
Subject: Re: Passing function to function called by qromb etc.?

Posted by [landsman](#) on Wed, 16 Aug 2000 07:00:00 GMT

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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 `qromb` 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 = qromb(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/>

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