... TIC MARK LABEL ANGLE

PURPOSE
Specifies the angle of the labels associated with the major tic marks on subsequent plots.

DESCRIPTION
This command allows tic labels to be rotated from their default orientation. By default, tic labels are printed horizontally (i.e., angle of 0.0) for both the X and Y axis. The most common uses of this command are:

1. Some analysts prefer that the vertical tic labels be drawn vertically;

2. Tic labels can overlap on the horizontal axis if they are long or there are a large number of them. This occurs often with alphabetic tic labels. This command can be used to draw the horizontal labels vertically or at an angle (45 degrees is often used).

This command only applies if the labels are drawn with a software font (e.g., SIMPLEX). The command TIC MARK LABEL DIRECTION can be used to set horizontal or vertical text if the tic label is drawn with a hardware character.

SYNTAX
<prefix>TIC MARK LABEL ANGLE <angle>
where <prefix> is one of the following:

X1	refers to the bottom horizontal side;
X2	refers to the top horizontal side;
X	refers to both horizontal sides;
Y1	refers to the left vertical side;
Y2	refers to the right vertical side;
Y	refers to both vertical sides;
no prefix	refers to all 4 sides;

and   <angle> is a number or parameter that specifies the desired angle.

EXAMPLES
TIC MARK LABEL ANGLE 45.
XTIC MARK LABEL ANGLE 90
Y1TIC MARK LABEL ANGLE 90

NOTE
A ...TIC MARK LABEL ANGLE command with no arguments reverts the setting to default; thus X1TIC MARK LABEL ANGLE with no arguments reverts the bottom horizontal tic label angle to 0. A ...TIC MARK LABEL ANGLE command with no prefix refers to all 4 sides; thus TIC MARK LABEL ANGLE 0. sets tic mark angles to 0. for all 4 frame lines. TIC MARK LABEL ANGLE with no prefix and no arguments reverts the tic label angle to default on all 4 sides.

DEFAULT
All the tic mark labels are drawn horizontally (i.e., 0 degrees).

SYNONYMS
TICS LABEL ANGLE, TIC LABEL ANGLE, and TICS MARK LABEL ANGLE are synonyms for TIC MARK LABEL ANGLE, as in TICS LABEL ANGLE 0 or X2TIC LABEL ANGLE 90.

RELATED COMMANDS

TIC MARK LABEL	=	Specifies whether or not tic mark labels or drawn.
TIC MARK LABEL CASE	=	Sets the case for tic labels.
TIC MARK LABEL COLOR	=	Sets the color for tic labels.
TIC MARK LABEL CONTENTS	=	Specify alphanumeric values for tic labels.
TIC MARK LABEL DECIMALS	=	Sets the number of decimals for tic labels.
TIC MARK LABEL DIRECTION	=	Sets the direction (horizontal/ vertical) for TIC MARK labels.
TIC MARK LABEL DISPLACEMENT	=	Sets the distance between tic labels and the frame.
TIC MARK LABEL FONT	=	Sets the font for tic labels.
TIC MARK LABEL FORMAT	=	Sets the format (alphanumeric, exponential, power of 10) for tic labels.
TIC MARK LABEL HW	=	Sets the height and width for tic labels.
TIC MARK LABEL JUSTIFICATION	=	Sets the justification for tic labels.
TIC MARK LABEL SIZE	=	Sets the height for tic labels.

APPLICATIONS
    Presentation Graphics

IMPLEMENTATION DATE
    89/2

PROGRAM
    LET Y = DATA 392 341 307 203 115 59 38 32 29 28
    LET N = NUMBER Y; LET X = SEQUENCE 1 1 N
    .
    LINES BLANK ALL; BAR ON ALL
    BAR WIDTH .5 ALL
    BAR DIMENSION 3 ALL; BAR FILL ONTS ALL
    .
    XLIMITS 1 10
    XTIC OFFSET 1 1
    MAJOR XTIC MARK NUMBER 10
    MINOR XTIC MARK NUMBER 0
    X1TIC MARK LABEL FORMAT ALPHA
    X1TIC MARK LABEL CONTENT APOLLO SUN HP DEC SYM SGI IBM DG TI XEROX
    X1TIC MARK LABEL ANGLE 45
    YLIMITS 0 500
    Y1TIC MARK LABEL JUSTIFICATION CECE
    Y1TIC MARK LABEL ANGLE 90
    .
    TIC MARK LABEL FONT DUPLEX
    TITLE DEMONSTRATE TIC LABEL ANGLE
    TITLE SIZE 5
    LEGEND 1 PRESENTATION GRAPHICS
    LEGEND 2 3-D BAR HISTOGRAM
    PLOT Y X X