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
Work Phone: (303) 735-1636
Web: http://cires.colorado.edu/~johnny/

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