Subject: Re: An approximation of the cumulative integral of Y
Posted by Vince Hradil on Sat, 11 Jul 2009 16:43:40 GMT
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On Jul 11, 12:39 am, Vijay Shah <vijayps...@gmail.com> wrote:
> Hi,
> Is there any subroutine in IDL that allows to computes an
> approximation of the cumulative integral of Y via the trapezoidal
> method (with unit spacing)?
>
> Regards,
> Vijay

INT_TABULATED() works nicely (not really what you want, but better?)

It would be easy enough to write using SHIFT(). Something like

y2 = (y+shift(y,1))/2
x2 = (x+shift(x,1))/2
integral = total(x2*y2); or total(x2*y2,/cumulative)

You have to figure out how to deal with the "ends" from the shift...