Subject: EPS fragment output for latex font interpretation?
Posted by Gernot Hassenpflug on Wed, 25 Jul 2007 09:42:15 GMT
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Hello all,

I have used IDL to output EPS figures with whatever fonts IDL has
built-in. Now I would like to use IDL to output EPS fragments (in
vector format) with markers for the text information, and .tex files
containing the text corresponding to the markers, with both files to
be later interpreted by LaTeX with an \input statement. With matlab,
which I do not currently have a licence to, this was possible using
the user-contributed laprint program.

With such a splitting of the tasks, it is easy to adjust text size and
font to what is required in the LaTeX document.

Is there any way to do such a task in IDL (I have 6.2 and 6.3 licences
at my workplace).

Alternatively, if there is a way to use Computer Modern fonts with
IDL, I could try to use those in the EPS file directly (then output in
binary format is fine too).

Many thanks
    Gernot
--
BOFH excuse #433:

error: one bad user found in front of screen

Subject: Re: EPS fragment output for latex font interpretation?
Posted by Paolo Grigis on Wed, 25 Jul 2007 16:23:06 GMT
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[...]
>
> Ah, yes, understood. In that case of course the fonts are now fixed,
> no longer modifiable by the document, as I understand it. But I think
> you are incorrect in one aspect: IDL produced an EPS file when you
> gave it the /encapsulated modifier for the device.

Yes, sure, IDL does that, but it was the *dvips* output
that I converted into eps in the last step.

Ciao,
Paolo

Subject: Re: EPS fragment output for latex font interpretation?
Posted by Gernot Hassenpflug on Thu, 26 Jul 2007 15:09:28 GMT

Paolo_Grigis <pgrigis@astro.phys.ethz.ch> writes:

> [...]
>>
>> Ah, yes, understood. In that case of course the fonts are now fixed,
>> no longer modifiable by the document, as I understand it. But I think
>> you are incorrect in one aspect: IDL produced an EPS file when you
>> gave it the /encapsulated modifier for the device.
>
> Yes, sure, IDL does that, but it was the *dvips* output
> that I converted into eps in the last step.

Ha, asleep at the wheel! :-)

I ma also happy to note that although the axis marks are in the system
font, they too can be accessed using the (non-unique in this case)
string, "0", "1" or whatever. I cannot seem to find the way to set the
axis marks to a user-defined set of labels, but that is indeed
possible I remember. So I can get complete customization of the graph
labels.

Thanks once again,
    Gernot
--
Gernot Hassenpflug

Subject: Re: EPS fragment output for latex font interpretation?
Posted by George N. White III on Fri, 27 Jul 2007 20:42:37 GMT

On Wed, 25 Jul 2007, Paolo_Grigis wrote:

>
>
> [...]
>>
>> Ah, yes, understood. In that case of course the fonts are now fixed,
>> no longer modifiable by the document, as I understand it. But I think
>> you are incorrect in one aspect: IDL produced an EPS file when you
>> gave it the /encapsulated modifier for the device.
>
> Yes, sure, IDL does that, but it was the *dvips* output
> that I converted into eps in the last step.

Is there are reason to avoid "dvips -E" to get eps directly? Some files may get incorrect bounding boxes, but that can easily be rectified using ghostscript's bbox device and a wee smidgeon of perl or IDL code to update the value dvips added to the file.

--
George N. White III <aa056@chebucto.ns.ca>