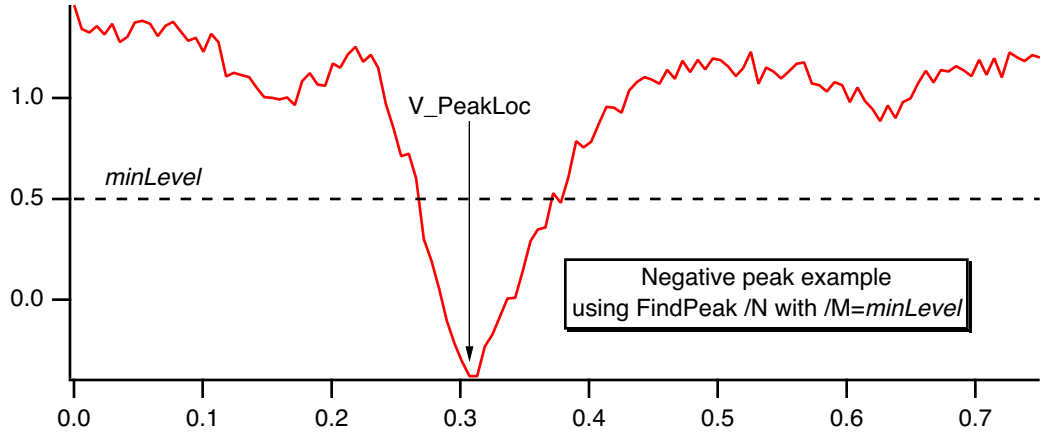
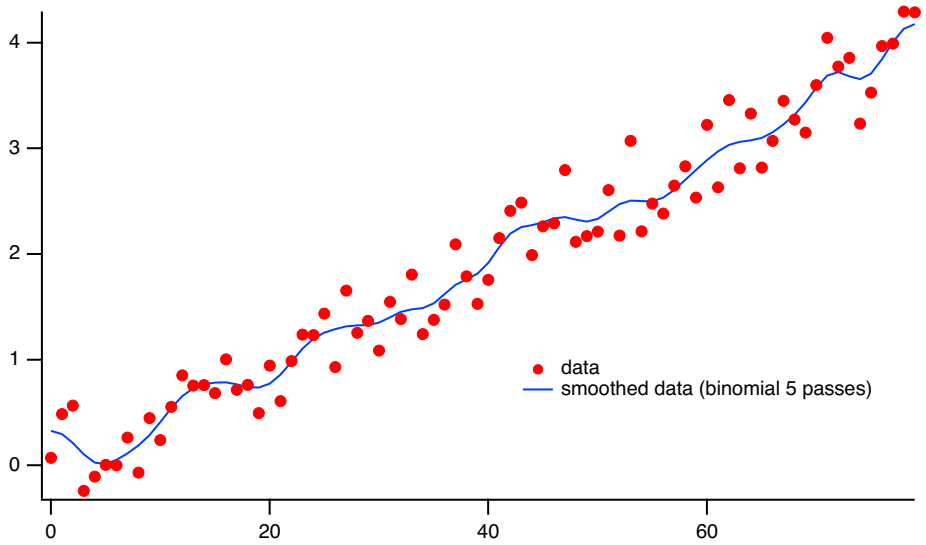


To find multiple peaks, write a procedure that calls FindPeak from within a loop. After a peak is found, restrict the range of the search with /R so that the just-found peak is excluded, and search again. Exit the loop when V_Flag indicates a peak wasn't found.

The FindPeak operation does not work on an XY pair. See **Converting XY Data to a Waveform** on page III-109.

Smoothing

Smoothing is a specialized filtering operation used to reduce the variability of data. It is sometimes used to reduce noise.



This section discusses smoothing 1-dimensional waveform data with the **Smooth**, **FilterFIR**, and **Loess** operations. Also see the **FilterIIR** and **Resample** operations.

Smoothing XY data can also be handled by the **Loess** operation and the Median.ipf procedure file (see **Median Smoothing** on page III-296).

The **MatrixFilter**, **MatrixConvolve**, and **ImageFilter** operations smooth image and 3D data.

Igor has several built-in 1D smoothing algorithms. In addition, you can supply your own smoothing coefficients.