Subject: Re: 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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Well, here is the solution. Run the following code.

```
Pro TEST
; No, this is not a protest ;)

  !p.multi    = [0,3,2]
  !p.ticklen  = .07

; This does not work
  !x.style    = 1
  plot,/xlog,[1],[10],xrange=[1.e10,1.e13],xticks=3
  plot,/xlog,[1.e9],[10],xrange=[1.e7,1.e10],xticks=3
  plot,/xlog,[1.e-3],[10],xrange=[1.e-5,1.e-1],xticks=4

; This works
  !x.style    = 0
  plot,/xlog,[1],[10],xrange=[1.e10,1.e13],xticks=3
  plot,/xlog,[1.e9],[10],xrange=[1.e7,1.e10],xticks=3
  plot,/xlog,[1.e-3],[10],xrange=[1.e-5,1.e-1],xticks=4

end
```

It appears that the anomalous behavior is related solely to the value of !x.style. Not knowing how the IDL source code is written I can onnly guess as to the cause of the problem. Either a different chunk of code is called when xstyle is 1 rather than 0 that handles powers of ten beyond 0 to 10 differently or powers of ten outside the range from 0 to 10 are not sufficiently "exact" so as to be recognized as an integer power of ten when xstyle=1.

I bet on the former.