PRODUCT PLOT

PURPOSE
Generates a subsample product versus subsample index plot.

DESCRIPTION
The subsample product is the product of the data in the subsample. The product plot is used to answer the question: “Does the subsample product change over different subsamples?” The plot consists of:

Vertical axis = subsample product;
Horizontal axis = subsample index.

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

SYNTAX
PRODUCT PLOT <y> <x> <SUBSET/EXCEPT/FOR qualification>
where <y> is the response (= dependent) variable;
<x> is the subsample identifier variable (this variable appears on the horizontal axis);
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
PRODUCT PLOT Y X
PRODUCT PLOT Y X1 SUBSET X1 < 22

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
CHARACTERS = Sets the type for plot characters.
LINES = Sets the type for plot lines.
PRODUCT = Compute the product of the elements in a variable.
CUMULATIVE PRODUCT = Compute the cumulative product of the elements in a variable.
SUM PLOT = Generates a sum plot.
PLOT = Generates a data or function plot.

APPLICATIONS
Rare Usage

IMPLEMENTATION DATE
88/9
PROGRAM
LET Y = DATA 2 4 5 10 4 10 8 2 3
LET X = DATA 1 1 1 2 3 3 3 3
LINE BLANK DASH
CHARACTER X BLANK
XLIMITS 0.5 3.5
YLIMITS 0 500
Y1LABEL PRODUCT
X1LABEL GROUP ID
TITLE AUTOMATIC
PRODUCT PLOT Y X