Subject: Re: How can I add parameter to curvefit?
Posted by hahn on Tue, 14 Nov 1995 08:00:00 GMT
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kkobayas@scws40.harvard.edu (Ken Kobayashi) wrote:

> Hi,

> I'm doing a curve fitting using CURVEFIT. However, I would like to be
> able to pass on an extra paremeter to the function that CURFEFIT calls.
> (i.e. the one that returns the function I'm trying to fit to and its
> derivative.)
[snip]

There is no problem with portability esp. if you change the name
of the procedure to keep the original.

The other idea, to save the parameter in a file, will only be helpful
when you need this for some other reason (log file).

You may save the parameter in a common block. Although common
blocks are not loved by those programmers who favour structured
programming, this feature is well implemented in IDL and can be used
quite efficiently. BTW it's a lot faster to access variables via
common rather than passing structures via a parameter list!

> - Ken
> --
> ---------- ----------
> Ken Kobayashi . "Too low they build, who build
> kkobayashi@cfa.harvard.edu . beneath the stars."
> http://stargazer.student.harvard.edu/ . - Edward Young

Norbert Hahn

Subject: Re: How can I add parameter to curvefit?
Posted by thompson on Tue, 14 Nov 1995 08:00:00 GMT
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kkobayas@scws40.harvard.edu (Ken Kobayashi) writes:

> Hi,

> I'm doing a curve fitting using CURVEFIT. However, I would like to be
> able to pass on an extra paremeter to the function that CURFEFIT calls.

> (i.e. the one that returns the function I'm trying to fit to and its
> derivative.) In other words, if the function has three parameters, do a
> least-square fit using just two of the parameters. The only ways I could
> think of were (a) hack CURVEFIT.PRO to add a parameter to the function
> calls, or (b) save the parameter in a file and read that. (a) has a
> problem with portability, and (b) seems rather slow considering the
> function is called many tims. Is there a better way to do this?

You can always use a common block to pass additional information to the fitted function.

Bill Thompson

Subject: Re: How can I add parameter to curvefit?
Posted by rivers on Wed, 15 Nov 1995 08:00:00 GMT
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In article <4832k1$37f@decaxp.harvard.edu>, kkobayas@scws40.harvard.edu (Ken Kobayashi) writes:
>
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>
>   I'm doing a curve fitting using CURVEFIT. However, I would like to be
> able to pass on an extra paremeter to the function that CURFEFIT calls.
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> calls, or (b) save the parameter in a file and read that. (a) has a
> problem with portability, and (b) seems rather slow considering the
> function is called many tims. Is there a better way to do this?
>
Use common blocks to communicate the information between your program which calls CURVEFIT and your evaluation function.

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