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/