
Subject: Re: How to plot with time as one axis ?

Posted by [Kolbjorn Bekkelund](#) on Sun, 19 Jan 2003 14:01:29 GMT

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Kolbjorn Bekkelund wrote:

> I have an array in this format:

>
> 18122002 00.00 2452626.500049 12.742800 20.202000 167.380800 954.355800
> 68.730800 -3.564065

>
> continuing down to:

>
> 18122002 23.59 2452627.499930 8.624700 12.121200 171.951600 955.973100
> 94.427600 -5.265564

>
> The first field is the date, second is the time (hr.min), third is the
> julian for the two first and the rest is the actual data I would like to
> plot.

>
> My problem is that if I do this:

>
> plot, data(1,*) ,data(4,*), xstyle=1, /noerase, color=119, \$
> xrange=[0, 24]

>
> I get a "chopped" plot at the end of each hour since I "miss" data
> between ex. 22.59 and 23.00. IDL would like me to have all the steps
> from 22.60 and up to 22.99 as well.

>
> How can I tell IDL that I actually would like to have my xaxis in hours,
> and that in between the hours I would like to have 60 minutes and not
> tenths ?

>
> Best regards,
> Kolbjorn Bekkelund

I solved it myself like this:

```
xbins = Findgen(N_Elements(data(1,*)))
xrange = [Min(xbins), Max(xbins)]
yrange_wind = [Min(data(4, *)), Max(data(4, *))]
!x.tickname = ['00', '04', '08', '12', '16', '20', '24']
!x.ticks = 6
plot, xbins ,data(4,*), xstyle=1, color=119, $
  XRange=xrange, Yrange=yrange_wind
oplot, xbins,data(4,*), color=166
yrange_press = [Min(data(6, *)), Max(data(6, *))]
plot, xbins, data(6,*), xstyle=4, /noerase, ystyle=4, $
  XRange=xrange, color=119, Yrange=yrange_press
```

```
axis,yaxis=1, color=119
oplot, xbins, data(6,*), color=255
```

Kolbjorn

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Kolbjorn Bekkelund      * |      ==|==
Systems Eng. ALOMAR Observatory      | *      |_|
Andoya Rocket Range      ===== |
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    /\  eMail: kobe@rocketrange.no    '-----'-----|  |
/(  )\ Using Linux for Science.....  |[ ] ||[]| |  | |
  ^^ ^^  -----'----- --
```
