

DataGeneral

**TECHNICAL
STATEMENT**

TEXT LISTING

068-000189-05

PROGRAM

CARD READER TEST

TEXT TAPE

097-000189-05

ABSTRACT

THE CARD READER TEST IS A MAINTENANCE PROGRAM DESIGNED TO TEST THE TYPE 4016 CARD READER. THE PROGRAM READS AND CHECKS THE DATA FROM A TEST DECK OF 80 COLUMN HOLLARITH CARDS.

0001 CDROR MACRO REV 06.30 11:50:41 02/15/79 10002 CDROR .TITL CDROR.SR

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NAME: CDROR.TX PART NUMBER: 097-000189
DESCRIPTION: CARD READER TEST
REVISION HISTORY:
REV. DATE
00 03/12/70
01 10/24/72
02 09/06/74
03 07/03/75
04 04/02/76
05 06/18/76

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CARD READER TEST
***** ECLIPSE COMPATIBLE RUN MODIFIED 6/20/75
***** AUTO-RUN AUTO LOAD MODIFIED 1/31/72
ABSTRACT
CARD READER TEST IS A MAINTENANCE PROGRAM
DESIGNED TO TEST THE TYPE 4016 CARD READER.
THE PROGRAM READS AND CHECKS THE DATA FROM
A TEST DECK OF 80 COLUMN HOLLARITH CARDS.
MACHINE REQUIREMENTS
NOVA, SUPERNOVA, OR ECLIPSE PROCESSOR
2K READ/WRITE MEMORY
TELETYPE OR CRT DISPLAY
TYPE 4016 CARD READER
DECK OF TEST CARDS
SWITCH SETTINGS
STARTING ADDRESS =000002 OR 200
SWITCH 1(1) =PROCEED FROM _RPJR
SWITCH 2(1) =INHIBIT TTY OUTPUT
SWITCH 3(1) =PRINT FAILURE RATE
SWITCH 5(1) =OUTPUT TO LPT
SWITCH 7(1) =INHIBIT ERROR PC PRINTOUT
OPERATING PROCEEDURE
NOTE: WHEN IT IS DESIRED TO START THE PROGRAM AT A
GIVEN ADDRESS AND ALSO HAVE A GIVEN CONFIGURATION
OF DATA SWITCHES SET UPON STARTING,DO THE FOLLOWING:
ENTER THE STARTING ADDRESS IN DATA SWITCHES,PRESS
"EXAMINE",RESET ALL DATA SWITCHES EXCEPT THOSE
DESIRED TO BE SET,PRESS "CONTINUE"
LOAD THE PROGRAM VIA THE BINARY LOADER,DTOS,
OR DDOS SYSTEMS,SET SWITCHES TO 200
LOAD THE TEST DECK PRINTED SIDE
DOWN, 12 EDGE OUT.
PRESS CARD READER POWER ON
PRESS CARD READER MOTER ON
PRESS CARD READER START
PRESS START ON THE COMPUTER
IF NO ERRORS ARE DETECTED THE TEST DECK
SHOULD READ UNTIL THE HOPPER IS EMPTY.
PROGRAM OUTPUT/ERROR DESCRIPTION
SOME OF THE TEST ROUTINES DO NOT REQUIRE
THE READING OF A CARD. ERRORS DETECTED VIA
THESE ROUTINES WILL HALT AT LOCATION ERROR1,
AC3 WILL CONTINUE THE LOCATION OF THE ERROR.
PRESSING CONTINUE WILL CAUSE A SCOPE LOOP
CONTROLLED BY SWITCHES 1 AND 3.
STATUS BIT ERRORS DETECTED DURING THE PRO-
CESS OF READING A CARD WILL BE SAVED FOR
PRINTOUT WHEN THE READING OF THE CARD IS
COMPLETE. THE DIAGNOSTIC MESSAGE IS

0003 CDRDR

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"ERROR AT XXXX" WHERE XXXX IS THE ADDRESS AT WHICH THE ERROR WAS DETECTED. ONLY THE FIRST ERROR DETECTED IS SAVED. THE DATA FROM THE CARD IS NOT CHECKED.

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15.3 ;
; IF NO STATUS BIT ERRORS WERE DETECTED THE DATA FROM THE CARD IS CHECKED. THE ERROR MESSAGE CONTAINS THE FAILING COLUMN, THE GOOD DATA IF IT IS KNOWN, THE DATA FROM THE CARD, AND A PARITY ERROR IF ONE IS PRESENT. PARITY IS CHECKED BY SOFTWARE FROM THE 12 DATA BITS READ.

16. ;
16.1 ;
; PROGRAM DESCRIPTION
; THE TEST DECK CONSISTS OF ODD PARITY PSEUDO RANDOM NUMBERS PUNCHED IN EACH OF 80 COLUMNS. THE DATA IN COLUMN 2 IS A FUNCTION OF THE DATA IN COLUMN 1, COLUMN 3 IS A FUNCTION OF COLUMNS 2, ETC.
16.2 ;
; THE PROGRAM EXAMINES THE DATA FROM COLUMN 1 AND IF NO PARITY ERROR EXIST THIS DATA INITIALIZES THE RANDOM NUMBER GENERATOR FOR THE REMAINDER OF THE CARD. IF COLUMN 1 CONTAINS A PARITY ERROR, THE FIRST COLUMN WITHOUT AN ERROR WILL INITIALIZE THE RANDOM NUMBER GENERATOR FOR THE FOLLOWING COLUMNS. IT IS THEREFORE POSSIBLE FOR THE ERROR PRINTER TO OMIT THE PRINTING OF GOOD DATA SINCE IT IS NOT YET KNOWN.
16.3 ;
; THE ORDER OF THE CARDS IN THE TEST DECK IS NOT IMPORTANT.

17. ;
; MISC IN TESTING CARD READER DEVICE SELECTION
; START PULSES ARE ISSUED TO DEVICES 17,14,12,6,36 AND 56.

.EOT

0005 CDRDR

**00000 TOTAL ERRORS, 00000 PASS 1 ERRORS