

Chapter II-13 — Graphs

Sometimes you can end up with a graph whose size makes it difficult to move or resize the window. Use the Graph menu's Modify Graph dialog to reset the size of the graph to something more manageable.

You can change a graph dimension by dragging with the mouse only if it is in auto mode. If you want to resize a graph but can't, use the Modify Graph dialog to check the width and height modes.

If you want to fully understand how Igor arrives at the final size of a graph when the width or height is constrained, you need to understand the algorithm Igor uses:

1. The initial width and height are calculated. When you adjust a window by dragging, the initial width and height are based on the width and height to which you drag the window.
2. If you are exporting graphics, the width and height are as specified in the Export Graphics dialog or in the **SavePICT** command.
3. If you are printing, the width and height are modified by the effects of the printing mode, as set by the **PrintSettings** graphMode keyword.
4. The width modes absolute and per unit are applied which may generate a new width.
5. The height mode is applied which may generate a new height.
6. The width modes aspect and plan are applied which may generate a new width.

Because there are many interactions, it is possible to get a graph so big that you can't adjust it manually. If this occurs, use the Modify Graph dialog to set the width and height to a manageable size, using absolute mode.

Modifying Traces

You can specify each trace's appearance in a graph by choosing Modify Trace Appearance from the Graph menu or by double-clicking a trace in the graph. This brings up the following dialog:

For image plots, choose Modify Image Appearance from the Graph menu, rather than Modify Trace Appearance.

For contour plots, you normally should choose Modify Contour Appearance. Use this to control the appearance of all of the contour lines in one step. However, if you want to make one contour line stand out, use the Modify Trace Appearance dialog.

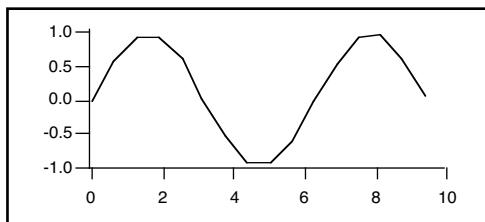
Selecting Traces to be Modified

Select the trace or traces whose appearance you want to modify from the Trace list. If you got to this dialog by double-clicking a trace in the graph then that trace will automatically be selected. If you select more than one trace, the items in the dialog will show the settings for the *first* selected trace.

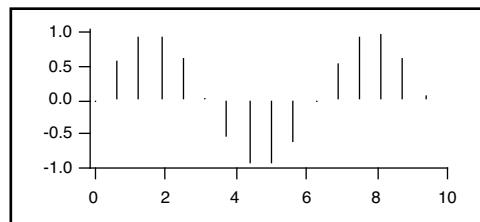
Once you have made your selection, you can change settings for the selected traces. After doing this, you can then select a different trace or set of traces and make more changes. Igor remembers all of the changes you make, allowing you to do everything in one trip to the dialog.

Display Modes

Choose the **mode** of presentation for the selected trace from the Mode pop-up menu. The commonly-used modes are Lines Between Points, Dots, Markers, Lines and Markers, and Bars. Other modes allow you to draw sticks, bars and fills to Y=0 or to another trace.



Lines between points mode



Sticks to zero mode