

## Subject: Re: 2 variables on same plot?

Posted by Martin Schultz on Thu, 26 Apr 2001 10:44:35 GMT

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Cathy Smith wrote:

> Hi all,  
>  
> How do I plot 2 variables on 1 plot? They each have vastly  
> different ranges. I believe I am supposed to use AXIS but I can't seem  
> to get the 2nd plot to be scaled correctly.  
>  
> xt=indgen(365)  
> plot,xt(0:90),omega(0:90),xstyle=8,ystyle=8  
> axis,yrange=,ystyle=1,/save,yaxis=1,xaxis=0  
> oplot,xt(0:90),prate(0:90),linestyle=2  
>  
> The 2nd y axis has values from 0 to 10 and the data ranges from 0 to 10  
> but it is plotted from 0 to .001 or something like that.  
>  
> thanks  
> Cathy Smith  
>  
> --  
> "A round of victory lattes for everyone!!!!"  
>  
> #####  
> # NOAA-CIRES Climate Diagnostics Center #  
> # U of C Campus Box 216 Boulder, CO 80309-0216 #  
> # e-mail cas@cdc.noaa.gov web:http://www.cdc.noaa.gov/~cas #  
> # phone (303)497-6263 fax:(303)497-6449 #  
> #####

Can't see anything wrong with your code (except for using () instead of [] for array indexing). The procedure below does what it should, I think. Try a statement like

```
print, min(prate(0:90),max=mm),mm
```

to see what your data range is really like.

In the future: please post code examples that work by cut&paste - the easier it is for people to try out your code, the more likely will you get an answer.

Cheers.

Martin

## PRO second\_axis

```

;; create dummy data
xt=indgen(365)
omega = sin(!DTOR*xt)
prate = 10.*cos(4.*!DTOR*xt)*cos(4.*!DTOR*xt)*exp(-xt/100.)

;; plot
plot,xt,omega,xstyle=8,ystyle=8
axis,yrange=,ystyle=1,/save,yaxis=1,xaxis=0
oplot,xt[0:90],prate[0:90],linestyle=2

```

END