

PEN MAP

PURPOSE

Allows the mapping of colors to pen slots to be defined by the user for selected pen plotters.

DESCRIPTION

Pen plotters allow different color pens to be loaded into each pen slot. Previously, the color to pen slot mapping was hard coded in DATAPLOT. The PEN MAP allows the user to re-define the default mapping for the HP-GL, ZETA, and CALCOMP devices.

For each of the supported devices, up to 16 pens can be defined. Also, specifying "LIST/SHOW/PRINT/?" for the color will print the current mapping and "DEFAULT" will reset the default mapping.

DATAPLOT also supports the Tektronix 4662 and HP 7221 plotters. However, these are now essentially obsolete, so they are not supported with this command.

SYNTAX 1

<device> PEN MAP <color> <index>

where <device> is one of the following:

HPGL	- for HPGL plotters
CALCOMP	- for CALCOMP plotters
ZETA	- for Zeta plotters;

<color> is a character string that specifies one of the colors available on the plotter;

and <index> is an integer number or parameter between 1 and 16.

SYNTAX 2

<device> PEN MAP <keyword>

where <device> is one of the following:

HPGL	- for HPGL plotters
CALCOMP	- for CALCOMP plotters
ZETA	- for Zeta plotters;

and <keyword> is one of the following:

LIST	- print the current mapping
SHOW	- print the current mapping
PRINT	- print the current mapping
DEFAULT	- reset the default mapping.

EXAMPLES

```
HPGL PEN MAP DEFAULT
HPGL PEN MAP SHOW
HPGL PEN MAP RED 4
CALCOMP PEN MAP BLUE 2
ZETA PEN MAP GREEN 4
```

NOTE 1

If a color is defined more than once, it is mapped to the lowest pen slot.

NOTE 2

In earlier versions of DATAPLOT, specifying a color by index would cause penplotters to use the slot corresponding to the index number (i.e., color 1 would go to slot 1). However, to make the use of color names and color indices consistent across devices, an index now maps to a specific color (e.g., color 1 maps to black). This color is then mapped to a particular slot number (which is not necessarily the same as the index number). To see the default color to slot mapping, enter one of the following DATAPLOT commands:

```
SHOW COLORS CALCOMP
SHOW COLORS ZETA
SHOW COLORS HPGL
```

The PEN MAP command can be used to override the default color to slot mapping.

NOTE 3

If your plotter always has the same color pens in the same slots with an order different than the default DATAPLOT order, then a series of PEN MAP commands can be placed in the start-up file DPLOGF.DAT.

DEFAULT

The following is the default color to slot mapping for an eight slot penplotter:

BLACK	1
RED	2
BLUE	3
GREEN	4
MAGENTA	5
ORANGE	6
CYAN	7
YELLOW	8

SYNONYMS

None

RELATED COMMANDS

SHOW COLORS = Print the available colors.

APPLICATIONS

Defining ccolors for penplotters

IMPLEMENTATION DATE

90/6

PROGRAM

```
HPGL PEN MAP BLACK 1
HPGL PEN MAP BLUE 2
HPGL PEN MAP GREEN 3
HPGL PEN MAP RED 4
```