SPIKE COLOR

PURPOSE
Specifies the colors used to draw spikes on subsequent plots. See the Color chapter for a list of available colors.

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.

SYNTAX
SPIKE COLOR <color> <color> <color> etc.

where <color> is a character string or an integer number or parameter that specifies the desired color. Up to 100 spike colors can be specified.

EXAMPLES
SPIKE COLOR RED BLUE GREEN
SPIKE COLOR 2 3 4 5
SPIKE COLORS BLACK ALL
SPIKE COLORS ALL RED
SPIKE COLORS

NOTE
The SPIKE COLOR command with no arguments sets the spike color to default for all traces. The SPIKE COLOR command with the word ALL before or after the specified type assigns that color to all traces; thus SPIKE COLOR RED ALL or SPIKE LINE ALL RED plots spikes with red lines for all traces.

DEFAULT
All spikes are drawn with black lines.

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 DIRECTION	=	Sets the directions for plot spikes.
SPIKE LINE	=	Sets the line types for plot spikes.
SPIKE THICKNESS	=	Sets the line thicknesses 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 THICKNESS 0.5 ALL
SPIKE DIRECTION H ALL
SPIKE COLOR G25 G75
TITLE DEMONSTRATE SPIKE COLOR 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
```