Subject: Plot problem
Posted by Andreas Ernst on Tue, 29 Jun 2004 11:02:25 GMT
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Hi:

I am trying to plot an array, which contains values of
angular momentum against another array, which contains the
time ranging from 0 to 1000.
The problem is, that the curve I obtain is discontinuous
and intermitted at some points. So the line goes from
t=0 to t=50, then there is nothing between t=50 and t=100,
and at t=100, the line starts again.
I am using psym=-1 as an option of PLOT (or OPLOT), which
should connect all the data points.
Why is this not the case?

Thanks in advance. Andreas

Subject: Re: plot problem
Posted by Paul Van Delst[1] on Fri, 25 Jul 2008 17:40:47 GMT
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d.poreh@gmail.com wrote:
> Folks
> I want to plot N set of x,y data in a one figure in a loop like this:
>
> For I =0, N-1 do begin
>
> ï¿½
> Plot, x(i),y(i)
> Endfor
> Actually these points are lat-lon data and I want to see all in one
> figure
> But oplot doesnï¿½t work there.

Try "plots"

Subject: Re: plot problem
Posted by Paul Van Delst[1] on Fri, 25 Jul 2008 17:41:35 GMT
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Paul van Delst wrote:
> d.poreh@gmail.com wrote:
>> Folks

>> I want to plot N set of x,y data in a one figure in a loop like this:
>>
>> For I =0, N-1 do begin
>>
>> ï¿½
>> Plot, x(i),y(i)
>> Endfor
>> Actually these points are lat-lon data and I want to see all in one
>> figure
>> But oplot doesnï¿½t work there.
>
> Try "plots"

Or

plot, x, y, psym=4

No loop.

Subject: Re: plot problem
Posted by humanumbrella on Fri, 25 Jul 2008 17:44:54 GMT
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On Jul 25, 1:41 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:
> Paul van Delst wrote:
>> d.po...@gmail.com wrote:
>>> Folks
>>> I want to plot N set of x,y data in a one figure in a loop like this:
>
>>> For I =0, N-1 do begin
>
>>> …
>>> Plot, x(i),y(i)
>>> Endfor
>>> Actually these points are lat-lon data and I want to see all in one
>>> figure
>>> But oplot doesn't work there.
>
>> Try "plots"
>
> Or
>
> plot, x, y, psym=4
>
> No loop.

Also, remember to use [ ] for indexing an array. It's a much safer

technique for portability.

Subject: Re: plot problem
Posted by d.poreh on Fri, 25 Jul 2008 17:50:51 GMT
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On Jul 25, 7:44 pm, humanumbre...@gmail.com wrote:
> On Jul 25, 1:41 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:
>
>
>
>> Paul van Delst wrote:
>>> d.po...@gmail.com wrote:
>>>> Folks
>>>> I want to plot N set of x,y data in a one figure in a loop like this:
>
>>>> For I =0, N-1 do begin
>
>>>> …
>>>> Plot, x(i),y(i)
>>>> Endfor
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>>>> But oplot doesn't work there.
>
>>> Try "plots"
>
>> Or
>
>> plot, x, y, psym=4
>
>> No loop.
>
> Also, remember to use [ ] for indexing an array. It's a much safer
> technique for portability.

Paul
no it is not accept plots and also with psym=4
just the line change to point
this data are from shap file(*.shp) and i want
each time plot one entity but.....
Cheers
P.s.:yes i know but in my kaybord i have not that barkets

Subject: Re: plot problem

Posted by David Fanning on Fri, 25 Jul 2008 18:07:25 GMT
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d.poreh@gmail.com writes:

> P.s.:yes i know but in my kaybord i have not that barkets

I *knew* this application was being programmed on an iPhone!!

Cheers,

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

Subject: Re: plot problem
Posted by d.poreh on Fri, 25 Jul 2008 18:22:38 GMT
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On Jul 25, 8:07 pm, David Fanning <n...@dfanning.com> wrote:
> d.po...@gmail.com writes:
>> P.s.:yes i know but in my kaybord i have not that barkets
>
> I *knew* this application was being programmed on an iPhone!!
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

David
When I put plot x,y in the loop each time (for each 0<i<N) I can see
data is plotted in the window but at the end just the last one
remains. I just want to keep the pieces and plot data together.
Cheers
Dave

