

Project 6

Study the behavior of a queue+server system that serves jobs according to a LIFO policy.

Consider the following workload: job interarrival times are IID RVs (to be described later), and their service times are IID RV (to be described later).

Study the response time of the above system as the workload varies at least in the following scenarios:

- Exponential distribution of all the above RVs
- Log-normal distribution of the service demand, with the same mean value as in the previous case.

In all cases, it is up to the team to calibrate the scenarios so that meaningful results are obtained.

Project deliverables:

- a) Documentation (according to the standards set during the lectures)
- b) Simulator code
- c) Presentation (up to 10 slides maximum)