Subject: Re: Numerical integration Posted by Paul Van Delst[1] on Thu, 15 Nov 2007 20:55:01 GMT View Forum Message <> Reply to Message tarequeaziz@gmail.com wrote: > Hello Gurus, Pundits & Bosses of IDL, > > Need help on 'int_tabulated'. One of the array has duplicate > elements(=same elements) and thus int tabulated refuses to move any > further. > Is there any way out? Yes. Remove the duplicate x-values and try again. cheers, pauly > I tried QROMB, QSIMP etc. I can not use them because to do that I need > to define a 'function' which they integrate. I can not make a function > out of my 2 arrays (at least that's what I think). >

However,the thing I like about them is that, you can specify step
size, which cant be done in int_tabulated.
Is there any procedure/function which can handle 1) repeatable
elements or same elements in array and also 2) can specify step size.
Any help will be greatly appreciated.
Thanks in advance.
Best,

Subject: Re: Numerical integration
Posted by wlandsman on Thu, 15 Nov 2007 21:00:42 GMT
View Forum Message <> Reply to Message

On Nov 15, 2:58 pm, tarequea...@gmail.com wrote:

> Hello Gurus, Pundits & Bosses of IDL,

>

> TA

- > Need help on 'int_tabulated'. One of the array has duplicate
- > elements(=same elements) and thus int tabulated refuses to move any
- > further.

>

> Is there any way out?

So you have a jump in your function (where Y changes but X stays the same)? INT_TABULATED won't like this because it interpolates the data, and your function is not smooth. You could try just a simple trapezoidal integration, such as in the function http://idlastro.gsfc.nasa.gov/ftp/pro/math/tsum.pro

--Wayne

Subject: Re: Numerical integration
Posted by Jean H. on Thu, 15 Nov 2007 21:37:38 GMT
View Forum Message <> Reply to Message

tarequeaziz@gmail.com wrote:

> Hello Gurus, Pundits & Bosses of IDL,

>

- > Need help on 'int_tabulated'. One of the array has duplicate
- > elements(=same elements) and thus int_tabulated refuses to move any
- > further.

>

> Is there any way out?

what about cutting your array where you have an X duplicate, then run int_tabulated on each sub-array, and sum everything up at the end?

Jean