Variable	I/O	Meaning
V_FitMaxIters	Input	Controls the maximum number of passes without convergence before stopping the fit. By default this is 40. You can set V_FitMaxIters to any value greater than 0. If V_FitMaxIters is less than 1 the default value of 40 is used.
V_FitNumIters	Output	Number of iterations. You must create this variable; it is not automatically created.
S_Info	Output	Keyword-value pairs giving certain kinds of information about the fit. You must create this variable; it is not automatically created.

V_FitOptions

There are a number of options that you can invoke for the fitting process by creating a variable named V_FitOptions and setting various bits in it. Set V_FitOptions to 1 to set Bit 0, to 2 to set Bit 1, etc.

Bit 0: Controls X Scaling of Auto-Trace Wave

If V_FitOptions exists and has bit 0 set (`Variable V_fitOptions=1`) and if the Y data wave is on the top graph then the X scaling of the auto-trace destination wave is set to match the appropriate x axis on the graph. This is useful when you want to extrapolate the curve outside the range of x data being fit.

A better way to do this is with the /X flag (not parameter- this flag goes immediately after the CurveFit or FuncFit operation and before the fit function name). See **CurveFit** for details.

Bit 1: Robust Fitting

You can get a form of robust fitting where the sum of the absolute deviations is minimized rather than the squares of the deviations, which tends to deemphasize outlier values. To do this, create V_FitOptions and set bit 1 (`Variable V_fitOptions=2`).

Warning 1: No attempt to adjust the results returned for the estimated errors or for the correlation matrix has been made. You are on your own.

Warning 2: Don't set this bit and then forget about it.

Warning 3: Setting Bit 1 has no effect on line, poly or poly2D fits.

Bit 2: Suppresses Curve Fit Window

Normally, an iterative fit puts up an informative window while the fit is in progress. If you don't want this window to appear, create V_FitOptions and set bit 2 (`Variable V_fitOptions=4`). This may speed things up a bit if you are performing batch fitting on a large number of data sets.

A better way to do this is via the /W=2 flag. See **CurveFit** for details.

Bit 3: Save Iterates

It is sometimes useful to know the path taken by a curve fit getting to a solution (or failing to). To save his information, create V_FitOptions and set bit 3 (`Variable V_FitOptions=8`). This creates a matrix wave called M_iterates, which contains the values of the fit coefficients at each iteration. The matrix has a row for each iteration and a column for each fit coefficient. The last column contains the value of chi square for each iteration.

Bit 4: Suppress Screen Updates

Works just like setting the /N=1 flag. See **CurveFit** for details.

Added in Igor Pro 7.00.