Subject: gridded interpolation
Posted by g.nacarts on Tue, 03 Jun 2014 09:52:09 GMT
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Hello

I used the INTERPOLATE()function to perform interpolation to my data. Now, I want to change it and I was trying to find out any function that performs cubic spline interpolation or any other kind of interpolation because I want to compare my results using two or either three interpolation techniques.

My code is like this:

DxNEW = INTERPOLATE(Dx, x, y /GRID)

If anyone knows any other interpolation technique available in IDL I would be very grateful.

Regards
Gina

Subject: Re: gridded interpolation
Posted by Fabzi on Tue, 03 Jun 2014 10:31:50 GMT
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Hi,

you should have a look at griddata:

http://www.exelisvis.de/docs/GRIDDATA.html

cheers

Subject: Re: gridded interpolation
Posted by lecacheux.alain on Tue, 03 Jun 2014 11:12:28 GMT
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On Tuesday, June 3, 2014 11:52:09 AM UTC+2, g.na...@gmail.com wrote:
> Hello
>
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>
>
>
> Regards
>
> Gina

You can do cubic interpolation by still using the INTERPOLATE function and CUBIC keyword.
alx.

Subject: Re: gridded interpolation
Posted by g.nacarts on Tue, 03 Jun 2014 13:23:00 GMT
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Thank you very much.

Subject: Re: gridded interpolation
Posted by g.nacarts on Tue, 03 Jun 2014 13:37:47 GMT
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What about the SPL_INTERP function. Does anyone use it before?

Subject: Re: gridded interpolation
Posted by Craig Markwardt on Fri, 06 Jun 2014 03:42:53 GMT
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On Tuesday, June 3, 2014 9:37:47 AM UTC-4, g.na...@gmail.com wrote:
> What about the SPL_INTERP function. Does anyone use it before?

SPL_INTERP is great for 1D data. It's what I normally use for smooth interpolation. You have to use SPL_INIT first to initialize some variables.
