Subject: Re: Reverse engineering the new graphics PLOT() margin property?
Posted by Mark Piper on Tue, 17 Apr 2012 01:54:42 GMT
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On Thursday, April 12, 2012 11:37:45 AM UTC-6, Sean Davis wrote:
> I was wondering if anyone has figured out how the default margins are determined in new graphics?
>
> On a related note, it is infuriating that there is no way to return the values of INIT properties like margin, position, etc. (unless I'm missing something!)
>
> What I'd really like to be able to do is the following --
>
> p = plot(findgen(20))
>
> print, p.margin

Hi Sean,

I agree, we should be able to get these plot properties that we can set on init. I'll enter a bug report.

In the meantime, I think this works (though I haven't tested it thoroughly):

```
IDL> p = plot(findgen(10)^2)
IDL> r = transpose([[p.xrange], [p.yrange]])
IDL> m = p.convertcoord(r, /data, /to_normal)
IDL> print, m
     0.13000000      0.13000000      0.00000000
     0.92000000      0.89000000      0.00000000
```

Check:

```
IDL> print, p.convertcoord(m, /normal, /to_data)
  8.8817842e-016      0.00000000      0.00000000
       10.000000       100.00000      0.00000000
```

mp