
Subject: Re: MPFITFUN error -- only reading the first data value
Posted by [Craig Markwardt](#) on Wed, 08 Apr 2015 22:55:41 GMT
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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
