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Subject: Re: Funding the Global Minimum Using IDL  
Posted by [Sergey Anfinogentov](#) on Thu, 24 Nov 2016 10:17:28 GMT  
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Dear Maryam

As far as I know, there are no global optimisation routines in standard IDL Library.  
If you you have a low-dimensinal parameter space (~ 3-4 parameters), you can find the global minimum by starting MPFIT or CURVEFIT from many (thousands) different random locations and selecting the best solution.

or alternatively, you can use global optimisation routines from Python SciPy package (<https://docs.scipy.org/doc/scipy/reference/optimize.html>).  
The latest version of IDL can transparently call Python routines (See <http://www.harrisgeospatial.com/docs/python.html>).

Best Regards,  
Segey

> Hello everyone,  
>  
> Does anyone know any routine that finds the global minimum? The mpfit routine I normally use only finds the local minimum which is not what I want here.  
>  
> Any help is greatly appreciated.  
>  
> Maryam

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