Subject: Postscript line thickness
Posted by Haje Korth on Mon, 19 May 2003 12:52:12 GMT
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Good morning everyone,
Does anyone know how the value of the line thickness keyword translates to
points in the Postscript device. I am getting so tired of having to change
all my graphics by hand for publication. Your help out of my misery is
greatly appreciated!

Greetings,
Haje

--

Subject: Re: Postscript line thickness
Posted by R.Bauer on Wed, 21 May 2003 22:30:03 GMT
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Haje Korth wrote:

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> Greetings,
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Dear Haje,

not only thickness sometimes fonts or symbolsize has to be adjusted.
this was a few years ago the reason why we have developed the plotxy etc.
plotroutines.
If you do a plot by this package it looks on screen and on psfile mostly
similiar. And a printout is publication ready.
All this different calculation to get the right thickness or fontsize is
done internaly. As user you have only to set one flag to switch from screen
to postscript.

many examples are here
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl
_html/idl_work_idl_work.examples.category.htm

regards

Reimar

--
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
http://www.fz-juelich.de/icg/icg-i/
========== ======
a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

---

Subject: Re: Postscript line thickness
Posted by Haje Korth on Thu, 22 May 2003 11:52:59 GMT
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Reimar,
I am not sure whether I want to make significant changes to my already too complicated application. However, I would like to take a look at your plotxy package and consider it for future projects. The web site you gave me contains a lot of examples but I did not see the actual package offered for download. Could you please post this link for us?

Greetings,
Haje

--

"Reimar Bauer" <R.Bauer@fz-juelich.de> wrote in message
news:bagun7$d82h$1@zam602.zam.kfa-juelich.de...
> Haje Korth wrote:
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>
> --
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
> http://www.fz-juelich.de/icg/icg-i/
> ========== ======
> a IDL library at ForschungsZentrum Juelich
> http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
>

Subject: Re: Postscript line thickness
Posted by R.Bauer on Thu, 22 May 2003 20:32:11 GMT
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Haje Korth wrote:

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> complicated application. However, I would like to take a look at your
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> me contains a lot of examples but I did not see the actual package offered

> for download. Could you please post this link for us?
>
> Greetings,
> Haje
>
>

Dear Haje,

the whole source could you find in our library at
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
I am working at the moment on the next version of our library for publishing.

In February we started to set up a compiled library routine of all needed source modules of the plot library. Because this is much easier as publishing the whole library, (using the compile routine developed 2001)

At http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_bin/plotpr epare.sav
you will find the actual version I builded today.
This binary file depends always on our working library. One is useable half a year long. Then it stops. This is only for preventing to have a real old one.

```
IDL> plotprepare,plot,dim=1
% Restored file: PLOTPREPARE.
% PLOTPREPARE: Copyright: FZ-Juelich, ICG-I,ICG-II
% PLOTPREPARE: Further Information:
http://www.fz-juelich.de/icg/icg-i/idl_icgl
            ib/idl_lib_intro.html
% PLOTPREPARE: BUILD DATE: 2003-05-22 20:41:20 000
```

A sav file is always same called as the depending pro file
If you have this in your search path you should be able to run every of the examples which does not need datafiles from us.

In 2000 I have written a publication in German about this package and others.
http://www.fz-juelich.de/zb/text/publikation/xjuel3786.html

The timedata format was defined by Ray Sterner(JHUAPL) and he named it julian seconds. ESA renamed it to MJD (Modified Julian Day).
It is defined as seconds since 2000-01-01 00:00:00 UTC. Some routines inside the sav file are from the JHUAPL library.

A list of all compiled routines you get after loading plotprepare with
IDL> PRINT,(plotprepare_info()).routines

This file may be interesting too
http://www.fz-juelich.de/icg/icg-i/idl_icglib/most_important .html

And here at least one more example:

```
PRO plot_test
  x=DINDGEN(100)+string2js(/now)
  y=SIN(FINDGEN(100)/10.)
  y2=COS(FINDGEN(100)/10.)

  plotprepare,plot,dim=1

  xp_layout,plot

  plotinit,plot
  plot.timeformat='HH:MM'
  plot.xtitle='time'
  plot.ytitle='data'
  plotxy,plot,x=x,y=y,/time
  plot.color=plot.color_nc.red
  plotxy,plot,x=x,y=y2,/time

  xp_legend,plot

  plotend,plot
  printout,'test'
END
```

This script shows the usage of two xp widget modules.
The changes you did by the widgets are writtem into the file
test_plot.pro. The widgets get a comment sign in front.
Then at the end a postscript file test.ps is created.

regards

Reimar

--

Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
http://www.fz-juelich.de/icg/icg-i/
 ========== ======
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---

Subject: Re: Postscript line thickness
Posted by R.Bauer on Thu, 22 May 2003 20:46:54 GMT
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> This script shows the usage of two xp widget modules.
> The changes you did by the widgets are writtem into the file
> test_plot.pro. The widgets get a comment sign in front.
> Then at the end a postscript file test.ps is created.

Sorry, mistake
It is plot_test.pro

and it could look something like this

```
PRO plot_test
  x=DINDGEN(100)+string2js(/now)
  y=SIN(FINDGEN(100)/10.)
  y2=COS(FINDGEN(100)/10.)

  plotprepare,plot,dim=1

plot.plot_height=13.
plot.plot_width=13.
plot.left_margin=4.
plot.bottom_margin=3.
plot.landscape=3
plot.xgrid=1
plot.ygrid=1
plot.label.name='A'
plot.label.position=2


;   xp_layout,PLOT ;========= automaticly replaced =========

  plotinit,plot
  plot.timeformat='HH:MM'
  plot.xtitle='time'
  plot.ytitle='data'
```

```
   plotxy,plot,x=x,y=y,/time
   plot.color=plot.color_nc.red
   plotxy,plot,x=x,y=y2,/time

plot.legend_title='2003-05-22'
plot.legend_text_color_from_symbol=1
plot.legend_frame_color=plot.color_nc.blue
plot.legend_frame_fill_color=plot.color_nc.light_grey
plot.legend_title_color=plot.color_nc.blue
plot.legend_landscape= 1
plot.legend[0: 1,*]=legend_reorg(plot,['sin!C(1)','cos!C(0)'],$
                            [1,0] )
;    xp_legend,PLOT ;========= automaticly replaced =========

   plotend,plot
   printout,'test'
END


--
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
http://www.fz-juelich.de/icg/icg-i/
 ========================================================== ======
a IDL library at ForschungsZentrum Juelich
 http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
```

Subject: Re: Postscript line thickness
Posted by Haje Korth on Fri, 23 May 2003 12:51:48 GMT

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Thanks for the detailed info! Haje

"Reimar Bauer" <R.Bauer@fz-juelich.de> wrote in message
news:bajc64$dm9i$1@zam602.zam.kfa-juelich.de...
> Haje Korth wrote:
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> Reimar

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> --
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
> http://www.fz-juelich.de/icg/icg-i/
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