
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
[View Forum Message](#) <> [Reply to Message](#)

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

--

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.")
