MINIMUM PLOT

PURPOSE
Generates a subsample minimum versus subsample index plot.

DESCRIPTION
The subsample minimum is the smallest data value in the subsample. The minimum plot is used to answer the question: "Does the subsample variation change over different subsamples?" The plot consists of:

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

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

SYNTAX
MINIMUM 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
MINIMUM PLOT Y X
MINIMUM PLOT Y X SUBSET X = 1 TO 10

DEFAULT
None

SYNONYMS
MIN PLOT

RELATED COMMANDS

CHARACTERS	=	Sets the type for plot characters.
LINES	=	Sets the type for plot lines.
MAXIMUM PLOT	=	Generates a maximum plot.
RANGE PLOT	=	Generates a range plot.
LOWER QUARTILE PLOT	=	Generates a lower quartile plot.
UPPER QUARTILE PLOT	=	Generates a upper quartile plot.
LOWER HINGE PLOT	=	Generates a lower hinge plot.
UPPER HINGE PLOT	=	Generates a upper hinge plot.
DECILE PLOT	=	Generates a decile plot.
STANDARD DEVIATION PLOT	=	Generates a stand deviation plot.
VARIANCE PLOT	=	Generates a variance plot.
MEAN PLOT	=	Generates a mean plot.
MEDIAN PLOT	=	Generates a median plot.
BOX PLOT	=	Generates a box plot.
RANGE CHART	=	Generates a range control chart.
S CHART	=	Generates a standard deviation control chart.
PLOT	=	Generates a data or function plot.

APPLICATIONS
Quality Control

IMPLEMENTATION DATE
88/2

PROGRAM

```
SKIP 50
SET READ FORMAT 3F4.0,F5.0,F6.0,F3.0,2F9.0
READ PBF11.DAT YEAR DAY BOT SD F11 FLAG WV CO2
.
RETAIN YEAR DAY BOT SD F11 WV CO2 FLAG SUBSET FLAG 0
LET MONTH=INT(DAY/30.25)+1
LINE BLANK DASH
CHARACTER X BLANK
XLIMITS 0 15
Y1LABEL MINIMUM
X1LABEL GROUP ID
TITLE AUTOMATIC
MINIMUM PLOT WV MONTH
```