

Python 3.6.4 |Anaconda custom (64-bit)| (default, Jan 16 2018, 10:22:32) [MSC v.1900 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 6.2.1 -- An enhanced Interactive Python.

Restarting kernel...

```
In [1]: runfile('E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/lib/estimators.py', wdir='E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/lib')
```

Directory:

E:\Daniel\Projects\PhD-RL-Toulouse\projects

has been prepended to the module search path.

Test #2: simulate_survival() method

Running Monte-Carlo simulation on single-server system to estimate expected survival time for
buffer_size_activation=1 on N=20 particles and simulation time T=50x...

particles by start_state:

0: x=[1], p=1.0 --> N=30

Block of particle indices to simulate #0: [0, 29] (N=30)

particles processed so far: 1

particles processed so far: 2

particles processed so far: 3

particles processed so far: 4

particles processed so far: 7

particles processed so far: 10

particles processed so far: 13

particles processed so far: 16

particles processed so far: 19

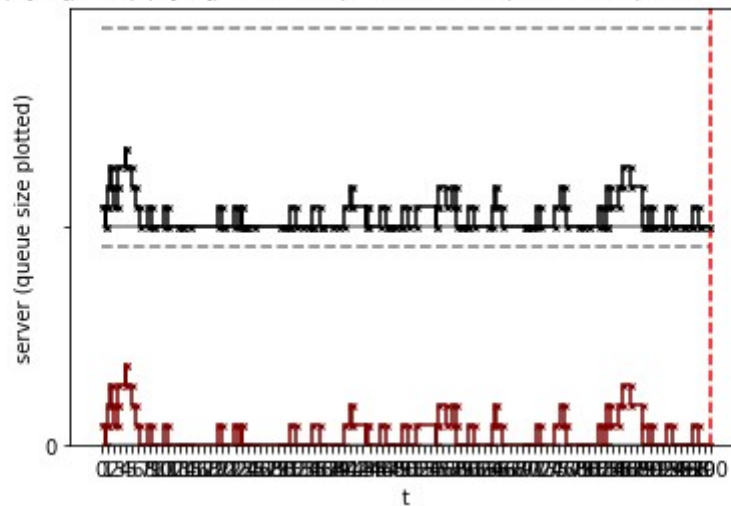
particles processed so far: 22

particles processed so far: 25

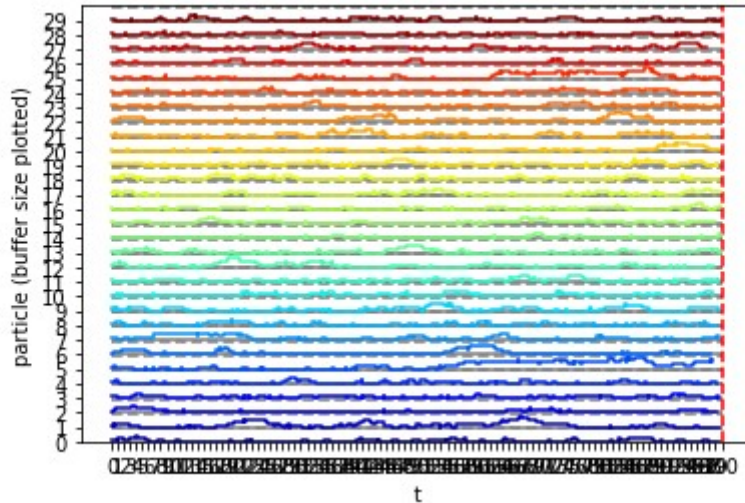
particles processed so far: 28

Generating trajectories for each particle until END OF SIMULATION TIME (T=100.0)...

