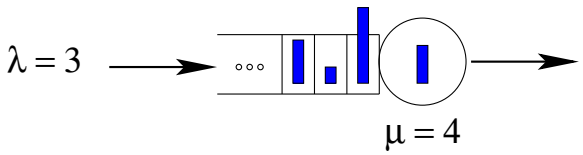
M/G/1 Model



DEFN: A **scheduling policy**, (a.k.a. service discipline) specifies which job should be run at every moment of time.

Question: What is a **preemptive** scheduling policy as compared to a **non-preemptive** one?

Question: What is a **work-conserving** scheduling policy?

4 Quadrants of Scheduling Policies

	Non-Preemptive	Preemptive
Non-Size-Based		
Size-Based		

Table 1: *4 quadrants*

Non-Preemptive, Non-Size-Based scheduling policies

Question: Name and define some non-preemptive, non-size-based policies

Question: How do you think these compare with respect to $\mathbf{E}[T]$? (HW 5)

Question: How do you think these compare with respect to $\mathbf{Var}(T)$?

Preemptive, Non-Size-Based scheduling policies

Question: What do you think Processor-Sharing (PS) does?

Question: Why might PS be superior to FCFS?

Question: Is PS always superior to FCFS?

Preemptive, Non-Size-Based scheduling policies

Question: Is there a preemptive version of LCFS?

Question: How do you think P-LCFS compares to LCFS? (see HW 5)

Preemptive, Non-Size-Based scheduling policies

Question: Both PS and P-LCFS are preemptive, non-size-based policies. Are there any advantages to P-LCFS from an implementation perspective?

Question: Can you think of other preemptive, non-size-based policies?