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Subject: Re: Variable Tick Scaling  
Posted by [Martin Schultz](#) on Tue, 01 Sep 1998 07:00:00 GMT  
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James,

how about the following? It is independent of the actual range of your data and should be adapted easily enough if you want to have minor tickmarks change, say, 1/4 through the way. The routine has one little glitch in that the label at half way is written as if the axis would stop there, i.e. a little too low. You could circumvent this by issuing another axis call with no minor tick marks at all (or you could plot the axis with minor=1 in the plot command).

Hope this helps,  
Martin.

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Dr. Martin Schultz  
Department for Earth&Planetary Sciences, Harvard University  
109 Pierce Hall, 29 Oxford St., Cambridge, MA-02138, USA

phone: (617)-496-8318  
fax : (617)-495-4551

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e-mail: [mgs@io.harvard.edu](mailto:mgs@io.harvard.edu)  
Internet-homepage: <http://www-as.harvard.edu/people/staff/mgs/>

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pro minor

```
x=findgen(20)
y=10.*exp(-x/10.)
```

```
plot,x,y,yrange=[0,10],ystyle=5
```

```
half = 0.5*total(!y.crange) ; get half of data range
whalf = 0.5*total(!y.window) ; get half size of plot window
wsave = !y.window ; save plot window size
```

```
; draw bottom half of axis
!y.window[1] = whalf
```

```
axis,!x.crange[0],YAXIS=0,yrange=[!y.crange[0],half], $  
    ystyle=1,yminor=10  
axis,!x.crange[1],YAXIS=1,yrange=[!y.crange[0],half], $  
    ystyle=1,yminor=10, $  
    ytickname=replicate(' ',30)  
!y.window = wsave  
  
; draw top half of axis  
!y.window[0] = whalf  
axis,!x.crange[0],YAXIS=0,yrange=[half,!y.crange[1]], $  
    ystyle=1,yminor=3, ytickname=' '  
axis,!x.crange[1],YAXIS=1,yrange=[half,!y.crange[1]], $  
    ystyle=1,yminor=3, $  
    ytickname=replicate(' ',30)  
!y.window = wsave  
  
return  
end
```

#### File Attachments

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- 1) [minor.pro](#), downloaded 73 times
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