Subject: Re: 2D-fit Posted by Paul Van Delst[1] on Tue, 02 Mar 2004 15:53:47 GMT

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Esa Riihonen wrote:
> Hi all!
> I seek advice on fitting a following function with 2-free variables mu and
  phi (Below '.' indicates multiplication and '^2' power of 2 ):
>
   F(mu,phi) = a0 + a1.mu + a2.mu^2 + (a3.mu + a4.mu^2).cos(phi-phi0),
>
>
 phi0 is a constant and ai are the fitting parameters.
>
> Measurement set consists of 240 values (10 values for mu and 24 for phi,
> this in effect a polar coordinate grid with 24 'sectors' and 10 'rings').
> So the question what is the best way of doing this in IDL?
*THE* best way would be to download Craig Markwardt's MPFIT library and use that. Not only
is it more robust than equivalent IDL procedures, there's a *lot* more functionality that
will allow you to fit stuff oh so much faster.
Seriously, go to
 http://cow.physics.wisc.edu/~craigm/idl/idl.html
and grab his MPFIT library.
pauly
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CIMSS @ NOAA/NCEP/EMC

Paul van Delst