Subject: A possible bug in IDL 8.2.3
Posted by Xin Tao on Sat, 08 Jun 2013 02:39:57 GMT
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I don't know whether this is a bug or not, but the behaviour of the following two lines is not what I expected

IDL> a=plot([0,1,3],yrange=[0,3])
IDL> b = plot([-1,1,2],/overplot, 'g')

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.

Here is my IDL version:

{ x86_64 darwin unix Mac OS X 8.2.3 May 2 2013   64   64}

Please let me know whether there is anything I can do about it.

Thanks,

Xin

Subject: Re: A possible bug in IDL 8.2.3
Posted by David Fanning on Sat, 08 Jun 2013 03:32:51 GMT
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Xin Tao writes:

> I don't know whether this is a bug or not, but the behaviour of the following two lines is not what I expected
>
> IDL> a=plot([0,1,3],yrange=[0,3])
> IDL> b = plot([-1,1,2],/overplot, 'g')

What did you expect?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

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

Subject: Re: A possible bug in IDL 8.2.3
Posted by chris_torrence@NOSPAM on Sat, 08 Jun 2013 04:03:26 GMT
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On Friday, June 7, 2013 8:39:57 PM UTC-6, Xin Tao wrote:
> I don't know whether this is a bug or not, but the behaviour of the following two lines is not what I expected
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Hi Xin,
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.
Cheers,
Chris
ExelisVIS

Subject: Re: A possible bug in IDL 8.2.3
Posted by Xin Tao on Sat, 08 Jun 2013 07:07:34 GMT
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I expected it to behave in a normal way; i.e., the line of b should not go outside the box, since I have already set the yrange of the plot.

On Saturday, June 8, 2013 11:32:51 AM UTC+8, David Fanning wrote:
> Xin Tao writes:
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Subject: Re: A possible bug in IDL 8.2.3
Posted by Xin Tao on Sat, 08 Jun 2013 07:15:24 GMT
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Hi Chris,

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

IDL> a=plot([0,1,3])
IDL> b = plot([-1,1,2],/overplot)
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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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Subject: Re: A possible bug in IDL 8.2.3
Posted by lecacheux.alain on Sat, 08 Jun 2013 07:51:20 GMT
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Le samedi 8 juin 2013 09:15:24 UTC+2, Xin Tao a écrit :
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IDL> a = plot([0,1,3],yrange=[0,3])
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alx.

Subject: Re: A possible bug in IDL 8.2.3
Posted by Xin Tao on Sat, 08 Jun 2013 12:21:51 GMT
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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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Subject: Re: A possible bug in IDL 8.2.3
Posted by dg86 on Sat, 08 Jun 2013 12:37:28 GMT
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>> alx.

I agree with Xin that the new behavior is less desirable that 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.

David

Subject: Re: A possible bug in IDL 8.2.3
Posted by lecacheux.alain on Sat, 08 Jun 2013 13:41:52 GMT
View Forum Message <> Reply to Message

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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 not what I expected
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>>>> > > IDL> b = plot([-1,1,2],/overplot, 'g')
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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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>>> My understanding is that OVERPLOT keyword in NG *does not* work like the OPLOT of DG. Indeed, by using OVERPLOT=gr (or 1), you will mix the added plot with the 'gr' (or current) one, but without necessarily retaining the initial plot axes.
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>>> To get what you want, you must do a true overlay as follows:
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>>> IDL> a = plot([0,1,3],yrange=[0,3])
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>>> IDL> b = plot([-1,1,2], POSITION=a.POSITION, YRANGE=a.YRANGE, /CURRENT, 'g')
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>>> alx.
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> I agree with Xin that the new behavior is less desirable that 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.

>
>
>
> David

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 8.2.2, 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.

Subject: Re: A possible bug in IDL 8.2.3
Posted by Haje Korth on Thu, 13 Jun 2013 20:24:42 GMT
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This bugs is so bad, it virtually breaks all my codes. So I am doing what I have never done in almost 30 years of using IDL, which is to roll back to an older version. So v8.2.2 it is until the next release.

