
Subject: Re: Attempt to call undefined method: 'IDLITSYMBOL::IS3D'
Posted by [Paul Van Delst\[1\]](#) on Thu, 13 Dec 2012 14:23:33 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi Chris,

Re: IDLITSYMBOL::IS3D error - I will try and come up with a small reproducible case.

Re: the tickmark issue:

In FG when I use [XY]ticklen = 1.0 and [XY]gridstyle=1 *all* the tickmarks are gridded, both major and minor. Try:

```
IDL> p=plot(/test,layout=[1,3,1],$ &  
IDL>      yticklen=1.0,ygridstyle=1,$ &  
IDL>      xticklen=1.0,xgridstyle=1)
```

My result:

http://ftp.emc.ncep.noaa.gov/jcsda/CRTM/.plots/all_ticks_gridded.png

In DG only the major tickmarks were affected -- which is how the documentation describes the behaviour for both FG and DG.

As you can imagine, having all the tickmarks gridded makes for a rather busy plot.

Upon further reading of the docs I saw the [XY]subticklen keyword. I gave that a try, setting it to 0.05. But the minor tickmarks are *still* subject to the [XY]gridstyle keyword (I tend to use [XY]gridstyle=1, dotted, for this).

Try:

```
IDL> p=plot(/test,layout=[1,3,1],$ &  
IDL>      yticklen=1.0,ygridstyle=1,ysubticklen=0.05,$ &  
IDL>      xticklen=1.0,xgridstyle=1,xsubticklen=0.05)
```

My result:

[ftp://ftp.emc.ncep.noaa.gov/jcsda/CRTM/.plots/using_subticklen.png](http://ftp.emc.ncep.noaa.gov/jcsda/CRTM/.plots/using_subticklen.png)

So, as you can see, what I have are uneven length minor tickmarks. And they are still dotted due the gridstyle keyword.

What I want is the equivalent of the following DG:

```
IDL> !p,multi=[0,1,3]  
IDL> plot, lindgen(100),$ &  
IDL>      yticklen=1.0,ygridstyle=1,$ &
```

IDL> xticklen=1.0,xgridstyle=1

(Actually, even there I would like the x- and y minor tickmarks to be the same *absolute*, not relative, length. But, that's a quibble.)

The FG documentation clearly states that [XY]ticklen = 1.0 is for the *major* tickmarks only - so that behaviour is a definite bug.

The [XY]gridstyle docs do not explicitly state that only the major ticks are affected, but that was the behaviour with DG so I expect that to be the behaviour for FG.

You might want to consider adding some examples with these keywords set to the "Plot Examples" section of the docs. Maybe I am doing something wrong in FG-space, but after reading the docs I have nothing but my DG-experience to go by.

cheers,

paulv

On 12/12/12 22:14, Chris Torrence wrote:

> Hi Paul,

>

> This sounds like a bug to me. I'll try to reproduce it, but if you
> could come up with a simple reproduce case, that would be very
> helpful.

>

> By the way, you said that the "ticklen/gridstyle is hopelessly busted
> in v8.2". What's wrong with it? If there is a bug, I'd like to fix
> that before IDL 8.2.2.

>

> Thanks!

>

> -Chris ExelisVIS