STANDARD DEVIATION OF THE MEAN

PURPOSE

Compute the standard deviation of the mean of a variable.

DESCRIPTION

The standard deviation of the mean is:

sd of mean = s/SQRT(N)

where s is the standard deviation of the variable and N is the number of observations.

SYNTAX

LET <par> = STANDARD DEVIATION OF THE MEAN <y> <SUBSET/EXCEPT/FOR qualification>
where <y> is a response variable;
<par> is a parameter where the computed standard deviation of the mean is saved;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

LET SD = STANDARD DEVIATION OF THE MEAN Y1
LET SD = STANDARD DEVIATION OF THE MEAN Y1 SUBSET TAG > 2

DEFAULT

None

SYNONYMS

SD OF THE MEAN
SD OF MEAN
SD MEAN
STANDARD DEVIATION OF MEAN
STANDARD DEVIATION MEAN

RELATED COMMANDS

STANDARD DEVIATION OF MEAN	=	Generates a standard deviation of the mean versus subset plot.
MEAN	=	Compute the mean of a variable.
STANDARD DEVIATION	=	Compute the standard deviation of a variable.
VARIANCE OF THE MEAN	=	Compute the variance of the mean of a variable.

APPLICATIONS

Data Analysis

IMPLEMENTATION DATE

Pre-1987

PROGRAM

```
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 100
LET SD = STANDARD DEVIATION OF THE MEAN Y1
```