

# digital

# Software Product Description

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**PRODUCT NAME: FOCAL/PTS, Version 1**

**SPD 9.5.2**

**DESCRIPTION:**

FOCAL is an interactive high-level computer language that enables the unsophisticated user to write computer programs easily. The user can perform calculations and operations interactively by entering commands and receiving response immediately, or the user can string commands together to form a program. FOCAL statements enable the user to express arithmetic operations, control program flow, and perform input and output.

FOCAL/PTS is a FOCAL language processor for use on UNIBUS PDP-11 processors. FOCAL/PTS supports several peripherals. The user can write FOCAL/PTS programs that support other peripherals easily since interrupt programming is available at the FOCAL language level. In addition, FOCAL programs can incorporate functions written in assembly language.

Features include:

- Upward compatible with FOCAL/RT-11
- Single keystroke commands
- Alphanumeric symbol names (FOCAL recognizes only two characters for symbol identification but up to six are carried for listing purposes)
- Support for all PDP-11 arithmetic options
- Easy interface of assembly language routines
- Support of the AR11 through the Analog-to-Digital Converter function command (up to 100 hertz)
- Optional double precision version

**MINIMUM HARDWARE REQUIRED:**

PDP-11 UNIBUS processor with:

- at least 4K words of memory (8K words of memory for double precision arithmetic and/or AR11 support)
- console terminal
- paper tape reader (either integral low-speed terminal reader or high-speed PR11 reader or PC11 reader/punch)

**OPTIONAL HARDWARE SUPPORTED:**

Additional memory to a system total of 28K words  
LP11 or LS11 Line Printer  
PC11 High-Speed Reader/Punch  
KW11-L Line Frequency Clock  
AR11 Analog-to-Digital Converter

**PREREQUISITE SOFTWARE:**

None

**OPTIONAL SOFTWARE SUPPORTED:**

None

**TRAINING CREDITS:**

None

**SUPPORT CATEGORY:**

B — Software Support will be provided as listed in the Software Support Categories Addendum to this SPD.

**UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge. After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

**ORDERING INFORMATION:**

This software is furnished under a license for use on a single CPU and can be copied and modified (with inclusion of DIGITAL's copyright notice) only for use on such CPU, except as may otherwise be provided in writing by DIGITAL.

Source and/or listing options are only available after the purchase of at least one supported license and after a source license agreement is in effect.

The following key (B, C, R) represents the distribution media for the product and must be specified at the end of the "Q" number, i.e., QJ006-AB = binaries on paper tape.

B = Paper Tape

C = DECtape

R = Microfiche

*Standard Options*

QJ006 -A- Single-use license, binaries, documentation, support services (media: B)

*Source/Listing Options*

QJ006 -E- All sources (media: C)

QJ006 -F- Listings (media: R)

**ADDITIONAL SERVICES:**

None

**D9.5.2**