MEDIAN

PURPOSE
Compute the median for a variable.

DESCRIPTION
The median is the value of the observation for which half the observations are larger and half are smaller. If there are an even number of data points, the mean is taken of the 2 middle points. The median is sometimes used in place of the mean since it is less affected by outliers.

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

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

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
MEDIAN PLOT	=	Generate a median versus subset plot.
MEAN	=	Compute the mean of a variable.
MIDMEAN	=	Compute the midmean 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 = MEDIAN Y1