... TIC MARK LABEL JUSTIFICATION

PURPOSE
Specifies the justification of the tic mark labels on subsequent plots (i.e., left, center, right horizontally and top, center, bottom vertically).

DESCRIPTION
The following justifications can be specified:

- **LEFT** - left horizontally, bottom vertically for horizontal strings, center horizontally, bottom vertically for vertical strings
- **CENTER** - center horizontally, bottom vertically for horizontal strings, center horizontally, center vertically for vertical strings
- **RIGHT** - right horizontally, bottom vertically for horizontal strings, center horizontally, top vertically for vertical strings
- **LECE** - left horizontally, center vertically
- **CECE** - center horizontally, center vertically
- **RICE** - right horizontally, center vertically
- **LETO** - left horizontally, top vertically
- **CETO** - center horizontally, top vertically
- **RITO** - right horizontally, top vertically
- **LEBO** - left horizontally, bottom vertically
- **CEBO** - center horizontally, bottom vertically
- **RIBO** - right horizontally, bottom vertically

SYNTAX
<pre><code>&lt;prefix&gt;TIC MARK LABEL JUSTIFICATION &lt;just&gt;</code></pre>
where &lt;prefix&gt; 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 &lt;just&gt; is a character string that specifies the desired justification (the available choices are listed above).

EXAMPLES
TIC MARK LABEL JUSTIFICATION CECE
X2TIC MARK LABEL JUSTIFICATION LEFT

NOTE
A ...TIC MARK LABEL JUSTIFICATION command with no arguments reverts the setting to default; thus X1TIC MARK LABEL JUSTIFICATION with no arguments reverts the bottom horizontal tic label justification to CETO. A ...TIC MARK LABEL JUSTIFICATION command with no prefix refers to all 4 sides; thus TIC MARK LABEL JUSTIFICATION LEFT sets tic mark labels to left for all 4 frame lines. TIC MARK LABEL JUSTIFICATION with no prefix and no arguments reverts the tic label justification settings on all 4 sides to default.

DEFAULT
CETO for the bottom horizontal axis, CEBO for the top horizontal axis, RICE for the left vertical axis, and LECE for the right vertical axis.

SYNONYMS
TIC LABEL JUSTIFICATION, TICS LABEL JUSTIFICATION, and TICS MARK LABEL JUSTIFICATION are synonyms for TIC MARK LABEL JUSTIFICATION, as in TIC LABEL JUSTIFICATION LEFT and X2TIC LABEL JUSTIFICATION LEFT. LJUSTIFY, CJUSTIFY, and RJUSTIFY are synonyms for LEFT, CENTER, and RIGHT respectively.

RELATED COMMANDS

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIC MARK LABEL</td>
<td>Specifies whether or not tic mark labels or drawn.</td>
</tr>
<tr>
<td>TIC MARK LABEL ANGLE</td>
<td>Sets the angle for tic labels.</td>
</tr>
<tr>
<td>TIC MARK LABEL COLOR</td>
<td>Sets the color for tic labels.</td>
</tr>
</tbody>
</table>
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, power of 10, exponential) for tic labels.
TIC MARK LABEL SIZE = Sets the height for tic labels.
TIC MARK LABEL THICKNESS = Sets the line width for tic labels.

APPLICATIONS
Presentation Graphics

IMPLEMENTATION DATE
Pre-1987 (the justification for vertical labels was corrected 94/6)

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
XTIC MARK LABEL CONTENT APOLLO SUN HP DEC SYM SGI IBM DG TI XEROX
XTIC MARK LABEL DIRECTION VERTICAL; XTIC MARK LABEL JUSTIFICATION LETO
XTIC MARK LABEL FORMAT ALPHA; XTIC MARK LABEL JUSTIFICATION CEBO
YLIMITS 0 500; YTIC MARK LABEL JUSTIFICATION VERTICAL
Y1TIC MARK LABEL JUSTIFICATION CEBO
LEGEND 1 PRESENTATION GRAPHICS
LEGEND 2 3-D BAR HISTOGRAM
TITLE DEMONSTRATE TIC LABEL JUSTIFICATION; TITLE SIZE 5
PLOT Y X X

DEMONSTRATE TIC LABEL JUSTIFICATION