Subject: Re: thick = 2 and postscript output
Posted by davidf on Thu, 31 May 2001 16:07:32 GMT
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Christopher W. O'Dell (odell@cmb.physics.wisc.edu) writes:

> I'm trying to make some postscript files of simple graphs; I
> have gotten color and fonts to work, but
> the command
>
> plot, x, y, thick = 2
>
> fails to make a thick line in the postscript output file.
> Anyone know why, and how to remedy this?

Oh, I think it is working. It is just that a line in a
PostScript file is *very* thin. A two pixel line is *still*
very thin, depending upon the resolution of your PostScript
device. I find I have to bump thicknesses up by a factor
of about 5 or so to see noticeable differences on my printer.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: thick = 2 and postscript output
Posted by Christopher W. O'Dell on Thu, 31 May 2001 17:15:25 GMT
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Thanks David, you were totally right. I actually like this
better, it gives you much more control over the thickness,
whereas on the screen it tends to only have a few
thicknesses.

Chris

Subject: Re: thick = 2 and postscript output
Posted by Craig Markwardt on Thu, 31 May 2001 18:21:25 GMT
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davidf@dfanning.com (David Fanning) writes:
>
> Oh, I think it is working. It is just that a line in a
> PostScript file is *very* thin. A two pixel line is *still*
> very thin, depending upon the resolution of your PostScript
> device. I find I have to bump thicknesses up by a factor
> of about 5 or so to see noticeable differences on my printer.

My preferred factor is three, but then again I am still in the
pre-bifocal stage. [just joking. :-]

Craig

--

 -- -------------
Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
 -- -------------

Subject: Re: thick = 2 and postscript output
Posted by Wim Bouwman on Fri, 01 Jun 2001 08:15:58 GMT
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I have a related question.
Does anybody know a trick to make all the lines in the postscript output
file thicker? This includes the titles, axes and thicks.

> plot, x, y, thick = 2
>
> fails to make a thick line in the postscript output file.
> Anyone know why, and how to remedy this?

Thanks,
Wim.

--

Dr. Wim G. Bouwman   phone (++31) (0)15 2786775
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Subject: Re: thick = 2 and postscript output
Posted by Martin Schultz on Fri, 01 Jun 2001 11:27:19 GMT

"Wim G. Bouwman" <w.g.bouwman@iri.tudelft.nl> writes:

> I have a related question.
> Does anybody know a trick to make all the lines in the postscript output
> file thicker? This includes the titles, axes and thicks.
>
>> plot, x, y, thick = 2
>>
>> fails to make a thick line in the postscript output file.
>> Anyone know why, and how to remedy this?
>

Let me try to summarize (I'm sure David can complete this list ;-):

plot, ..., thick=2 equivalent to !P.thick = 2
!X.thick = 2
!Y.thick = 2

and also
!P.charthick = 2

BTW: my preferred factor is 2.5 ;-)

--
 [[[[[[[[[[
[[Dr. Martin Schultz   Max-Planck-Institut fuer Meteorologie   [[
[[Bundesstr. 55, 20146 Hamburg   [[
[[phone: +49 40 41173-308   [[
[[fax: +49 40 41173-298   [[
[[martin.schultz@dkrz.de   [[
 [[[[[[[[[[

Subject: Re: thick = 2 and postscript output
Posted by davidf on Fri, 01 Jun 2001 12:12:06 GMT

Martin Schultz (martin.schultz@dkrz.de) writes:

> BTW: my preferred factor is 2.5 ;-)

When did you guys buy your PostScript printer, 1972!? :-)

Cheers,

David

--
David Fanning, Ph.D.
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Subject: Re: thick = 2 and postscript output
Posted by Craig Markwardt on Fri, 01 Jun 2001 12:43:53 GMT
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"Wim G. Bouwman" <w.g.bouwman@iri.tudelft.nl> writes:

> I have a related question.
> Does anybody know a trick to make all the lines in the postscript output
> file thicker? This includes the titles, axes and thicks.

If you have Unix, you might try my XFWINDOW program. It's essentially
a normal direct graphics window, but has the special property that it
records all graphics commands. Then you can simply press a button and
the output goes to the printer, or a file, or both. It has the
capability to automatically thicken lines when sending PS output.

I haven't updated the web page recently. If you have IDL 5.3 or 5.4,
you will need to recompile, per the instructions.

Craig

http://cow.physics.wisc.edu/~craigm/idl/idl.html (under Printing)

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 --- -------------
Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
 --- -------------

Subject: Re: thick = 2 and postscript output
Posted by Martin Schultz on Fri, 01 Jun 2001 18:31:17 GMT
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davidf@dfanning.com (David Fanning) writes:

> Martin Schultz (martin.schultz@dkrz.de) writes:
>
>> BTW: my preferred factor is 2.5 ;-)
>
> When did you guys buy your PostScript printer, 1972!? :-)
>
No, 2000. But we are working with colors ;-)

Martin

--
 [[[[[[[[[
[[Dr. Martin Schultz   Max-Planck-Institut fuer Meteorologie   [[
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[[martin.schultz@dkrz.de   [[
 [[[[[[[[[

Subject: Edit IDL-made postscript file. Was: thick = 2 and postscript output
Posted by Kristian Kjaer on Tue, 05 Jun 2001 11:17:55 GMT
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Hallo Wim,
Long time!

I agree with Martin that one should use (in IDL)
    plot,...,xthick=3,ythick=4,thick=5,charthick=6 ; or whatever

But maybe you have an IDL-made ps-file that you don't care to re-create?
It actually works to edit the ps-file:
If none of the
    ,*thick=...
keywords were used in IDL, simply change from
    %%EndPageSetup
    10 setlinewidth L0 ...
to, e.g.,
    %%EndPageSetup
    50 setlinewidth L0 ...

If the IDL command was something like
    plot,...,xthick=3,ythick=4,thick=5,charthick=6
then it takes a little more editing.

Disclaimer: I don't know anything about postscript. The above is based

on experimentation.

Perhaps there is a way to apply the same *scalefactor* to all of the
line
widths in a ps-file?

Best regards, Kristian
Kristian Kjær, Risø Natl. Laboratory, Denmark

"Wim G. Bouwman" wrote:
Subject: Re: thick = 2 and postscript output
       Date: Fri, 01 Jun 2001 10:15:58 +0200
       From: "Wim G. Bouwman" <w.g.bouwman@iri.tudelft.nl>
 Organization: Delft University of Technology
 Newsgroups: comp.lang.idl-pvwave
> I have a related question.
> Does anybody know a trick to make all the lines in the postscript output
> file thicker? ...