Subject: Re: 3D Curve Fitting
Posted by Craig Markwardt on Wed, 01 Oct 2008 16:53:32 GMT
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jaz <jazpearson@gmail.com> writes:
> Yeah i've seen this, but it only seems to do up to 2D. Or am i missing
> a trick here?

MPFIT doesn't really care about the dimensionality of your data. All it really needs is a function which returns a set of residuals. For example, if you have a set of measured *heights* above the XY plane, and want to fit to the surface function Z(X,Y), then, you can easily do something like,

```
MPFITFUN('MYFUNC', [X,Y], Z, ...)
```

As long as your MYFUNC handles several stacked input variables, it should easily be able to return the model Z heights.

More information,
http://cow.physics.wisc.edu/~craigm/idl/fitqa.html#multivar

But your original question said you wanted to "fit a curve to some points in 3D space ... such as a quartic..." That's a little too generic. A quartic function of *what*?

Craig

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