Subject: Re: CURVFIT with XY error
Posted by Russell[1] on Tue, 10 Feb 2015 18:33:15 GMT
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I am only aware of this working for fitting a linear function:

y= m*x + b

But for that, you can use Brandon Kelly's fitexy.pro in astrolib:

http://idlastro.gsfc.nasa.gov/contents.html

http://idlastro.gsfc.nasa.gov/ftp/pro/math/fitexy.pro

Are you sure your function is nonlinear? I mean, is there any transformation you can apply to force it to be linear?

-Russell

On Sunday, April 27, 2014 at 5:31:55 PM UTC-4, Amin Farhang wrote:
> Hi,
>
> Is there any replacing routine for CURVFIT which was able to do a non-linear least squares fit to a user-supplied function by considering both X and Y error?
>
> data sample:
>
> X = [0.8, 2.2, 3.3, 4.8, 5.8]
> Y = [2.02, 2.78, 3.58, 5.05, 6.35]
> Xerr = 0.03*X
> Yerr = 0.05*Y
>
>
> Best regards,