
Subject: Re: suppression of time axis annotation
Posted by [David Fanning](#) on Fri, 06 May 2005 14:24:26 GMT
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Ben Tupper writes:

> I am trouble controlling axis annotations when I specify time based
> axes. Specifically, I am unable to suppress the time-based tickmarks
> by specifying the TICKNAME keyword. Does someone know a another method
> for suppressing tickmarks?
>
> I have pasted in a simple example below that shows the trouble. In one
> window I get the tickintervals I desire but the annotationn I don't
> want. In the other I get the suppression I want, but not the tick interval.

Humm, this does what you want:

```
Window,1
PLOT, t, y1, $
  Title = "Ticks unmatched - " + $
    "but annotation is suppressed in middle", $
  POSITION = p1, $
  XSTYLE = 1, $
  XTICKINTERVAL = 4, $
  XMINOR = 4
  XTICKFORMAT='(A0)'
PLOT, t, y2, $
  NOERASE = 1, $
  POSITION = p2, $
  XSTYLE = 1, $
  XTICKUNITS = ['Months', 'Years'], $
  XTICKINTERVAL = 4, $
  XMINOR = 4
```

But on my output it looks like someone has gone in there with a magic marker and scribbled all over the left side of the plot. Do you see that, too?

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: suppression of time axis annotation
Posted by [R.G. Stockwell](#) on Fri, 06 May 2005 15:24:33 GMT
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"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1ce52bfb5be9076c9899f4@news.frii.com...

>
>
> ...
> Humm, this does what you want:
>
> Window,1
> PLOT, t, y1, \$
> Title = "Ticks unmatched - " + \$
> "but annotation is suppressed in middle", \$
> POSITION = p1, \$
> XSTYLE = 1, \$
> XTICKINTERVAL = 4, \$
> XMINOR = 4
> XTICKFORMAT='(A0)'
> PLOT, t, y2, \$
> NOERASE = 1, \$
> POSITION = p2, \$
> XSTYLE = 1, \$
> XTICKUNITS = ['Months', 'Years'], \$
> XTICKINTERVAL = 4, \$
> XMINOR = 4
>
> But on my output it looks like someone has gone in there
> with a magic marker and scribbled all over the left side
> of the plot. Do you see that, too?
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

I see the scribbling too. It is the julian day number being printed out
repeatedly
over itself many times.
Are you are missing a "\$" at the end of xminor=4 in the first plot?
The xtickformat is not being set.
However, that does not seem to make a difference.

Back to the original question, suppressing tickmarks.
You can set the length to be very small.

xticklen = 0.001

I don't know if that helps. But you can put it in your (Ben's) second example and the ugly unmatched tickmarks go away.

As a guess, I think the tickmarks when using xtickunits=['month', 'year'] are in units of months. (i.e. you are set to 4 months as xtickinterval]. Perhaps that does not translate to days, since a month can have different days. If you drop the xtickunits name, and replace the xtickinterval with the appropriate days (i.e. xtickinterval = 4*30) it still does not line up.

Cheers,
bob

Subject: Re: suppression of time axis annotation
Posted by [btt](#) on Fri, 06 May 2005 19:33:09 GMT
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R.G. Stockwell wrote:

```
> "David Fanning" <davidf@dfanning.com> wrote in message
> news:MPG.1ce52bfb5be9076c9899f4@news.frii.com...
>
> ...
>
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>>
>> Window,1
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>> "but annotation is suppressed in middle", $
>> POSITION = p1, $
>> XSTYLE = 1, $
>> XTICKINTERVAL = 4, $
>> XMINOR = 4
>> XTICKFORMAT='(A0)'
>> PLOT, t, y2, $
>> NOERASE = 1, $
>> POSITION = p2, $
>> XSTYLE = 1, $
>> XTICKUNITS = ['Months', 'Years'], $
>> XTICKINTERVAL = 4, $
>> XMINOR = 4
>>
```

