Subject: Re: Help needed!!
Posted by bala murugan on Fri, 16 Apr 2010 16:40:15 GMT
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On Apr 16, 10:33 am, pp <pp.pente...@gmail.com> wrote:
> On Apr 16, 1:18 pm, bala murugan <bala2...@gmail.com> wrote:
>
>
>
>
>
>> My aim is to do the following,
>
>> To write an IDL routine that takes as input the mean of a Poisson
>> distribution (fLambda = a floating point number >= 0.0) and a number
>> of realizations (N), and generates N samples from the Poisson
>> distribution with mean fLambda. The output samples should be provided
>> as a vector (list) of integers (each >= 0). I will also want to plot
>> a histogram of the samples (IDL probably has a built-in histogramming
>> routine).
>
>> My subroutine/program will look something like this...
>
>> piSamples = PoissonDist(fLambda, N)
>> piSamples = vector of N integer samples returned by the routine
>> fLambda = mean of the Poisson distribution
>> N = number of samples to generate
>
>> This routine will need to loop n = 1..N Each time through the loop,
>> it will need to call RANDOMU to get a random number between 0.0 and
>> 1.0. It will then need to call IMSL_POISSONCDF (probably repeatedly)
>> to determine which integer in the Poisson distribution corresponds to
>> the random number gotten from RANDOMU. This integer is then placed in
>> the output vector, etc.
>
>> I am not using IMSL_POISSONCDF. Rather I am calculating the poisson
>> probability myself.
>
>> Can you please help me with this?
>
> Better now, but you still did not say what the problem is. One problem
> that is obvious is the line
>
> if (x EQ r) THEN a[i]=j
>
> since neither a or i exist at that point. And that condition is
> probably never going to be true.

@pp

Can you please go through the summary of what I want to accomplish and suggest me some method to do it?