Particle 0: K=10, rates(B)=[0.5], rates(D)=[1.0], activation=1, reactivate=False, finalize=ABS, #servers=1, maxtime=100.0, seed=1717



K=10, rates(B)=[0.5], rates(D)=[1.0], activation=1, reactivate=False, finalize=ABS, N=30, maxtime=100.0, seed=1717



particles processed so far: 1

Generating trajectories for each particle until END OF SIMULATION TIME (T=2000.0)...

Running Monte-Carlo simulation on single-server system to estimate expected survival time for buffer_size_activation=3 on N=20 particles and simulation time T=50x...

particles by start_state:

0: x=[3], p=1.0 --> N=30

Block of particle indices to simulate #0: [0, 29] (N=30)

particles processed so far: 1

particles processed so far: 2

particles processed so far: 3

particles processed so far: 4

particles processed so far: 7

particles processed so far: 10

particles processed so far: 13

particles processed so far: 16

particles processed so far: 19

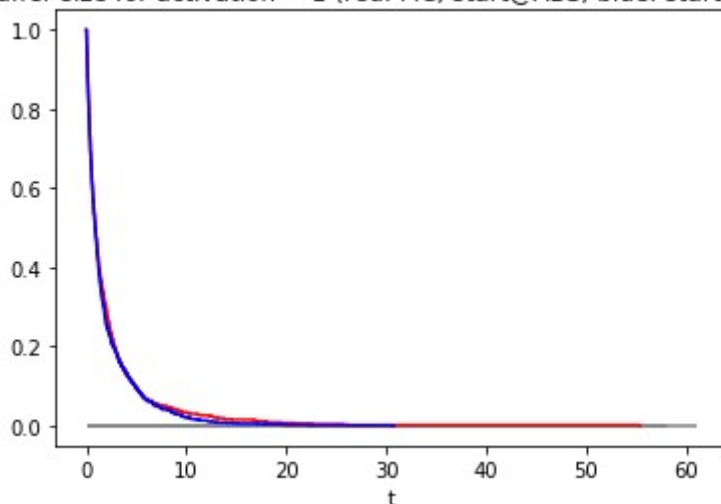
particles processed so far: 22

particles processed so far: 25

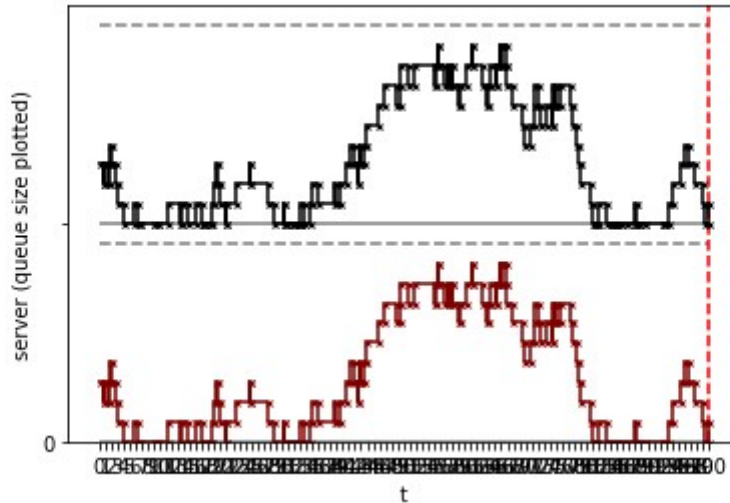
particles processed so far: 28

Generating trajectories for each particle until END OF SIMULATION TIME (T=100.0)...

