Subject: Re: array index summations Posted by H. Evans on Fri, 18 Dec 2009 18:48:21 GMT

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On Dec 18, 7:35 pm, David Fanning <n...@dfanning.com> wrote:

- > H. Evans writes:
- >> The difference is that the histogramming functions count the number of
- >> points in the bins, i.e. the number of points between x and x+width.
- >> Whereas the CONGRID, GRIDDATA, REBIN functions interpolate the data
- >> points to an X-Y grid.

>

- >> This function performs statistics on the contents of the Z vector,
- >> i.e. what is the mean value of the data points in the range x->x+dx,
- >> not how many data points are in the range X->x+dx, which the histogram
- >> function provides. In other words, it finds the data points that are
- >> in the bin, and then sums up the Z values in that bin.

>

>

- >> If the histogram function provided a weighting function to the
- >> counting, then this could be used to sum the Z values in the bin.
- > I'm not following this closely, but I think the point is
- > that HIST_ND could tell you which voxels were in each
- VV him and you could then newform your even statistics
- > XY bin, and you could then perform your own statistics
- > or weighting function on those values, however you liked.

>

> This would reduce the complexity of your code significantly.

Hi,

Finding the indices of the data points in a 2d bin is not the hard part. What I'm trying to avoid is having a FOR loop that iterates over the bins doing the statistics on the data points that are in a bin.

Ta. Hugh