Subject: Re: 3D Curve Fitting
Posted by Craig Markwardt on Wed, 01 Oct 2008 17:07:37 GMT
View Forum Message <> Reply to Message

Wox <nomail@hotmail.com> writes:
>
> Sorry for the confusing, it must be: "If you have 3 DEPENDENT
> variables, you can't use mpfit or curvefit or whatever"

I don't think your claim is correct. If you have the independent variable, X, and *two* measurements per X point, (say Y and Z) then it is straightforward to fit both of those points simultaneously. That is effectively fitting a 2D function. The method is the same,
MPFITFUN('MYFUNCT', X, [Y, Z], [ERR_Y, ERR_Z], ...)
and your function is responsible for computing both functions separately and then stacking them together.

> The point is, mpfit (and all curvefitting routines) can handle only 1
> dependent variable and any number if independent variables.

Again, not true, see above.

However, your original request was entirely different. You wanted to fit a "quartic" curve through some "points in 3D space." Again, a quartic function of what? Define your problem first, please.

Craig

--
---------- ----------
Craig B. Markwardt, Ph.D. EMAIL: cbmarkwardt+usenet@gmail.com
---------- ----------