Subject: Re: Maximum likelihood fitting of an exponential fitting function in IDL
Posted by Jeremy Bailin on Wed, 12 Aug 2015 17:35:37 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

ML_DISTFIT in JBIU does maximum likelihood fitting:

http://www.simulated-galaxies.ua.edu/jbiu/

It's kind of clunky, though, so YMMV.

-Jeremy.