
Subject: Re: Contour object quality

Posted by [Jacques Basson](#) on Fri, 13 Jun 2003 07:06:19 GMT

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David Fanning wrote:

> Jacques Basson writes:

>

>

>> I just can't seem to get good quality PostScript from IDLgrContour. A
>> brief example is at the end of this post. The direct graphics gives nice
>> smooth polylines, but the object output produces pretty jagged lines. I
>> suspect that it is the contour routine that is the problem because the
>> axis numbers are pretty smooth.

>>

>> I have tried playing with pretty much all of the keywords in
>> IDLgrContour and IDLgrClipboard, but nothing seems to improve the quality.

>>

>> Is there some trick here that I am missing - some magic keyword that
>> will sort out my plots?

>

>

> The magic keyword is RESOLUTION. :-)

>

> I set up your clipboard like this and got reasonable
> results:

>

> contwindow = obj_new('IDLgrClipboard', Dimensions=[5,5], \$
> Units=1, Resolution=[2.54/300., 2.54/300.])

>

> You can learn more about this in this article:

>

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

>

> Cheers,

>

> David

>

Thanks David, that put me on the right track! Although it does lead me to another question... According to the IDL documentation, the resolution for direct graphics is 1000 dots/cm. So when I said that I did try all the keywords to IDLgrClipboard, I had tried

```
contwindow = obj_new('IDLgrClipboard', dimensions=[17.8,12.7], $  
                    units=2, Resolution=[0.001, 0.001])
```

but got the error message

% OBJ_NEW: Window DIMENSION[0] exceeds maximum.
Clamping to screen dimensions.

(the dimensions of 178mm X 127mm are taken from the direct graphics output). 292dpi (which is borderline for high quality printing of lines) is the maximum possible resolution that I could get with those dimensions. And for your 5"x5" plot, the maximum is 409dpi.

So it seems like I can't get the direct graphics resolution. However, no-one *really* needs 2540dpi, but I can't even get 600dpi, which is a noticeable for my required A3 output.

Interestingly, the object eps file was twice the size of the direct graphics eps file (object at 292dpi - direct at 2540dpi).

Thanks,
Jacques
