

NEW NUMBER - DBKTC

KT11-D Exercises

ABSTRACT

This program is an interactive exerciser for a PDP-11/40 equipped with the KT11-D option. It performs a test of instructions and concurrent operations of I/O equipment while relocating thru memory. It provides numerous modes of testing, from 4K execution with the KT11-D turned off and only kernel mode in use, to 124K execution with each user page mapped sequentially to every 4K bank of memory, TC11 and RF11 buffer and code relocation thru all memory. This program is not to be considered a total check of the system. If an error is detected in an I/O device, it will probably be necessary to correct the malfunction with the respective diagnostic for that device.

REQUIREMENTS

PDPe11/40 Standard Computer
KT11-0 Memory Management Option

STORAGE - 0 - 17760

LOADING - Absolute Loader

EXECUTION TIME - 4K about 3 min., 32K less than an hour

STARTING PROCEDURE - Start and restart at 200

PRINTOUTS - Yes

SWITCH REGISTER OPTIONS -

At startup, SW settings are:

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SW 0 = 1 of up ... RUN WITHOUT KT11-D
SW 1 = 1 of up ... RUN ALL IN KERNEL MODE (INHIBITS RUNNING 4K AS 32K
SW 2 = 1 of up ... INHIBIT RUNNING 28K USER KT11-D FROM EVERY 4K
                (BANK (ALLOW NORMAL CORE EXPANSION)
SW 5 = 1 of up ... INHIBIT VARIABLE CORE EXPANSION
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At Halt, SW settings are:

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SW 15 = 1 OF US ... HALT ON ERROR
SW 14 = 1 OF US ... SCOPE LOOP
SW 13 = 1 OF US ... INHIBIT PRINT OUT
SW 12 = 1 OF US ... INHIBIT TRACE TRAPPING
SW 11 = 1 OF US ... INHIBIT SUB-PROGRAM ITERATION AND INHIBIT TESTS
                        WHICH USE ALL COMBINATIONS OF NUMBERS
SW 10 = 1 OF US ... INHIBIT PROCESSOR TEST

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Special delete switches - set respective switch to
a 1 to inhibit initiation of device,

SW 0 = 1 ... INHIBIT TTY OUTPUT
SW 3 = 1 ... INHIBIT RK11 DISK
SW 4 = 1 ... INHIBIT LINE CLOCK
SW 5 = 1 ... INHIBIT RF11 DISK
SW 6 = 1 ... INHIBIT TC11 DECTAPE
SW 7 = 1 ... INHIBIT LINE PRINTER