Subject: Re: GRID3
Posted by Fourier on Tue, 14 Dec 2010 17:27:28 GMT
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On Dec 14, 12:07 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:
> On Dec 14, 2:59 pm, David Fanning <n...@dfanning.com> wrote:
>
>> I think GRID3 is designed to work with "scattered nodes".
>> I don't think it is going to like the sort of regularly
>> gridded data it sounds like you are giving it. Do you have
>> anything you are really trying to grid here, or are you
>> just trying to get these arrays into Slicer?
>
>> If you really want to grid something, I would try giving
>> your Grid locations a "shake" and adding a little bit of
>> random noise to their positions.
>
> That is what I was wondering. If the points are already in a regular
> grid, why grid them?

Thanks for the quick replies. As you can see I am relatively new to using IDL.

What I am trying to do is interpolated the volume emission rates for a given line of sight through the volume emission rate grid. The line of sight has a set of three 1D arrays specifying the alt, lat, and lon along the line of sight for a given distance away from a satellite's detector. I was hoping to use these line of sight arrays as the (Gx,Gy,Gz) of the GRID3 routine. The desired output is the interpolated volume emission rates along the desired line of sight.

Would there be a better way of doing this interpolation? I will check into the SLICER routine. Again thanks for any help.