
Subject: Re: eps output with xplot or fsc_surface

Posted by [humanumbrella](#) on Mon, 28 Jul 2008 17:14:47 GMT

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On Jul 28, 12:55 pm, humanumbre...@gmail.com wrote:

> On Jul 28, 12:34 pm, David Fanning <n...@dfanning.com> wrote:

>

>

>

>> David Fanning writes:

>>> I've even fooled around this morning trying to write this

>>> output directly to a PostScript file using the method outlined

>>> in this article:

>

>>> http://www.dfanning.com/ographics_tips/object_eps.html

>

>>> This results in a PostScript file that cannot be opened with

>>> either Photoshop or GhostView. (IDL 7.0.1 on Windows.)

>

>> Whoops! Pilot error. If I select a PostScript printer, it

>> helps a lot.

>

>> I still can't control the aspect ratio of the output, etc.

>> But at least the output is starting to resemble what I see

>> in IDL when I import it into ImageReady.

>

>> I'm waiting to see what Justin has come up with.

>

>> Cheers,

>

>> David

>> --

>> David Fanning, Ph.D.

>> Fanning Software Consulting, Inc.

>> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

>

> Hello,

>

> I'm still working on my portion of the solution, as far as getting

> what I want out of it, but the problem goes something like this:

>

> Let's say you want to save something to the file at 72 DPI. This is

> the default resolution of looking at an image on the screen, so if you

> create a plot, save it at 72 DPI, then import it back into photoshop/

> ghostview/imageready, it will be the proper proportion, because it's

> mapping the screen dimensions which are in 72 DPI straight back to 72

> DPI, so the aspect ratio is preserved.

```

>
> However, when you go up in resolution, herein lies the problem. In
> the XPLOT/FSC_SURFACE code, David is trying to perform the same
> operation with the same amount of real estate. IE, trying to cram 300
> DPI into 640x480 results in a much, much smaller image. However, if
> before we initialize the clipboard object, we redefine the dimensions
> of the window to what they SHOULD be, where the screen displaying X
> DPI where X > 72, all of a sudden magic happens.
>
> I am still refining this fix, but I didn't want you to have to wait
> forever. (:
>
> So, here's what I've come up with for now:
>
> res = 72
> IF filename NE " THEN BEGIN
> CASE whichFileType OF
>   'EPS-72':begin
>     resolution = [2.54/72, 2.54/72] & res=72
>   end
>   'EPS-150':begin
>     resolution = [2.54/150, 2.54/150] & res=150
>   end
>   'EPS-300':begin
>     resolution = [2.54/300, 2.54/300] & res=300
>   end
>   'EPS-1200':begin
>     resolution = [2.54/1200, 2.54/1200] & res=1200
>   end
>   'EPS-2400':begin
>     resolution = [2.54/2400, 2.54/2400] & res=2400
>   end
> ENDCASE
> info.thisWindow->GetProperty, Dimensions=viewDimensions,
> Units=viewUnits
>
> viewDimensions*=res/72
>
> clipboard = Obj_New('IDLgrClipboard', Dimensions=viewDimensions,$
>   Resolution=resolution,Quality=2, units=viewUnits)
>   clipboard->Draw, info.plotView, /Postscript, /vector,
>   Filename=filename

```

The above code creates a bigger image, and it comes back as the same size as what you initially saved it as, but it is not necessarily more detailed. I am continuing work on this and will report some more findings (: