Subject: Re: Fitting an implicit function with IDL Posted by Heinz Stege on Tue, 08 Jun 2010 22:29:10 GMT View Forum Message <> Reply to Message

On Tue, 8 Jun 2010 03:54:18 -0700 (PDT), Gianluca Li Causi wrote:

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> Hi all,
I have to find the A, B and C parameters which best satisfy (in the
chi-square sense) the following equation:
A * g(x) + (W(x) + B) / (X(x) + C) = 0
where g(x) is a known function of x and (W +/- sigmaW) and (Z +/- sigmaZ) are two sets of measured data together with their measurement errors.
This is different from the usual form F(x, A,B,C) = Y where a function of x and parameters is to be fitted to a dataset (Y +/- sigma_Y).
So, how to use the various IDL fitting routines to solve this
problem??
I think, your equation is not really different from the form
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I think, your equation is not really different from the form y=f(x,A,B,C). In your case it is y=0. You can use the IDL fitting routines by using an array y=fltarr(n_elements(x)). Possibly CURVEFIT is your friend.

Greetings, Heinz