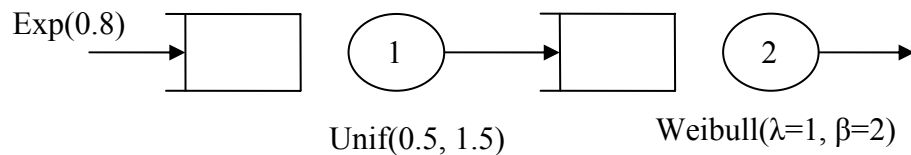


Pseudo Code for Stochastic Simulation

Example:



Pseudo Code:

$I = 1$

Do While ($I \leq 10,000$)

{

Generate Inter-Arrival Times using Random Number Generator $\text{EXP}(0.8)$

Generate Service Times at Node 1 using Random Number Generator $\text{Unif}(0.5, 1.5)$

Generate Service Times at Node 2 using Random Number Generator $\text{Weibull}(\lambda=1, \beta=2)$

Perform a "**Deterministic Event Scheduling Simulation**"

$\text{AST}[I] = \text{Average System Time}$

$\text{TP}[I] = \text{Throughput}$

$I = I + 1$

}

$$E[\text{ Av. Sys. Time }] \approx \frac{1}{10,000} \sum_{k=1}^{10,000} \text{AST}[k]$$

$$E[\text{ Throughput }] \approx \frac{1}{10,000} \sum_{k=1}^{10,000} \text{TP}[k]$$