

Command	FLIST
<b>PURPOSE</b>	List experimental and fit data with their uncertainties
<b>PARAMETERS</b>	
WINDOWS	List of windows, interpreted as follows: number: analyzer condition letter: display window # : temporary window * all fit windows (defined by the command " <a href="#">FWIN</a> ")
/DISPLAY_WINDOW	List the data of all display windows.
/CURSOR	Define lower and upper limit of data range to be listed by the cursor
/CONDITIONS	The data of all conditions of the displayed analyzer (unless equal to the analyzer limits) are listed.
/LOOP	Windows are entered by cursor or terminal input loop. For details see command " <a href="#">FWIN</a> ".
/GRAPHIC	Data are written to the current picture.
<b>REMARKS</b>	<p>If defined by the command "<a href="#">FERR</a>", symmetric experimental errors are calculated; fit errors are derived from the variances and covariances of the fit parameters. Thus the <b>fit errors correspond to the uncertainty of the fit function for the different x values</b>. Fit errors can only be evaluated, if experimental errors are provided on input and if the fit has converged.</p> <p>If not specified differently, all data within the display region are listed.</p> <p>Fit values and their uncertainties are listed for the x values, for which data are given on input. Use the following procedure to <b>evaluate and list the fit values and their errors for x values, for which no experimental data exist</b>:</p> <ol style="list-style-type: none"> <li>1) Add some arbitrary "experimental" data values and errors to the array of input values for those x values, for which you need the fit values and their uncertainties. For <a href="#">Pseudoanalyzers</a>, any x values can be added. They need not to be equidistant. These values must be different from zero, if zeroes are excluded from the fit. (See command "SET / FITMODE(ZEROES)".)</li> <li>2) Exclude these additional data from the fit by the fit window(s), using the command "<a href="#">FWIN</a>" or "<a href="#">FWIN</a> / LOOP".</li> <li>3) Define the fit function and perform the fit.</li> <li>4) List the experimental and fit values of all data with their uncertainties, including for the arbitrarily added data points, by the command "FLIST".</li> </ol>

**EXAMPLE**  
**FLIST**

List the input data, their errors, the fit values, and the fit errors for all input data inside the display region. The example is given for an exponential fit function:

flist

<X>	EXP	FIT	ERR(EXP)	ERR(FIT)	DIFF/ERR
0.25	11150	11103.503	105.59356	90.600494	0.33418669
0.75	6666	6713.9762	81.645576	41.598924	-0.5235736
1.25	4033	4059.7527	63.505905	28.501277	-0.38433216
1.75	2478	2454.8184	49.779514	24.458811	0.41795953
2.25	1481	1484.3597	38.483763	20.371361	-0.07715772
2.75	907	897.55058	30.116441	15.968132	0.27720792

<I> Data are analog (histogram), corresponding to a continuous distribution.

X values: centres of the bins.

Experimental values: counts per bin.

Fit values: height of fit function (dy/dx) times bin width.

Enter command:

**FLIST / G**

Write experimental and fit data of the displayed range into the current picture.