MIDMEAN PLOT

PURPOSE
Generates a subsample midmean versus subsample index plot.

DESCRIPTION
The subsample midmean is the mean of the middle 50% of the ordered data in the subsample. The midmean plot is used to answer the question: “Does the subsample location change over different subsamples?” The plot consists of:

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

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

SYNTAX
MIDMEAN 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
MIDMEAN PLOT Y X
MIDMEAN PLOT Y X SUBSET X > 1

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
CHARACTERS  =  Sets the type for plot characters.
LINES  =  Sets the type for plot lines.
MEAN PLOT  =  Generates a mean plot.
MEDIAN PLOT  =  Generates a median plot.
MIDRANGE PLOT  =  Generates a midrange plot.
TRIMMED MEAN PLOT  =  Generates a trimmed mean plot.
WINDSORIZED MEAN PLOT  =  Generates a Windsorized mean plot.
SD PLOT  =  Generates a standard deviation plot.
BOX PLOT  =  Generates a box plot.
XBAR CHART  =  Generates an xbar control chart.
PLOT  =  Generates a data or function plot.

APPLICATIONS
Quality Control

IMPLEMENTATION DATE
88/2
PROGRAM
SKIP 25
READ GEAR.DAT Y X
LINE BLANK DASH
CHARACTER X BLANK
XTIC OFFSET 0.2 0.2
Y1LABEL MIDMEAN
X1LABEL SAMPLE ID
TITLE AUTOMATIC
MIDMEAN PLOT Y X