
Subject: Re: QSIMP function

Posted by [Craig Markwardt](#) on Sat, 14 Sep 2013 05:44:07 GMT

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On Thursday, September 12, 2013 1:05:05 PM UTC-4, wlandsman wrote:

> One suggestion for improved accuracy is to interpolate your function at the midpoints of all your tabulated X values. You can use one of the options (e.g. spline, least-squares quadratic) in the INTERPOL() function without needing a loop. Then redo your trapezoidal integration routines but using twice as many points, then rebin your final answer by a factor of two.

Wayne, Maria asked me about this privately. Does interpolation really improve the accuracy? My first impression would be that it might help, or it might hurt, depending on how well the interpolation routine chosen reflects the underlying nature of the curve being sampled. I don't have any good intuition about how well this works in practice.

Thanks,
Craig
