
Subject: oplot
Posted by [R.Bauer](#) on Fri, 12 Nov 1999 08:00:00 GMT
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Who knows more about this error?

It happens only using Z-Buffer. If I am using my screen no error happens.

% OPLOTT: No valid points, must have at least 2 distinct points

I tried on IBM AIX and WIN NT

Later on I'll post a small example.

R.Bauer

Subject: Re: oplot
Posted by [fireman](#) on Mon, 15 Nov 1999 08:00:00 GMT
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R.Bauer (R.Bauer@fz-juelich.de) wrote:
: > > Who knows more about this error?

This happened to me when I was using USERSYM and had no points in the current plot range. This behavior is supposed to have been fixed in IDL 5.2. I've been using this workaround:

```
IDL> clip = where( (x gt !x.crangle[0]) and (x lt !x.crangle[1]) $  
IDL>          and (y gt !y.crangle[0]) and (y lt !y.crangle[1]) )  
IDL> oplot, x[clip], y[clip]
```

--
-- Gwyn F. Fireman
-- General Sciences Corporation / MODIS Characterization Support Team
-- Gwyn.Fireman@gsc.nasa.gov 301-352-2118

Subject: Re: oplot
Posted by [R.Bauer](#) on Mon, 15 Nov 1999 08:00:00 GMT
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Michael Werger wrote:

> "R.Bauer" wrote:

>>
>> Who knows more about this error?
>>
>> It happens only using Z-Buffer. If I am using my screen no error
>> happens.
>> % OPLOT: No valid points, must have at least 2 distinct points
>>
>> I tried on IBM AIX and WIN NT
>>
>> Later on I'll post a small example.
>>
>> R.Bauer
>
> This is the usual error when you supply only a scalar to plot
> or oplot as argument, regardless if this is the first or second
> arg..
> But let's see your example.
> --

I have a vector If not I will get the same error on screen not especially on Z-Buffer.

I have at the moment no small example to reproduce this error, may be next week.

R.Bauer

Subject: Re: oplot
Posted by [Michael Werger](#) on Mon, 15 Nov 1999 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

"R.Bauer" wrote:

>
> Who knows more about this error?
>
> It happens only using Z-Buffer. If I am using my screen no error
> happens.
> % OPLOT: No valid points, must have at least 2 distinct points
>
> I tried on IBM AIX and WIN NT
>
> Later on I'll post a small example.
>
> R.Bauer

This is the usual error when you supply only a scalar to plot or oplot as argument, regardless if this is the first or second

arg..

But let's see your example.

--

Michael Werger

-----o

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Subject: Re: oplot

Posted by [R.Bauer](#) on Tue, 16 Nov 1999 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Gwyn Fireman wrote:

> R.Bauer (R.Bauer@fz-juelich.de) wrote:

> : > > Who knows more about this error?

>

> This happened to me when I was using USERSYM and had no points in the

> current plot range. This behavior is supposed to have been fixed in IDL

> 5.2. I've been using this workaround:

>

> IDL> clip = where((x gt !x.crange[0]) and (x lt !x.crange[1]) \$

> IDL> and (y gt !y.crange[0]) and (y lt !y.crange[1]))

> IDL> oplot, x[clip], y[clip]

>

> --

> -- Gwyn F. Fireman

> -- General Sciences Corporation / MODIS Characterization Support Team

> -- Gwyn.Fireman@gsfc.nasa.gov 301-352-2118

Thanks,

it is a problem with the usersym.

I'll try to make an example.

My data is in the range.

R.Bauer

Subject: Re: oplot

Posted by [Michael Galloy](#) on Mon, 25 Jan 2010 17:24:19 GMT

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On 1/25/10 7:16 AM, bing999 wrote:

```
> Hi,  
>  
> here is what i am trying to do:  
>  
>  
> "for i = 0,10 do begin  
>  
> if i eq 0 then begin  
>   plot,x1,y1,.....  
>   plot,w1,z1,.....  
>   .....  
> endif else begin  
>   oplot,x2,y2  
>   oplot,w2,z2  
>   .....  
> endelse  
>  
> endfor"  
>  
> but i want the "oplot,x2,y2" to overplot the "plot,x1,y1,....." ,  
> the "oplot,w2,z2" to overplot " plot,w1,z1,....." and so on; that  
> is to say, i want that each "oplot" command applies to the  
> corresponding "plot" procedure.  
> Whereas when i do the script written above, it overplots everything on  
> the last plot.  
> Is there any way to allocate a name/number to each "plot" procedure in  
> order to overplot the corresponding thing on it? like:  
>  
>  
> "for i = 0,10 do begin  
>  
> if i eq 0 then begin  
>   plot,x1,y1,NAME=1  
>   plot,w1,z1,NAME=2  
>   .....  
> endif else begin  
>   oplot,x2,y2,NAME=1  
>   oplot,w2,z2,NAME=2  
>   .....  
> endelse  
>  
> endfor"  
>  
>  
> Thank you!
```

