
Subject: Re: Plotting double precision

Posted by [Craig Markwardt](#) on Thu, 24 Feb 2000 08:00:00 GMT

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davidf@dfanning.com (David Fanning) writes:

- > Investigate some of the keywords
- > that are available for the PLOT command. I would start with
- > [XYZ]Tickname, [XYZ]TickV, and maybe [XYZ]Tickformat.

Yeah, and welcome to another planet of hurt. David is right though. The best solution is to scale your data and then label the axes yourself. Personally, I think it's actually cleaner to scale your data by $10^{(-39)}$, and then put that in the "units" of your x/ytitle.

I've also encountered the single-precision-plotting problem when I am plotting numbers with $X = X0*(1+d)$ where d is very small. When $d/X0$ becomes smaller than about 1 in a million, you can see a noticeable staircase effect on the plot, since single precision can't preserve the fidelity. My only solution has been to subtract and rescale the data.

Craig

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