Subject: Re: -0.0

Posted by pgrigis on Thu, 20 Jan 2011 22:29:50 GMT

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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)'
-0.6000000238
0.5999999762
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)'
-0.6000000238
-0.4000000238
-0.2000000238
-0.000000238
0.1999999762
0.399999762
0.5999999762
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

That's how you get the negative zero.

Ciao, Paolo