
Subject: Re: qsimp, qromb, qromo
Posted by [Craig Markwardt](#) on Thu, 03 Jun 2004 20:29:16 GMT
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gnarloo@libero.it (michele) writes:

> Dear all,
> I'm new to this newsgroup so first of all, hello everybody!
>
> The problem i encountered is the following:
>
> I tried to use
> qsimp and qromb to integrate a couple of functions (scattering
> problems, nothing special) but the system crashes..

I've never found the IDL integration routines to be particular useful.

You might try my adaptive routine, QPINT1D. Which is based on the tried and trusted library called Quadpack.

> I tried to integrate $\cos(x)$ between 0 and pi (the result is obviously
> zero)
> and these functions give out some kind of error message but not the
> result..

Example:

```
print, qpint1d('cos(x)', /expression, 0d, !dpi)
      4.7089631e-17
```

...which is as close to zero as you are practically going to get.

Of course, you can also integrate pure IDL functions rather than IDL expressions, but the /EXPRESSION option can be very useful at the command line.

Craig

<http://cow.physics.wisc.edu/~craigm/idl/idl.html> (under Mathematics)

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Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
