

LINEAR SLOPE PLOT**PURPOSE**

Generates a subsample linear slope versus subsample index plot.

DESCRIPTION

The subsample slope is the slope resulting from a least squares linear fit (between 2 user-specified variables) of the data in the subsample. The linear slope plot is used to answer the question: "Does the slope of a fitted line between 2 variables change from one subsample to the next?" The plot consists of:

Vertical axis = subsample slope from linear fit;
Horizontal axis = subsample index.

In addition, a horizontal line is drawn representing the full sample linear slope. The appearance of the 2 traces is controlled by the first 2 settings of the LINES, CHARACTERS, SPIKES, BARS, and similar attributes.

SYNTAX

LINEAR SLOPE PLOT <y1> <y2> <x> <SUBSET/EXCEPT/FOR qualification>

where <y1> is a response (= dependent variable in the fit) variable;

<y2> is another response (= independent variable in the fit) variable;

<x> is the subsample identifier variable (this variable appears on horizontal axis);

and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

LINEAR SLOPE PLOT PRES TEMP DAY

LINEAR SLOPE PLOT CONC YEAR MONTH SUBSET MONTH > 1

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

LINEAR CORRELATION PLOT	=	Generates a linear correlation plot.
LINEAR INTERCEPT PLOT	=	Generates a linear intercept plot.
LINEAR RESSD PLOT	=	Generates a linear residual standard deviation plot.
CHARACTERS	=	Sets the type for plot characters.
LINES	=	Sets the type for plot lines.
FIT	=	Carries out a least squares fit.

APPLICATIONS

Exploratory Data Analysis

IMPLEMENTATION DATE

88/3

PROGRAM

```
SKIP 25
READ BERGER1.DAT Y X BATCH
LINE BLANK DASH
CHARACTER X BLANK
XTIC OFFSET 0.2 0.2
YILABEL SLOPE
XILABEL SAMPLE ID
TITLE AUTOMATIC
LINEAR SLOPE PLOT Y X BATCH
```

