Subject: Re: curve fitting problem
Posted by Craig Markwardt on Thu, 13 Jul 2000 07:00:00 GMT
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Hi Carlo and Pauline--

I'll assume that one of you will forward responses to your friend. Remember we're not just here to serve you. The request itself is a bit too generic to make a detailed response.

Information on IDL standard library routines can be found in a number of places on the web. These two come to mind:

http://hires.gsfc.nasa.gov/~beck/pkgs/idl_5.1/idl.htm
http://www.astro.washington.edu/deutsch/idl/htmlhelp/slibrar y07.html

For curve fitting, there are a number of options. The standard IDL library includes:
LINFIT - linear model
POLY_FIT - polynomial model
POLY_FITW - polynomial model with weights
COMFIT - a bunch of canned models
CURVEFIT - generic least-squares fitting
LMFIT - generic least-squares fitting

I would not recommend LMFIT, it's slow and not well suited to the IDL philosophy. If one of the specific models doesn't match what is needed, then you will have to construct your own model and use CURVEFIT.

I also make freely available a curve fitting package called MPFIT which some people seem to like. Here again you will have to construct your own model function, or at least know the functional expression. There are a number of benefits to the MPFIT functions, perhaps the most important being it seems more robust than CURVEFIT. This package can be found here:

http://cow.physics.wisc.edu/~craigm/idl/idl.html

Good luck,
Craig

Carlo Emanuele Demontis <cdemontis@speaairportsystems.com> writes:
>
> Hi, I am posting this for Pauline.
> Please, help her.

> Thank you all in advance
>
> Carlo Emanuele DeMontis
>
>
> ---------- ----------
>
> If anyone has an old or unused IDL manual to send to Devendra in India,
> that would be most lovely. Alternatively, if anyone can provide the
> said routine below that would be equally lovely!
>
> Please email Devendra directly since I don't think Devendra has
> newsgroup access.
>
> Thanks for your help,
>
> Pauline
>
>
> Devendra Singh <dschahar@hotmail.com> wrote:
>>
>> Hi Pauline
>>
>> Once again ,I wish to contact you in connection with an idl routine
> for
> the
>> curve fitting for straight line,expontial,power,logerthmic and
> ploynomial
>> from 1 degree to 10 degree including the plot of data and fitting.
> Kindly
>> provide me the said routine. I would be obliged to you.
>>
>> with warm regards,
>>
>> devendra singh

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Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
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