Subject: fit through zero
Posted by R.Bauer on Mon, 26 Feb 2007 14:32:14 GMT
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Hi all

I like to use a fit function which I can tell please go to 0,0

How can I do that with e.g. poly_fit or did you know an equivalent routine?

cheers
Reimar

--
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
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       a IDL library at ForschungsZentrum Juelich
  http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
 == =======

Subject: Re: fit through zero
Posted by Bringfried Stecklum on Thu, 01 Mar 2007 09:03:10 GMT
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Reimar Bauer wrote:
> Hi all
>
> I like to use a fit function which I can tell please go to 0,0
>
> How can I do that with e.g. poly_fit or did you know an equivalent routine?
>
> cheers
> Reimar
>
>
Hello Reimar,

since you asked about poly_fit I assume that you want to fit a
polynomial. It would be easy if poly_fit offers a keyword to flag
certain degrees of the polynomial which then would be omitted from the
fit. Since this is not the case I suggest to use svdfit with a user
defined function. A polynomial without the constant term, i.e.

y=ax+bx^2+cx^3... might be O.K.

Note that svdfit uses a polynomial as well if no user-defined function
is specified. However, the polynomial degrees cannot be flagged either.
Since sdvfit is just a wrapper for the hardcoded nr__svdfit this feature
can only be added by the ITT folks.

with kind regards,

Bringfried

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Dr. Bringfried Stecklum
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Subject: Re: fit through zero
Posted by Paolo Grigis on Thu, 01 Mar 2007 09:38:50 GMT
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Bringfried Stecklum wrote:
> Reimar Bauer wrote:
>> Hi all
>>
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>> cheers
>> Reimar
>>
>>
> Hello Reimar,
>
> since you asked about poly_fit I assume that you want to fit a
> polynomial. It would be easy if poly_fit offers a keyword to flag
> certain degrees of the polynomial which then would be omitted from the
> fit. Since this is not the case I suggest to use svdfit with a user
> defined function. A polynomial without the constant term, i.e.
> y=ax+bx^2+cx^3... might be O.K.
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> Note that svdfit uses a polynomial as well if no user-defined function
> is specified. However, the polynomial degrees cannot be flagged either.

> Since sdvfit is just a wrapper for the hardcoded nr__svdfit this feature
> can only be added by the ITT folks.
>
> with kind regards,

Here it's probably a good idea to use mpfitfun. Once you
have your polynomial function defined, it is easy to keep
some of the polynomial coefficients fixed for the fit.

Ciao,
Paolo

>
> Bringfried
>
> ---------- ----------
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