
Subject: Re: IDL New Graphics Axis function: bug or feature?
Posted by [lecacheux.alain](#) on Thu, 25 Oct 2012 05:51:37 GMT
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Le mercredi 24 octobre 2012 18:31:29 UTC+2, Manodeep Sinha a écrit :

> On Wednesday, October 24, 2012 2:11:23 AM UTC-5, alx wrote:

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>> Le mardi 23 octobre 2012 19:32:22 UTC+2, Mark Piper a écrit :

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>>> On Monday, October 22, 2012 6:33:00 PM UTC-6, Manodeep Sinha wrote:

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>>>> 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])`.

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>>> Hi Manodeep,
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>>> I think this is a bug. Your statement:
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>>> a0 = axis('X',location=[0.0,ymax],tickdir=1)
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>>> should place an x-axis at y=100. I'll write it up.
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>>> mp
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>> I had the feeling, by looking at the AXIS documentation ("When drawing an X axis, the x
coordinate is ignored, etc..."), that the coordinate had to be ignored too in the statement. So that:
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>> a0 = axis('X',location=[ymax],tickdir=1)
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>> seems to work, as well as:
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>> a1 = axis('Y',location=[xmax],tickdir=1)
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>> in case of Y being log-scaled.
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>> If true, that is definitely a bug, since the starting coordinate of the new axis remains
constrained along a direction.
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>> alain.
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> Huh. I actually get an error 'LOCATION must have 2 or 3 elements' when I try to run those two
lines. You are right that orientation of the new axis is constrained to be parallel to the currently
established co-ordinate system.
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By using IDL V8.2.1 and Win7, on "pl=plot(/TEST)", I find that
"ax=axis('X',LOCATION=[0.2,0.2])", as well as "ax=axis('X',LOCATION=[0.2])", produces an
horizontal axis located at the right Y, but wrongly starting at X=0.

alx.