On Friday, June 7, 2013 10:39:57 PM UTC-4, Xin Tao wrote:
> I don't know whether this is a bug or not, but the behaviour of the following two lines is not what I expected
>
>
>
> IDL> a=plot([0,1,3],yrange=[0,3])
>
> IDL> b = plot([-1,1,2],/overplot, 'g')
>
>
>
> 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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>
> Here is my IDL version:
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> { x86_64 darwin unix Mac OS X 8.2.3 May 2 2013 64 64}
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>
> Please let me know whether there is anything I can do about it.
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> Thanks,
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>
> Xin

Subject: Re: A possible bug in IDL 8.2.3
Posted by David Fanning on Thu, 13 Jun 2013 20:31:39 GMT
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Haje Korth writes:

> This bugs is so bad, it virtually breaks all my codes. So I am doing what I have never done in almost 30 years of using IDL, which is to roll back to an older version. So v8.2.2 it is until the next release.

Let's see, I think I predicted that the function graphics system is so complicated that fixing one thing would inevitably have to break something else. Let's hope whatever it is in next release doesn't affect your work. ;-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: A possible bug in IDL 8.2.3
Posted by Haje Korth on Thu, 13 Jun 2013 20:53:27 GMT
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Congratulations on your prediction, wish you were wrong!

On Thursday, June 13, 2013 4:31:39 PM UTC-4, David Fanning wrote:
> Haje Korth writes:
>

>
>
>> This bugs is so bad, it virtually breaks all my codes. So I am doing what I have never done in almost 30 years of using IDL, which is to roll back to an older version. So v8.2.2 it is until the next release.
>
>
>
> Let's see, I think I predicted that the function graphics system is so
>
> complicated that fixing one thing would inevitably have to break
>
> something else. Let's hope whatever it is in next release doesn't affect
>
> your work. ;-)
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> Cheers,
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> David
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> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: A possible bug in IDL 8.2.3
Posted by David Fanning on Thu, 13 Jun 2013 20:55:13 GMT
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Haje Korth writes:

> Congratulations on your prediction, wish you were wrong!

Yes, no joy in being right, that's for sure.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: A possible bug in IDL 8.2.3
Posted by chris_torrence@NOSPAM on Fri, 14 Jun 2013 17:43:35 GMT
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Hi all,

This is indeed a bug in IDL 8.2.3. When I tried out Xin's initial code, I didn't see the problem because it had already been fixed, so I assumed it was just a misunderstanding of how overplot worked. My bad!

Anyway, it looks like it is just a couple of files that need to get changed. Mark Piper is going to post them to our website for download.

In the meantime, if you need a quick fix for the problem, one workaround is to disable and then re-enable clipping for the plot. Like this:

```
a=plot([0,1,3],yrange=[0,3])
b = plot([-1,1,2],/overplot, 'g',clip=0)
b.clip = 1
```

Sorry for the bug, and thanks for reporting it!

Cheers,
Chris
ExelisVIS

Subject: Re: A possible bug in IDL 8.2.3
Posted by Mark Piper on Fri, 14 Jun 2013 20:21:12 GMT
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On Friday, June 14, 2013 11:43:35 AM UTC-6, Chris Torrence wrote:
>
> Anyway, it looks like it is just a couple of files that need to get changed.
>

Here's Chris' fix. It requires two PRO files. Drop this file:

ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisdata space__define.pro

into the lib/itools/framework directory, and this file:

ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisplot __define.pro

into lib/itools/component. Reset your IDL session to ensure these autocompile when called.

I've checked this with Xin's code on Linux and Windows.

mp

Subject: Re: A possible bug in IDL 8.2.3
Posted by Haje Korth on Sat, 15 Jun 2013 10:24:23 GMT
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Thanks Chris and Mark. This one was a show stopper and the quick fix is much appreciated. Haje

On Friday, June 14, 2013 4:21:12 PM UTC-4, Mark Piper wrote:
> On Friday, June 14, 2013 11:43:35 AM UTC-6, Chris Torrence wrote:
>
>>
>
>> Anyway, it looks like it is just a couple of files that need to get changed.
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> Here's Chris' fix. It requires two PRO files. Drop this file:
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> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisdata space__define.pro
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> into the lib/itools/framework directory, and this file:
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> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisplot __define.pro
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> into lib/itools/component. Reset your IDL session to ensure these autocompile when called.
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>
> I've checked this with Xin's code on Linux and Windows.
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> mp

Subject: Re: A possible bug in IDL 8.2.3
Posted by David Fanning on Sun, 16 Jun 2013 14:27:20 GMT
View Forum Message <> Reply to Message

Mark Piper writes:

> Here's Chris' fix. It requires two PRO files. Drop this file:
>
> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisdata space__define.pro
>
> into the lib/itools/framework directory, and this file:
>
> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisplot __define.pro
>
> into lib/itools/component. Reset your IDL session to ensure these autocompile when called.
>
> I've checked this with Xin's code on Linux and Windows.

