

NEW NUMBER = DZDLA

ABSTRACT =

Two separate diagnostic programs are provided for the DL11-E (Asynchronous Modem Interface), MAINDEC=11-DZDLA=A (DL11-E off line tests) and MAINDEC=11-DZDLB=A (DL11-E on line tests). The off line test tests all DL11-E logic. The off line tests do not require the use of a modem. However, a special jumper connector H315 is required. The on line tests are essentially data reliability tests requiring the use of modems and a suitable terminal device.

The DL11-C and DL11-D can also be tested with this off line test, these are both tested in maintenance mode and only those tests marked C,D in the test number are executed. In order to test C and D versions it is necessary to modify the table at location 1300 according to the instructions contained there.

Tests which are not executed for DL11-C/D can be performed by using the select switch option (SR9). Test 56 is a data test which can be used for cable testing DL11-D's - Warning - A failure in this test may occur due to a split baud rate of RCVR/TXVR.

This document describes the off line tests;
The available tests are:

Prog. 0	Input/output logic tests
Prog. 1	Transmitter scope loop
Prog. 2	Receiver scope loop
Prog. 3	Single character maint; mode data test
Prog. 4	Special binary count maintenance mode data test

REQUIREMENTS =

PDP=11, DL11-E or DL11-C or DL11-D, Special Jumper connector H315 if DL11-E

STORAGE = Program uses all of core (4K) except that area reserved for the bootstrap and absolute loaders.

LOADING = Absolute Loader

EXECUTION TIME = Dependent on number of DL11's in system.

STARTING PROCEDURE = Load address at 000200

PRINTOUTS = Yes

SWITCH REGISTER OPTIONS = Yes

SR 0	= 6 ROUTINE TO BE RUN (IF ENABLED BY SR9)
SR 7	DISABLE STALL MODE

SR 9 LOOP SELECTED ROUTINE
SR10 HALT AT END OF CURRENT TEST
SR11 INHIBIT ITERATION
SR12 SELECT LINE NUMBER AND LOCK ON IT
SR13 INHIBIT PRINTOUT
SR14 SCOPE
SR15 HALT ON ERROR