Pseudo Code for Service Node Simulation







// Arrival times and service time are specified and given

StaticDeterministicSSQSimulation

1 

2 

3 **while** 

4 **if** 

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7 

8 **if** 

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11 

12 **else**

13 **if** 

14 ;

15 

16 **if** 

17 

18 **else**

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21 

22 **end**



**//** Arrival times and service times are to be stochastically specified in advance  
// Arrival times, service times, and completion times are separately determined.

StaticStochasticSSQSimulationA

1 

2 

3 

4 **for****to** *n*-1

5 

6 

7 StaticDeterministicSSQSimulation 

8 **end**

// Arrival times, service times, and completion times are determined in one-pass.

StaticStochasticSSQSimulationB

1 ;

2 **for****to** *n*-1

3 

4 

5 

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7 StaticDeterministicSSQSimulation

8 **end**

// Stochastic arrival and service times are dynamically generated.

DynamicStochasticSSQSimulation

1 ;

2 

3 

4 **while**

5 **if** 

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7 

8 

9 **if** 

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11 **else**

12 

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14 

15 

16 **if** 

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19 **else**

20 

21 **else**

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27 **if** 

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31 

32 **else**

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35 

36 **end**

// Stochastic arrival and service times are dynamically generated, as well as the immediate feed back case is stochastically determined.



DynamicStochasticSSQWithFeedbackSimulation

1 ;

2 

3 

4 **while**

5 **if** 

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8 

9 **if** x>0

10

11 **else**

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20

21 **else**

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39 

40 **end**



DynamicStochasticMultiServerSingleQueueSimulation

1 ;

2 

3 

4 **while**

5 **if** 

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