I think you want something like:

```
if (i eq 0) then begin
  window, /free
  win1 = !d.window
  plot, x1, y1

  window, /free
  win2 = !d.window
  plot, w1, z1

  ...
endif else begin
  wset, win1
  oplot, x2, y2

  wset, win2
  plot, w2, z2

  ...
endelse
```

Mike

--

www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: oplot
Posted by [Paul Van Delst\[1\]](#) on Mon, 25 Jan 2010 18:29:52 GMT
[View Forum Message](#) <> [Reply to Message](#)

mgalloy wrote:

```
>
> I think you want something like:
>
> if (i eq 0) then begin
>   window, /free
>   win1 = !d.window
>   plot, x1, y1
>
>   window, /free
>   win2 = !d.window
>   plot, w1, z1
>
>   ...
> endif else begin
>   wset, win1
```

```
> oplot, x2, y2
>
> wset, win2
> plot, w2, z2
>
> ...
> endelse
```

And you might want to save the !X and !Y sysvars after each PLOT and then restore them before each OPLOT for each of the two plots, e.g.

```
; Master save
xsave = !x
ysave = !y

if (i eq 0) then begin
  window, /free
  win1 = !d.window
  plot, x1, y1
  x1save = !x
  y1save = !y

  window, /free
  win2 = !d.window
  plot, w1, z1
  x2save = !x
  y2save = !y

  ...
endif else begin
  wset, win1
  !x = x1save
  !y = y1save
  oplot, x2, y2

  wset, win2
  !x = x2save
  !y = y2save
  oplot, w2, z2

  ...
endelse

; Master restore
!x = xsave
!y = ysave
```

Probably overkill, but still...

cheers,

paulv

Subject: Re: oplot

Posted by [Thibault Garel](#) on Tue, 26 Jan 2010 09:52:02 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi, thanks for your answers. I should have mentioned that i want to save the plots as .ps then i use :

```
set_plot, 'ps'  
device, filename='myplots.ps',/color,bits_per_pixel=8
```

```
.....  
device, /close
```

and what you proposed seems not to work with such environment.
Is it possible to arrange that?
Thanks!

> mgalloy wrote:

>

>> I think you want something like:

>

>> if (i eq 0) then begin

>> window, /free

>> win1 = !d.window

>> plot, x1, y1

>

>> window, /free

>> win2 = !d.window

>> plot, w1, z1

>

>> ...

>> endif else begin

>> wset, win1

>> oplot, x2, y2

>

>> wset, win2

>> plot, w2, z2

>

>> ...

>> endelse

>

```
> And you might want to save the !X and !Y sysvars after each PLOT and then restore them
> before each OPLOT for each of the two plots, e.g.
>
> ; Master save
> xsave = !x
> ysave = !y
>
> if (i eq 0) then begin
>   window, /free
>   win1 = !d.window
>   plot, x1, y1
>   x1save = !x
>   y1save = !y
>
>   window, /free
>   win2 = !d.window
>   plot, w1, z1
>   x2save = !x
>   y2save = !y
>
>   ...
> endif else begin
>   wset, win1
>   !x = x1save
>   !y = y1save
>   oplot, x2, y2
>
>   wset, win2
>   !x = x2save
>   !y = y2save
>   oplot, w2, z2
>
>   ...
> endelse
>
> ; Master restore
> !x = xsave
> !y = ysave
>
> Probably overkill, but still...
>
> cheers,
>
> paulv
```

Subject: Re: oplot

Posted by [jkeller](#) on Tue, 26 Jan 2010 11:19:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Jan 26, 10:52 am, bing999 <thibaultga...@gmail.com> wrote:

> Hi, thanks for your answers. I should have mentioned that i want to
> save the plots as .ps then i use :

```
>  
> set_plot, 'ps'  
> device, filename='myplots.ps',/color,bits_per_pixel=8  
> .....  
> device, /close
```

>
> and what you proposed seems not to work with such environment.

> Is it possible to arrange that?

> Thanks!

>

>> mgalloy wrote:

>

>>> I think you want something like:

>

```
>>> if (i eq 0) then begin  
>>> window, /free  
>>> win1 = !d.window  
>>> plot, x1, y1
```

>

```
>>> window, /free  
>>> win2 = !d.window  
>>> plot, w1, z1
```

>

```
>>> ...  
>>> endif else begin  
>>> wset, win1  
>>> oplot, x2, y2
```

>

```
>>> wset, win2  
>>> plot, w2, z2
```

>

```
>>> ...  
>>> endelse
```

>

>> And you might want to save the !X and !Y sysvars after each PLOT and then restore then
>> before each OPLOT for each of the two plots, e.g.

