Subject: Re: starting point of dashed lines
Posted by Jeremy Bailin on Sun, 22 Mar 2009 17:32:55 GMT
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On Mar 22, 12:28 pm, Jeremy Bailin <astroco...@gmail.com> wrote:
> Any sort of dashed and/or dotted linestyle (i.e. anything other than
> linetsyle=0) has some natural "starting point" or phase. Is there a
> way to manually reset it?
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> My specific problem is that I'm generating some plots in .png files
> that are going to be stuck together as an animation, including a
> dashed line that should be identical in each plot. However, it isn't -
> at least, not when plotted to the Z buffer! Here is some code that
> demonstrates this:
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> set_plot, 'z'
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> If you compare the two .png files, you'll see that the dashing is
> shifted slightly. However, if I do this with set_plot,'x' instead, it
> works fine!
>
> -Jeremy.

I should mention, tested in both:

{ ppc darwin unix Mac OS X 7.0.4 Sep 3 2008 32 64}

and

{ x86 linux unix linux 6.4 Apr 26 2007 32 64}

-Jeremy.

Subject: Re: starting point of dashed lines
Posted by Jeremy Bailin on Sun, 22 Mar 2009 21:39:59 GMT
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Incidentally, the easiest way to see this is to omit the second "erase" command in my example - then the actual size of the dashes appears to get bigger as out-of-phase dashes get overplotted on top of each other.

Anyone?

-Jeremy.

Subject: Re: starting point of dashed lines
Posted by pgrigis on Mon, 23 Mar 2009 14:22:19 GMT
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Hi Jeremy,

yes, this is one of the things I dislike about plot,
that such details as the phase of dashes is totally
out of control.

In fact, at some point I wrote a little procedure to
overplot with dashes of specified length and phase...
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Ciao,
Paolo

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> -Jeremy.

Subject: Re: starting point of dashed lines
Posted by Jeremy Bailin on Mon, 23 Mar 2009 14:54:02 GMT
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On Mar 23, 10:22 am, Paolo <pgri...@gmail.com> wrote:
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Would love it. I've worked around this particular issue today by using
a gray line instead, but I can easily see it coming up again.

What bugs me is that there must be *some* internal variable that is
telling IDL what phase to start at. So how can we get at it??

-Jeremy.

Subject: Re: starting point of dashed lines
Posted by pgrigis on Mon, 23 Mar 2009 17:32:00 GMT
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Ok,

you should try:

 http://hea-www.cfa.harvard.edu/~pgrigis/idl_stuff/pg_dashedl ineoplot.pro

This uses fcheck.pro from solarsoft:
 http://sohowww.nascom.nasa.gov/solarsoft/gen/idl/util/fcheck .pro

Here's an example.
p1=[1,1] & p2=[5,3]
plot,[0,0],xrange=[0,10],yrange=[0,7],/iso
 pg_dashedlineoplot,p1,p2,dashlen=0.05,spacelen=0.01,phase=0. 0

This works only for straight line segments! Therefore,
not extremly useful. Also the definition of the dash
lengths may not be the most intuitive...

Since this was not really built with wide distribution in mind,
the usual caveats apply (use at your own risk etc.), but
let us know if it is useful for you. I most certainly did not
perform extensive tests.

Ciao,
Paolo

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