
Subject: Non linear fit with more than 2 dimensions!, does mpfit work?

Posted by [Steve Daal](#) on Thu, 12 Apr 2012 04:57:04 GMT

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IDL-ers,

I have a complex fitting problem that I am tackling. my model function has the form:

$$Y(n+1) = A(1 - \exp(C*Y_n)) * [X(n+1)/\exp(D-X_n - Y_n)]$$

where Y_n and X_n refer to some values at time= n, and $Y(n+1)$, $X(n+1)$ refer to updated values at time =n+1. A,B,C, and D are the parameters of the fit.

I am aware of mpfit and I think this is doable if I have Y_n and X_n only, but I am really puzzled with the existence of the n+1 terms.

Thanks,
Steve
