**Basic Performance Indices and Workloads**

To have this assignment evaluated for the in-class exam, please upload on WeBeep a ZIP file including:

- the source code used to solve this assignment
- this file, with the table below properly filled

| Name (Family + given) | | Romito Alessandro |
|---|---|---|
| Student ID (codice persona) | | 10661916 |
| QR-code ID (8 digits of the QR that was given you) | | 34392705 |
| apache1.log | Arrival rate and throughput | Lambda = X = 0.504004job/s |
| | Average inter-arrival time | 1.98411s |
| | Busy time | 1784.64s |
| | Utilization | 0.898565 |
| | W | 12975.1s |
| | Average Service Time | 1.78286s |
| | Average Number of Jobs | 6.53298 |
| | Average Response Time | 12.9622s |
| | Probability of having *m* jobs in the web server with *m = 0* | 0.101435 |
| | Probability of having *m* jobs in the web server with *m = 1* | 0.098607 |
| | Probability of having *m* jobs in the web server with *m = 2* | 0.113368 |
| | Probability of having *m* jobs in the web server with *m = 3* | 0.0929798 |
| | Probability of having a response time less than $\tau$ *= 1 s* | 0.043956 |
| | Probability of having a response time less than $\tau$ *= 5 s* | 0.284715 |
| | Probability of having a response time less than $\tau$ *= 10 s* | 0.508492 |
| Apache2.log | Arrival rate and throughput | Lambda=X= 0.529309job/s |
| | Average inter-arrival time | 1.88925s |
| | Busy time | 1784.64s |
| | Utilization | 0.943682 |
| | W | 39062.7s |
| | Average Service Time | 1.78286s |
| | Average Number of Jobs | 20.6556 |
| | Average Response Time | 39.0237s |
| | Probability of having *m* jobs in the web server with *m = 0* | 0.0563183 |
| | Probability of having *m* jobs in the web server with *m = 1* | 0.0216763 |
| | Probability of having *m* jobs in the web server with *m = 2* | 0.0169278 |
| | Probability of having *m* jobs in the web server with *m = 3* | 0.00987921 |
| | Probability of having a response time less than $\tau$ *= 1 s* | 0.020979 |
| | Probability of having a response time less than $\tau$ *= 5 s* | 0.0549451 |
| | Probability of having a response time less than $\tau$ *= 10 s* | 0.0949051 |