Subject: Re: An approximation of the cumulative integral of Y
Posted by Vince Hradil on Sat, 11 Jul 2009 17:07:49 GMT
View Forum Message <> Reply to Message

On Jul 11, 11:43 am, Vince Hradil <vincehra...@gmail.com> wrote:
> 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...

Let's see, I think that should be:
x2 = x-shift(x,1)
or use delta x if it doesn't change