Subject: Re: plot problem

Posted by Paul Van Delst[1] on Fri, 25 Jul 2008 18:26:41 GMT
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d.poreh@gmail.com wrote:
> On Jul 25, 7:44 pm, humanumbre...@gmail.com wrote:
>> On Jul 25, 1:41 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:
>>
>>
>>
>>> Paul van Delst wrote:
>>>> d.po...@gmail.com wrote:
>>>> > Folks
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>>>> > Actually these points are lat-lon data and I want to see all in one
>>>> > figure
>>>> > But oplot doesnï¿½t work there.
>>>> Try "plots"
>>> Or
>>> plot, x, y, psym=4
>>> No loop.
>> Also, remember to use [ ] for indexing an array. It's a much safer
>> technique for portability.
>
> Paul
> no it is not accept plots and also with psym=4
> just the line change to point
> this data are from shap file(*.shp) and i want
> each time plot one entity but.....

I'm sorry... but your reply doesn't make any sense.

You need to provide more information (preferably the output of various help commands), and a short example of the code illustrating what you have tried.

cheers,

paulv

Subject: Re: plot problem
Posted by David Fanning on Fri, 25 Jul 2008 18:31:22 GMT
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d.poreh@gmail.com writes:

> When I put plot x,y in the loop each time (for each 0<i<N) I can see
> data is plotted in the window but at the end just the last one
> remains. I just want to keep the pieces and plot data together.

Well, then, you are going to have to use either PLOTS
or PLOT with the PSYM keyword, like everyone else has
suggested. We *know* it works. What we don't know is
how you are trying to implement it. :-)

Cheers,

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

Subject: Re: plot problem
Posted by d.poreh on Fri, 25 Jul 2008 18:59:36 GMT
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On 25 Jul., 11:41, David Fanning <n...@dfanning.com> wrote:
> d.po...@gmail.com writes:
>> I want to plot N set of x,y data in a one figure in a loop like this:
>
>> For I =3D0, N-1 do begin
>
>> =85
>> Plot, x(i),y(i)
>> Endfor
>> Actually these points are lat-lon data and I want to see all in one
>> figure
>> But oplot doesn=92t work there.
>
> I *really* don't want to get involved in this discussion
> in any way, shape, or form. But if you wanted to see how
> to read and display a shape file in lat/lon coordinates,
> you *could* read this article:
>
> http://www.dfanning.com/map_tips/shapefile.html
>
> And you could have a look at DrawStates:
>
> http://www.dfanning.com/programs/drawstates.pro
>

> I am not available for questions, though. :-)
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

i mean for example:
pro test

for i=0,20 do begin
 data=[[transpose(findgen(i+10)),transpose(findgen(i+10))*0.1]]
print,data

plot,data[0,*],data[1,*]
endfor
end

Cheers
Dave

Subject: Re: plot problem
Posted by pgrigis on Fri, 25 Jul 2008 19:28:23 GMT
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Try

plot,x,y,/nodata
for i=0,n do plots,... (or oplot,...)

Ciao,
Paolo

d.po...@gmail.com wrote:
> On 25 Jul., 11:41, David Fanning <n...@dfanning.com> wrote:
>> d.po...@gmail.com writes:

>>
>>> For I =3D0, N-1 do begin
>>

>>> =85
>>> Plot, x(i),y(i)
>>> Endfor
>>> Actually these points are lat-lon data and I want to see all in one
>>> figure
>>> But oplot doesn=92t work there.
>>
>> I *really* don't want to get involved in this discussion
>> in any way, shape, or form. But if you wanted to see how
>> to read and display a shape file in lat/lon coordinates,
>> you *could* read this article:
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>>
>> And you could have a look at DrawStates:
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>> I am not available for questions, though. :-)
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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.dfanning.com/
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
> i mean for example:
> pro test
>
> for i=0,20 do begin
> data=[[transpose(findgen(i+10)),transpose(findgen(i+10))*0.1]]
> print,data
>
> plot,data[0,*],data[1,*]
> endfor
> end
>
>
> Cheers
> Dave

Subject: Re: plot problem
Posted by David Fanning on Fri, 25 Jul 2008 19:45:16 GMT

d.poreh@gmail.com writes:

> i mean for example:
> pro test
>
> for i=3D0,20 do begin
> data=3D[[transpose(findgen(i+10)),transpose(findgen(i+10))*0 .1]]
> print,data
>
> plot,data[0,*],data[1,*]
> endfor
> end

I know what you mean, but it doesn't work. Here is the example
you should be using:

```
Pro test
  r = Replicate(1, 36)
  a = Findgen(36) * 10
  data = CV_COORD(FROM_POLAR=Transpose([[a],[r]]), $
     /DEGREES, /TO_RECT)
  Plot, [0,1], /NoData, XRANGE=[-1,1], YRANGE=[-1,1]
  Plots, data[0,*], data[1,*], PSYM=-2
END
```

Cheers,

David

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

Subject: Re: plot problem
Posted by russell.grew on Tue, 12 Jun 2012 23:19:49 GMT

It's at the top of the help on the plot command:

http://idlastro.gsfc.nasa.gov/idl_html_help/PLOT.html

For the tick commands to work, you may need to tweak xstyle (or y or z

equivalent).

