Subject: Re: Plotting Graphs on Same Plot With Axes Rescaled To Include Largest Range

Posted by David Fanning on Mon, 09 May 2011 19:32:40 GMT

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Chris Williams writes:

- > Is it possible to plot a set of 2D graphs on the same graph, with the
- > x,y-axes being rescaled to include the entire graph for each overplot?

>

- > The problem I am having is if I have two graphs, and the second graph
- > has a larger range than the first graph, both graphs will be on the
- > axes of the first graph instead of the second graph. This clips the
- > first graph which I do not want.

>

- > Using the /NOERASE keyword keeps ALL of the axes on a set of plot,
- > instead of the one with the largest range of values.

>

- > Ideally, I am looking for a keyword to automatically set the graph
- > axes to the data set with the largest range of values. For example,
- > when using gnuplot, if you "plot func1, func2, func3", gnuplot will
- > draw all three graphs and put them on the scale of the one with the
- > largest values, so that all of the functions can be seen.

minPlot = Min([data1,data2], Max=maxPlot) cgPlot, data1, YRANGE=[minPlot, maxPlot] cgPlot, data2, /Overplot

Similarly for the X values, if needed.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Plotting Graphs on Same Plot With Axes Rescaled To Include Largest Range

Posted by penteado on Mon, 09 May 2011 19:34:51 GMT

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On May 9, 4:18 pm, Chris Williams <fam36boozl...@gmail.com> wrote:

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- > x,y-axes being rescaled to include the entire graph for each overplot?

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With the iTools or (new) Graphics, that is the default behavior. With direct graphics, it is impossible: once something is drawn to the device, it stays there, and no information is preserved on how it was made. You may think of direct graphics as a printer. Once something goes there, you cannot take it back (though you can erase what is there).