



# Software Product Description

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**PRODUCT NAME: OS/8 FORTRAN IV Plotter, Version 3C,**

**SPD 4.15.3**

**DESCRIPTION:**

The OS/8 FORTRAN IV Plotter is a set of routines that drive an incremental plotter (Calcomp 563, 565 or equivalent) under control of OS/8 FORTRAN IV. They can be added to the system library to enable the user to request any subset of the available functions and reduce memory usage.

The user can request any of the following capabilities using a CALL statement:

- PLOT Move pen in an up/down position to a specified coordinate.
- FACTOR Enlarge or reduce all subsequent plotting.
- WHERE Return current pen coordinate and factor.
- SYMBOL Print alphanumeric text or special character at specified angle and size.
- NUMBER Print a floating point number (e.g., a variable) with specified number of digits, angle and size.
- SCALE Scale a data array (generally in preparation for drawing an axis).
- AXIS Draw an axis with title, labelled tic marks, at an angle.
- LINE Draw a graph of X data array versus Y data array, marking each junction with specified symbol.
- PLOTS Initialize plotting to machine configuration and plotter increment.

The user has complete control over pen state (up/down), angle of plotting and overall size of plot during all operations. The plotter package also permits running of background jobs under OS/8 FORTRAN control when the system includes a Floating Point Processor.

NOTE: OS/8 is functionally equivalent to OS/12, the operating system for the PDP-12.

**MINIMUM HARDWARE REQUIRED:**

Any valid OS/8 configuration with 12K words of memory and at least 128K words of mass storage and an X/Y incremental plotter (Calcomp 563, 565 or equivalent)

**OPTIONAL HARDWARE SUPPORTED:**

Any mass storage, unit record or terminal device supported by OS/8 with the following additions:

KE8-E Extended Arithmetic Element  
FPP12-AB, -AN, -AP Floating Point Processor

**PREREQUISITE SOFTWARE:**

OS/8 Operating System, Version 3 or later  
OS/8 FORTRAN IV, Version 3 or later

**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:**

During the first year, Update Policy shall be in accordance with the Software Support Categories Addendum to this SPD. 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 full-support binary license and after a source license agreement is in effect.

The following key (A, B, C, E, N, R, Y) represents the distribution media for the product and must be specified at the end of the "Q" number, i.e.,

QF014-AC = binaries on DECtape.

A = Linc Tape  
B = Paper Tape  
C = DECtape  
E = KK Disk (DECpack)  
N = Cassette (TU60)  
R = Microfiche  
Y = Floppy Disk

*Standard Options*

QF014 -A- Single-use license, binaries, documentation, support services (media: B, C, N, Y)

QK014 -A- Single-use license, binaries, documentation, support services (media: A)

*Source/Listing Options*

QF014 -E- All sources (media: C, E, Y)

QF014 -F- Listings (media: R)

QK014 -E- All sources (media: A)

*Update Options*

Users of OS/8 FORTRAN IV Plotter whose Standard Binary Program Update Service has expired, may purchase the following. The update distributed in binary form on the appropriate medium includes no installation or other services unless specifically stated otherwise.

QF014 -H- Binaries, documentation, no support services (media: B, C, N, Y)

QF014 -N- Source update (media: C, E, Y)

QK014 -H- Binaries, documentation, no support services (media: A)

QK014 -N- Source update (media: A)

**ADDITIONAL SERVICES:**

None

**D4.15.3**