Subject: LMFIT
Posted by Alberto Verga on Sat, 11 Dec 1999 08:00:00 GMT
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I tried the following example on the use of LMFIT given in the IDL 5.2
help:

```
FUNCTION myfunct, X, A
   bx = A[0]*EXP(A[1]*X)
   RETURN,[ [bx+A[2]+A[3]*SIN(X)], [EXP(A[1]*X)], [bx*X], $
         [1.0] ,[SIN(X)] ]
END

X = FINDGEN(40)/20.0
Y = 8.8 * EXP(-9.9 * X) + 11.11 + 4.9 * SIN(X)
sig = 0.05 * Y
A = [10.0, -0.1, 2.0, 4.0] fita = [1,1,1,1]
PLOTERR, X, Y, sig
coefs = LMFIT(X, Y, A, WEIGHTS = (1/sig^2.0), FITA = fita, $
         FUNCTION_NAME = 'myfunct')
OPLOT, X, coefs
```

I obtained
% LMFIT: Warning: Failed to Converge.

and in consequence a bad fit!
Does anyone known if this LMFIT is correctly implemented?

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