Subject: Plotting weridness with ytickname
Posted by D.Kennedy on Fri, 28 Feb 1997 08:00:00 GMT
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Hi, I have this (simple) code to produce a stacked plot of
some spectra:

```
; Read in spectra and 'stack' them by adding an offset constant
; to the yaxis vector.
[snip]

; Set up the parameters for the plot command
xrange = [-130, 130] ; Set by hand
yrange = [-43, 20] ; Set by hand
tick_values = [-40, -30, -20, -10, 0, 10, 20]
tick_labels = [0,    10,   0,  10, 0, 10, 20]

; Plot empty frame with fiddled yaxis labelling etc
plot, xrange, yrange, xstyle=1, ystyle=1, $
 ytickv=tick_values, ytickname=tick_labels, $
 /nodata

; Overplot the various spectra
[snip]
```

Question - why is that when I run this code for the first time it produces
a yaxis which is still labelled from -42 to 20? Running the same
thing again will produce the correct labelling [0,10,0,10,0,10,20]
 though. WHY?

This is bad as I rerun the program with a parameter which produces
nice eps files to go into a scientific paper. And they're labelled
wrongly... I can't just plot twice in the eps case.

This is extremely puzzling to me, I have been changing the order of
params, been fiddling with ystyle etc but can't 'fix' this. Anyone
got any ideas?

[Please email and post responses - useless newserver!]

--
David Kennedy, Dept. of Pure & Applied Physics, Queen's University of Belfast
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Subject: Re: Plotting weridness with ytickname

Posted by D.Kennedy on Fri, 07 Mar 1997 08:00:00 GMT
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In article <331699C8.ABD@osf1.mpae.gwdg.de>,
Kevin Ivory <kivory2@osf1.mpae.gwdg.de> writes:
> David Kennedy wrote:
>
>> Hi, I have this (simple) code to produce a stacked plot of
>> some spectra:
>> ; Set up the parameters for the plot command
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>> plot, xrange, yrange, xstyle=1, ystyle=1, $
>> ytickv=tick_values, ytickname=tick_labels, $
>> /nodata
>>
>> Question - why is that when I run this code for the first time it produces
>> a yaxis which is still labelled from -42 to 20? Running the same
>> thing again will produce the correct labelling [0,10,0,10,0,10,20]
>> though. WHY?
>
> You might be using the buggy 4.0 IDL version: I opened a new IDL
> session, pasted your code into it and got exactly what you
> expected. I use IDL Version 4.0.1 (OSF alpha).
>
> From the 4.0 -> 4.0.1 bug-fix list:
> PLOT: XTICKNAME keyword does not work correctly in some instances.

Yep, this is indeed my problem, luckily its simple to fix, simply
slap " around each argument to xtickname. Thanks.
--
David Kennedy, Dept. of Pure & Applied Physics, Queen's University of Belfast
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