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Subject: Re: HISTOGRAM, binsize, and max  
Posted by [pgrigis](#) on Wed, 18 May 2011 18:33:08 GMT  
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On May 18, 1:08 pm, andry <[andry\\_will...@hotmail.com](mailto:andry_will...@hotmail.com)> wrote:

> Hi Paolo,  
>  
> I guess this has to do with the fact that different computers don't  
> behave the same way. What OS and which version of IDL are you with?  
>  
> Mine is actually a  
> { x86 linux unix linux 8.0 Jun 18 2010    32    64 }

Maybe you have conversion to doubles enabled by default?

With floats you always get 7+1 bins:

```
IDL> print,1.4/0.2,format='(f20.15)'
7.000000000000000
IDL> print,140.0/20.0,format='(f20.15)'
7.000000000000000
```

With doubles you will get different numbers of bins:

```
IDL> print,1.4d/0.2d,format='(f20.15)'
6.999999999999999
IDL> print,140d/20d,format='(f20.15)'
7.000000000000000
```

Ciao,  
Paolo

>  
>  
>  
>  
>  
>  
>  
>  
>> When I try that I always get 8 bins no matter what.  
>> I don't see how you could get 7 bins in that situation...  
>  
>> IDL> hist\_spd= HISTOGRAM(randomn(seed,10)\*200,binsize= .  
>> 20,min=0.,max=1.40) & help,hist\_spd  
>> HIST\_SPD        LONG       = Array[8]

```
>
>> IDL> hist_spd= HISTOGRAM(randomn(seed,10)*200,binsize=
>> 20.0,min=0.,max=140.0) & help,hist_spd
>> HIST_SPD      LONG      = Array[8]
>
>> Ciao,
>> Paolo
>
>>> Cheers,
>
>>> David
>
>>> --
>>> David Fanning, Ph.D.
>>> Fanning Software Consulting, Inc.
>>> Coyote's Guide to IDL Programming:http://www.idlcoyote.com/
>>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
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