You can override the default, instructing Igor to draw lines through NaNs. See **Gaps** on page II-303 for details.

Scaling Graphs

Igor provides several ways of scaling waves in graphs. All of them allow you to control what sections of your waves are displayed by setting the range of the graph's axes. Each axis is either autoscaled or manually scaled.

Autoscaling

When you first create a graph all of its axes are in **autoscaling** mode. This means that Igor automatically adjusts the extent of the axes of the graph so that all of each wave in the graph is fully in view. If the data in the waves changes, the axes are automatically rescaled so that all waves remain fully in view.

If you manually scale any axis, that axis changes to **manual scaling** mode. The methods of manual scaling are described in the next section. Axes in manual scaling mode are never automatically scaled.

If you choose Autoscale Axes from the Graph menu all of the axes in the graph are autoscaled and returned to autoscaling mode. You can set individual axes to autoscaling mode and can control properties of autoscaling mode using the Axis Range tab of the Modify Axis dialog described in **Setting the Range of an Axis** on page II-286.

Manual Scaling

You can manually scale one or more axes of a graph using the mouse. Start by clicking the mouse and dragging it diagonally to frame the region of interest. Igor displays a dashed outline around the region. This outline is called a marquee. A marquee has handles and edges that allow you to refine its size and position.

To refine the size of the marquee move the cursor over one of the handles. The cursor changes to a double arrow which shows you the direction in which the handle moves the edge of the marquee. To move the edge click the mouse and drag.

To refine the position of the marquee move the cursor over one of the edges away from the handles. The cursor changes to a hand. To move the marquee click the mouse and drag.

When you click inside the region of interest Igor presents a pop-up menu from which you can choose the scaling operation.

Choose the operation you want and release the mouse. These operations can be undone and redone; just press Command-Z (*Macintosh*) or Ctrl+Z (*Windows*).

The **Expand** operation scales all axes so that the region inside the marquee fills the graph (zoom in). It sets the scaling mode for all axes to manual.

The **Horiz Expand** operation scales only the horizontal axes so that the region inside the marquee fills the graph horizontally. It has no effect on the vertical axes. It sets the scaling mode for the horizontal axes to manual.

The **Vert Expand** operation scales only the vertical axes so that the region inside the marquee fills the graph vertically. It has no effect on the horizontal axes. It sets the scaling mode for the vertical axes to manual.