
Subject: Re: interpolation help required

Posted by [davidf](#) on Thu, 12 Jun 1997 07:00:00 GMT

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Sheppard Raelene writes:

> I'm trying to write a program for IDL to interpolate grid points. My original
> dataset contains "spikes" in the data, so I don't want to use polynomial
> interpolations as this produces instabilities in the interpolated field. Any
> other form of interpolation would be fine though. I'm currently trying to use
> the BILINEAR function. My input dataset contains 288 longitudes (1.25 degs.)
> by 217 latitudes (0.83 deg.). I want to interpolate this to 320 longitudes
> (1.125 deg.) by 160 latitudes (gaussian grid at about 1.125 deg.). I seems to
> constantly get the error message "Coordinate arrays must have same length
> if Grid not set". I haven't come across this error before, and find help less
> than helpful. Can anyone explain the meaning of this to me? Also, if
> someone has already tackled a similar problem, I'd be EXTREMELY grateful if
> you could send me a copy of the program with a brief explanation (if
> necessary). My email address is:

I don't have time this morning to check this out in any detail,
but my guess is that the BILINEAR function is calling the
INTERPOLATE function (which you should probably be using
yourself) and is forgetting to set the GRID keyword to
INTERPOLATE. This keyword MUST be set if the interpolated
vectors are of different lengths. See the help for
INTERPOLATE for additional information.

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com>

IDL 5 Reports: <http://www.dfanning.com/documents/anomaly5.html>