I just tried this on my Windows machine and it doesn't work. The reason, I *think* it doesn't work is that I don't have permission to write into those directories on my machine. (Although I don't get any errors when I try to save the files to those directories.) I have the same problem when I make any change in a lib file. I have to move the file to a directory I own to make the change.

I presume this has to do with permissions on these directories, and I presume I have permission to change those permissions. But, I have no idea how to go about this. Any ideas?

Cheers,

David

P.S. I just confirmed that even though it appeared I was able to write into those two directories, nothing in the two directories (as determined by the data modified property) was changed.

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: A possible bug in IDL 8.2.3
Posted by David Fanning on Sun, 16 Jun 2013 14:42:19 GMT
View Forum Message <> Reply to Message

David Fanning writes:

>
> Mark Piper writes:
>
>> Here's Chris' fix. It requires two PRO files. Drop this file:
>>
>> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisdata space__define.pro
>>
>> into the lib/itools/framework directory, and this file:
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>> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisplot __define.pro
>>
>> into lib/itools/component. Reset your IDL session to ensure these autocompile when called.
>>
>> I've checked this with Xin's code on Linux and Windows.
>
> I just tried this on my Windows machine and it doesn't work. The reason,
> I *think* it doesn't work is that I don't have permission to write into
> those directories on my machine. (Although I don't get any errors when I
> try to save the files to those directories.) I have the same problem
> when I make any change in a lib file. I have to move the file to a
> directory I own to make the change.
>
> I presume this has to do with permissions on these directories, and I
> presume I have permission to change those permissions. But, I have no
> idea how to go about this. Any ideas?
>
> Cheers,
>
> David
>
> P.S. I just confirmed that even though it appeared I was able to write
> into those two directories, nothing in the two directories (as
> determined by the data modified property) was changed.

To make this work on my Windows computer, I had to right-click on the /lib/itools folder and choose the Properties selection from the menu. Then, I had to chose the Security tab on the Properties dialog. I selected the Group CREATOR OWNER and hit the Edit tab below the Group selector and click the Allow box on the Full Control selection pop-up.

Then, I dragged the files from another location where I had saved them into the appropriate directories. I got a dialog indicating I needed Administrator privilege to move a file into the directory. I clicked OK, and they were moved into the directories successfully.

I don't know if any or all of this is necessary. I just know I can't save them into IDL-owned directories directly.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: A possible bug in IDL 8.2.3
Posted by Xin Tao on Mon, 17 Jun 2013 13:36:01 GMT
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This fix works great. Thanks.

Xin

On Saturday, June 15, 2013 4:21:12 AM UTC+8, Mark Piper wrote:
> On Friday, June 14, 2013 11:43:35 AM UTC-6, Chris Torrence wrote:
>
>>
>
>> Anyway, it looks like it is just a couple of files that need to get changed.
>
>>
>
>
>
> Here's Chris' fix. It requires two PRO files. Drop this file:
>
>

>
> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisdata space__define.pro
>
>
>
> into the lib/itools/framework directory, and this file:
>
>
>
> ftp://download.exelisvis.com/groups/esg/dropoff/idlitvisplot __define.pro
>
>
>
> into lib/itools/component. Reset your IDL session to ensure these autocompile when called.
>
>
>
> I've checked this with Xin's code on Linux and Windows.
>
>
>
> mp

Subject: Re: A possible bug in IDL 8.2.3
Posted by Mark Piper on Tue, 18 Jun 2013 18:13:18 GMT
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We've found a related clipping problem that affects CONTOUR and SURFACE. Drop this file:

ftp://download.exelisvis.com/groups/esg/dropoff/idlitsrvcrea tevisualization__define.pro

into the lib/itools/framework directory to fix it.

mp
