

NORMAL PPCC

PURPOSE

Compute the normal probability plot correlation coefficient (also called the ppcc) value for a variable.

DESCRIPTION

The normal ppcc is the correlation coefficient of the normal probability plot of a data set (see the documentation for PPCC PLOT for details). The normal ppcc is a measure of linearity of a normal probability plot and hence is a measure of goodness of fit of the normal distribution to a data set.

SYNTAX

```
LET <par> = NORMAL PPCC <y> <SUBSET/EXCEPT/FOR qualification>
```

where <y> is a response variable;

<par> is the parameter where the normal ppcc value is saved;

and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

```
LET A = NORMAL PPCC PLOT Y
```

```
LET A = NORMAL PPCC PLOT Y SUBSET Y > -3
```

NOTE

See the data file NORPPCC.DAT for 5% and 1% cutoff values of the PPCC for the normal distribution. This file is in the DATAPLOT reference catalog. The contents can be viewed by entering the command:

```
LIST NORPPCC.DAT
```

See your site maintainer if you cannot locate the file.

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

NORMAL PPCC PLOT	=	Generates a normal ppcc versus subset plot.
PPCC PLOT	=	Generates a probability plot correlation coefficient plot.
PROBABILITY PLOT	=	Generates a probability plot.

APPLICATIONS

Exploratory Data Analysis

IMPLEMENTATION DATE

94/2

PROGRAM

```
LET Y = CAUCHY RANDOM NUMBERS FOR I = 1 1 100
```

```
LET A = NORMAL PPCC Y
```