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Subject: Weighted histogram

Posted by [snudge42](#) on Tue, 28 Aug 2007 02:20:00 GMT

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Hi guys,

I have an array of velocities, `final_v`, and an array of weightings, `prob_arr`, which may look something like:

```
final_v = [0,10,20,30,40,50,60,70,80,90]
prob_arr = [0.05,0.1,0.05,0.0,0.05,0.15,0.2,0.2,0.15,0.05]
```

I'd like to plot a histogram with the velocities along the x-axis and the weighted histogram values along the y-axis. I've got the first bit happening, but am having trouble working out how to do the y-axis. This is my code so far:

```
testHisto = HISTOGRAM(final_v)
s = SIZE(testHisto)
maxData = MAX(final_v, MIN=minData)
x = FINDGEN(s(1)) * ((maxData - minData)/(s(1)-1)) + minData
plot, x, testHisto, PSYM = 10, XSTYLE=1
```

Any help out there?

Sebastian

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