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Subject: What is going on with the minor ticks on log plots????

Posted by [Joe\[2\]](#) on Wed, 26 Aug 1998 07:00:00 GMT

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Hi,

I'm running v5.1 under NT and have noticed the following bad behavior. While using the /XLOG key along with even powers of 10 for XRANGE and XTICKS set to the proper number of decades and xminor set to zero. I either do or do not get the expected minor ticks at (2,3,4,5,6,7,8,9). After some experimentation, it became apparent that the range specified by XRANGE had to fall wholly within the range from 1.000 to 1.e10.

That is

```
plot,[1],/nodata,/xlog,xrange=[1,1000],xticks=3,xminor=0
```

works, but

```
plot,[1],/nodata,/xlog,xrange=[0.1,100],xticks=3,xminor=0
```

```
plot,[1],/nodata,/xlog,xrange=[1.e8,1.e11],xticks=3,xminor=0
```

do not!

This strikes me as being arbitrary behavior and, therefore, a BUG in IDL. This may actually be a very old bug going back several versions of IDL. Does this happen on other platforms? It also appears on IDL for Digital Unix as far as I know.

Is there a way around this to force the proper minor ticks no matter the bounds of XRANGE. I have not tested this on YRANGE but assume there is similar behavior.

Thanks,

JMZ

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