Subject: Re: The best way to bin data to a grid? (may not be an IDL-specific question) Posted by Jasdeep Anand on Mon, 12 Dec 2011 09:51:57 GMT View Forum Message <> Reply to Message On Dec 12, 2:29 am, David Fanning <n...@dfanning.com> wrote: > 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 famous if he would write a C program to do this. :-) > Cheers, > David > > > David Fanning, Ph.D. > Fanning Software Consulting, Inc. > Coyote's Guide to IDL Programming:http://www.idlcoyote.com/

David,

Considering that I am a hapless grad student, would fame and fortune really await me if I can crack this?;)

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")- Hide quoted text -

> - Show quoted text -

In all seriousness though, would routines like GRIDDATA, TRIGRID, etc
break down for such a large input? How do people in general handle
analysing such large datasets? Again, I'd be grateful for any advice
you all could give me.

Thanks again,

Jasdeep.