Subject: Re: /YNOZERO Posted by Paolo Grigis on Tue, 22 Feb 2005 17:32:48 GMT View Forum Message <> Reply to Message

Mr. No Address wrote:
> Christopher Lee wrote:
> In article <cv573u\$mmc\$1@news.nems.noaa.gov>, "Mr. No Address" >> <no_given_address@landofthelost.net> wrote:</no_given_address@landofthelost.net></cv573u\$mmc\$1@news.nems.noaa.gov>
>> >> >>
>>> I'm trying to create a plot with a fixed YRANGE for YAxis=0 and a self >>> scaling range incorporating /YNOZERO for YAxis=1. Here is the code: >>> PLOT, TIME, DATA.TEMP1, COLOR=0, /NODATA, YRANGE=[30,45], YSTYLE=8 >>> OPLOT, TIME, DATA.TEMP1, COLOR=1 >>> AXIS, YAxis=1, /YNOZERO, /Save >>> OPLOT, TIME, DATA.TEMP2, COLOR=2 >>> The above code produces a YAxis=1 that is the same scale as YAxis=0. The
>>> only way I'm able to get YAxis=1 to a scale different than YAxis=0 is to >>> explicitly set the range. >>> Gary >>>
>> What do you want Yaxis=1 to scale to? >
> I'd like YAxis=1 to self scale using DATA.TEMP2 in the following OPLOT > line.
Use the crystall ball object (part of the esoteric library):
future_argument=crystal_ball->do_prophecy(/get_future_argument,/extrapolate)
(use of the keyword /guess instead of /extrapolate is faster, but less accurate)
;-)

On a more serious tone, what about doing a supplementary plot beforehand and storing the !y.crange somewhere, and reusing that as input yrange to the axis procedure? Or, if you don't have the data before doing the first plot, save !P.multi, switch to device NULL, plot DATA.TEMP2, save !y.crange, switch to your former plot device, restore !P.multi and call AXIS with yrange equal the

saved !y.crange. Maybe not 100% straightforward... but it should work.

```
x=[1,2,3]
y=[2,3,5]
;we don't know the third array yet...
!p.multi=[0,2,2]
plot,x
;now we get the new data
z=[10,8.6,10]
pmulti=!p.multi
set_plot,'NULL'
plot,z,/ynozero
yrange=!y.crange
set plot,'X'
!p.multi=pmulti
plot,y,ystyle=8
AXIS, YAxis=1, /YNOZERO, /Save, yrange=yrange
oplot,z
Ciao,
Paolo
> line. I want the /YNOZERO option so that zero is not used for the min Y
> value. I did think about doing something similar to your code below.
> I'm using !P.MULTI = [0,2,2] though and each new instance of Plot
> creates a plot in the next panel. Of course, there is probably a way to
> prevent that... Maybe I'd have to use POSITION instead of !P.MULTI.
```

>