Subject: Re: Integrator taking vectors as input?
Posted by elias on Thu, 27 May 2010 06:31:38 GMT

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On May 26, 5:18 pm, "jsch...@gmail.com" <jsch...@gmail.com> wrote:
>> I was wondering if an IDL integrator exists where it can accept
>> vectors instead of scalars as inputs for upper and lower limits of the
>> integral. I want to apply it to big datasets and I want to avoid using
>> loops, which tend to be much slower.
>
> The IDL routines like QROMB accept vector inputs as the limits.
>
> See the documenation (e.g.http://star.pst.qub.ac.uk/idl/QROMB.html)
> for details.
>
> Josiah

Thanks a lot,

I tried QROMB and QSIMP, the problem is that they use internally loops
when vectors are provided for the limits. In that case, since my
integrals have constants that they are dependent from the values of
the limits, it doesn't work, since the constants are also vectors
(that I pass in the function I integrate through a COMMON block).

Eg. at a single step of the internal QROMB loop, the limits are
scalars while the constants are vectors. Therefore the code crashes...