Subject: Last bin of a histogram ?
Posted by John Correira on Wed, 10 Apr 2013 17:33:20 GMT
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I'm trying to understand why HISTOGRAM selects the bins it does. The final part I don't understand is the last bin. Here is an example

```
; some fake data
data = RANDOMU(systime(1),1000)*100

; make sure there are some values in the last bin
while N_ELEMENTS(where(data ge 99.5 AND data lt 100.,count)) do $
  data = RANDOMU(systime(1),1000)*100

; how many points fall in the last bin?
print, count

h = histogram(data,min=9.5,max=99.5,binsize=.5,locations=locs)
nbins = n_elements(h)

; starting locations of the last few bins
print, locs[nbins-5:nbins-1]

; how many points in the last few bins
print, h[nbins-5:nbins-1]
```

Why is the last bin returned by the HISTOGRAM function zero? According to the help, the LOCATIONS keyword returns "the starting locations for each bin", so to my mind the last bin should include values that fall between locations[-1] and locations[-1]+binsize. I must be missing something obvious but I can't see it.

Best regards,

John