
Subject: Re: IDL produced postscript files in latex
Posted by [davidf](#) on Tue, 17 Oct 2000 07:00:00 GMT
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Simon Webster (simon@nonsense.co.uk) writes:

- > I'm producing postscript files with idl to go in a latex article.
- > Everything is fine when i just have one plot on the page, but when i
- > used !p.multi=[0,2,0] latex acted as though the second graph didn't
- > exist, overwriting the plot with text. Is this a known problem and is
- > there any way around it?

Gosh, it has been a LONG time since I worked with Latex. The original IDL documentation was written in Latex, which looked like gibberish to the folks who were turning IDL into PV-Wave. They hired me, I think, because I had a Ph.D. and they (mistakenly, probably) thought that meant I would be smart enough to figure it out. As I recall, they wanted me to scratch out "IDL" everywhere it occurred and write in "PV-Wave".

I spent two days with the LaTeX manuals, then figured out how to do a global search and replace. I let a week or 10 days go by while I sort of got used to the new place, etc. Finally, I told them I was finished with the job. They were so impressed with how short a time it took me that they gave me a \$700 bonus, as I recall. :-)

Anyway, I don't *ever* remember difficulty getting LaTeX to accept encapsulated PostScript output, even with multi-plots (and we had several of them in the IDL documentation). You are certain you have set it up correctly:

```
thisDevice = !D.Name
!P.Multi=[0, 2, 1]
Set_Plot, 'PS'
Device, XSize=5, YSize=5, /Inches, /Encapsulated, $
    Filename='myplot.eps'
Plot, data
Plot, moredata
Device, /Close_File
Set_Plot, thisDevice
!P.Multi = 0
```

I don't recall at all the LaTeX commands, but presumably the bounding box in the encapsulated PostScript file will set the correct amount of space aside in the LaTeX

file.

I would look elsewhere for your problem. :-)

Cheers,

David

--

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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: IDL produced postscript files in latex
Posted by [noymer](#) on Tue, 17 Oct 2000 07:00:00 GMT

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Assuming you are using ENCAPSULATED PostScript,
LaTeX should have nothing to do with the included
graphic except to put it in place.

Your IDL code looks something like:

```
SET_PLOT, 'PS'           ; PS device
!P.FONT=0                ; use PostScript font
DEVICE, /ENCAPSULATED, Filename='foo.eps'
PLOT blah blah blah
DEVICE, /CLOSE_file
blah blah blah blah
```

right? And you're not doing anything fancy in
LaTeX like using psfrag, I assume.

-Andrew

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Subject: Re: IDL produced postscript files in latex
Posted by [Mark Hadfield](#) on Wed, 18 Oct 2000 00:10:46 GMT

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"David Fanning" <davidf@dfanning.com> wrote in message

news:MPG.14568fadc0371f56989c57@news.frii.com...

> Simon Webster (simon@nonsense.co.uk) writes:

>

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>> there any way around it?

>

> Gosh, it has been a LONG time since I worked with Latex.

Me too. Probably even longer than you, David. (Except that I've been playing around with it recently, but so far it doesn't count as "working with" it.)

I just produced an EPS file with a pair of plots using !P.MULTI (it's been a while since I worked with that!) and included it in a LaTeX document. No problems.

> Anyway, I don't *ever* remember difficulty getting

> LaTeX to accept encapsulated PostScript output, even

> with multi-plots (and we had several of them in the

> IDL documentation). You are certain you have set it

> up correctly:

> ...

> I don't recall at all the latex commands, but presumably

> the bounding box in the encapsulated PostScript file

> will set the correct amount of space aside in the latex

> file.

Yes. The only thing other I can suggest is that you may be overriding the EPS file's bounding box declaration in the LaTeX code. There are various optional keywords to \includegraphics that allow this. But more likely is that what you've produced is not a true EPS file.

Mark Hadfield

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