Subject: Re: Piecewise curve fitting in idl
Posted by Craig Markwardt on Mon, 04 Aug 2008 04:58:20 GMT
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d.poreh@gmail.com writes:

> On Jul 31, 1:21ï¿½pm, Wox <nom...@hotmail.com> wrote:
>> On Thu, 31 Jul 2008 03:30:22 -0700 (PDT), d.po...@gmail.com wrote:
>>> Folks
>>> How we can do the piecewise curve fitting in idl. Say we have an array
>>> that this array has got 2 or 3 trends in data and we want to fit a
>>> liner curve for each trends. In MATLAB curve fitting tool, we can
>>> easily exclude or include a part of data and then fit a curve. How we
>>> can do this in IDL
>>> Cheers
>>> Dave
>>
>> Euhm, just do the fitting on the different parts? Or do you mean
>> fitting with a piecewise polynomial (i.e. spline: see e.g. IMSL_BSLSQ
>> or IMSL_CONLSQ)
>
> just doing the fitting on the difrent part. how we can select this
> parts and how we can fit a curve to these parts separatly?

I realize I'm coming into this discussion late. However, the IDL
Astronomy library has a nice procedure LINTERP which would be very
useful for an application like this. It would still need to be
interfaced to a fitting function. It would allow you to fit the
tabulated Y values, and in principle even the tabulated-X positions,
although I would NOT advise that.

For a graphical interface, IDL is probably not the best application
unless you want to write the whole program yourself.

Craig

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