPED. IN CASE
12 : OF MALFUNCTIONING, THE PROGRAM WILL PRINT ERROR
13 : MESSAGE AND TAKE APPROPRIATE ACTION AS PER THE SW
14 : SETTINGS.
15 :
16 : PROGRAM OUTPUT/ERROR DESCRIPTION
17 : -----
18 :
19 :
20 :6.1 FOR ANY ERRORS DETECTED, THE PROGRAM WILL PRINT ERROR
21 : REPORT OR % FAILURES DEPENDING UPON THE SW SETTINGS.
22 : ERROR REPORT CONSISTS OF ALL ACCUMULATORS, CARRY,
23 : RELOCATED PROGRAM COUNTER OF THE TEST THAT IS FAILING
24 : AND PC IN THE LISTING AT THE TIME OF FAILURE.
25 :6.3 THE PROGRAM WILL LOOP IN THE TEST THAT IS FAILING IF
26 : SW'1 IS 0.
27 :6.4 THE PRINTING OF ERROR REPORT CAN BE ABORTED BY SETTING
28 : SW'2" TO 1.
29 :6.5 IF LOOPING OCCURS IN THE PROGRAM, STOP THE COMPUTER
30 : AND CHECK LOCATION 201 TO FIND OUT THE TEST THAT WAS
31 : RUNNING BEFORE THE LOOPING OCCURRED.
32
```

10006 tCL20

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01
02
03
04
05 :7.1 EACH TEST IS COMPLETE IN ITSELF, SO THE PROGRAM CAN
06 : BE STARTED FROM ANY TEST WITHOUT CAUSING ANY
07 : INITIALIZATION ERRORS.
08 : WHEN 'ECLIPSE20' IS STARTED AT LOCATION 200 OR BY
09 : DTOS, IT WILL SIZE UP THE MEMORY AND WILL PRINT
10 : THE TOP OF THE MEMORY.
11 : AFTER SETTING UP THE SWITCHES AND PRESSING CONTINUE,
12 : THE EXERCISER WILL RUN THE FIRST PASS VERY FAST. IN
13 : THE FIRST PASS EACH TEST IS RUN ONLY ONCE. ALL OTHER
14 : PASSES WILL TAKE MORE TIME AS EACH TEST IS RUN
15 : ACCORDING TO THE TEST COUNT SPECIFIED IN EACH TEST.
16 : REFER TO THE LISTING TO FIND OUT THE INFORMATION
17 : ABOUT EACH TEST.
18 :
19 :
20 :8. RESTRICTIONS/MISC
21 : -----
22 :
23 : CERTAIN INSTRUCTIONS LIKE RLM, XCT, RAM, ETC.,
24 : DO ALLOW INTERRUPTS TO OCCUR DURING THEIR
25 : EXECUTION. THIS FEATURE OF THOSE INSTRUCTIONS IS
26 : NOT CHECKED IN THIS TEST.
27 :
28
29 :.EOT
```

0007 ECL20

\*\*00000 TOTAL ERRORS. 00000 PASS 1 ERRORS