Subject: Re: IDL fitting of piecewise continuous function
Posted by Craig Markwardt on Wed, 18 May 2011 02:35:13 GMT
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On May 17, 3:53 pm, Jeremy Bailin <astroco...@gmail.com> wrote:
> If you define your function analogously to the example in the MPFIT code, it might look like:
>
> FUNCTION MYFUNCT, p, X=x, Y=y, ERR=err
> ; p[0] is A
> x_m = SOME_CONSTANT_VALUE
>
> ; x lt x_m is 1 if x<x_m and 0 otherwise
> ; x ge x_m is 1 if x >= x_m and 0 otherwise
> model = (x lt x_m) * p[0] * x^(0.5) + (x ge x_m) * p[0] * x_m^(1.5) / x
>
> return, (y-model)/err
> END
>
> Of course, that assumes that x_m is a constant, not a parameter - but if it's a parameter, you would just use p[1] instead of a constant value, for example.

Yep, what he said.
Craig