LOFCDF

PURPOSE

An internal DATAPLOT parameter into which the lack of fit F test cumulative distribution function value (a measure of goodness of fit) is automatically placed whenever replication exists and the FIT, SPLINE FIT, ANOVA, and MEDIAN POLISH commands are executed.

DESCRIPTION

The stored value is between 0 ands 100%. The hypothesis being tested is that the given model is adequate. As a rough rule of thumb, a value of the lack-of-fit cdf in the "body" of the F distribution (0 to 95%) indicates that no evidence exists from the data to reject this hypothesis (that is, the model is "acceptable"); a value of the lack-of-fit cdf larger than 95% indicates that evidence does exist from the data to reject the model (that is, the model is not acceptable).

SYNTAX

None

EXAMPLES

WRITE LOFCDF
WRITE CALIB. REPSD RESSD LOFCDF

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

FIT	=	Carries out a least squares fit.
SPLINE FIT	=	Carries out a spline fit.
ANOVA	=	Carries out an ANOVA.
MEDIAN POLISH	=	Carries out a median polish.
RESSD	=	A parameter where the residual standard deviation is stored.
RESDF	=	A parameter where the residual degrees of freedom is stored.
REPSD	=	A parameter where the replication standard deviation is stored.
REPDF	=	A parameter where the replication degrees of freedom is stored.

APPLICATIONS

Fitting

IMPLEMENTATION DATE

Pre-1987

PROGRAM

SKIP 25
READ BERGER1.DAT Y X
LINEAR FIT Y X
PRINT REPSD REPDF LOFCDF