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Subject: Re: The best way to bin data to a grid? (may not be an IDL-specific question)

Posted by [David Fanning](#) on Mon, 12 Dec 2011 02:29:55 GMT

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Jasdeep Anand writes:

- > I have some satellite data I'd like to bin to a high-resolution 2D
- > grid for plotting and/or other analytical purposes. Each data point
- > that I have has a corresponding latitude and longitude of the centre
- > of the original pixel that the data was originally recorded from. The
- > grid I'm trying to assign this data to is of a much finer resolution
- > than what the data was taken from, so several data points may be
- > assigned to the same pixel, in which case I guess an average data
- > value will need to be assigned instead. To further complicate matters,
- > the data I want to bin is a global dataset of ~1500000 individual
- > points, spread over a number of ASCII files.
- >
- > Are there any routines that can handle having input data this large?
- > Ideally I'd like to incorporate the binning process into the same loop
- > that extracts and reads the data from each file, but I think functions
- > like GRIDDATA require having all the data points to be gridded
- > available already when calling them. Also, are there any general
- > "housekeeping" tips that anyone can tell me about handling such data?
- > I'm still quite new to this, and would appreciate any pointers you all
- > could give me!

If this were me, I wouldn't think about doing this in IDL at all. I'd spend all my time trying to convince some hapless graduate student that he would be famous if he would write a C program to do this. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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