
Subject: Very strange problem in IDL histogram, A bug???

Posted by [Poonam Chandra](#) on Thu, 23 Jun 2011 17:09:58 GMT

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Hi,
My data distribution looks like this:

Range	No.
0-50	0
50-100	8
100-150	14
150-200	18
200-250	8
250-300	8
300-350	5
350-400	2
400-600	17
600-800	4
800-1000	6
1000-2000	2

With the help of Jeremy in a previous discussion, this is how I am proceeding:

```
data = [50+randomu(seed,8)*50, 100+randomu(seed,14)*50,  
150+randomu(seed,18)*50, $  
200+randomu(seed,8)*50, 250+randomu(seed,8)*50, 300+randomu(seed,  
5)*50, 350+randomu(seed,2)*50, $ 400+randomu(seed,17)*200,  
600+randomu(seed,4)*200, 800+randomu(seed,6)*200, $  
1000+randomu(seed,2)*1000]
```

```
bin_edges = [0,50,100,150,200,250,300,350,400,600,800,1000,2000]  
nbins = n_elements(bin_edges)-1  
data_bins = value_locate(bin_edges, data)  
labelnums = rebin(1 # bin_edges, 2, nbins+1, /sample)  
labels = string(labelnums[1:2*nbins], format='(%%0d - %%0d)')
```

```
cghistoplot, data_bins, xrange=[0,nbins], xticks=nbins-1, $  
xtickv=0.5+indgen(nbins), xtickname=labels, /window
```

And in the plot window, this is what the final distribution is looking:

0-75	0
75-175	22
175-275	26
275-375	13
375-700	2
700-1050	0

This is totally crazy. How did the IDL get this distribution for the histogram?

I backtracked the problem and I see that as long as I define my data has 7

ranges (i.e. 0-50, 50-100, 100-150, 150-200, 200-250, 250-300, 300-350, 350-400),

everything is fine but the moment I add the next range i.e. 400-600, it totally goofs up.

Any idea whats going on? Is it any bug in histogram? If I have your email address, I can actually send the full program and the final plots for you to have a look at.
