FILTER WIDTH

PURPOSE
Specifies the number (this number must be odd) of equally-spaced points to be considered as a moving set in subsequent SMOOTH commands.

SYNTAX
FILTER WIDTH <value>

where <value> is an odd integer number or parameter in the range 1 to N, where N is the sample size, that specifies the desired filter width.

EXAMPLES
FILTER WIDTH 7
FILTER WIDTH 3
FILTER WIDTH 11
FILTER WIDTH W

DEFAULT
The default filter width is 3.

SYNONYMS
None

RELATED COMMANDS
SMOOTH	=	Carries out a smoothing.
FIT	=	Carries out a least squares fit.
POLYNOMIAL DEGREE	=	Sets the polynomial degree for smoothing and fitting.

APPLICATIONS
Smoothing

IMPLEMENTATION DATE
Pre-1987

PROGRAM

        SKIP 25
        READ MAVRO.DAT Y
        LET N = SIZE Y
        LET X = SEQUENCE 1 1 N
        .
        MULTIPLOT 2 2; MULTIPLOT CORNER COORDINATES 0 0 100 100
        CHARACTER CIRCLE BLANK
        LINES BLANK SOLID
        CHARACTER SIZE 1.5
        SMOOTH Y
        TITLE DEFAULT SMOOTH
        PLOT Y PRED VS X
        TITLE FILTER WIDTH 5
        FILTER WIDTH 5
        SMOOTH Y
        PLOT Y PRED VS X
        TITLE FILTER WIDTH 7
        FILTER WIDTH 7
        SMOOTH Y
        PLOT Y PRED VS X
        TITLE FILTER WIDTH 9
        FILTER WIDTH 9
        SMOOTH Y
        PLOT Y PRED VS X
        END OF MULTIPLOT