Subject: Re: symsize in data units
Posted by Craig Markwardt on Tue, 05 May 2009 02:29:26 GMT

On May 4, 5:31 pm, pyoac...@gmail.com wrote:
> > I think it's impossible to do with PSYM or SYMSIZE.
>
>
>
>> On the other hand, it's simple enough to write a small procedure that
>> OPLOT's what you want, in the units you want. For example, a circle
>> could be done like this,
>
>> pro plot_circle, xcent, ycent, symsize=radius, _EXTRA=extra
>> th = 2*!dpi/100*dindgen(101)
>> if n_elements(radius) EQ 0 then r = 1 else r = radius(0)
>> x = r*cos(th) & y = r*sin(th)
>> for i = 0, n_elements(xcent)-1 do $
>> oplot, xcent(i)+x, ycent(i)+y, _EXTRA=extra
>> end
>
>> Then you can call PLOT_CIRCLE, x, y, symsize=4.5
>
> Thanks Craig, that works great. I replaced your oplot with a polyfill
> so I could get solid points. I was also surprised that I can get this
> to make smaller postscript files than using the plotsym procedure. I
> thought for sure your routine would make giant output.

Heh, if you want a bigger postscript file, you could change the 100
above to 1000 :-)

It's strange you say PLOTSYM makes bigger files, since it seems to use
only 50 points instead of 100 to construct a circle.

Craig