
Subject: Re: Plotting time

Posted by [David Fanning](#) on Wed, 30 Nov 2005 01:31:13 GMT

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Mark Hadfield writes:

```
> David sent me some code in which a date axis as described by the OP was
> grafted into his XPLOT plotting window application thingy. The axis
> appeared in the wrong place, off the left-hand edge of the plot window,
> as reported. I traced the problem. XPLOT gets the axes in the right
> place by adjusting the scaling, something like this
>
>   xAxis->GetProperty, CRange=xrange
>   xs = Normalize(xrange, Position=[xn0,xn1])
>   xAxis->SetProperty, XCoord_Conv=xs
>
> where xn0 & xn1 are the desired end points of the axis in normalised
> coordinates.
>
> NORMALIZE was doing its calculations in single-precision floating point
> and returning a single-precision result. Once I changed everything to
> double-precision, the axis appears in the right place.
```

Ah, *my* NORMALIZE does it's calculations in double precision. But I just noticed that my XPLOT has an *old* copy that does it in single precision. Just another reminder to all you aspiring IDL programmers out there that you should really, REALLY check your assumptions. :-)

Thanks, Mark.

Cheers,

David

P.S. The *new* version of XPLOT will not include NORMALIZE. :-)

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
