
Subject: Re: how to force exponential format in graph labels

Posted by [zawodny](#) on Mon, 26 Apr 1993 11:37:40 GMT

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In article <1re2a0INNie9@nsat.ipp-garching.mpg.de> bds@uts.ipp-garching.mpg.de (Bruce d. Scott) writes:

> In a log-log plot whose ordinate values range from 1.e-3 to 1.e2, I
> would like to have the graph labels appear as exponentials and not
> as decimals. Is there way to force IDL (PV-Wave) to do this?

> --

> Dr Bruce Scott

Use the following function in conjunction with the XTICKFORMAT (YTICKFORMAT) keyword to the plot function. You'll need a recent version of IDL for this to work since this is a new feature.

```
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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