Subject: Re: 4D interpolation
Posted by Jeremy Bailin on Thu, 31 Dec 2015 19:56:57 GMT
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On Sunday, November 22, 2015 at 2:10:24 PM UTC-5, Amin Farhang wrote:
> Dear all,
>
> I want to interpolate the temperature in a 3D Cartesian grid.
> I have the below data:
>
> x = [1,2,3,4,5,6]
> y = [.1,.2,.3,.4,.5,.6]
> z = [10,20,30,40,50,60]
> f = [1, 0, 0.255654, 0, 0, 0.0322785]
>
> and now how i could interpolate the f temperature at where it is zero, i.e. at the 1,3 and 4 indexs?
>
> Best regards,

This is just trilinear interpolation, not 4D, so the built-in INTERPOLATE function should work fine.

This prompts me to ask, though -- why does interpolate only function up to 3D? No reason it shouldn't be extensible to an arbitrary number of dimensions (or at least to the 8 maximum array dimensions).

-Jeremy.