Subject: IDL New Graphics Axis function: bug or feature?
Posted by manodeep@gmail.com on Tue, 23 Oct 2012 00:33:00 GMT
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Hi everyone,

I was trying to add an alternate X-axis to a new graphics plot when I could not place this new X-axis on the plot no matter how I tried. It turns out that the original data co-ordinate was established with /YLOG and the AXIS function wanted the location to be set in alog10(yrange[1]).

Here's an example code:

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;;; generate some random data
N = 100
x = dindgen(N)
y = randomu(seed,N)*N


;;; create the plot
p = plot(x,y,/ylog) ;;; use YLOG
ax = p.axes
ax[2].hide=1 ;;; hide the top X-axis

;;; Now try to plot a new alternate  X-axis
ymax = (p.yrange)[1]
a0 = axis('X',location=[0.0,ymax],tickdir=1);;; axis does not appear
a1 = axis('X',location=[0.0,alog10(ymax)],tickdir=1) ;;; axis appears at the top

end
------------------------------------
IDL> print,!version
{ x86_64 linux unix linux 8.0 Jun 18 2010      64      64}
```

Looking through the newsgroup, it seems this behaviour is in line with what Sean Davis saw here: https://groups.google.com/forum/#!topic/comp.lang.idl-pvwave /lNWGIDjJQh8

I don't think IDL Direct Graphics AXIS procedure worked in this fashion. Anybody aware of the reason for the change?

Cheers,
Manodeep