
Subject: static variables

Posted by [Jonathan Rogness](#) on Wed, 30 Apr 1997 07:00:00 GMT

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Hello,

I've been playing around with the POWELL minimization routine in IDL (version 4.0). In a nutshell, I've got a model with four parameters, and I need to solve those parameters so that the error of the model compared to real world measurements is minimized.

This leads to a problem: my object function simply computes the error for a given bunch of parameters, but to do this the function needs to have access to 30+ measurements from a file. I'd rather not read in the file every time the function is called.

I started out writing in C and using the NAG minimization routines, but since the calling routines were in IDL I thought it would be nice to stay in one language. In C the problem was solved by using static variables; I could use a function to read in the measurements, and every time it was called subsequently it would remember the previous values. I haven't run across anything like that in IDL.

Any tips/suggestions/thoughts on how to do this would be greatly appreciated. Sorry if it's a little vague - I don't want to bore anybody with the details unless it's absolutely necessary. ;-)

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