
Subject: Re: histogram produces extra bin in 64-bit IDL 8.0
Posted by [David Fanning](#) on Fri, 13 May 2011 14:08:58 GMT
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Eric Tittley writes:

```
> Consider the following code:  
> IDL> D=randomu(32,3200);  
> IDL> N=histogram(D,min=0.,max=1.,binsize=0.1,Locations=X)  
>  
> In IDL 32-bit:  
> IDL> print, size(N)  
>      1      10      3      10  
> IDL> print, X  
> 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9  
> IDL> print, !version  
> { x86 linux unix linux 8.0 Jun 18 2010      32      64}  
>  
> In 64-bit IDL:  
> IDL> print, size(N)  
>      1      11      3      11  
> IDL> print, X  
> 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0  
> IDL> print, !version  
> { x86_64 linux unix linux 8.0 Jun 18 2010      64      64}  
>  
> As you can see, the 64-bit version produces an extra erroneous bin, contrary to the what is  
expected from the help pages for histogram.
```

Undoubtedly a consequence of the razor's edge:

http://www.idlcoyote.com/math_tips/razoredge.html

Cheers,

David

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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.")
