MAXIMUM

PURPOSE
Compute the maximum value in a variable.

SYNTAX
LET <par> = MAXIMUM <y> <SUBSET/EXCEPT/FOR qualification>
where <y> is the variable for which the maximum is to be computed;
<par> is a parameter where the maximum value is saved;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LET A1 = MAXIMUM Y1
LET A1 = MAXIMUM Y1 SUBSET Y1 > 0

NOTE
The distinction between this command and the MAX library function is that the MAXIMUM command computes the maximum value
of a single variable while the MAX function computes the maximum of a pair of numbers. If the arguments to the MAX library function
are variables, it returns a variable containing the pairwise maximums.

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
MAXIMUM PLOT = Generate a maximum versus subset plot.
MINIMUM = Compute the minimum of a variable.
LOWER QUARTILE = Compute the lower quartile of a variable.
UPPER QUARTILE = Compute the upper quartile of a variable.
DECILE = Compute the decile of a variable.
MEAN = Compute the mean of a variable.
STANDARD DEVIATION = Compute the standard deviation of a variable.
MAX = Library function to compute the maximum of 2 numbers.

APPLICATIONS
Exploratory Data Analysis

IMPLEMENTATION DATE
Pre-1987

PROGRAM
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 100
LET A = MAXIMUM Y1