Subject: Re: irregular-to-irregular interpolation
Posted by Kenneth P. Bowman on Thu, 12 May 2011 21:35:24 GMT
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In article
<61009620-8115-4a53-a223-b2f8189a186c@w36g2000vbi.googlegroups.com>,
 Gray <graylikethecolor@gmail.com> wrote:

>> This is one of those this-must-exist-but-I-can't-find-it cases:
>>
>> I have a quantity which is sampled irregularly over a 2D region. I would like to interpolate its value at a number of irregularly-spaced locations. I've only been able to find functions that go to and from regular grids - so I could go from the irregularly-sampled grid to a regular grid, and then from the regular grid to the irregularly-spaced interpolation points, but that seems silly. Is there something that already exists that goes directly from irregularly-sampled data to irregularly-spaced interpolation points?
>>
>> -Jeremy.
>
> You should be able to use INTERPOLATE, with your x and y vectors being
> your irregular points.

I don't think that INTERPOLATE will work. INTERPOLATE expects
a gridded input field.

I think you need to use TRIGRID with the XOUT and YOUT keywords.

Ken Bowman