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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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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 93 times

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