Subject: Re: Scientific Notation on Log Plots Posted by safier on Tue, 06 Feb 1996 08:00:00 GMT

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>>>> "jonathan" == jonathan boswell <boswell@pinet.aip.org> writes:

jonathan> I've got a bizarre formatting problem going on with IDL jonathan> V4.0.1 on an Alpha VMS machine. When I make a plot with jonathan> the /ylog keyword, my plot comes out with neatly jonathan> labelled scientific notation on the y axis. The jonathan> notation actually has a number, followed by an asterisk, jonathan> followed by a 10, and finally with an actual superscript jonathan> number for the exponent. But I need to take control of jonathan> the format using, for example, the ytickformat keyword. jonathan> Only problem: the format reverts to normal FORTRAN-style jonathan> formatting, with a nn.nE+mm style. In other words, the jonathan> default neat exponential format goes away.

jonathan> Is there any way to control the formatting of the jonathan> default scientific notation?

jonathan> Jonathan Boswell FDA/CDRH

I do not know whether you can control scientific notation, but you can specify the labels by using ytickname. I usually use the defaults, and if I do not like the format, I force the labels with ytickname.

Cheers.

Pedro

--

Pedro N. Safier | "God offers to everyone his
Department of Astronomy | choice between truth and repose.
U. of Maryland at College Park | Take which you please--you can
phone: 301-405-1531; fax: 301-314-9067 | never have both." R. W. Emerson

Subject: Re: Scientific Notation on Log Plots Posted by zawodny on Wed, 07 Feb 1996 08:00:00 GMT View Forum Message <> Reply to Message

In article <1996Feb6.190450.24847@pinet.aip.org> boswell@pinet.aip.org (jonathan\_boswell) writes:

>

- > I've got a bizarre formatting problem going on with IDL V4.0.1 on an Alpha
- > VMS machine. When I make a plot with the /ylog keyword, my plot comes out
- > with neatly labelled scientific notation on the y axis. The notation actually
- > has a number, followed by an asterisk, followed by a 10, and finally with an

actual superscript number for the exponent. But I need to take control of
 the format using, for example, the ytickformat keyword. Only problem: the
 format reverts to normal FORTRAN-style formatting, with a nn.nE+mm style.
 In other words, the default neat exponential format goes away.
 Is there any way to control the formatting of the default scientific notation?
 Jonathan Boswell
 FDA/CDRH

Try using some variant of this function with YTICKFORMAT. I use this to get "even" powers of ten, but you can hack it to give 2.3\*10^3 or whatever.

```
function LOGTICK,axis,index,value; This function will provide tick labels which are powers of 10 exponent = alog10(value) if((exponent mod 1.) ne 0.) then begin print,!msg_prefix+'Tickmark value not an integer power of 10.' print,!msg_prefix+'Routine LOGTICK' pref = '~' endif else pref = '' return,pref+'10!U'+strtrim(fix(exponent),2)+'!N' end
```

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