

Basic Performance Indices and Workloads

The enclosed files `Logger1.csv` and `Logger2.csv` are a two log files taken from a sensor monitoring the flow cars in a traffic road section. Cars first pass through the first sensor, then through the second. The road segment is single lane, so no overtake is possible. The value is expressed in minutes.

Using this data, compute:

- Arrival rate and throughput (expressed in [cars/min.])
- Average inter-arrival time (expressed in [min.])
- Utilization (expressed in [min.])
- Average Service Time (expressed in [min.])
- Average Number of Jobs
- Average Response Time (expressed in [min.])
- Draw the distribution of the number of cars in the road segment (from 0 to 25)
- Draw the response time distribution (between 1 and 40 minutes, with a granularity of 1 min.)
- Draw the service time distribution (between 0.1 and 5 minutes, with a granularity of 0.1 minutes)