
Subject: Re: simultaneous fitting

Posted by [Craig Markwardt](#) on Sun, 11 Nov 2007 05:01:54 GMT

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virgil1612@gmail.com writes:

> This is my first post here, so hi to everybody. As a disclaimer, I am
> a novice IDL user.
>
> I'm using LMFIT to make a chi square fitting of a function depending
> on some parameters to my data points, and it works great. But now the
> problem is that I need to simultaneously fit two functions depending
> on the same set of parameters to these points.
>
> I have no idea how to make the two functions simultaneous chi square
> fitting.
> Someone can help?

Fitting programs like LMFIT or MPFIT don't really care how many functions you have. If you have two data sets Y1 and Y2, then you can "glue" them together with a command like this,

Y = [Y1, Y2]

and in your model function, you would do the same thing, something like,

F = [F1(X,P), F2(X,P)]

where F1() and F2() are your different functions, which are functions of the same independent variable and the parameter set P.

Good luck,
Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