Enjoy.

Subject: Re: plot problem
Posted by wlandsman on Thu, 26 Jul 2012 20:22:25 GMT
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Since your X axis is identical on every plot, there is no need to take up real estate by always displaying each X axis title. You can use a program like
http://idlastro.gsfc.nasa.gov/ftp/pro/plot/multiplot.pro
to force the plots to abut against each other in Y with no gaps. --Wayne

On Thursday, July 26, 2012 3:34:44 PM UTC-4, dave poreh wrote:
> Folks
> hi,
> I have a problem: i have produced a plot (http://imageshack.us/photo/my-images/545/gps2idl.png/) and i need to increase the height of each graph in the figure.
> Can sb help please?
> Cheers,
> Dave

Subject: Re: plot problem
Posted by lecacheux.alain on Fri, 27 Jul 2012 12:16:21 GMT
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Le jeudi 26 juillet 2012 21:34:44 UTC+2, dave poreh a écrit :
> Folks
> hi,
> I have a problem: i have produced a plot (http://imageshack.us/photo/my-images/545/gps2idl.png/) and i need to increase the height of each graph in the figure.
> Can sb help please?
> Cheers,
> Dave

NG functions are well suited for such a multiplot figure.
For instance, with your example of an array of 9x3 y-functions of the variable x, by using CURRENT and LAYOUT keywords, you can simply write:

IDL> for i=0,9*3-1 do pl = plot(x, y[*,i], LAYOUT=[3,9,i+1], CURRENT=(i ne 0))

Here LAYOUT creates the multiplot, CURRENT forces same window to be reused except on the first time.

Then, to manage particular spacing, labels, etc in each sub-plot, you can use any other keywords (MARGIN, AXIS_STYLE, etc...) by indexing them with some logical function of i.
For instance, to suppress axes on subplots which are not lying on the boundaries, you could use AXIS_STYLE=2*(((i mod 3) eq 1) && (i ne 1) && (i ne 25)), in which 2 and 0 means "box-style" and "no axis", respectively.
For details on those keywords, please refer to the IDL documentation.

Alain.

Subject: Re: plot problem
Posted by d.poreh on Fri, 27 Jul 2012 16:22:28 GMT
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On Friday, July 27, 2012 5:16:21 AM UTC-7, alx wrote:
> Le jeudi 26 juillet 2012 21:34:44 UTC+2, dave poreh a écrit :
>
>> Folks
>
>> hi,
>
>> I have a problem: i have produced a plot (http://imageshack.us/photo/my-images/545/gps2idl.png/) and i need to increase the height of each graph in the figure.
>
>> Can sb help please?
>
>> Cheers,
>
>> Dave
>
>
>
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>
> For details on those keywords, please refer to the IDL documentation.
>
>
>
> Alain.

Works perfect. Thanks, just i need to pass a text for each graph:

!null = text(1,1, 'speed=',$\pm$ num2str, /data, font_size=12)
that stands for *speed= 10+- 0.2* for instance on each graph. Can you help pls.
Cheers,
Dave

Subject: Re: plot problem
Posted by lecacheux.alain on Fri, 27 Jul 2012 23:22:34 GMT
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Le vendredi 27 juillet 2012 18:22:28 UTC+2, dave poreh a écrit :
>
> Works perfect. Thanks, just i need to pass a text for each graph:
> !null = text(1,1, 'speed=',$\pm$ num2str, /data, font_size=12)
> that stands for *speed= 10+- 0.2* for instance on each graph. Can you help pls.
>
> Cheers,
>
> Dave

Try:

```
IDL> pl = objarr(6)
IDL> for i=0,5 do begin
IDL>   pl[i] = plot(/TEST, LAYOUT=[3,2,i+1], CURRENT=(i ne 0))
IDL>   !null = text(100, 0.8-0.05*i, 'text', /DATA, TARGET=pl[i])
IDL> endfor
```

Alain.

