Subject: Re: IDL fitting of piecewise continuous function
Posted by Jeremy Bailin on Tue, 17 May 2011 19:53:19 GMT
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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.

-Jeremy.