
Subject: Re: -0.0

Posted by [kisCA](#) on Sat, 22 Jan 2011 00:13:32 GMT

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On Jan 20, 2:29 pm, Paolo <pgri...@gmail.com> wrote:

> On Jan 20, 2:22 pm, kisCA <ki...@hotmail.com> wrote:

>

>> I like this "sky is falling" things :-)

>

>> I guess that it could be a problem of precision with float...the range

>> should be higher in positive value in order to have 0 on the positive

>> side?

>

>> Thanks!

>

> Well yes. What happens is that when you do

>

> plot,[0,0],xrange=[-0.6,0.6],xtickv=vvv

>

> is that the plot range is given by

>

> r=!X.crange

>

> print,r,format='(f13.10)'

> -0.60000000238

> 0.59999999762

>

> IDL presumably uses the following formula to create 7 tick marks:

>

> tickv=r[0]+(r[1]-r[0])/6.0*findgen(7)

>

> print,tickv,format='(f13.10)'

> -0.60000000238

> -0.40000000238

> -0.20000000238

> -0.00000000238

> 0.19999999762

> 0.39999999762

> 0.59999999762

>

> When rounded to something more useful for plots:

>

> print,tickv,format='(f4.1)'

> -0.6

> -0.4

> -0.2

> -0.0

> 0.2

> 0.4
> 0.6
>
> That's how you get the negative zero.
>
> Ciao,
> Paolo

Well demonstrated. Thanks for the teaching!

Cheers
