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Subject: Re: Error detected while calling MPFIT\_FDJAC2  
Posted by [Craig Markwardt](#) on Tue, 22 Jun 2010 07:48:13 GMT  
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On Jun 21, 3:15 pm, Fermiona Fermiona <fermion...@gmail.com> wrote:

> Hello,  
>  
> I used MPFIT within a loop and I got the following errors:  
>  
> % MPFIT: Error detected while calling MPFIT\_FDJAC2:  
> % MPFIT: Out of range subscript encountered: FJAC.  
> % MPFIT: Error condition detected. Returning to MAIN level.  
>  
> The function carried out "Iter 1", calculated "CHI-SQUARE" and  
> "DOF" then found the value of the parameters P(0), P(1), etc..  
> After that, it reported the above errors, and increased the dof by 1  
> (and consequently skipped finding the value of one of the Params),  
> then carried out the rest of iterations.  
>  
> What could be wrong?

Well the obvious answer is that there was an error while calling MPFIT\_FDJAC2! That is where the user function and its derivatives are evaluated.

I suspect you are attempting to compute your own explicit derivatives and not returning an array with the right dimensions and/or sizes.

Regards,  
Craig Markwardt

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