Simulation statistics

```
total\_duration = 249.8677
arrival_rate_mean = 15.9990
interarrival_time_mean = 0.0625
response_time
 mean = 0.0200
var = 0.0004
 p50 = 0.0137
p75 = 0.0276
 p90 = 0.0465
p95 = 0.0613
 p99 = 0.0910
wait_time_mean = 0.0049
service rate mean = 66.0212
service time mean = 0.0151
num jobs in system mean = 0.3206
num_jobs_in_queue_mean = 0.0781
throughput_mean = 16.0000
utilization = 0.2425
Little's Law: E[N] = lambda * E[T]
-----
num_jobs_in_system_mean = 0.3206
arrival_rate_mean * response_time_mean = 0.3204 (= 15.9990 * 0.0200)
Utilization Law, version 1: rho_i = lambda_i / mu_i
utilization = 0.2425
arrival_rate_mean = 15.9990
service_rate_mean = 66.0212
arrival_rate_mean / service_rate_mean = 0.2423 (= 15.9990 / 66.0212)
Utilization Law, version 2: rho i = X i * E[S]
_____
\begin{array}{ll} \text{utilization} & = 0.2425 \\ \text{throughput\_mean} & = 16.0000 \\ \text{service\_time\_mean} & = 0.0151 \end{array}
throughput_mean * service_time_mean = 0.2423 (= 16.0000 * 0.0151)
```













