Lab: M/M/1 queue simulation

MOOC: Understanding queues

Python simulations

Week II: M/M/1 queue simulations

In this lab, we are going to simulate the evolution of the number of customers in a M/M/1 queue.

We simulate the following events: arrival of a new client in the system, or departure of a client from the system. And we record the number of customers in the system at these instants. This makes it possible to plot the evolution of the number of customers in the queue against time.

Additionally, we experiment the influence of the arrival and departure rates on the stability of the system.

The notebook containing the lab of week 2 is available here: notebook

The pdf version of the lab of week 2 is available here: pdf version of the notebook