

BAR DIRECTION

PURPOSE

Specifies if a bar will be drawn horizontally or vertically on subsequent plots.

DESCRIPTION

Vertical bars are drawn from the x-axis to the plot point while horizontal bars are drawn from the y-axis to the plot point. See the documentation for the BAR command for a description of the various types of bar charts that DATAPLOT can generate. Bar directions are specified by trace. All bars belonging to the same trace will have the same bar direction. Typically, all traces will use the same bar direction.

SYNTAX

BAR DIRECTION <H/V> <H/V> <H/V> etc.

where H specifies that horizontal bars are drawn and V specifies that vertical bars are drawn. Up to 100 bar directions can be specified.

EXAMPLES

```
BAR DIRECTION H H
BAR DIRECTION V V
BAR DIRECTION V ALL
```

NOTE 1

The BAR DIRECTION command with no arguments sets the bar direction to default for all traces. The BAR DIRECTION command with the word ALL before or after the specified direction assigns that bar direction to all traces. Thus BAR DIRECTION H ALL or BAR DIRECTION ALL H plots all bars horizontally.

NOTE 2

Horizontal bars are typically combined with a portrait page orientation to generate publication quality bar graphs.

NOTE 3

The HORIZONTAL SWITCH command can also be used to generate horizontal bars. This command is more general in that all plot elements are drawn horizontally (BAR DIRECTION only does the bars). It also exchanges the x and y data values before plotting (the BAR DIRECTION command does not do this).

DEFAULT

All bars are drawn vertically (i.e., V).

SYNONYMS

None

RELATED COMMANDS

PLOT	=	Generates a data or function plot.
BAR	=	Sets the on/off switches for bars on plots
BAR BASE	=	Sets the base locations for bars on plots.
BAR FILL	=	Sets the on/off switches for plot bar fills.
BAR FILL COLOR	=	Sets the colors for bar fills.
BAR DIMENSION	=	Sets the bar dimensions to 2d or 3d.
BAR PATTERN	=	Sets the types for bar fill patterns.
BAR PATTERN COLOR	=	Sets the colors for bar fill patterns.
BAR PATTERN LINE	=	Sets the line types for bar fill patterns.
BAR PATTERN SPACING	=	Sets the line spacings for bar fill patterns.
BAR PATTERN THICK	=	Sets the line thicknesses for bar fill patterns.
BAR BORDER COLOR	=	Sets the colors for bar border lines.
BAR BORDER LINE	=	Sets the types for bar border lines.
BAR BORDER THICKNESS	=	Sets the line thicknesses for bar border lines.
BAR WIDTH	=	Sets the widths for plot bars.
HORIZONTAL SWITCH	=	Specifies whether a plot is drawn horizontally or vertically.

APPLICATIONS

Presentation Graphics

IMPLEMENTATION DATE

87/4

PROGRAM

```

LET CARTER = DATA 66 30 11 43 44 41 35 82 54 36
LET REAGAN = DATA 26 54 84 47 51 51 52 14 36 55
LET X = DATA 1 2 3 5 6 7 8 10 11 12; LET X1 = X - 0.1; LET X2 = X + 0.1
.
Y1TIC MARK LABEL FORMAT ALPHA; YLIMITS 1 12; YTIC OFFSET 1 1
Y1TIC LABEL CONTENT DEMOCRATS INDEPENDENTS REPUBLICANS SP) EAST ...
        SOUTH MIDWEST WEST SP) BLACKS HISPANICS WHITES SP()
MINOR Y1TIC MARK NUMBER 0; X1LABEL PERCENT
XLIMITS 0 100; MAJOR XTIC MARK NUMBER 11; MINOR XTIC MARK NUMBER 1
.
LINE BLANK BLANK SOLID; BAR ON ON OFF
BAR DIRECTION H ALL
BAR WIDTH 0.2 ALL; BAR FILL ON ON OFF
BAR FILL COLOR G25 G75
TITLE BAR CHART WITH HORIZONTAL DIRECTION; TITLE SIZE 5
.
PLOT X1 CARTER AND
PLOT X2 REAGAN
JUSTIFICATION LECE; BOX FILL ON
BOX FILL COLOR G25; BOX 70 85 73 88
MOVE 74 86.5; TEXT CARTER
BOX FILL COLOR G75; BOX 70 80 73 83
MOVE 74 81.5; TEXT REAGAN
    
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