Subject: Re: Integration
Posted by wlandsman on Wed, 20 Feb 2013 18:18:49 GMT
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On Wednesday, February 20, 2013 12:00:32 PM UTC-5, fd_...@mail.com wrote:
> Hi all
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> I have a question about integration.
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It's not clear from your post whether you have tabulated data - a set of X,Y values -- or a known function. (DERIV works on tabulated data, but you give a function Y=2T.) For tabulated data, I suggest the Exelis procedure INT_TABULATED. But if you can write the IDL function, then it is possible to integrate with more accuracy since the function can be evaluated at any X value. In that case I suggest Craig Markwardt's QPINT1D

http://cow.physics.wisc.edu/~craigm/idl/down/qpint1d.pro

although there are several other good IDL integrators around. --Wayne

> I used the DERIV function in order to differentiate a function. Now I want to integrate a function but don't know which function to this work. I want a function that do the same work as the DERIV function but in the "opposite direction". E.g. Assume Y=2t, the integral of DERIV(t,Y) equals Y=2t (which is obvious I think).
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> Cheers
>
> M