>

```
>> ; Master save  
>> xsave = !x  
>> ysave = !y
```

>

```
>> if (i eq 0) then begin  
>> window, /free
```

```
>> win1 = !d.window
>> plot, x1, y1
>> x1save = !x
>> y1save = !y
>
>> window, /free
>> win2 = !d.window
>> plot, w1, z1
>> x2save = !x
>> y2save = !y
>
>> ...
>> endif else begin
>> wset, win1
>> !x = x1save
>> !y = y1save
>> oplot, x2, y2
>
>> wset, win2
>> !x = x2save
>> !y = y2save
>> oplot, w2, z2
>
>> ...
>> endelse
>
>> ; Master restore
>> !x = xsave
>> !y = ysave
>
>> Probably overkill, but still...
>
>> cheers,
>
>> paulv
>
>
```

Just take the !x,!y,x1save,y1save etc. part from pauls solution without the win stuff. That should work for you.

Regards,
Jan

Subject: Re: oplot
Posted by [Thibault Garel](#) on Tue, 26 Jan 2010 12:35:15 GMT

It does not work... It still oplots everything on the last plot...
I must keep only the "x1save = !x y1save = !y " after the "plot" and
the "!x = x1save !y = y1save" before the "oplot", thats it?

```
Are the " ; Master save
xsave = !x
ysave = !y"
and " ; Master restore
!x = xsave
!y = ysave "
```

lines respectively at the beginning and the end of the script are
useful? Should I add them?
Thank you for your help!

```
> Hi, thanks for your answers. I should have mentionned that i want to
> save the plots as .ps then i use :
>
> set_plot, 'ps'
> device, filename='myplots.ps',/color,bits_per_pixel=8
> .....
> device, /close
>
> and what you proposed seems not to work with such environment.
> Is it possible to arrange that?
> Thanks!
>
>> mgalloy wrote:
>
>>> I think you want something like:
>
>>> if (i eq 0) then begin
>>> window, /free
>>> win1 = !d.window
>>> plot, x1, y1
>
>>> window, /free
>>> win2 = !d.window
>>> plot, w1, z1
>
>>> ...
>>> endif else begin
>>> wset, win1
>>> oplot, x2, y2
>
>>> wset, win2
```

```

>>> plot, w2, z2
>
>>> ...
>>> endelse
>
>> And you might want to save the !X and !Y sysvars after each PLOT and then restore then
>> before each OPLOT for each of the two plots, e.g.
>
>> ; Master save
>> xsave = !x
>> ysave = !y
>
>> if (i eq 0) then begin
>>   window, /free
>>   win1 = !d.window
>>   plot, x1, y1
>>   x1save = !x
>>   y1save = !y
>
>>   window, /free
>>   win2 = !d.window
>>   plot, w1, z1
>>   x2save = !x
>>   y2save = !y
>
>>   ...
>> endif else begin
>>   wset, win1
>>   !x = x1save
>>   !y = y1save
>>   oplot, x2, y2
>
>>   wset, win2
>>   !x = x2save
>>   !y = y2save
>>   oplot, w2, z2
>
>>   ...
>> endelse
>
>> ; Master restore
>> !x = xsave
>> !y = ysave
>
>> Probably overkill, but still...
>
>> cheers,
>

```

>> paulv
>
>

Subject: Re: oplot
Posted by [Paul Van Delst\[1\]](#) on Thu, 28 Jan 2010 23:22:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

bing999 wrote:

> It does not work... It still oplots everything on the last plot...
> I must keep only the "x1save = !x y1save = !y " after the "plot" and
> the "!x = x1save !y = y1save" before the "oplot", thats it?
>
> Are the " ; Master save
> xsave = !x
> ysave = !y"
> and " ; Master restore
> !x = xsave
> !y = ysave "
>
> lines respectively at the beginning and the end of the script are
> useful? Should I add them?

No. You can't do what you originally asked for when the output is PS. In the context of IDL, there is no way to overplot on a previous page in a PS file. With direct graphics it's obviously easy (via WSET), but there is no PS equivalent (that I'm aware of).

It might be possible to do what you want in PostScript itself (via some arcane PS command).

