Subject: Re: extrapolation and gridding of data
Posted by adorf on Tue, 16 Aug 1994 08:31:28 GMT
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In article <32nr09$igl@senator-bedfellow.MIT.EDU>, russell@athena.mit.edu
(Russell L Scott) wrote:

> Hello!
>
> I was trying to grid irregularly spaced data using triangulate and
trigrid. The
> problem is that IDL will not extrapolate beyond the triangularization
defined by
> the known values. So what we are looking for is a gridding routine that
uses a
> method like "1/r^2" to specify the grid point values. Is there a
routinue like
> this in the user functions???
>
> Thanks,
>
> Russ Scott

To me it seems what you are looking for is a sophisticated
interpolation/extrapolation method. In order to do a meaningful
inter-/extrapolation one has to make some assumptions about the continuous
function underlying the irregular samples one has at hand. Which
assumptions are you willing to make, e.g. bandlimitedness?

Hans-Martin Adorf

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