Subject: Re: plot problem
Posted by d.poreh on Sat, 28 Jul 2012 05:10:16 GMT

On Friday, July 27, 2012 4:22:34 PM UTC-7, alx wrote:
> Le vendredi 27 juillet 2012 18:22:28 UTC+2, dave poreh a écrit :
>
>>
>
>> Works perfect. Thanks, just i need to pass a text for each graph:
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>> Dave
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> Try:
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>
> IDL> !null = text(100, 0.8-0.05*i, 'text', /DATA, TARGET=pl[i])
>
> IDL> endfor
>
>
>
> Alain.

Dear Alx
It is not working for me! here is the code:
pro GPS_text
cd,'C:\Documents and Settings\Dave\Desktop'
pathName="d:\p\"
List = findfile(pathName+"*.dat")
nosFiles=N_ELEMENTS(List)
data = ptrarr(nosFiles)

```
outfile = STRARR(nosFiles)
p1=objarr(27)
for i = 0, nosFiles - 1 do begin
x=read_ascii(list[i],DATA_START=1)
rootname = File_Basename(list[i], '.dat')
data[i] = ptr_new(x)
 vert=(*data[i]).(0)
p1[i]=plot(vert[0,*],vert[1,*],'ob', /SYM_FILLED, $
  SYM_SIZE=0.5,MARGIN=[0.1,0.2,0.0,0.05],layout=[3,9,i+1],/CUR RENT)
 fit=linfit(vert[0,*],vert[1,*],yfit=yfit)

!null = text(100, 0.8-0.05*i, 'speed=', /DATA, font_size=12, TARGET=p1[i])

p2= plot(vert[0,*],yfit , thick=2,color='red',xrange=[1998,2013],$
/overplot, /SYM_FILLED,  /undoc)
   print, fit, mean(vert[6,*])

endfor

 end
```

Subject: Re: plot problem
Posted by lecacheux.alain on Sat, 28 Jul 2012 09:31:57 GMT
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Le samedi 28 juillet 2012 07:10:16 UTC+2, dave poreh a écrit :
> On Friday, July 27, 2012 4:22:34 PM UTC-7, alx wrote:
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>> Le vendredi 27 juillet 2012 18:22:28 UTC+2, dave poreh a écrit :
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>>> Dave
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>> Try:
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>> IDL> pl = objarr(6)
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>>
>
>> IDL> !null = text(100, 0.8-0.05*i, 'text', /DATA, TARGET=pl[i])
>
>>
>
>> IDL> endfor
>
>>

>
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>
>> Alain.
>
>
>
> Dear Alx
>
> It is not working for me! here is the code:
>
> pro GPS_text
>
> cd,'C:\Documents and Settings\Dave\Desktop'
>
> pathName="d:\p\"
>
> List = findfile(pathName+"*.dat")
>
> nosFiles=N_ELEMENTS(List)
>
> data = ptrarr(nosFiles)
>
> outfile = STRARR(nosFiles)
>
> p1=objarr(27)
>
> for i = 0, nosFiles - 1 do begin
>
> x=read_ascii(list[i],DATA_START=1)
>
> rootname = File_Basename(list[i], '.dat')
>
> data[i] = ptr_new(x)
>
>   vert=(*data[i]).(0)
>
> p1[i]=plot(vert[0,*],vert[1,*],'ob', /SYM_FILLED, $
>
>   SYM_SIZE=0.5,MARGIN=[0.1,0.2,0.0,0.05],layout=[3,9,i+1],/CUR RENT)
>
>   fit=linfit(vert[0,*],vert[1,*],yfit=yfit)
>
>
>
> !null = text(100, 0.8-0.05*i, 'speed=', /DATA, font_size=12, TARGET=p1[i])

>
>
>
> p2= plot(vert[0,*],yfit , thick=2,color='red',xrange=[1998,2013],$
>
> /overplot, /SYM_FILLED, /undoc)
>
>   print, fit, mean(vert[6,*])
>
>
>
> endfor
>
>
>
>   end

I cannot run your code to see what is not working, but I guess that the issue comes from using /OVERPLOT in the 'p2' statement. Indeed, the OVERPLOT keyword in NG does not work exactly like the oplot statement in DG: in particular, axis ranges and labeling are changed as needed.
To ensure an exact overplotting in your case, I would suggest to modify the 'p2' statement as follows:

p2 = plot(vert[0,*], yfit , thick=2, color='red', xrange=p1[i].xrange, $
yrange=p1[i].yrange, /overplot, /SYM_FILLED, /undoc)

and maybe add 'xrange=[1998,2013]' in the 'p1' statement.

