
Subject: IDL: plots in semi- or log-log
Posted by [Frederic Paletou](#) on Mon, 03 Mar 1997 08:00:00 GMT
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Hi there,

I'm wondering if there's a simple way to avoid getting a 10^0 tickmark when using a log-axis with PLOT.

Cheers,

--

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Subject: Re: IDL: plots in semi- or log-log
Posted by [tonya](#) on Fri, 07 Mar 1997 08:00:00 GMT
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In article <331AC300.41C6@obs-nice.fr>,
Frederic Paletou <paletou@obs-nice.fr> wrote:

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> a 10^0 tickmark when using a log-axis with PLOT.

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Hi Frederic,

There's a real simple way IF 10^0 is your FIRST tickmark:

```
plot_oi,x,y,xtickname='1'
```

This replaces the first tickmark label only, IDL/PVWAVE
puts in the others.

Where 10^0 is NOT the first ticklabel, make a string array containing
the real labels:

```
my_ticklabels=['10!U-6!N','10!U-5!N',.....etc]
plot_oi,x,y,xtickname=my_ticklabels
```

(or the variant to plot with log x-axis--> plot,/xlog ...,/ylog etc.)

```
--
|      Tony Adriaansen  ~      @_ ~ )))
|      Phone: +61 2 413 7211    ~ _|\  )))
|      Fax:   +61 2 413 7204    [_/_ )])
|      email: TonyA@dap.csiro.au  _/\< /_
```

Subject: Re: IDL: plots in semi- or log-log
Posted by [James Tappin](#) on Tue, 11 Mar 1997 08:00:00 GMT
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Tony Adriaansen wrote:

```
>
> In article <331AC300.41C6@obs-nice.fr>,
> Frederic Paletou <paletou@obs-nice.fr> wrote:
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> the real labels:
>
> [SIG.SNIP]
```

Or more elegantly define a tick format function e.g.

```
FUNCTION lformat, iax, index, val
```

```
  jpow = round(alog10(val))
  if (jpow eq 0) then return, '1' $
  else return, string(jpow, format="('10!u',i0,'!n')")
```

end

then do (e.g.)

plot, x,y, xtickformat='ltformat', /xlog

--

```
+-----+-----+-----+
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| sjt@star.sr.bham.ac.uk | University of Birmingham    | -- V |
| Ph: 0121-414-6462. Fax: 0121-414-3722    | |
+-----+-----+-----+
```
