
Subject: Re: plot axis problem?

Posted by [Wox](#) on Wed, 01 Aug 2007 08:18:06 GMT

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On Wed, 01 Aug 2007 05:40:26 -0000, metachronist <rkombiyil@gmail.com> wrote:

```
> IDL Gurus,
> I think this is too trivial.. but anyways I can't get it right :(
>
> IDL> time=[22.,23.,0.,1.,2.,3.,4.,5.,6.,7.]
> IDL> field=[4.2,56.7,89.34,22.,0.,43.5,10.,2.,33.,-10.5]
>
> So the time values start at 2200hrs and then go past midnight and then
> to 0700hrs in the morning. How would I "force" the 'x' axis (time) to
> start at 22hrs goto (midnight) 0hrs and then increase to 7hrs? I
> found out that setting xrange wouldn't help either since the decrease
> (increase in terms of time) from 2200hrs --> 2400hrs(0hrs) is IDL way?
> Like (22,20,18,...,0,2,...8) , as a result, nothing gets plotted :(
> Thanks for any suggestions,
> /rk
```

Well, you could change the tick names:

```
time=[22.,23.,0.,1.,2.,3.,4.,5.,6.,7.]
field=[4.2,56.7,89.34,22.,0.,43.5,10.,2.,33.,-10.5]
```

```
n=n_elements(time)
ind=where(time[1:]*] lt time[0:n-2],ct)
time2=time
for i=0,ct-1 do time2[ind[i]+1:]*+=24
```

```
plot,time2,field,XTICKN=strtrim(fix(time),2)+'hrs'
```

Subject: Re: plot axis problem?

Posted by [Wox](#) on Wed, 01 Aug 2007 12:03:01 GMT

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On Wed, 01 Aug 2007 10:18:06 +0200, Wox <nomail@hotmail.com> wrote:

```
> Well, you could change the tick names
```

By accident I also stumbled on this:

http://star.pst.qub.ac.uk/idl/Displaying_DateTime_Data_on_Axis_Objects.html

Subject: Re: plot axis problem?

Posted by [rkombiyil](#) on Wed, 01 Aug 2007 15:14:31 GMT

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On Aug 1, 9:03 pm, Wox <nom...@hotmail.com> wrote:

> On Wed, 01 Aug 2007 10:18:06 +0200, Wox <nom...@hotmail.com> wrote:

>> Well, you could change the tick names

>

> By accident I also stumbled on this:http://star.pst.qub.ac.uk/idl/Displaying_DateTime_Data_on_Axis_Object...

Well, thanks for taking time off to help and the link! Two things, if I may.

#1. The above code needs a minor modification to plot correctly, since `n_elements(time) = 10`, I would need to add:

```
<code>
```

```
plot,time2,field,xticks=9,XTICKN=strtrim(fix(time),2)+'hrs'
```

```
</code>
```

to plot correctly.

#2. My time arrays are rather large. I actually did a reverse when I ran into this problem, as in setting:

```
<code>
```

```
time_array[where(time_array ge 24.)]=time_array[where(time_array ge 24.)]-24.
```

```
</code>
```

Anyway, I should admit that it was clever of you to think of changing the ticknames, reminds me that I should RTFM more.. I haven't thought of that at all. Since the whole point was to make it more "human readable" as in resetting time to be 000hrs at midnight and then increase, I guess for plot purposes, your method would suffice! Because all I need is to display as above, nothing changes, except the format of the time displayed :-)

Thanks,
/rk
