Subject: Re: change in histogram
Posted by thompson on Wed, 29 Jul 1998 07:00:00 GMT
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Actually, all these behaviors also exist in IDL/v4.0.1, so they're not new.

By the way, the statement

> IDL> help,histogram(findgen(100),binsize=0.5)
> <Expression>   LONG   = Array[199]

does exactly what you'd expect it to. The histogram values bounce between 1
and 0. If the array was 200 bins long, the last bin would be 0, because it
would represent the value 99.5, which isn't in the input array.

William Thompson

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Vap User <vapuser@haifung.jpl.nasa.gov> writes:

> Has there been a change to histogram in IDl 5.1? The documentation
> says that the array is searched for the min/max values if min=/max=
> keyword are missing. However, consider the following...
>
> IDL> help,histogram(bindgen(100))
> <Expression>   LONG   = Array[256]
>
>   which suggests it sets max to the top value possible for a byte array.
>
> IDL> help,histogram(indgen(100))
> <Expression>   LONG   = Array[100]
>
>   As desired.
>
>
> IDL> help,histogram(bindgen(100) + 2)
> <Expression>   LONG   = Array[100]
>
>   Also as desired. But stranger still, since this is effectively the case above.
>
>
> Am I missing something here?
>

> Also...
>

> Here's another oddity.
>
> IDL> help,histogram(lindgen(100),binsize=0.5)
> % HISTOGRAM: Illegal binsize or max/min.
> % Execution halted at: $MAIN$
>
> IDL> help,histogram(lindgen(100),binsize=1.5)
> <Expression>   LONG   = Array[100]
>
> IDL> help,histogram(findgen(100),binsize=0.5)
> <Expression>   LONG   = Array[199]
>
> Why can't I specify a binsize of 1/2 with a interger type array? I can
> specify one of 1.5. And I can specify one of 0.5 for a floating point
> array having the same values as the integer type array.
>
> I don't recall these restriction in IDl 4.x.
