
Subject: Interpolation and Array Subscripting
Posted by [jcreilson](#) on Wed, 20 Feb 2002 03:03:14 GMT
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Hi,

I'm new to the group and I already have a question.
I'm trying to run an interpolation between one array of model-generated latitude/longitude grid points and a second array of gridded ozone values (with lon being along the x and lat being along the y). What I need to do is take the array of grid points of unknown ozone values and interpolate the known ozone values to the unknown ozone grid points. How do I let IDL know the latitude/longitude coordinates of the known ozone values, so when I go and interpolate those ozone values to the unknown ozone value grid points it knows where to look on the data array? The array of known ozone values ranges from a fixed interval of both lat and lons and is 77 (lons) x 34 (lats). I need to have at least 5 places to the right of the decimal since the desired interpolated grid points are model points and will be input with that number to the right. I know this sounds confusing, but it sounds like something IDL should be able to do pretty easily. Let me know if you need any further information and thanks.

Cheers,
Jack Creilson

NASA Langley Research Center
21 Langley Blvd.
Hampton, VA 23681

Subject: Re: Interpolation and Array Subscripting
Posted by [air_jlin](#) on Tue, 26 Feb 2002 19:30:09 GMT
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hi Jack,

maybe i'm missing something here, but shouldn't one of IDL's standard interpolation routines (e.g. INTERPOLATE, MIN_CURVE_SURF) do the trick?

best,
-Johnny

Johnny Lin
CIRES, University of Colorado
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Web: <http://cires.colorado.edu/~johnny/>

"jcreilson" <jcreilson@cox.net> wrote:

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