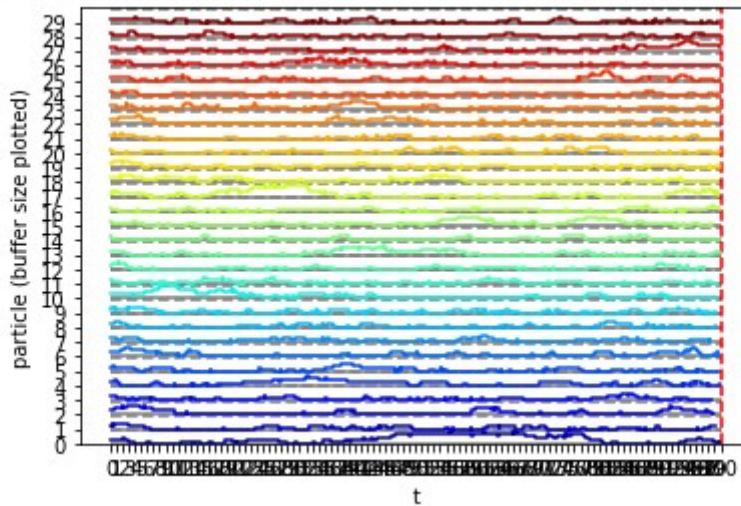
Buffer size for activation = 1 (red: MC, start@ABS; blue: start@ACT)



Particle 0: K=10, rates(B)=[0.5], rates(D)=[1.0], activation=3, reactivate=False, finalize=ABS, #servers=1, maxtime=100.0, seed=1717



K=10, rates(B)=[0.5], rates(D)=[1.0], activation=3, reactivate=False, finalize=ABS, N=30, maxtime=100.0, seed=1717



particles processed so far: 1
Generating trajectories for each particle until END OF SIMULATION TIME (T=2000.0)...

Running Monte-Carlo simulation on single-server system to estimate expected survival time for
buffer_size_activation=5 on N=20 particles and simulation time T=50x...

particles by start_state:

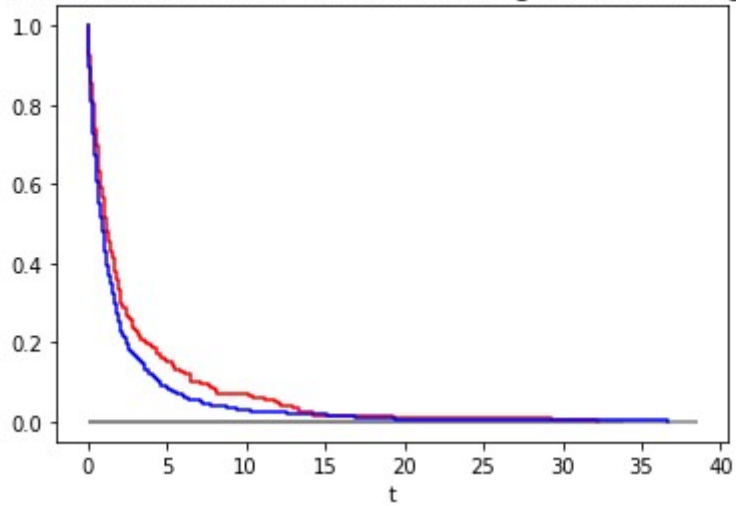
0: x=[5], p=1.0 --> N=30

Block of particle indices to simulate #0: [0, 29] (N=30)

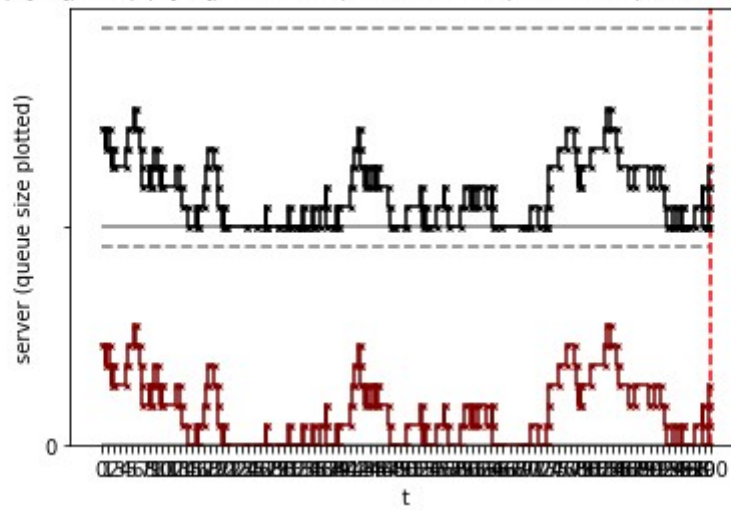
particles processed so far: 1
particles processed so far: 2
particles processed so far: 3
particles processed so far: 4
particles processed so far: 7
particles processed so far: 10
particles processed so far: 13
particles processed so far: 16
particles processed so far: 19
particles processed so far: 22
particles processed so far: 25
particles processed so far: 28

