
Subject: Re: MPFITFUN error -- only reading the first data value

Posted by [graham kerr](#) on Thu, 09 Apr 2015 08:28:29 GMT

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On Wednesday, April 8, 2015 at 11:55:44 PM UTC+1, Craig Markwardt wrote:

> On Thursday, April 2, 2015 at 6:02:07 AM UTC-4, graham kerr wrote:

>> So after much staring at code I think I have found my (somewhat daft) mistake!

>>

>> I think that in mpfitfun (and mpfit & mpfitexpr), the function that you specify ('myfunction') must have the independent variable set as 'x' and the dependent variable set as 'p'.

>>

>> So, in my case, in planck_fit_sot, I changed the function call from

>>

>> planck_fit_sot, wave, temp

>>

>> to

>>

>> planck_fit_sot, x, p

>>

>> ... and then within the code I changed all the 'wave' to 'x' and 'temp' to 'p[0]'.

>>

>> This seems to have solved my problem.

>

> Huh? Nope.

>

> For MPFITFUN, it doesn't matter what you name the parameters, it's just that the first parameter needs to be the independent variable, and the second parameter needs to be the array function parameters. This is documented at the top of MPFITFUN.PRO

>

> For MPFITEXPR, yes indeed, the independent variable in the expression needs to be X and the parameter array needs to be P. This is also documented.

>

> Craig

Oh, that seemed to fix my problem, somehow. Do you know what the issue might have been then?

bes,
Graham
