

High-performance application and device driver development tool for the Tektronix 4120 Series Color Graphics Workstations.

SOFTWARE TERMINAL INTERFACE

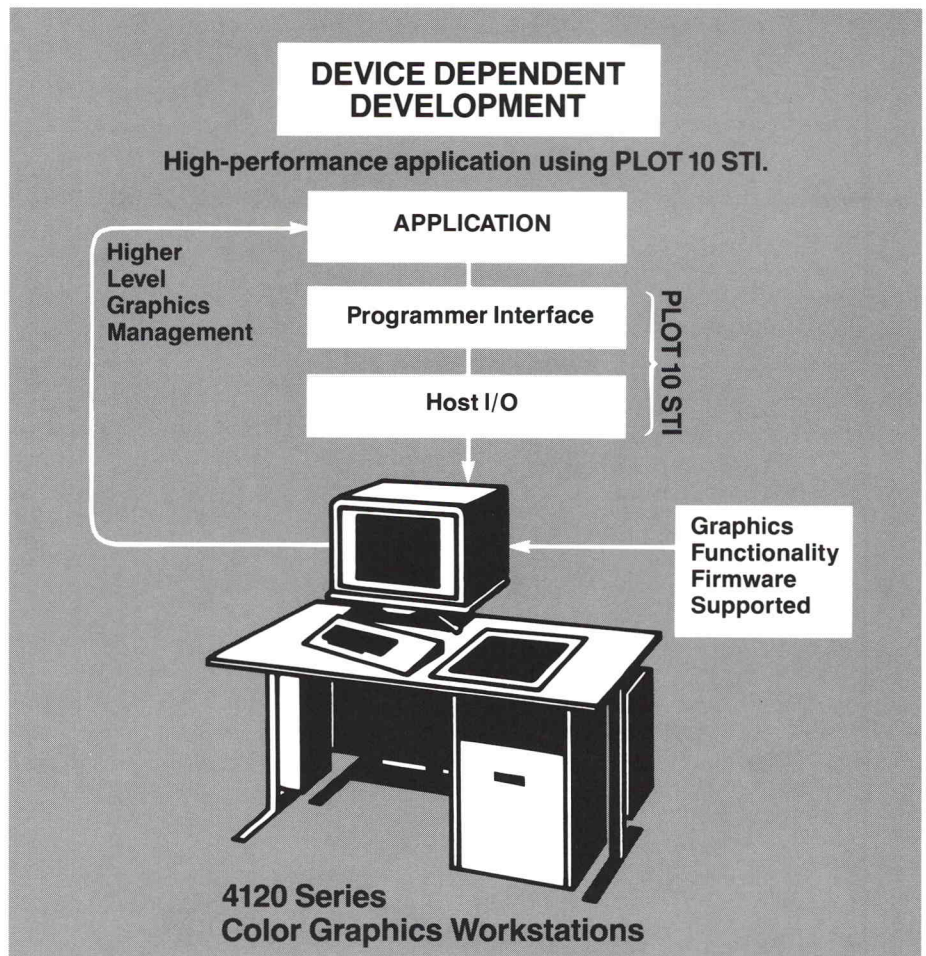
The Tektronix 4000P71 PLOT 10 Software Terminal Interface (STI) provides convenient software access to the firmware features of the Tektronix 4125, 4128 and 4129 Color Graphics Workstations.

Designed to take full advantage of the 4120 Series terminal features, including 3D and advanced segment operations, PLOT 10 STI provides the graphics systems developer with the power and flexibility needed to implement device-dependent applications or to integrate the 4120 Series Workstations into existing applications. By automatically constructing all escape sequences, PLOT 10 STI allows the programmer to work efficiently and with greater accuracy.

Streamlined for compact code.

Since the 4120 Series Workstations include the graphics functionality within the terminal firmware, PLOT 10 STI is streamlined to provide minimal host overhead. The non-hierarchical structure of PLOT 10 STI means compact code with optimized execution times and easy debugging.

At link time, PLOT 10 STI provides only the subroutines specified by the applications program. Tight, efficient



code is created because STI contains no superfluous code for making device selection or emulation decisions. All graphics functionality is directly based on the intelligence and capability of the hardware.

Host-independent I/O. Interfacing PLOT 10 STI to the host environment is simple. Only six input/output routines are required for host-terminal communications. Sample I/O routines for DEC VAX/VMS*, IBM MVS/TSO*, IBM VM/CMS* and Tektronix 6000 Series UTek are included. In addition, a generic ANSI FORTRAN '77 I/O routine set is provided for interfacing to ASCII/RS232

environments. Existing PLOT 10 Terminal Control System (TCS) and PLOT 10 Interactive Graphics Library (IGL) I/O routines can be modified for use by PLOT 10 STI. Complete I/O verification routines are also included.

STI features buffered I/O for faster host-terminal communications. This gives developers the freedom to work in highly interactive workstation environments as well as in large mainframe environments.

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Broad feature support. PLOT 10 STI is optimized for the 2D and 3D capabilities of the 4120 Series of Color Graphics Workstations. STI supports the 4115B Series standard features, plus advanced features such as segment editing, segment sub-routines, local picture storage, 2D and 3D image transforms, 3D zoom and pan, multiple dialog areas, hidden lines, surface removal, shading, and multiple windows and viewports.

ANSI FORTRAN '77 provides a flexible, powerful programming environment with the latest FORTRAN enhancements for maximum programming ease.

General-purpose escapes. Using a set of generalized subroutines, access is available to firmware features not implemented in STI, such as Tektronix 4100 and 4110 Series terminal commands. These user-written, general-purpose escapes each require less than 10 lines of code.

Program size: Approximately 4000 lines of FORTRAN '77 code.

Language: ANSI FORTRAN '77.

Ordering Information

Software Marketer Licenses are available, in addition to standard end-user agreements for PLOT 10 STI, 4000P71. Each order is configured on magnetic tape or disk. ANSI FORTRAN '77 source code, user-level documentation, installation instructions, sample I/O routines and demonstration programs are provided with each order.

Customer Software Services

A Software Subscription Service is available to keep your PLOT 10 STI current.

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