Subject: plot label help

Posted by rickeym on Wed, 08 Oct 1997 07:00:00 GMT

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I'm using IDL to plot a curve on a log-log scale. I want the y axis labels to be in powers of 10 (i.e. 10\(^0\), 10\(^1\), 10\(^2\), ect). Some times the yxis is lableld the way i want, other times the axis reads 1.0, 10.0, 10.0, ect. Is there a way to always have the y axis labels the way i need. Thanks for any help!

Rick McDaniel rickeym@hubcap.clemson.edu

Subject: Re: plot label

Posted by Paul Van Delst[1] on Tue, 04 Apr 2006 17:03:22 GMT

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Steve.Morris@libero.it wrote:

- > Hi guys!!
- > I would like to make some plots, but only with certain number shown in
- > the x and y axis. Is there any clever command to do that in IDL ??

Clever? No.

- > For example write only 3000, 3500, 4000, 4500 rather then
- > 3100,3200,3300 etc
- > Or, example, to write 3000 in bigger size, 3500 in smaller, 4000 in
- > bigger on so on ...

Dunno about the latter, but the former should be able to be done with judicious use of the [xy]ticks and [xy]tickv keywords to plot.

For the latter, you'd probably have to use xyouts (yuk). But maybe you can also do it with [xy]tickv, but including formatting commands as part of the tick labels? E.g. !U ? It'll superscript the number but also make it smaller.

I'm sure it can be done in OG, but it'll probably take a week to write the code to do it. :o)

paulv

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Paul van Delst CIMSS @ NOAA/NCEP/EMC

Subject: Re: plot label

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- > Thanks!
- > S.

Try using a combination of xticks, xtickv and xtickname as in the following example:

```
;;Program to demonstrate placing axis tick marks at specified values.
```

;;Plot a straight line from 0 to 1 with x-ticks at the following locations:

```
values = [0, .3, .6, .9, 1.0]
n_int = 4 ;number of x intervals (not x values)
```

;;labels are what is actually printed at each tick mark

;;The '!d' and '!n' modifiers are positioning commands (in the IDL help index, see

;;'positioning: commands'. The second and forth labels will be lowered.

```
labels = ['0', '!b0.3', '!n0.6', '!b0.9', '!n1.0']
```

```
plot, [0, 1], [0, 1], $
```

xticks = n_elements(labels)-1, \$;number of tick intervals xtickv = values, \$;x-value of each tick mark

xtickname = labels ;text printed at each tick mark

end