LINEAR INTERCEPT PLOT

PURPOSE
Generates a subsample linear intercept versus subsample index plot.

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

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

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

SYNTAX
LINEAR INTERCEPT PLOT <y1> <y2> <x>   <SUBSET/EXCEPT/FOR qualification>
where <y1> is a response (= dependent variable in the linear fit) variable;
     <y2> is another response (= independent variable in the linear fit) variable;
     <x> is the subsample identifier variable (this variable appears on the horizontal axis);
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LINEAR INTERCEPT PLOT PRES TEMP DAY
LINEAR INTERCEPT PLOT CONC YEAR MONTH SUBSET MONTH = 2 TO 11

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS

LINEAR SLOPE PLOT	=	Generates a linear slope plot.
LINEAR CORRELATION PLOT	=	Generates a linear correlation 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
        Y1LABEL INTERCEPT
        X1LABEL SAMPLE ID
        TITLE AUTOMATIC
        XTIC OFFSET 0.2 0.2
        LINEAR INTERCEPT PLOT Y X BATCH