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
X LIMITS 0.5 3.5
Y LABEL SUM
X LABEL GROUP ID
TITLE AUTOMATIC
SUM PLOT Y X