Subject: Re: Problems with 'HISTOGRAM'
Posted by Martin Schultz on Fri, 11 Jun 1999 07:00:00 GMT
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Martin Vissers wrote:
>
> Dear newsreaders
>
> I have a problem with the IDL fuction histogram.
> I'm running IDL 5.0.3a on windows NT4.0 (sp5)
>
> If I make the following histogram:
>
> aa=histogram(dindgen(330)-180.0d,min=-180.0d,max=180.0d,bins ize=10.0d)
>
> the array aa has 37 elements:
> AA LONG = Array[37]
>
> but it should have 36 elements ??????
>

NO! 37 is correct. You get a bin left of your data and a bin to the right of your data. Or, a little more formal: The online help gives the formula of the histogram function, and the key statement is that v (which is your bin number) is

v = 0,1,2, ... (MAX-MIN)/BINSIZE

Plug in your numbers and you get

v = 0,1,2, ... ,36

which makes 37 elements.

Regards,
Martin

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Subject: Re: Problems with 'HISTOGRAM'
Posted by mchinand on Fri, 11 Jun 1999 07:00:00 GMT
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In article <376107F3.DA94ABC5@users.whh.wau.nl>,
Martin Vissers <martin.vissers@users.whh.wau.nl> wrote:

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There are 361 numbers between -180 and 180, inclusive. So 361/binsize=
36.1 which gets rounded up to 37.

--Mike

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