The easiest solution would be to restructure your code to output each plot to a different PS file.

cheers,

paulv

> Thank you for your help!
>
>
>> Hi, thanks for your answers. I should have mentionned that i want to
>> save the plots as .ps then i use :
>>
>> set_plot, 'ps'
>> device, filename='myplots.ps',/color,bits_per_pixel=8
>>
>> device, /close
>>

```

>> and what you proposed seems not to work with such environment.
>> Is it possible to arrange that?
>> Thanks!
>>
>>> mgalloy wrote:
>>>> I think you want something like:
>>>> if (i eq 0) then begin
>>>>   window, /free
>>>>   win1 = !d.window
>>>>   plot, x1, y1
>>>>   window, /free
>>>>   win2 = !d.window
>>>>   plot, w1, z1
>>>>   ...
>>>> endif else begin
>>>>   wset, win1
>>>>   oplot, x2, y2
>>>>   wset, win2
>>>>   plot, w2, z2
>>>>   ...
>>>> endelse
>>> And you might want to save the !X and !Y sysvars after each PLOT and then restore then
>>> before each OPLOT for each of the two plots, e.g.
>>> ; Master save
>>> xsave = !x
>>> ysave = !y
>>> if (i eq 0) then begin
>>>   window, /free
>>>   win1 = !d.window
>>>   plot, x1, y1
>>>   x1save = !x
>>>   y1save = !y
>>>   window, /free
>>>   win2 = !d.window
>>>   plot, w1, z1
>>>   x2save = !x
>>>   y2save = !y
>>>   ...
>>> endif else begin
>>>   wset, win1
>>>   !x = x1save
>>>   !y = y1save
>>>   oplot, x2, y2
>>>   wset, win2
>>>   !x = x2save
>>>   !y = y2save
>>>   oplot, w2, z2
>>>   ...

```

```
>>> endelse
>>> ; Master restore
>>> !x = xsave
>>> !y = ysave
>>> Probably overkill, but still...
>>> cheers,
>>> paulv
>>
>
```

Subject: Re: oplot
Posted by [Gray](#) on Tue, 09 Feb 2010 05:37:27 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Jan 28, 6:22 pm, Paul van Delst <paul.vande...@noaa.gov> wrote:

> bing999 wrote:

>> It does not work... It still oplots everything on the last plot...

>> I must keep only the "x1save = !x y1save = !y " after the "plot" and

>> the "!x = x1save !y = y1save" before the "oplot", thats it?

>

>> Are the " ; Master save

>> xsave = !x

>> ysave = !y"

>> and " ; Master restore

>> !x = xsave

>> !y = ysave "

>

>> lines respectively at the beginning and the end of the script are

>> useful? Should I add them?

>

> No. You can't do what you originally asked for when the output is PS. In the context of

> IDL, there is no way to overplot on a previous page in a PS file. With direct graphics

> it's obviously easy (via WSET), but there is no PS equivalent (that I'm aware of).

>

> It might be possible to do what you want in PostScript itself (via some arcane PS command).

>

> The easiest solution would be to restructure your code to output each plot to a different

> PS file.

>

> cheers,

>

> paulv

>

>> Thank you for your help!

>

>>> Hi, thanks for your answers. I should have mentionned that i want to

>>> save the plots as .ps then i use :

```

>
>>> set_plot, 'ps'
>>> device, filename='myplots.ps',/color,bits_per_pixel=8
>>> .....
>>> device, /close
>
>>> and what you proposed seems not to work with such environment.
>>> Is it possible to arrange that?
>>> Thanks!
>
>>>> mgalloy wrote:
>>>> > I think you want something like:
>>>> > if (i eq 0) then begin
>>>> > window, /free
>>>> > win1 = !d.window
>>>> > plot, x1, y1
>>>> > window, /free
>>>> > win2 = !d.window
>>>> > plot, w1, z1
>>>> > ...
>>>> > endif else begin
>>>> > wset, win1
>>>> > oplot, x2, y2
>>>> > wset, win2
>>>> > plot, w2, z2
>>>> > ...
>>>> > endelse
>>>> And you might want to save the !X and !Y sysvars after each PLOT and then restore then
>>>> before each OPLOTT for each of the two plots, e.g.
>>>> ; Master save
>>>> xsave = !x
>>>> ysave = !y
>>>> if (i eq 0) then begin
>>>> window, /free
>>>> win1 = !d.window
>>>> plot, x1, y1
>>>> x1save = !x
>>>> y1save = !y
>>>> window, /free
>>>> win2 = !d.window
>>>> plot, w1, z1
>>>> x2save = !x
>>>> y2save = !y
>>>> ...
>>>> endif else begin
>>>> wset, win1
>>>> !x = x1save
>>>> !y = y1save

```



```
>>>> oplot, x2, y2
>>>> wset, win2
>>>> !x = x2save
>>>> !y = y2save
>>>> oplot, w2, z2
>>>> ...
>>>> endelse
>>>> ; Master restore
>>>> !x = xsave
>>>> !y = ysave
>>>> Probably overkill, but still...
>>>> cheers,
>>>> paulv
>
```

Can you use multiple windows in the z-buffer? If so, you could make all your plots using the win and wset, then read the images and dump them to a postscript. You would probably have resolution issues, though, even if it worked.
