
Subject: Re: mpfit: multivariate fit

Posted by [Richard French](#) on Mon, 21 May 2007 03:25:43 GMT

[View Forum Message](#) <> [Reply to Message](#)

On the subject of MPFIT, I'm trying to implement the '(EXTERNAL)' function option (the case where the user does not supply a function to be called by MPFIT itself, but is expected to supply function values and a jacobian matrix in each call to MPFIT). I'm trying to do this with a very simple polynomial function for which the partial derivatives are very easy to compute, but the fitted parameters are not the correct values, the number of degrees of freedom returned is a negative number, and in general I am clearly not getting things to work.

In trying to debug this, I found what looks like an undocumented keyword: EXTERNAL_INIT whose purpose is a bit obscure to me. I tried fiddling with this but it did not fix the problem

Does anyone (Craig or someone else) have a simple example of MPFIT that uses the EXTERNAL option? If so, I'd be grateful if you would send it along. If not, then I can post my failing example so that someone can tell me what I am doing wrong.

Thanks very much.

Dick French
rfrench@REMOVEwellesley.edu
