Subject: Re: run-time function creation
Posted by Craig Markwardt on Wed, 10 Apr 2013 17:04:49 GMT
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On Wednesday, April 10, 2013 10:33:31 AM UTC-4, Paul Mallas wrote:

> I know this is a bit off the wall, but I was wondering if there is a technique or method for doing run-time function creation.

>

> The reason I ask is I was looking at the IDL integration routines (e.g., qsimp) and this requires a singular argument function name as input. My problem is I have a function with several parameters I need to integrate, but don't have these parameters until I calculate them at run time. If I could somehow create the function dynamically, I could create a function that would satisfy the the qsimp requirement for a single argument function, but prior to run-time I can't.

Well, I have two answers for you.

The first answer is that you can use my QPINT1D which is a better integrator than the IDL-standard quadrature functions. Plus, it allows you to enter in a private variable (a structure) for other parameters.

If you really want run-time functions, then FILE\_COMPILE will do that for you. You need to write out a scratch file with the function you want, and then FILE\_COMPILE will do the tricky part of compiling it. (not so tricky, but getting the paths right is more work than you might think)

## Craig

## QPINT1D

http://cow.physics.wisc.edu/~craigm/idl/math.html#QPINT1D

## FILE COMPILE

http://cow.physics.wisc.edu/~craigm/idl/introspect.html#FILE \_COMPILE