PRODUCT NAME: DECgraphic 10/20, Version 1.0

DESCRIPTION:
DECgraphic 10/20 is a library of FORTRAN callable routines for users of TOPS-10 and TOPS-20 operating systems who wish to use the graphics capabilities of the GT41, GT43, or GT62 Refresh Display Satellites. These graphics satellites communicate with the host system with a standard asynchronous serial line terminal interface.

Over 60 routines are provided in the DECgraphic 10/20 package. They are used for:

- Initializing and controlling the display
- Choosing screen area and scaling
- Creating graphic primitives
- Defining and using subpictures
- Displaying graphs and figures
- Using display-file pointer
- Changing display parameters
- Interacting with the display
- Polling interactive devices
- Using the optional pushbutton box (on GT43 and GT62)
- Controlling the keyboard
- Controlling the overall display
- Compressing, saving, and restoring the display file
- Inserting advanced display-file instructions

Through CALL statements, the user can display points, vectors, text, and graph data. The subpicture feature enables the programmer to display repeated images. Special graphics routines enable the programmer to display an entire array of data with one subroutine call. General “Attention handling” facilities for the light pen, LK11 push button box and LK40 keyboard are also included in the package. There are subroutines that let the programmer display menus for light pen selection. Miscellaneous routines enable the programmer to move, modify, delete and otherwise manipulate images.

Users of the GT62 graphics satellite can also alter the scale at which images and text strings are displayed, “window” the display viewing area over a large “drawing area” and select output on an optional second display screen at the GT62.

MINIMUM HARDWARE REQUIRED:
Any valid TOPS-10, Version 6.03 (or later), or TOPS-20 Version 3 (or later) system configuration with

- RS232 serial line terminal interface and one of the following graphic satellite options:
  1. GT41 graphics satellite (17” screen) with
     - 32K bytes memory
     - light pen
     - LK40 ASCII Keyboard
     - DL11-E serial interface
  2. GT43 graphics satellite (17” screen) with
     - 32K bytes memory
     - light pen
     - DL11-E serial interface
     - LK40 ASCII Keyboard
     - (Optionally) LK11 function pushbutton box.
  3. GT62 High performance graphics satellite (21” screen) with
     - 32K bytes memory
     - light pen
     - DL11-E serial interface
     - LK11 function pushbutton box
     - LK40 ASCII keyboard

NOTE:
The precise graphics satellite configuration must be specified when ordering DECgraphic 10/20.

OPTIONAL HARDWARE:
None

PREREQUISITE SOFTWARE:
One of the following:
1. TOPS-10, Version 6.03 or later, with
   FORTRAN-10, Version 5 or later
2. TOPS-20, Version 3 or later, with
   FORTRAN-20, Version 5 or later

OPTIONAL SOFTWARE:
None

TRAINING CREDITS:
None

SUPPORT CATEGORY:
C — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

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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 (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

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M = 1600 bpi 9-track Magnetic Tape

Standard Options
QS054 -Y— Single-use license, source license, sources, documentation, no support services (media: M)

ADDITIONAL SERVICES:
None