

MEDIAN PLOT

PURPOSE

Generates a subsample median versus subsample index plot.

DESCRIPTION

The subsample median is the middle of the ordered data from the subsample. The median plot is used to answer the question: "Does the subsample location change over different subsamples?" The plot consists of:

Vertical axis = subsample median;

Horizontal axis = subsample index.

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

SYNTAX

MEDIAN 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

MEDIAN PLOT Y X

MEDIAN 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. |
| MIDMEAN PLOT | = | Generates a midmean 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 MEDIAN
X1LABEL SAMPLE ID
TITLE AUTOMATIC
MEDIAN PLOT Y X
```

