

digital

Software Product Description

PRODUCT NAME: PDP-11 PICTURE BOOK (RSTS/E, RSX-11D)

SPD 15.65.0

DESCRIPTION:

PICTURE BOOK is a set of programs which run interactively between a RSTS/E or RSX-11D System and a GT40 or GT42 Graphics Display Terminal. The package consists of three parts: a down-line loader; a communications and display file handler; and a set of FORTRAN (RSX-11D) graphics subroutines or BASIC (RSTS/E) functions.

The loader runs on the host system and loads PDP-11 binary files into the graphics terminal over the communications line.

The communications and display file handler is a compact routine residing in about 1.5K words of memory on the graphics terminal. It performs the following functions:

- Displays ASCII communications on the screen using a cursor and scrolling.
- Sets up a dynamic display file; any portion of the picture may be changed without having to rewrite the entire file.
- Supports all of the graphic hardware features including local handling of light pen hits for immediate response on tracking.
- Provides access to the line frequency clock.

The graphics subroutines run on the host PDP-11 and are called by a user's application program. Each subroutine generates a string of ASCII characters to the terminal which the handler will interpret. Some subroutine functions are:

- To interrogate the terminal for coordinates of light pen hits.
- To wait for response from the keyboard.
- To direct the terminal to draw characters, lines, and points on the screen.
- To calculate the points along an arc.
- To move the terminal pointers to different words in the display file for dynamic display modification.

MINIMUM HARDWARE REQUIRED:

8K GT40 or GT42 plus separate RSTS/E or RSX-11D System equipped with asynchronous communications line and null modem.

OPTIONAL HARDWARE SUPPORTED:

Additional memory to 28K

PREREQUISITE SOFTWARE:

None for the terminal. As appropriate, the host must be either RSTS/E, V5B or later or RSX-11D, V4A or later.

ORDERING INFORMATION:

RSTS/E System

- QJ092-CC Single-use license*; binaries and sources on DECtape for the terminal software and host software; manual
- QJ092-CD Single-use license*; binaries and sources on 9-track magtape for the terminal software and host software; manual
- QJ092-CE Single-use license*; binaries and sources on RK-11 platter for the terminal software and host software; manual
- QJ092-CF Single-use license*; binaries and sources on 7-track magtape for the terminal software and host software; manual

RSX-11D System

- QJ093-CC Single-use license*; binaries and sources on DECtape for the terminal software and host software; manual
- QJ093-CD Single-use license*; binaries and sources on 9-track magtape and for the terminal software and host software; manual
- QJ093-CE Single-use license*; binaries and sources on RK-11 platter for the terminal software and host software; manual
- QJ093-CF Single-use license*; binaries and sources on 7-track magtape for the terminal software and host software; manual

* This software is furnished under a license for use on a single system and can be copied (with the inclusion of DIGITAL's copyright notice) only for use in such system, except as may otherwise be provided in writing by DIGITAL. When a software license is ordered without services, its category of support reverts to Category C.

PDP-11 Picture Book (RSTS/E, RSX-11D)

-3-

SUPPORT CATEGORY: C, all support services for a fee.

UPDATE POLICY: Any future updates will be available at the prevailing handling and service charges.

D15.65.0