# DISI - University of Trento

Master in Computer Science AA 2014/2015 Simulation and Performance Evaluation

# Simulation of a simple queuing network

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#### **Arrival Process**

We do not have an arrival process, the queuing system is closed with K=10 customers.

### **Stations**

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

QS2: -/G/2/FIFO; the service time T is uniformly distributed between 1 and 10.

QS3: -/M/10; average service rate (per server)  $\mu = 0.1$ .

## Routing probabilities

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

		j		
		1	2	3
	1	0.0	0.4	0.6
i	2	0.2	0.3	0.5
	3	0.0	0.4	0.6
		$p_{ij}$		