
Subject: Re: MPFIT parameter errors -0.00000
Posted by [Gray](#) on Tue, 10 May 2011 09:11:07 GMT
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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
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> 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.
