UPPER HINGE

PURPOSE
Compute the upper hinge of a variable.

DESCRIPTION
The upper hinge is a pseudo-75% point of a sample (see the Tukey book listed in the REFERENCE section below). Specifically, it is the median of the points between the median and the maximum point.

SYNTAX
LET <par> = UPPER HINGE <y>   <SUBSET/EXCEPT/FOR qualification>
where <y> is a response variable;
    <par> is a parameter where the computed upper hinge is saved;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LET UH = UPPER HINGE Y1
LET UH = UPPER HINGE Y1 SUBSET TAG > 2

DEFAULT
None

SYNONYMS
None, although UPPER QUARTILE is closely related.

RELATED COMMANDS

HINGE PLOT	=	Generates a hinge versus subset plot.
UPPER QUARTILE	=	Compute the upper quartile of a variable.
LOWER HINGE	=	Compute the lower hinge of a variable.
LOWER QUARTILE	=	Compute the lower quartile of a variable.
MINIMUM	=	Compute the minimum of a variable.
MAXIMUM	=	Compute the maximum 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.

REFERENCE
"Exploratory Data Analysis," John Tukey, Addison-Wesley, 1977.

APPLICATIONS
Exploratory Data Analysis

IMPLEMENTATION DATE
Pre-1987

PROGRAM
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 1000
LET HINGE = UPPER HINGE Y1