
Subject: Re: HISTOGRAM data type bug?

Posted by [Foldy Lajos](#) on Mon, 14 Jun 2010 09:45:03 GMT

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On Mon, 14 Jun 2010, chris wrote:

```
> Hi,
> I observed that IDL 6.4 x64 and 7.1 x64 (Windows 7 x64) crashes each
> time I'd like to do the following:
>
> IDL> test_histo_bug
> % Compiled module: TEST_HISTO_BUG.
> L      INT      = Array[5, 5]
> L      DOUBLE   = Array[5, 5]
> H      LONG     = Array[7]
>
> IDL> test_histo_bug,/crashme
> ->IDL crashes completely
>
>
> pro test_histo_bug,crashme=crashme
> l=$
> [[0,0,0,0,0],$
> [0,1,1,1,1],$
> [0,1,1,1,1],$
> [0,1,1,1,1],$
> [0,1,1,1,2]]
> help,l
> l=keyword_set(crashme)? ulong(l) : double(l)
> h=histogram(l,reverse_indices=r,nbins=7,min=1)
> help,l,h
> end
>
> Is it possible that HISTOGRAMM can't *handle* ULONG values? May be
> someone can shed some light on this behaviour?
>
> Thanks in advance
>
> CR
>
```

From the docs:

BINSIZE

Set this keyword to the size of the bin to use. If this keyword is not specified, and NBINS is not set, then a bin size of 1 is used. If NBINS is set, the default is BINSIZE = (MAX - MIN) / (NBINS - 1).

Note

The data type of the value specified for BINSIZE should match the data type of the Array argument. Since BINSIZE is converted to the data type of Array, specifying mismatched data types may produce undesired results.

So, your BINSIZE is 0 (calculated as ULONG). This may cause a 'divide by zero' crash. I think IDL forgets to check BINSIZE.

regards,
lajos
