

# HP 260 Graphics Plotting Library



## GPL/260

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### Description

The HP 260 Graphics Plotting Library (GPL/260) is a collection of BASIC/260 subprograms which allows an HP 260 programmer to generate graphs, charts and other graphical output (including overhead slides) on a variety of HP graphics plotters. All charts can be annotated with symbols and text. GPL/260 is included with the HP 260 System Software shipped with each system.

GPL/260 provides user application programs with total flexibility to create, modify, and produce charts. It can enhance a program which periodically generates reports to include customized charts that clarify data or emphasize key points. All capabilities (including chart design and execution) are called from a user-written program in BASIC/260. Over 30 mnemonic intrinsics provide the programmer with an effective means of producing graphics output without having to learn a complex protocol or special language.

Some typical library mnemonics are:

Gpl_draw	draws a straight line from current pen position to a specified (x, y) coordinate.
Gpl_text	draws text specified by a string variable or literal at the current pen location.
Gpl_linestyle	selects line style which can be a solid, dotted, dashed, or combination line.
Gpl_plotteris	specifies which HP plotter will be used. Parameters include the plotter model number, device address, and the address of the device which will receive operator messages (typically a workstation).

### Features

- Ease-of-use through device independent graphics, mnemonic subprogram names, simple parameters, and user-defined coordinates
- Graphical output can be directed to a disc file for later plotting through “spooling” of graphics output. Operating messages (e.g., “change PENS”) can be embedded in the file.
- Graphs can be rotated to fit the aspect ratio of the plotter
- System confidence test (i.e., plotter and HP 260)
- Nine line styles
- 96-character standard ASCII set for text, including European characters, variable sizes, 90-degree rotation, and formatting (e.g., centering)
- Subroutine calls have easy-to-remember names like PEN, MOVE, and DRAW. The WINDOW subprogram establishes the device plotting area to be used and allows the user to work in his own coordinate system.
- Special error-reporting facilities help with the debugging of application programs

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## Specifications

### Documentation

The *GPL/260 Programming Manual*, part number 45260-90064, comes with the Programming Manuals Kit which can be ordered with the system.

The manual is designed for first-day productivity by a BASIC language programmer with no graphics experience. It includes information on computer graphics concepts, running simple programs, and advanced graphics programming techniques.

### Hardware Required

- Any HP 260 Small Business Computer System with 64 Kbyte user memory partition
- Asynchronous Serial Interface port
- RS-232-C interface
- One of the plotters supported by the HP 260

### Software Required

- Current HP 260 Operating System\*
- PACK and TIO DROMs must be configured

\* If you do not have the most current Operating System, please contact your OEM or HP Sales Representative for information on upgrading your system.

