RESDF

PURPOSE
An internal DATAPLOT parameter into which the residual degrees of freedom is automatically placed whenever the FIT, PRE-FIT, Spline Fit, Smooth, ANOVA, LOWESS, and MEDIAN POLISH commands are executed.

DESCRIPTION
In general, the formula is:

\[ \text{RESDF} = \text{total number of observations} - \text{number of parameters} + \text{the number of constraints}. \]

RESDF can be used by the analyst in whatever fashion desired.

SYNTAX
None

EXAMPLES
WRITE RESDF REPSD RESDF RESSD LOGCDF
LET SSQD = RESDF*(REPSD**2)
WRITE CALIB. RESDF REPSD RESDF RESSD LOGCDF

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
- **PRED** = A variable where predicted values are stored.
- **RES** = A variable where residuals are stored.
- **RESSD** = A parameter where the residual standard deviation is stored.
- **REPSD** = A parameter where the replication standard deviation is stored.
- **REPDF** = A parameter where the replication degrees of freedom is stored.
- **LOFCDF** = A parameter where the lack of fit cdf is stored.
- **FIT** = Carries out a least squares linear or non-linear fit.
- **EXACT RATIONAL FIT** = Carries out an exact rational fit.
- **PRE-FIT** = Carries out a least squares pre-fit.
- **SPLINE FIT** = Carries out a spline fit.
- **LOWESS** = Carries out a locally weighted least squares fit.
- **SMOOTH** = Carries out a smoothing.
- **ANOVA** = Carries out an ANOVA.
- **MEDIAN POLISH** = Carries out a median polish.
- **PLOT** = Generates a data/function plot.

APPLICATIONS
Fitting

IMPLEMENTATION DATE
Pre-1987

PROGRAM
SKIP 25
READ BERGER1.DAT Y X
LINEAR FIT Y X
PRINT RESSD RESDF