
Subject: Re: gaussfit question

Posted by [Mirko Vukovic](#) on Fri, 29 Oct 1999 07:00:00 GMT

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In article <3819a9eb@loriot.cs.uni-magdeburg.de>,

"mirko" <mirko.loehmann@student.uni-magdeburg.de> wrote:

> Hi!

>

> I have a 2D dataset representing a surface (intensity plot of x-ray

> scattering data)

> and i like to fit these data with GAUSS2DFIT() function which does not
work.

> So I tried to fit one line of the dataset wit GAUSSFIT which does
not

> work either.

>

> This it is confusing to me because other math computer programs

> have no problem with this simple curve.

> Is there something I have to consider?

>

> Cheers

>

> Mirko

>

> IDL> y=[52.0,52.7,56.0,60.9,65.40,71.40, 75.20,

> 80.80,86.1,89.8,88.3,94.8,94.9,100.5,100.1,103.9,105.3,106.2 ,107.3,

> 108.2,106.1,105.7,107.8,102.2,

> 101.3,97.2,92.1,87.4,87.0,82.5,77.4,69.9,67.7, 62.1, 58.9, 53.4,53.8]

> IDL> x=findgen(37)

> IDL> yfit=gaussfit(x,y,a)

> % Compiled module: GAUSSFIT.

> % Compiled module: POLY_FIT.

> % Compiled module: CURVEFIT.

> % Program caused arithmetic error: Floating underflow

>

>

Maybe the exponent in the gaussian is overflowing. How about
normalizing X

the data to the mean and standard deviation first?

(The other) Mirko

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