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Subject: Re: EPS fragment output for latex font interpretation?  
Posted by [Gernot Hassenpflug](#) on Wed, 25 Jul 2007 15:39:03 GMT  
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Paolo\_Grigis <pgrigis@astro.phys.ethz.ch> writes:

```
> Gernot Hassenpflug wrote:
>> Paolo_Grigis <pgrigis@astro.phys.ethz.ch> writes:
>> ./
>>> set_plot,'PS'
>>> device,filename='fig1.eps',/encapsulated,xsize=12.,ysize=8.
>>> !p.font=0
>>
>> I'll try this at work in the morning, for use. Is the setting of font
>> to 0 one of the critical tricks?
>
> Yes, I think it is. The point is that latex need to search and replace
> your text labels, but it cannot find them if they are encoded as anything
> different than plain text. Using device fonts should ensure that. I am
> not sure exactly how to do the same using true type font...
```

No worries, I'm very very happy to get the help I did! Worked beautifully (I temporarily installed a Windows version of IDL under linux at home using wine, and tested, happy to go to bed knowing it will work at the office).

```
>>> ./
>>> ps2epsi fignew.ps fignew.eps
>>> perl -ne 'print unless /^%%BeginPreview/..^%%EndPreview/' < fignew.eps > fignew.eps
>>> rm fignew.eps
>>
>> Ah, this part is new to me. Any idea what this is repairing, since
>> you've already specified emcapsulated PS in your IDL program. (I
>> understand the perl part after that to remove the preview TIFF image.)
>
> Well, this is not really necessary, don't bother. Since dvips produces a
> ps file, if you really want an eps you'll have to convert the ps to eps
> in whatever manner you like (on my machine I just happen to have
> ps2epsi available, so that's what I used). The reason for that is to
> have a separate, final eps file with the figure *and* the latex
> embellishments, which could afterwards be directly included into another
> (either latex or non-latex) document without need for additional processing.
```

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. Here the top lines from my file:

%!PS-Adobe-3.0 EPSF-3.0  
%%BoundingBox: 0 0 340 226  
%%Title: Graphics produced by IDL  
%%For: gernot@hase, C:\RS\IDL60  
%%Creator: IDL Version 6.0, Microsoft Windows (Win32 x86 m32)  
...

Many thanks once again,  
Gernot

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Gernot Hassenpflug, NICT, Tokyo

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