
Subject: interpolation!

Posted by [hwang](#) on Wed, 21 Jan 1998 08:00:00 GMT

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I want to use bilinear to interpolate.

I have the values of five points:

$(x_1, y_1, t_1), (x_2, y_2, t_2), (x_3, y_3, t_3), (x_4, y_4, t_4), (x_5, y_5, t_5)$.

Suppose t is the function of x and y : $t=t(x,y)$.

Now I want to know the value of t at the given point (x,y) . How can I use bilinear routine to interpolate?

According to the manual, the bilinear need three arguments:

`bilinear(p,ix,jy)`

P is a 2 dimensional array.

ix and jy are "virtual subscripts" of p .

If p is 2 dimension, how can I feed in the values of $(x_1, y_1, z_1)...$?

What is the meaning of "virtual subscripts"?

There is another method. If I suppose the general form of bilinear function: $t=ax+by+cxy+d$. I can get the coefficients (a,b,c,d) using some routines, but?????
