Subject: LINFIT CHISQ and SIGMA values are correct??
Posted by Krishnakumar M.A on Tue, 04 Aug 2015 19:54:35 GMT

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Hi,

I was trying to do a linfit in the following data (I'm using IDL 6.3).

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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)

It gave me surprisingly odd values for CHISQ and SIGMA. The values are given below.

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result
    11.6899   -4.29070
chisq
  0.00799291
sigma
    4.32894   1.66352

Fit result looked good, but the values of sigma and chisq are way off. I believe that the chisq it
gives is reduced chisq. Is there anything went wrong in the fitting procedure, or are there any
issues with the linfit algorithm?

Please let me know whether I'm doing it right or not.

Thanks,
Krishnakumar