

SUM PLOT

PURPOSE

Generates a subsample sum versus subsample index plot.

DESCRIPTION

The subsample sum is the sum of the data in the subsample. The sum plot is used to answer the question: "Does the subsample sum-of-counts change over different subsamples?" It consists of:

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

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

SYNTAX

SUM 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

```
SUM PLOT Y X
SUM PLOT Y X1 SUBSET X1 > 2
```

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

CHARACTERS	=	Sets the type for plot characters.
LINES	=	Sets the type for plot lines.
FREQUENCY (LET)	=	Compute subsample frequencies.
HISTOGRAM	=	Generates a histogram.
PRODUCT PLOT	=	Generates a product plot.
MEAN PLOT	=	Generates a mean plot.
BOX PLOT	=	Generates a box plot.
PLOT	=	Generates a data or function plot.

APPLICATIONS

Exploratory Data Analysis

IMPLEMENTATION DATE

88/9

PROGRAM

```
LET Y = DATA 2 4 5 10 10 20 25 30 35
LET X = DATA 1 1 1 2 2 3 3 3 3
LINE BLANK DASH
CHARACTER X BLANK
XLIMITS 0.5 3.5
YILABEL SUM
XILABEL GROUP ID
TITLE AUTOMATIC
SUM PLOT Y X
```

