Subject: Re: scattering data with MPFITFUN Posted by Nafiseh Masoumzadeh on Thu, 20 Jun 2013 08:23:27 GMT View Forum Message <> Reply to Message

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On Thursday, June 20, 2013 5:51:16 AM UTC+2, Craig Markwardt wrote:
> On Wednesday, June 19, 2013 6:49:43 PM UTC-4, Nafiseh Masoumzadeh wrote:
>> Hello,
>>
>
>> I have some data which I simply want to fit p[0]*x^P[1] on them, But
  I don't know I am receiving very far results!
>> I am using mpfitfun like this:
>
>>
>> start=[0.001, 0.1]
>> results=MPFITFUN('MYFUNCTION', x, y, err, start)
>>
>> I applied this function and points in MATLAB (fitting toolbox), and I had reasonable
coefficients.
>
  MPFITFUN can solve problems like this.
>
>
>
  What happens when you say,
>
>
   YMODEL = MYFUNCTION(X, START)
>
  Do you get sensible values for YMODEL?
>
>
  You should also be checking the STATUS and ERRMSG keywords to see if there is a more
informative error message.
>
>
  Craig Markwardt
```

yes, I got reasonable result from YMODEL. and for STATUS I got 6 and I don't have any ERRMSG. I checked in MPFIT script that 6 for STATUS means

FTOL is too small. no further reduction in the sum of squares is possible.

but I cannot figure out what is the problem?

I'd appreciate your help,

regards, Nafis