Subject: linfit and regress questions
Posted by rlayberry on Sun, 11 Nov 2007 16:27:41 GMT
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Hi

I am interested in fitting a line of the form y=mx+c using regress or linfit. I want the option of fixing the value of c at zero. Can I do this in either of these 2 functions or would I need to use something else?

Thanks

Russ

Subject: Re: linfit and regress questions
Posted by rlayberry on Tue, 13 Nov 2007 10:24:33 GMT
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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 paramater would be calculated?

russ

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