

DISI – UNIVERSITY OF TRENTO

Master in Computer Science AA 2014/2015

Simulation and Performance Evaluation

Simulation of a simple queuing network

Configuration for Ans Riaz

Arrival Process

We do not have an arrival process, the queuing system is closed with $K = 8$ customers.
Stations

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QS1: $-/M/1/FIFO$; average service rate $\mu = 5$.

QS2: $-/G/2/FIFO$; the service time T is uniformly distributed between 2 and 8.

QS3: $-/M/4/8/FIFO$; average service rate (per server) $\mu = 3$.

Routing probabilities

$p_{i,j}$ is the probability that a customer services in queue i goes to queue j .

		j		
		1	2	3
i	1	0.0	0.4	0.6
	2	1.0	0.0	0.0
	3	0.0	0.5	0.5
		p_{ij}		