
Subject: Re: linfit and regress questions

Posted by [Craig Markwardt](#) on Tue, 13 Nov 2007 16:14:57 GMT

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rlayberry@hotmail.com writes:

> On 13 Nov, 03:16, Craig Markwardt

> <craigm...@REMOVEcow.physics.wisc.edu> wrote:

>> hradilv <hrad...@yahoo.com> writes:

>>

>>> Transform the data?

>>

>>> $mhat = total(x*(y-c1))/total(x*x)$

>>

>> Of course this all assumes the data are meant to be equally weighted

>> (no error bars, or all error bars are equal).

>>

>

> and does anyone know how the chi-sq or any other goodness of fit

> parameter would be calculated?

Do you mean, how to compute the chi-square value? Probably something like,

$TOTAL((Y-MHAT*X)/ERROR)^2$

But you've never really specified what you are trying to do. Why not just use a fitting program like MPFITFUN or CURVEFIT and specify whatever model and/or error bars that you want?

Craig
