

SPIKE THICKNESS

PURPOSE

Specifies the thickness of lines used to draw spikes on subsequent plots.

DESCRIPTION

A spike is a vertical line from the plot point to the spike base (most typically the x axis). Spikes are specified by trace. That is, all points belonging to the same trace are drawn with the same spike attributes.

Spike thicknesses are specified in vertical DATAPLOT 0 to 100 units and are typically set between 0.05 and 0.3.

SYNTAX

SPIKE THICKNESS <thickness> <thickness> <thickness> etc.

where <thickness> is a number or parameter that specifies the desired line thickness. Up to 100 spike thicknesses can be specified.

EXAMPLES

```
SPIKE THICKNESS 0.1 0.2 0.1 0.2
```

```
SPIKE THICKNESS 0.2 0.2 0.1
```

```
SPIKE THICKNESS 0.1 ALL
```

```
SPIKE THICKNESS ALL 0.1
```

```
SPIKE THICKNESS
```

NOTE

The SPIKE THICKNESS command with no arguments sets the spike line thickness to default for all traces. The SPIKE THICKNESS command with the word ALL before or after the specified thickness assigns that spike line thickness to all spikes; thus SPIKE THICKNESS 0.1 ALL or SPIKE THICKNESS ALL 0.1 draws spikes with a line thickness of 0.1 for all traces on the plot.

DEFAULT

All spikes are drawn with a thickness of 0.1.

SYNONYMS

None

RELATED COMMANDS

PLOT	=	Generates a data or function plot.
SPIKE	=	Sets the on/off switches for plot spikes.
SPIKE BASE	=	Sets the base locations for plot spikes.
SPIKE COLOR	=	Sets the colors for plot spikes.
SPIKE DIRECTION	=	Sets the directions for plot spikes.
SPIKE LINE	=	Sets the line types for plot spikes.

REFERENCES

“Elements of Graphing Data,” William S. Cleveland, Wadsworth Advanced Books and Software, 1985.

“Visualizing Data,” William S. Cleveland, Hobart Press, 1993.

APPLICATIONS

Presentation graphics, time series plots, dot charts

IMPLEMENTATION DATE

Pre-1987

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
.
TIC 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 -100 100
MAJOR XTIC MARK NUMBER 11
MINOR XTIC MARK NUMBER 1
XTIC MARK LABEL CONTENT 100 80 60 40 20 0 20 40 60 80 100
.
LINE BLANK BLANK SOLID
SPIKE ON ON OFF
SPIKE DIRECTION H ALL
SPIKE THICKNESS 0.5 ALL
TITLE DEMONSTRATE SPIKE THICKNESS COMMAND; TITLE SIZE 5
LEGEND 1 CARTER; LEGEND 1 COORDINATES 17 85
LEGEND 2 REAGAN; LEGEND 2 COORDINATES 83 85; LEGEND 2 JUST RIGHT
.
LET CART2 = -CARTER
LET XJUNK = DATA 0.5 12.5; LET YJUNK = DATA 0 0
PLOT X VS REAGAN AND
PLOT X VS CART2 AND
PLOT XJUNK YJUNK
    
```

