
Subject: MPfit question

Posted by [Wox](#) on Tue, 30 Sep 2008 14:38:20 GMT

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Hi all,

I'm using the wonderfull mpfit routine from Craig Markwardt. Today I was having problems with convergence and I was looking in the code what caused it. I was using parameter limits and as far as I can tell, the parameter incrementation is done like this:

$$x_{\text{new}} = x + \alpha * dx$$

where dx are the parameter increments and $\alpha = 1$, except when xnew would exceed the limits, in which case $\alpha < 1$. So if one parameter is close to the limit, this effects the increments for all other parameters. If alpha is too small, the fit stops.

Why isn't dx adapted, so that pegged parameters won't effect the convergence for other parameters?

Wout
