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 perameters. Is this a problem? I must admit that I
- > thoughly 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,

>

- > 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 perameters. Is this a problem? I must admit that I
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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 View Forum Message <> Reply to Message

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 perameters. Is this a problem? I must admit that I
- > thoughly 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.

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 | |
|-------|--|
| | |
| | MAIL: craigmnet@REMOVEcow.physics.wisc.edu ivatives 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 View Forum Message <> Reply to Message

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