Command   FERROR

PURPOSE   Specify errors (uncertainties) of experimental data

PARAMETERS

/NONE   No errors (uncertainties) of the experimental data are known. In this case, constant weight factors are internally attributed to all data points.

/OWN   For analyzers, the errors of the corresponding attached error analyzer are used. For pseudoanalyzers, the error values given in the dataset are used. Only symmetrical errors are supported. If asymmetric errors are given in the input dataset, symmetrized errors are used for the fit.
If the fit is performed to the representation in logarithmic mode, symmetrized logarithmic errors are used for the fit. Note that this option is better adapted to the asymmetric uncertainties of data which are subject to Poission statistics.

/STATISTIC   Experimental data have statistical errors, i.e. the errors are defined by the square root of the respective bin content according to the Poisson statistics.

/THEORY   Errors of the data to be fitted are determined by the theoretical distribution, i.e. the square root of the corresponding fit-function values.

/PERCENT(r)   Each data point has an error of r percent of the bin content.

REMARKS   The reciprocal squares of the experimental errors determine the weight factor used in the least-squares fit.
Initially and after the command "FINIT" no experimental errors are defined. In this case, constant weight factors are used. If no errors are defined, the errors (uncertainties) of the fit parameters cannot be evaluated, thus the command "FRESULT" will only list the adjusted parameter values without errors.