

MAINDEC: -08-DIRXB-D-D

TITLE: -RX8/RXM1 DATA RELIABILITY/EXERCISER PROGRAM

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MAINTAINER: -DIAGNOSTIC ENGINEERING

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1. ABSTRACT
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THIS PROGRAM IS DESIGNED FOR THE COLLECTION OF STATISTICAL INFORMATION PERTAINING TO THE DATA RELIABILITY OF THE DISKETTE DRIVE(S) THAT ARE ASSOCIATED WITH THE RX01 DISKETTE MICROPROCESSOR CONTROLLER, AND RX8 INTERFACE.

THE CATEGORIES OF STATISTICAL INFORMATION ACCUMULATED ARE:

- (A) COMPLETED PASSES OF THE PROGRAM
- (B) PROGRAM RESTARTS (BOTH MANUAL AND PROGRAMMED AUTOMATIC)
- (C) INTERUM STATISTICAL REPORTS
- (D) RECOVERABLE AND NON-RECOVERABLE (PER DISKETTE) OF:
 - (1) WRITE ERROR
 - (2) READ ERROR
 - (3) CRC AND DATA ERROR
 - (4) NO CRC BUT DATA ERROR
 - (5) CRC BUT NO DATA ERROR
 - (6) SEEK ERROR
 - (7) PARITY ERROR
- (E) TOTAL WRITES/READS (PER DISKETTE)
- (F) TRACK ACCESS (ACTUATOR MOVEMENTS TO THAT TRACK)
- (G) SELF ACCESS (WITH NO ACTUATOR MOVEMENTS TO THAT TRACK)
- (H) ALL ERRORS (PER TRACK/PER DISKETTE) EXCLUDING "UNEXPECTED" CONTROL FAILURES WHICH RESTARTS THE PROGRAM:
 - (1) UNEXPECTED RX01 INTERRUPT REQUEST
 - (2) MISSING ERROR FLAG
 - (3) DEVICE TEST HUNG

REVISION D

THIS REVISION CONTAINS THE CODE FOR THE CONSOLE PACKAGE. THE CODE FOR SELECTING THE DEVICE CODES FOR THE CONTROLLER HAS BEEN CHANGED TO ALLOW DEVICE CODE SELECTION VIA SWITCH REGISTER SETTINGS. INTERFACES FOR THE APT-8 SYSTEM HAVE BEEN PROVIDED ALLOWING THIS DIAGNOSTIC TO RUN UNDER APT-8. THE REAL TIME CLOCK ROUTINE AND ANY DECIMAL ROUTINES HAVE BEEN DELETED TO CONSERVE SPACE.

2. REQUIREMENTS
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2.1 EQUIPMENT
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A PDP-8/E TYPE GENERATION COMPUTER WITH 4K OF CORE, CONSOLE SWITCHES, TELETYPE, AND AN RX01 DISKETTE SUBSYSTEM.