Subject: Re: Piecewise curve fitting in idl
Posted by jameskuyper on Thu, 31 Jul 2008 14:58:48 GMT
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d.poreh@gmail.com wrote:
> On 31 Jul., 05:39, James Kuyper <jameskuy...@verizon.net> wrote:
...
>> Identifying the different parts is up to you. How do you know that there
>> are 2-3 different trends? Whatever method you use to reach that
>> conclusion will have to be adequate to identify where the different
>> trends start and end. However, once you have identified the different
>> parts you want fit separately, fitting each one separately is trivial:
>> pass x[trend_start[i]:trend_end[i]] and y[trend_start[i]:trend_end[i]]
>> to the curve-fitting routine.
>>
>> If you want a curve fitting routine that automatically figures out where
>> each trend starts and ends, then it gets a LOT more complicated. You
>> could do that by using a non-linear curve fitting routine, and make the
>> transition point between the two trends be one of the parameters of your
>> fitting curve. However, I would strongly recommend trying to understand
>> why you see 2 or 3 different trends, and then try to come up with a
>> single mathematical model for the entire curve that reflects that
>> reason. Then fit that model to your data.- Zitierten Text ausblenden -
>>
>> - Zitierten Text anzeigen -
>
> how we can do this in Iplot?

I don't have any idea. Iplot is a plotting routine, not a curve fitting routine, so I wouldn't expect it to be possible at all; but I'm not very familiar with Itools, so I could be mistaken.