Subject: Re: Histogram quickie Posted by Christopher Thom on Mon, 11 Dec 2006 15:49:40 GMT View Forum Message <> Reply to Message

Quoth JD Smith:

> On Fri, 08 Dec 2006 12:55:56 -0600, Christopher Thom wrote: > >> Hi all, >> >> I'm a long time where() fan, but trying to learn to wield this histogram >> beast. I'm working on an algorithm, and would like a way to divide an >> array of values into two bins, such that the sum of each bin is roughly >> equal. The values have no fixed distribution, so I expect the bin sizes to >> be non-uniform. >> >> This sort of problem seems an ideal place to start earning my histogram >> badge, but I have to confess to only being able to think of >> brute-force-type solutions. Any suggestions? > Probably WHERE will serve you well: > IDL> t=total(a,/CUMULATIVE) IDL> bin1=where(t lt t[n_elements(a)-1]/2,COMPLEMENT=bin2) > > > Of course, there are many ways to divide values such that they fall into > two roughly equal bins (n choose 2), some of which may be better than > others. aha! I wasn't aware of the /cumulative flag to total(), despite some searching. Thanks for the pointer. cheers

chris