Subject: Histogram question
Posted by Michael Wallace on Sun, 08 Aug 2004 04:11:27 GMT
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I have some data I need to histogram. I have two vectors, v1 and v2 which define a two-dimensional density. Normally I could just use HIST_2D and and I'd be set. However, this time around I have a third array, v3. v3[i] corresponds to a distinct number of counts at the position [v1[i], v2[i]]. So, when I do the histogram, I want to use the value found in v3 rather than just simply calculating a density based only on occurrences of v1 and v2 pairs.

For example, let's say that I have...
v1 = [0, 1, 0, 2, 0, 2, 2, 1, 0]
v2 = [1, 1, 2, 2, 0, 1, 2, 0, 0]
v3 = [3, 0, 2, 0, 1, 1, 4, 2, 1]

Doing a HIST_2D against v1 and v2 should yield something like...
[[2, 1, 0],
 [1, 1, 1],
 [1, 0, 2]]

But what I really want would use the counts in v3 instead of incrementing by 1 for each occurrence of [v1[i], v2[i]]...

[[2, 2, 0],
 [3, 0, 1],
 [2, 0, 4]]

Anyone know of an efficient way to do this? I figure there's some trick you can do with histogram to achieve this effect, but I am no where near the histogram guru like others on this list.

-Mike