COEFFICIENT OF VARIATION

PURPOSE

Compute the coefficient of variation of a variable.

DESCRIPTION

The coefficient of variation is:

cv = standard deviation/mean

SYNTAX

EXAMPLES

```
LET CV = COEFFICIENT OF VARIATION Y1
LET CV = COEFFICIENT OF VARIATION Y1 SUBSET TAG > 2
```

NOTE

Versions prior to 94/11 treated this command as a synonym for RELATIVE STANDARD DEVIATION. The relative standard deviation is:

```
relsd = 100*sd/|mean|
```

That is, with the relative standard deviation, the sign of the mean is ignored.

DEFAULT

None

SYNONYMS

COEFFICIENT VARIATION

RELATEDCOMMANDS

RELATIVE STANDARD DEVI = Compute the standard deviation of a variable.

MEAN = Compute the mean of a variable.

STANDARD DEVIATION = Compute the standard deviation of a variable.

RELATIVE SD PLOT = Generate a relative standard deviation (versus subset) plot.

APPLICATIONS

Data Analysis

IMPLEMENTATION DATE

94/11 (earlier versions use a different definition)

PROGRAM

```
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 100
LET CV = COEFFICIENT OF VARIATION X1
```