
Subject: Re: mpfit: meaning of status flag

Posted by [Vince Hradil](#) on Thu, 26 Apr 2007 14:50:34 GMT

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On Apr 26, 4:32 am, Maarten <maarten.sn...@knmi.nl> wrote:

> Hi,
>
> I'm using mpfit (actually mpfitfun) to do some fitting. Even though
> the fit seems to converge properly, for all fits I get the message:
> improper input parameters. Is this a problem? I must admit that I
> thoughtfully abuse the X variable, to pass some extra information around,
> but as far as I know, mpfit does not touch this variable. On the other
> hand, looking at the list of possible status values, I wouldn't know
> exactly what's good, and what isn't.
>
> Maarten

Read the header of the mpfit.pro file - it's all in there.

Subject: Re: mpfit: meaning of status flag

Posted by [Vince Hradil](#) on Thu, 26 Apr 2007 14:55:58 GMT

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On Apr 26, 4:32 am, Maarten <maarten.sn...@knmi.nl> wrote:

> Hi,
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> I'm using mpfit (actually mpfitfun) to do some fitting. Even though
> the fit seems to converge properly, for all fits I get the message:
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> hand, looking at the list of possible status values, I wouldn't know
> exactly what's good, and what isn't.
>
> Maarten

Another thing... to "pass extra information around" look at the
FUNCTARGS keyword in mpfitfun.

Subject: Re: mpfit: meaning of status flag

Posted by [Craig Markwardt](#) on Fri, 27 Apr 2007 18:32:47 GMT

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

> Hi,

>
> I'm using mpfit (actually mpfitfun) to do some fitting. Even though
> the fit seems to converge properly, for all fits I get the message:
> improper input parameters. Is this a problem? I must admit that I
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> but as far as I know, mpfit does not touch this variable. On the other
> hand, looking at the list of possible status values, I wouldn't know
> exactly what's good, and what isn't.

As you suspect, neither MPFIT nor MPFITFUN touches the "X" values. As I note on my FAQ, check the ERRMSG keyword for a text description of the problem. Usually you have specified a model parameter outside of its limits or something like that.

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: mpfit: meaning of status flag
Posted by [Maarten\[1\]](#) on Tue, 01 May 2007 10:03:18 GMT
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On Apr 27, 6:32 pm, Craig Markwardt wrote:

> As you suspect, neither MPFIT nor MPFITFUN touches the "X" values. As
> I note on my FAQ, check the ERRMSG keyword for a text description of
> the problem. Usually you have specified a model parameter outside of
> its limits or something like that.

the errmsg string is empty, at least on the output that I've managed to generate. All I have is the status variable equal to 1, and the model parameters are within the limits, I checked that first.

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 ;)

Maarten
