
Subject: Re: Congrid but with shift of origin
Posted by [Craig Markwardt](#) on Wed, 04 Apr 2001 21:41:02 GMT
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Joe Means <joe.means@orst.edu> writes:

> Hello group,
> I need idl code to resample an array that is a digital terrain model
> and often need the origin to be shifted by fractions of a cell in x and
> y directions. Congrid cannot handle the latter, as I read the
> documentation. I'll bet someone has a program that does this. Can some
> one point me to such help.

You probably want the INTERPOLATE function. After all, that's what CONGRID uses. INTERPOLATE may sound complicated from the documentation, but it's not really.

All you have to do is rescale your resampled x and y coordinates to be pixel values, which can be fractional. INTERPOLATE considers the image measurement to occur at the *left* edge of the pixel, but this only important if you use the MISSING keyword.

The only other important thing is for you to remember to use the GRID keyword which will make INTERPOLATE construct a grid of interpolates rather than a 1-d slice.

Good luck,
Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
