

... LABEL DISPLACEMENT**PURPOSE**

Specifies the displacement (i.e., the distance from the frame to the label in DATAPLOT 0 to 100 coordinate units) of the labels to appear on subsequent plots.

DESCRIPTION

The labels are the text which appear below the bottom horizontal frame line and outside of the vertical frame lines. They typically define the variables/axes which are being plotted. The label displacements hold for all subsequent plots until defaulted (via the ...LABEL DISPLACEMENT command with no arguments) or until overridden with new label displacements. The analyst can define DISPLACEMENTs for all 5 plot labels:

1. 3 below the bottom horizontal frame line;
2. 1 to the left of the left vertical frame line;
3. 1 to the right of the right vertical frame line.

The LABEL DISPLACEMENT command is typically used to accommodate longer than usual tic mark labels or simply as an aesthetic choice by the user. Although they are seldom used, negative displacements will appear inside the frame.

SYNTAX

<prefix>LABEL DISPLACEMENT <value>

where <prefix> is one of the following:

X or X1	refers to the first horizontal label;
X2	refers to the second horizontal label;
X3	refers to the third horizontal label;
Y1	refers to the left vertical label;
Y2	refers to the right vertical label;
Y	refers to the left and right vertical labels;
no prefix	refers to all 5 axis labels;

and <value> is a decimal number or parameter in the range -100 to 100 that specifies the displacement.

EXAMPLES

```
Y1LABEL DISPLACEMENT 5.0
Y2LABEL DISPLACEMENT 10
X1LABEL DISPLACEMENT 5
```

NOTE

A ...LABEL DISPLACEMENT command with no arguments reverts the displacement to default. Thus X1LABEL DISPLACEMENT with no arguments reverts the first horizontal axis label to default. A ...LABEL DISPLACEMENT command with no prefix refers to all 5 labels. Thus LABEL DISPLACEMENT 8 assigns the displacement 8 to all 5 labels. LABEL DISPLACEMENT with no prefix and no arguments reverts all 5 labels to default.

DEFAULT

The default displacements are:

X1LABEL	=	8.0
X2LABEL	=	11.0
X3LABEL	=	14.0
Y1LABEL	=	8.0
Y2LABEL	=	8.0

SYNONYMS

None

RELATED COMMANDS

TITLE DISPLACEMENT	=	Sets the distance from the frame to the title.
PLOT	=	Generates a data or function plot.
LABEL	=	Specifies the labels for the plot axes.
LABEL AUTOMATIC	=	Sets automatically generated labels.

LABEL CASE = Sets the case (upper/lower/asis) for labels.
 LABEL COLOR = Sets the color for plot labels.
 LABEL FONT = Sets the plot label fonts.
 LABEL SIZE = Sets the size (height) for plot labels.
 LABEL THICKNESS = Sets the line thickness for plot labels.

APPLICATIONS

Presentation Graphics

IMPLEMENTATION DATE

92/4

PROGRAM

```
LET LEAD = DATA ...
    164 426 59 98 312 263 607 497 213 54 160 262 547 325 419 94 70
LET POT = DATA ...
    106 175 61 79 94 121 424 328 107 218 140 179 246 231 245 339 99
.
TITLE DEMONSTRATE LABEL DISPLACEMENT
TITLE SIZE 5
X1LABEL LEAD
X2LABEL POLLUTION SOURCE ANALYSIS: LLOYD CURRIE
Y1LABEL POTASSIUM
X1LABEL DISPLACEMENT 6.0
X2LABEL DISPLACEMENT 8.0
Y1LABEL DISPLACEMENT 6.0
CHARACTER CIRCLE
CHARACTER SIZE 1.5
LINE BLANK ALL
PLOT POT VS LEAD
```

