Subject: Re: Passing function to function called by qromb etc.? Posted by landsman on Wed, 16 Aug 2000 07:00:00 GMT

View Forum Message <> Reply to Message

In article <399ad505\$1@cs.colorado.edu>, jwilson@shifty.cs.colorado.edu (John Wilson) wrote:

- > I would like to numerically integrate f(x) * x in IDL. This is coming
- > up within another function which takes the function f as one of its
- > parameters. What I would like to do is define a function xfx which
- > computes f(x) * x for a given x and call gromb with the function
- > xfx with a parameter of the function f. However, I cannot figure out
- > how to do this.

>

- > I thought of
- > function xfx,x,func=f
- > return, call_function(func,x) * x
- > end

>

> foo=qromb(xfx,a,b,func='bar')

>

- > but that does not work. What I really need is a capability like the
- > bind argument facility of the STL.

>

How about this ugly solution?

function xfx,x common func return,call_function(func,x)*x end

common func func = 'bar' foo = gromb(xfx,a,b)

A while back in the "Top Ten IDL Requests" thread, I made a wish that the IDL implementations of Numerical Recipes routines that call user-supplied functions (QROMB, LMFIT) would allow vector calls to the user functions. I should have also added that the user should have the ability to pass keywords directly to the user-supplied function.

I haven't tried it but both these capabilities are available in Mati Meron's procedure ROMBERG at ftp://cars3.uchicago.edu/midl/romberg.pro

I have similar capabilities for QSIMP and QTRAP at http://idlastro.gsfc.nasa.gov/ftp/pro/math/

Wayne Landsman

landsman@mpb.gsfc.nasa.gov

Sent via Deja.com	http://www.deja.com/
Before you buy.	