
Subject: Re: Error detected while calling MPFIT_FDJAC2
Posted by [Fermiona Fermiona](#) on Tue, 22 Jun 2010 09:40:57 GMT
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Hello Dr. Craige,

I didn't compute the derivatives. The user function returns the residual:

```
FUNCTION LinearFit, p, X=x, Y=y, ERR=err, $  
    perror=perror, bestnorm=bestnorm, dof=dof  
  
    model = p[0]+p[1]*x  
    resid = (y-model)/err  
  
    return, resid  
END
```

and inside the procedure, I had:

```
p0 = [51.0,-0.5]  
args = {X:x_n, Y:y_n, ERR:yerr}  
fit_res = mpfit('LinearFit', p0, functargs=args,perror=perror,  
bestnorm=bestnorm, dof=dof)
```

The first time I called mpfit outside of the loop, there was no error.

When mpfit was called again, from inside the loop this time, I got the error I mentioned.

Many thanks!
