FOR BOCHEM.
RICHARD WRENN

IDENTIFICATION

PRODUCT CODE:

MAINDEC-Ø8-DIDFC-A-D

REPLACES MAINDEC-Ø8-D5CG

PRODUCT NAME:

DF32/DF32D DISK DATA MINI DISK,

INTERFACE ADDRESS, DATA TEST

DATE:

MARCH 26, 1973

MAINTAINER:

DIAGNOSTIC GROUP

AUTHOR:

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ED FORTMILLER

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Maynard, Massachusetts

ADDENDUM

1. With an ASR 37 (15 CPS TTY) change following locations

loc 5773 from 7635 to 7553 loc 3155 from 4611 to 3133 loc 3156 from 3200 to 4652

1. ABSTRACT

The DF32/DF32D Disk Data is a complete test of the disk system. Also included is a short processor test that is executed while waiting for interrupts, and during data breaks.

2. REQUIREMENTS

2.1 Equipment

PDP-8, PDP-8/S, PDP-8/I, PDP-8/L, or PDP-8/E

If PDP-8/S, DATA BREAK INTERFACE

DF32 or DF32D DISK LCGIC

1 to 4 disks.

2.2 Storage

2.2.1 Program Storage - The program uses most of memoryCO00 through 7400

7000 to 7177 is the out buffer storage.
7200 to 7377 is the in buffer storage.

3. LOADING PROCEDURES

3.1 Method

Procedures for normal binary tages should be followed.

4. STARTING PROCEDURES

4.1 Control Switch Settings

For normal operation, all switches should be 0s 4down).

4.2 Starting Address

100 is the starting address for DF32/DF32D Disk Data,

(cont)
the program will print as initial printout of
"RPM XXXX SYNC TIME = XXXX MICRO SECS", and upon
completion of a pass, "PCXX", then will loop to
start of program.

4.3 Program and/or Operation Action

Load Disk Data Test into memory.

Select EMO (All other units to OFF).

Write inhibit switches OFF.

Set the SWITCH REGISTER to 100. (77 for the PDP-8/s)

Load Address.

Set the SWITCH REGISTER to all 0's or 9992 for 50 cycle.

Press START

Program will run and loop upon completion. The only printout that should occur are "RPMXXXX SYNC TIME = XXXX MICRO SECS" and "PCXX".

for fower

REMEMBER

TO TURN

THE PICKER

INTERFACE TO MANUAL

OPERATING PROCEDURE

5.1 Operational Switch Settings

SWO UP Delete Printouts. Toe Ceff

SW1 UP Halt after error.

SW2 UP Subtest scope loop.

SW3 UP Do not exit section.

SW1Ø UP 50 cycle.

SWll UP Trace (Type starting address of each TEST as the program enters it).

5.1.1 Special Entrance Address

101 Address Test (slow).

102 Track Decode Test.

103 Track Error Ratio Test.

104 Data Break Test.

-2-

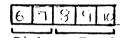
5700

- 105 Data Test.
- 106 Read Recovery Time Test. (NOT USED ON PDP-8/S)
- 107 Disk Write Current Saturation Test.
- 110 Random, Disk, Track, Address and Data Test.

5.1.2 Special Scope Loops

- 111 Scope loop for Data Failure, automatic setup.
- 112 Write one word SR = Disk Address. (Address Test)
- 113 Read one word SR = Disk Address. (Address Test)
- 115 Data Test.

1st halt SR 6 to 10 = disk and track selections.



2nd halt SR = Disk Address. Disk

3rd halt SR = Data with bell on error.

Routine will monitor SR for data.

5.1.3 Track Scope Loops

116 Writes track. Press START.

- 120 Write/Read track.

1st hait Load data in SR. Press CONTINUE.

2nd halt SR 6 to 11 = disk and track selection.