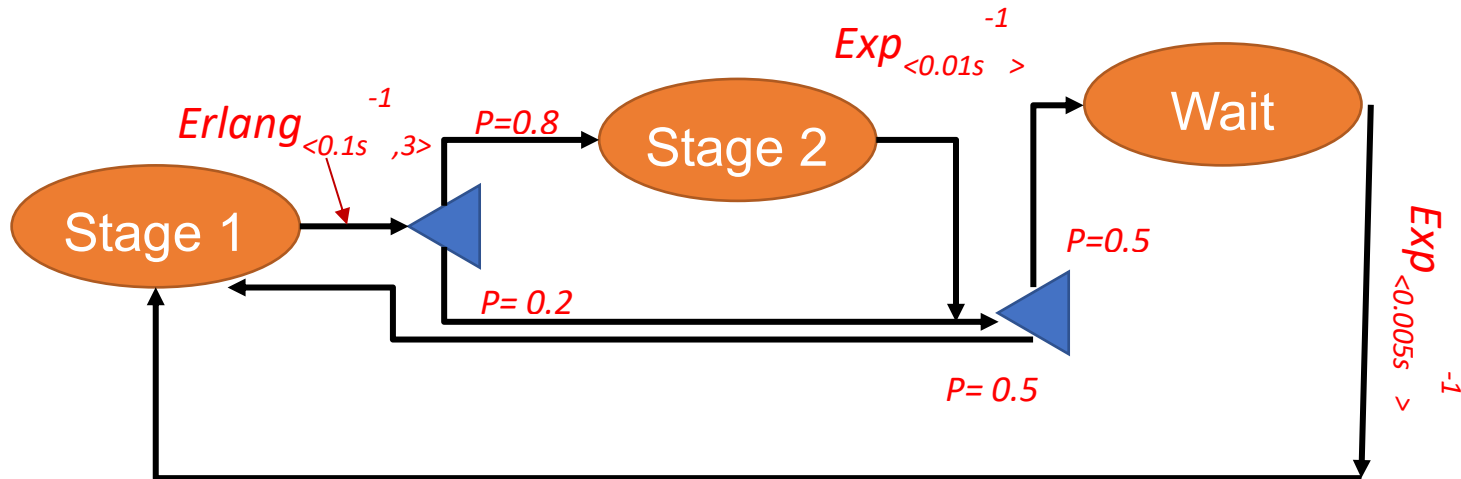


Mobile phone repair shop

The state machine describing the considered system is the following:



Results are:

Probability of being in First stage 0.148622
Probability of being in Second stage 0.384358
Probability of waiting a new customer 0.46702
Utilization 0.53298

Disclaimer: since random numbers are involved
your results will be different.
However, they should look similar.

Although not requested, the 95% confidence intervals are:

Probability of being in First stage [0.1422,0.143]
Probability of being in Second stage [0.3795,0.3819]
Probability of waiting a new customer [0.4755,0.478]
Utilization [0.522,0.5245]

Analytical results are (CTMC + PH):

Probability of being in First stage 0.142857
Probability of being in Second stage 0.380952
Probability of waiting a new customer 0.47619
Utilization 0.52381