
Subject: Improved plotting of DOUBLE data
Posted by [Liam Gumley](#) on Tue, 15 Jun 1999 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

There was a discussion here recently about the limitations of PLOT because it converts it's arguments to single precision. I just stumbled across the following interesting routines at the PV-WAVE website, which seem to work fine under IDL5:

```
ftp://ftp.boulder.vni.com/pub/unsupported/wave_user/release/ plot_dbl.pro  
ftp://ftp.boulder.vni.com/pub/unsupported/wave_user/release/ oplot_dbl.pro
```

For example, to show the limitations of PLOT in IDL5:

```
x = dindgen(10)  
y = x*0.0001d + 1000d  
plot, x, y, /ynozero, ytickformat='(f10.4)'  
oplot, x, y + 0.0001d
```

Now try PLOT_DBL (which normalizes the data):

```
plot_dbl, x, y, /ynozero, ytickformat='(f10.4)'  
oplot_dbl, x, y + 0.0001d
```

It seems to work reasonably well in the few examples I've tried.

Cheers,
Liam.

--

Liam E. Gumley
Space Science and Engineering Center, UW-Madison
<http://cimss.ssec.wisc.edu/~gumley>
