

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 2 3 3 3 3
LINE BLANK DASH
CHARACTER X BLANK
XLIMITS 0.5 3.5
YLIMITS 0 500
YILABEL PRODUCT
XILABEL GROUP ID
TITLE AUTOMATIC
PRODUCT PLOT Y X
```