By the way, what means the '/undoc' keyword you are using in your plot statement ?

Alain.

Subject: Re: plot problem
Posted by d.poreh on Sat, 28 Jul 2012 16:44:23 GMT
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On Saturday, July 28, 2012 2:31:57 AM UTC-7, alx wrote:
> Le samedi 28 juillet 2012 07:10:16 UTC+2, dave poreh a écrit :
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>>>> Cheers,
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>>> Try:
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>>> IDL> pl = objarr(6)
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>>>  IDL> for i=0,5 do begin
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>>>  Alain.
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>> Dear Alx
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>
>> It is not working for me! here is the code:
>
>>
>
>> pro GPS_text
>
>>
>
>> cd,'C:\Documents and Settings\Dave\Desktop'
>
>>
>
>> pathName="d:\p\"
>
>>
>
>> List = findfile(pathName+"*.dat")
>
>>
>
>> nosFiles=N_ELEMENTS(List)
>
>>
>
>> data = ptrarr(nosFiles)
>
>>
>
>> outfile = STRARR(nosFiles)
>
>>
>
>> p1=objarr(27)
>
>>
>
>> for i = 0, nosFiles - 1 do begin
>
>>
>

```
>>  x=read_ascii(list[i],DATA_START=1)
>
>>
>
>>  rootname = File_Basename(list[i], '.dat')
>
>>
>
>>  data[i] = ptr_new(x)
>
>>
>
>>   vert=(*data[i]).(0)
>
>>
>
>>  p1[i]=plot(vert[0,*],vert[1,*],'ob', /SYM_FILLED, $
>
>>
>
>>    SYM_SIZE=0.5,MARGIN=[0.1,0.2,0.0,0.05],layout=[3,9,i+1],/CUR RENT)
>
>>
>
>>   fit=linfit(vert[0,*],vert[1,*],yfit=yfit)
>
>>
>
>>
>
>>
>
>>
>
>>  !null = text(100, 0.8-0.05*i, 'speed=', /DATA, font_size=12, TARGET=p1[i])
>
>>
>
>>
>
>>
>
>>
>
>>  p2= plot(vert[0,*],yfit , thick=2,color='red',xrange=[1998,2013],$
>
>>
>
>>  /overplot, /SYM_FILLED,  /undoc)
>
>>
>
```

>>   print, fit, mean(vert[6,*])
>
>>
>
>>
>
>>
>
>> endfor
>
>>
>
>>
>
>>
>
>>   end
>
>
>
> I cannot run your code to see what is not working, but I guess that the issue comes from using /OVERPLOT in the 'p2' statement. Indeed, the OVERPLOT keyword in NG does not work exactly like the oplot statement in DG: in particular, axis ranges and labeling are changed as needed.
>
> To ensure an exact overplotting in your case, I would suggest to modify the 'p2' statement as follows:
>
>
>
> p2 = plot(vert[0,*], yfit , thick=2, color='red', xrange=p1[i].xrange, $
>
> yrange=p1[i].yrange, /overplot, /SYM_FILLED, /undoc)
>
>
>
> and maybe add 'xrange=[1998,2013]' in the 'p1' statement.
>
>
>
> By the way, what means the '/undoc' keyword you are using in your plot statement ?
>
>
>
> Alain.

NO it is not working:-(

Subject: Re: Plot problem
Posted by dg86 on Sat, 26 Nov 2016 12:43:23 GMT
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On Saturday, November 26, 2016 at 6:59:03 AM UTC-5, dave poreh wrote:
> Folks,
> I have a problem on saving my image:
>
> p = plot(...)
> .
> .
> .
> p.save, 'fefe.eps',BORDER=500, resolution=300
>
> but in the image that i save i miss some texts that are out of my window. I mean for instance the y title that I am missing...
> Can someone please help me?
> Cheers,
> Dave

The BORDER=500 seems really big to me. Have you tried BORDER=1 to see if that works?

Also, the SAVE method gives very inconsistent results for different file formats. The raster formats, such as PNG, typically look most like the screen display, which usually is what I want. Vector formats, including EPS, PDF and SVG, can deviate substantially, including differences in font size, color, transparency, and layout. It might be worthwhile saving your plot as a PNG image to see if it looks right in that format.

It's possible that IDL is simply messing up the bounding box on the EPS output. You can fix that manually by editing fefe.eps with a text editor. There also are various utilities that attempt to fix broken bounding boxes in eps files.

I hope that IDL's ability to create vector graphics continues to improve with the next release.

All the best,

David