>> But on my output it looks like someone has gone in there
>> with a magic marker and scribbled all over the left side
>> of the plot. Do you see that, too?
>>
>> Cheers,
>>
>> David
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
>
>
>
> I see the scribbling too. It is the julian day number being printed out
> repeatedly
> over itself many times.
> Are you are missing a ",\$" at the end of xminor=4 in the first plot?
> The xtickformat is not being set.
> However, that does not seem to make a difference.
>
> Back to the original question, suppressing tickmarks.
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> xticklen = 0.001
> I don't know if that helps. But you can put it in your (Ben's) second
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> As a guess, I think the tickmarks when using xtickunits=['month', 'year']
> are
> in units of months. (i.e. you are set to 4 months as xtickinterval].
> Perhaps that does not
> translate to days, since a month can have different days.
> If you drop the xtickunits name, and replace the xtickinterval with the
> appropriate
> days (i.e. xtickinterval = 4*30) it still does not line up.
>

Thanks Bob and David,

The XTICKLEN solution almost works - it just the enduser wants tickmarks. Added to my woes is that I really want to stack three plots or more. I though I could perhaps plot the bottom one first, get the tickvalues (XTICK_GET) and the specify the tickvalues (XTICKV) but that doesn't do it.

Hmmm.

Thanks anyway,
Ben

Subject: Re: suppression of time axis annotation
Posted by [R.G. Stockwell](#) on Fri, 06 May 2005 22:59:26 GMT
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"Ben Tupper" <btupper@bigelow.org> wrote in message
news:3e1v3mFpoabU1@individual.net...

...
> Hmm.
>
> Thanks anyway,
> Ben

this seems close, although one tick mark looks off :(

-bob

```
n = 360
t = TIMEGEN(n, start = JULDAY(1,1,2005), STEP_SIZE = 7)
y1 = RandomN(seed, n)
y2 = RandomN(seed, n)
```

```
p1 = [0.1, 0.5, 0.9, 0.9]
p2 = [0.1, 0.1, 0.9, 0.5]
```

Window,0

v = 0

```
PLOT, t, y1, color=0,$
  Title = "junk plot - "+ $
  " ", $
  POSITION = p1, $
  XSTYLE = 1, $
  XTICKUNITS = ['Months', 'Years'], $
  XTICKINTERVAL = 4, $
  XMINOR = 4,$
  xticklen = .05,charsize = 0.001,xtick_Get=v
erase
```

```
PLOT, t, y1, $
  Title = "Ticks matched i think - "+ $
  "no annotation in middle", $
  POSITION = p1, $
```

```
xminor=4,$
XSTYLE = 1, $
xtickname=blank_string(60),$
xticklen = .1,charsize = 1,$
xtick_Get=v2,$
xticks = n_elements(v)-1,$
xtickv=v
```

```
PLOT, t, y1, $
  NOERASE = 1, $
  POSITION = p2, $
  XSTYLE = 1, $
  XTICKUNITS = ['Months', 'Years'], $
  XTICKINTERVAL = 4, $
  XMINOR = 4
```

end

Subject: Re: suppression of time axis annotation
Posted by [R.G. Stockwell](#) on Fri, 06 May 2005 23:34:37 GMT
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"R.G. Stockwell" <no@email.please> wrote in message
news:UESee.45\$Q31.2751@news.uswest.net...

> this seems close, although one tick mark looks off :(

... snip

forgot to add....

if you want a nice gui appearance, you could call the original plot
to a pixmap or something, just to get the values of the tickmarks.

cheers,
bob

Subject: Re: suppression of time axis annotation
Posted by [btt](#) on Wed, 11 May 2005 15:49:18 GMT
[View Forum Message](#) <> [Reply to Message](#)

R.G. Stockwell wrote:

> "Ben Tupper" <btupper@bigelow.org> wrote in message
> news:3e1v3mFpoabU1@individual.net...

> ...
>
>> Hmm.
>>
>> Thanks anyway,
>> Ben
>
>
>
> this seems close, although one tick mark looks off :(
>
> -bob
>

Thanks Bob,

This does get quite close.

Ben
