
Subject: Re: MPFIT parameter errors -0.00000
Posted by [Gray](#) on Tue, 10 May 2011 09:11:07 GMT
[View Forum Message](#) <> [Reply to Message](#)

On May 9, 4:35 pm, JoeM <josephmeir...@gmail.com> wrote:

> Hello,
>
> I was wondering about something strange that seems to be going on
> with MPFIT in IDL. MPFIT seems to be working and producing a fine
> looking fit, but the errors on some of the parameters are identically
> -0.00000. These parameters are not limited or tied to anything at the
> moment, so they should be producing some parameter error. Output is
> attached below, MPFIT is ending with a "2" status. Any idea what is
> going on here? This only seems to happen for a specific data file, for
> other fits it seems to be working fine.

>
> Cheers,
> Joe

>
> IDL>
> % MPFIT: WARNING: data is DOUBLE but parameters are FLOAT
> % MPFIT: (converting parameters to DOUBLE)

> Iter 1 CHI-SQUARE = 148.65044 DOF = 99

> P(0) = 2.70126E+16

> P(1) = 2.02481E+16

> P(2) = 32.2569

> P(3) = 37.7481

> P(4) = 0.000100000

> P(5) = 71.0903

> P(6) = 0.273900

> P(7) = 0.273900

> P(8) = 930.748

> P(9) = 930.748

> Iter 1 CHI-SQUARE = 148.65044 DOF = 99

> P(0) = 2.70126E+16

> P(1) = 2.02481E+16

> P(2) = 32.2569

> P(3) = 37.7481

> P(4) = 0.000100000

> P(5) = 71.0903

> P(6) = 0.273900

> P(7) = 0.273900

> P(8) = 930.748

> P(9) = 930.748

>
> STATUS
> 2

>
>

```
>  PERROR
>  -0.00000  -0.00000  0.492911  1.38439  0.00000
>  0.930223  0.00000
>  0.00000  0.00000  0.00000
```

Try printing out PERROR with more digits.

Subject: Re: MPFIT parameter errors -0.00000
Posted by [Eoj](#) on Tue, 10 May 2011 15:35:20 GMT
[View Forum Message](#) <> [Reply to Message](#)

I did, they are identically zero, and should be in the neighborhood of 10^{14} given the best fit values.

Subject: Re: MPFIT parameter errors -0.00000
Posted by [Eoj](#) on Thu, 12 May 2011 14:18:02 GMT
[View Forum Message](#) <> [Reply to Message](#)

Any suggestions on this?
