
Subject: multiple non-linear regression analysis
Posted by [Kenlo Nishida](#) on Tue, 17 Apr 2001 18:28:57 GMT
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Dear IDL news group:

How can I make multiple non-linear regression analysis with IDL?
I know "LMFIT" command can make a non-linear regression analysis
for a single independent variable. However, I want to know
an appropriate command or function of IDL which provide me with
a fitting of an arbitrary non-linear function with two or more
independent variables. I mean, I want to determine the following
three parameters (a, b, c):

$$y=f(x_1, x_2, x_3; a, b, c)$$

Here x_1 , x_2 , and x_3 are arrays of independent variables each
containing n data. y is an array of dependent variable with
 n data. a , b , and c are scalars (parameters) which determine
the non-linear function $f(x_1, x_2, x_3)$.

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