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Subject: Re: Updates to Markwardt Library  
Posted by [Craig Markwardt](#) on Thu, 22 Dec 2011 04:50:20 GMT  
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On Dec 21, 10:56 pm, David Fanning <n...@dfanning.com> wrote:

> Craig Markwardt writes:  
>> Dang, it's a tough crowd in here tonight :-)  
>  
> I guess! :-)  
>  
> I was curious about your PXPERFECT routine, because  
> I've had my own struggles getting PostScript output  
> to look like what is on the display. I just ran a  
> test.  
>  
> I compared the output of this command:  
>  
> `cgplot, cgdemodata(1), xtitle='Time (Seconds)',`  
> `ytitle='Signal Strength', $`  
> `position=[0.125, 0.125, 0.95, 0.85], $`  
> `title='Experiment 10A3B', output='test.ps'`  
>  
> With this (I think I did this correctly):  
>  
> `thisDevice = !D.Name`  
> `ps_extra = pxperfect(/landscape, thick_factor=tf)`  
> `set_plot, 'ps'`  
> `device, _extra=ps_extra`  
> `cgplot, cgdemodata(1), xtitle='Time (Seconds)',`  
> `ytitle='Signal Strength', $`  
> `position=[0.125, 0.125, 0.95, 0.85], $`  
> `title='Experiment 10A3B', thick=tf`  
> `device, /close`  
> `set_plot, thisDevice`  
>  
> These commands should be duplicating what I would see  
> in a normal 640 by 512 graphics window:  
>  
> `cgDisplay, 640, 512`  
>  
> I see almost no difference in the character size,  
> interestingly enough. But I do notice that your  
> plot is a dfferent size than mine is.  
>  
> If I print and measure my plot, it is 20x14cm. Your  
> plot is 18.5x13. These ratios are 0.7 and 0.702.  
> The ratio of the window is 512/640 = 0.8. Are we  
> both wrong? :-)

David, sometime in the late unpleasantness, IDL started to defaulting to 640x389 for plot window dimensions. I think you are seeing this ratio.

If I explicitly make a window 640x512, then PXPREFECT and your CGPLOT both make Postscript graphic pages of the right size ratios.

Craig

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