EXTREME

PURPOSE
Compute the most extreme value in a variable.

DESCRIPTION
The most extreme value is the one with the largest absolute value. However, the sign is preserved.

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

EXAMPLES
LET A1 = EXTREME Y1
LET A1 = EXTREME Y1 SUBSET TAG > 2

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
EXTREME PLOT = Generate an extreme versus subset plot.
MINIMUM = Compute the minimum of a variable.
MAXIMUM = Compute the maximum of a variable.
LOWER QUARTILE = Compute the lower quartile of a variable.
UPPER QUARTILE = Compute the upper quartile of a variable.
MEAN = Compute the sample mean of a variable.
STANDARD DEVIATION = Compute the sample standard deviation of a variable.

APPLICATIONS
Exploratory Data Analysis

IMPLEMENTATION DATE
90/4

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