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Subject: Re: Maximum likelihood fitting of an exponential fitting function in IDL  
Posted by [Bill Nel](#) on Tue, 04 Aug 2015 17:27:27 GMT

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On Tuesday, August 4, 2015 at 12:01:41 PM UTC-4, Madhavan Bomidi wrote:

> Dear All,

>

> I have an exponential decay function as defined below:

>

> FUNCTION tfunct,X,E

> T = EXP(-((1000.0d\*X)^E[1])/E[0])

> RETURN,T

> END

>

> I was using MPFITFUN to get the fitting coefficients. Though this is working fine, I find that the fitting line is deviating away from the more likelihood points in the case when there were some outliers. Can I know if there is a maximum likelihood fitting function in IDL so that I can get the fitting line close to more number of points?

>

> Look forward to your suggestions,

>

> Thanking you,

> With regards,

> Madhavan

You might try taking the log of your data before fitting it (to a line).

--Wayne

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