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Subject: Re: mpfit: meaning of status flag

Posted by [Maarten\[1\]](#) on Mon, 07 May 2007 07:06:41 GMT

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Craig Markwardt wrote:

> Maarten <maarten.sneep@knmi.nl> writes:

>

>> On May 1, 1:27 pm, Christopher Thom <c...@oddjob.uchicago.edu> wrote:

>>> Quoth Maarten:

>>>

>>>> A plot of the fit looks OK, and the residuals seem to be fine, so I

>>>> suspect it is OK, but the documentation is a bit vague: "STATUS: an

>>>> integer status code is returned. All values other than zero can

>>>> represent success." So I might be successful, but I'm certainly a bit

>>>> uncertain right now ;)

>>>

>>> The documentation in mpfit.pro is pretty explicit.

>>

>> Thanks, I'd been looking at the mpfitfun docs, which is somewhat less

>> explicit. I should have thought to look at the primary source.

>>

>>> A return status of 1 means that everything is working ok, and that the

>>> routine seems to have found the minimum. If your fit looks ok, and the

>>> errors seem reasonable, then your work here is done.

>>

>> I already assumed that that was the case.

>

>

> Wait, you are saying you got a return status value of 1 (success) and

> an empty ERRMSG, and yet somehow a message was printed to the screen

> that said "improper input parameters"?

No, PEBKAC. Off by one error on my part, after creating a human readable version of the documentation header in LaTeX, the status messages were off by one (insert bright red face here). All is fine now (although the mismatch between the headers of mpfit and mpfitfun is real; the mpfit header seems more readable).

Maarten

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