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Subject: Re: LINFIT CHISQ and SIGMA values are correct??

Posted by [wlandsman](#) on Wed, 05 Aug 2015 02:19:21 GMT

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You are giving linfit negative errors -- alog10(0.2) = -0.69897

If you use the absolute value of alog10(err) you will get consistent results.

But probably it is better to do your logarithmic transformation correctly

if  $z = \text{alog10}(y)$  then  $dz = 0.434 * dy/y$  (I think)

where dy is your original err and dz is your transformed err .

On Tuesday, August 4, 2015 at 3:54:39 PM UTC-4, Krishnakumar M.A wrote:

> Hi,  
>  
> I was trying to do a linfit in the following data (I'm using IDL 6.3).  
>  
> -----  
>  
> x = [150.0, 235.0, 325.0, 410.0, 610.0]  
> y = [200.0, 35.0, 8.4, 3.0, 0.6]  
> err = [25.0, 5.0, 2.1, 0.8, 0.2]  
>  
> result = linfit ALOG10(x),ALOG10(y),MEASURE\_ERRORS=ALOG10(err), CHISQ=chi,  
COVAR=covmatrix, SIGMA=error, YFIT=fit)

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