Generating trajectories for each particle until END OF SIMULATION TIME (T=100.0)...

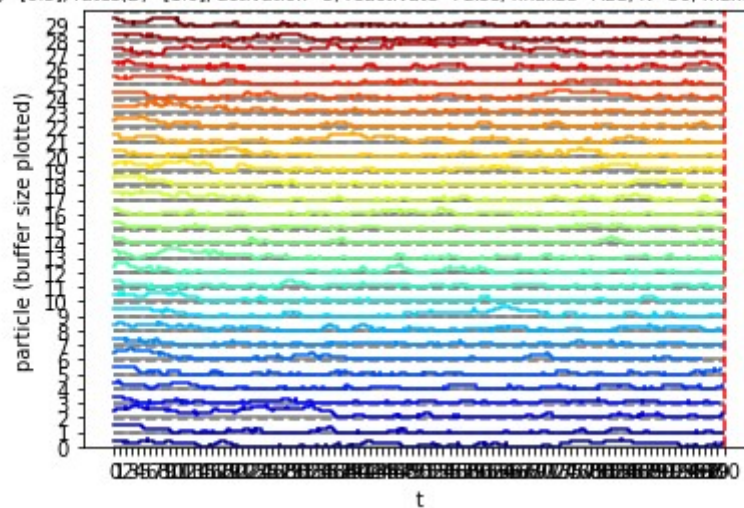
Buffer size for activation = 3 (red: MC, start@ABS; blue: start@ACT)



Particle 0: K=10, rates(B)=[0.5], rates(D)=[1.0], activation=5, reactivate=False, finalize=ABS, #servers=1, maxtime=100.0, seed=1717



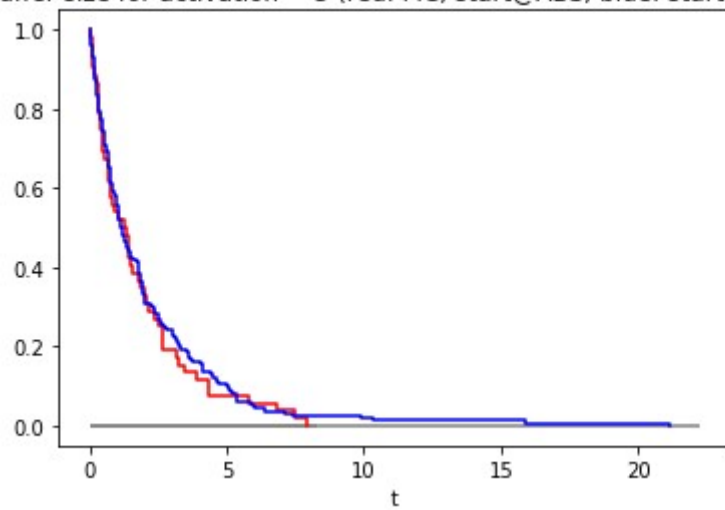
K=10, rates(B)=[0.5], rates(D)=[1.0], activation=5, reactivate=False, finalize=ABS, N=30, maxtime=100.0, seed=1717



particles processed so far: 1

Generating trajectories for each particle until END OF SIMULATION TIME (T=2000.0)...

Buffer size for activation = 5 (red: MC, start@ABS; blue: start@ACT)



In [2]: