

NEW NUMBER = DZLPC

## Laboratory Peripheral System Diagnostic Test I

## ABSTRACT

This diagnostic tests and exercises the "LPS". The program is self-starting and when loaded will type out the program title. A sentence is then typed giving the letter designators to be typed to run any one of the seven (7) separate tests of which this program is comprised the program then types a "CR" and then waits in a keyboard monitor mode for a letter to be typed. Although these tests may be run in any order it is imperative that the logic tests are run first and proved fully operational. The program is set up to give the operator as much control over the program as possible via the teletype typing a "G" (obtained via typing the "CNTR" and "C" keys simultaneously), while running any test will enable the program to return to the keyboard monitor and await a new letter designator to be typed typing a "A" while in monitor mode will enable the letter designators to be retyped.

## REQUIREMENTS

1. PDP-11
2. Teletype
3. LPS11 option box with
  - LPSAD12 simple A to D control and
  - LPSADNP DMA A to D control and/or
  - LPSAH dual sample and hold control.

STORAGE = 0 - 17500

LOADING = Absolute Loader

EXECUTION TIME = 1 minute for Logic Test

STARTING PROCEDURE = Program is self-starting with a restart address of '174 re-initialization address of '200'

- 204 A = D Logic Test
- 210 DMA Logic Test
- 214 Dual sample logic
- 220 A = D Calibration test

PRINTOUTS = Yes

SWITCH REGISTER OPTIONS = Yes

- SW15 = HALT ON ERROR
- SW14 = SCOPE LOOP
- SW13 = INHIBIT PRINTOUTS
- SW11 = INHIBIT ITERATION