
Subject: Re: MPFITFUN problem

Posted by [Craig Markwardt](#) on Tue, 28 Aug 2012 14:54:25 GMT

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On Tuesday, August 28, 2012 7:43:11 AM UTC-4, Rui She wrote:

> Hi,

>

> I met a problem, when I used MPFITFUN.pro to fit a base of data using a user function, the procedure gave a error as:

>

> % MPFIT: Error detected while calling mpfitfun_eval:

>

> % MPFIT: Array dimensions must be greater than 0.

>

> % MPFIT: Error condition detected. Returning to MAIN level.

>

> % MPFITFUN: Error detected while calling mpfitfun_eval: Array dimensions must be greater than 0.

>

>

>

> I believe my user function was right, and I met this problem sometimes(not all data, error occurred about every 50 case), what's more, if I changed the start value of the parameters, it usually got to normal. So I think this may be a hidden bug of the MPFIT.

>

> Or someone has good idea?

I am 99% certain the error is happening inside of your user function. It's probably at the point where you create an array with `fltarr()` or `dblarr()` or `make_array()`.

Here's a well-kept secret. You can call `MPFITFUN()` with the `/NOCATCH` keyword set. When `NOCATCH` is set, `MPFITFUN` will not try to trap any errors, and IDL will break at the location of the error. Then start debugging.

Craig
