MIDMEAN

PURPOSE
Compute the midmean for a variable.

DESCRIPTION
The midmean of a variable is the mean of the observations between the 25th and 75th percentiles. It is sometimes used instead of the mean because it is more resistant to outliers.

SYNTAX
LET <par> = MIDMEAN <y> <SUBSET/EXCEPT/FOR qualification>
where <y> is the response variable;
<par> is a parameter where the computed midmean is stored;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LET A = MIDMEAN Y1
LET A = MIDMEAN Y1 SUBSET TAG > 2

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
MIDMEAN PLOT = Generate a midmean versus subset plot.
MEDIAN = Compute the median of a variable.
MEAN = Compute the mean of a variable.
TRIMMED MEAN = Compute the trimmed mean of a variable.
WINSORIZED MEAN = Compute the Winsorized mean of a variable.
MIDRANGE = Compute the midrange of a variable.
STANDARD DEVIATION = Compute the standard deviation of a variable.

APPLICATIONS
Data Analysis

IMPLEMENTATION DATE
Pre-1987

PROGRAM
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 100
LET A1 = MIDMEAN Y1