

MAYNDEC-11-D6E-

NEW NUMBER = DZAFB

AFC11 Diagnostic

ABSTRACT

This program is a diagnostic and exerciser for the AFC-11 low level analog multiplexer system. The program is composed of four sections:

1. AFC-11 Interface Logic Test
2. AFC-11 Data Repeatability Test
3. Calibration and Adjustment Routines
4. Data Collection Routines

REQUIREMENTS

PDP-11 with ASR-33 Teletype (or equivalent)
 Adjustable precision voltage source, EDC MV100M, or equivalent
 Oscilloscope, Tektronix 453 or equivalent with direct probes
 Digital test cable must be installed
 Triangle wave generator, WAVETEC VCG 111, or equivalent
 (Optional - required to monotonicity test)

STORAGE = Requires 4K of memory and will use up to 8K if available

LOADING = Absolute Loader

STARTING PROCEDURE

Load Address 200
 Clear Switches
 Press Start Key

The program will respond by typing "AFC-11 DIAGNOSTIC XXXX CHANNELS CAN BE TESTED *A=D LENGTH!" The program will wait for the operator to enter the number of data bits (not including sign) of the A/D converter followed by altmode. When this has been done, the program will type "," to indicate that it has entered the keyboard monitor mode.

XXXX = Maximum number of channels that can be tested sequentially by the data repeatability test.

Type Logic (ALTMOD)

Program will begin execution of logic test. Program types logic at end of pass.

EXECUTION TIME = Approximately 3 min, for 2 typeouts of logic

PRINTOUTS = Yes

SWITCH REGISTER OPTIONS = Yes