Subject: Re: More problems with Curvefit
Posted by the_cacc on Mon, 30 Jun 2003 17:17:21 GMT
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1) You should put 'fit_funct' at the top of the file so it compiles
first.
2) Change "W = 1.0" to "W = replicate(1.0,12)"
3) pder should be the partial deriv wrt the parameters A - ie.
pder[*,0] = X * EXP(-A[0]*X) and pder[*,1] = X * EXP(-A[1]*X).
4) Looking at your data (PLOT,x,y), it seems that the choice of
fitting function is unlikely to fit well... ever. You need to allow
for a constant offset - the value 9 looks "right". If you can be sure
it is 9, then simply change y to y+9 in the call to curvefit.
5) To see the fit add this line at the end of your code: PLOT,x,y &
fit_funct,x,a,f & OPLOT,x,f-9.

Hope this gives you somewhere to start. I recommend changing your fit
function to deal with the offset issue. More generally, I would also
recommend looking at AMOEBA for fitting a small number of parameters -
very stable, doesn't need derivatives and not fussy about
discontinuities etc.

Ciao.