
Subject: Re: A possible bug in IDL 8.2.3

Posted by [lecacheux.alain](#) on Sat, 08 Jun 2013 13:41:52 GMT

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Le samedi 8 juin 2013 14:37:28 UTC+2, David Grier a écrit :

> On Saturday, June 8, 2013 8:21:51 AM UTC-4, Xin Tao wrote:

>

>> Maybe you're right. However in IDL 8.2.2, the two lines in my first post will just give I what I wanted. So the behaviour of overplot actually changed with the release of 8.2.3.

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>> On Saturday, June 8, 2013 3:51:20 PM UTC+8, alx wrote:

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>>> Le samedi 8 juin 2013 09:15:24 UTC+2, Xin Tao a écrit :

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>>>> Hi Chris,

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>>>> Thanks for your reply. The main purpose here is to set the YRANGE and make all plots
obey the YRANGE set by a. I tried your second method, but I need to use the following three lines
to get a "normal" plot
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>>>> IDL> a=plot([0,1,3])
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>>>> IDL> b = plot([-1,1,2],/overplot)
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>>>> IDL> c=plot([-1,1,3],/overplot, yrange=[0,3])
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>>>> If I put yrange keyword in b, it doesn't help at all. Part of the line of b is still outside the box.
I have to use the third plot c to set the yrange to a value I want. This of course solved my issue,
but it's very strange that I have to use three lines to achieve this.
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>>>> On Saturday, June 8, 2013 12:03:26 PM UTC+8, Chris Torrence wrote:
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>>>> > On Friday, June 7, 2013 8:39:57 PM UTC-6, Xin Tao wrote:
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>>>> > > I don't know whether this is a bug or not, but the behaviour of the following two lines is
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>>>> > > IDL> b = plot([-1,1,2],/overplot, 'g')
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>>>> > > The line of b will go outside the plotting box, because it tried to get to -1, but the yrange
is limited to be [0,3] by a.
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>>>> > I would recommend either not setting the YRANGE, or, just setting the Yrange after you
add the second plot. Either way should get you what you want.
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>>> IDL> b = plot([-1,1,2], POSITION=a.POSITION, YRANGE=a.YRANGE, /CURRENT, 'g')
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> I agree with Xin that the new behavior is less desirable than the old. If I set the range in the
original plot, then I probably want to keep that range as I build up the graphic. I wonder if this new
behavior is related to the issue of plotting speed for complicated graphics that arose over 8.2.2.
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> David

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Indeed the behaviour of keyword OVERPLOT looks like to have changed in 8.2.3.

In 8.2.2 and before, when using /OVERPLOT, the axis ranges were modified as needed in order to show all of the two curves in a single window. In 8.2.3, the second plot seems to be just shown unclipped within the initial window. The new behaviour appears to me a bit more consistent, but still not ideal.

I shall continue to prefer the combination of POSITION and RANGE keywords in order to safely overplot several curves.

alx.