```
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/test/test_QB.py', wdir='E:/Daniel/
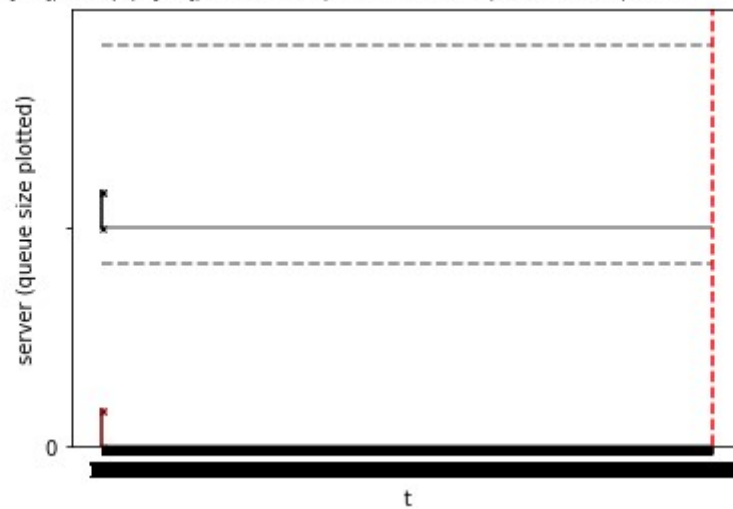Projects/PhD-RL-Toulouse/projects/Python/test')
```
Directory:
E:\Daniel\Projects\PhD-RL-Toulouse\projects
has been prepended to the module search path.
Log file '../../RL-002-QueueBlocking/logs/analyze_convergence_20210419_122505.log' has been open for
output.
Started at: 2021-04-19 12:25:05
```
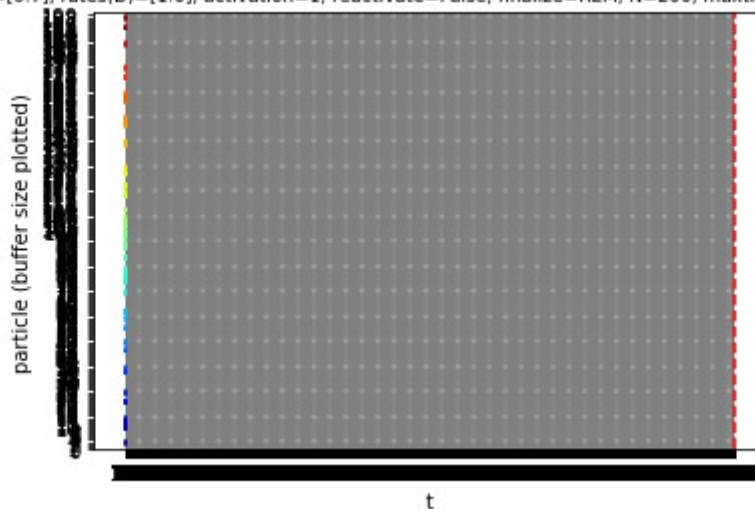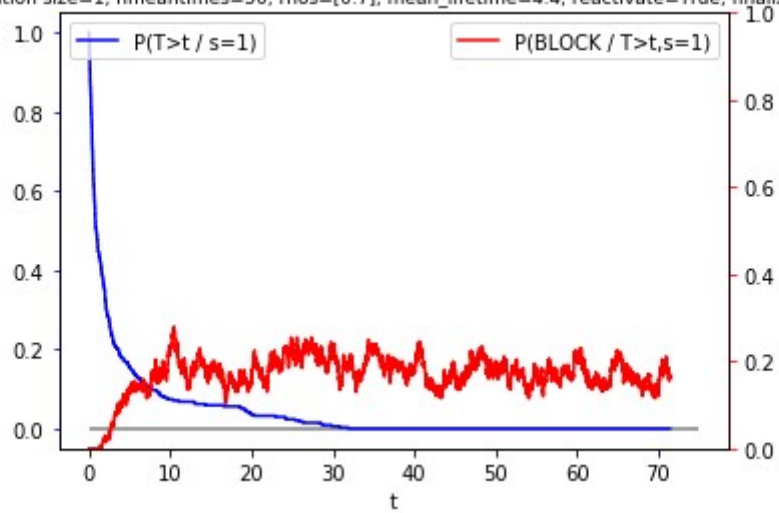
Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1313
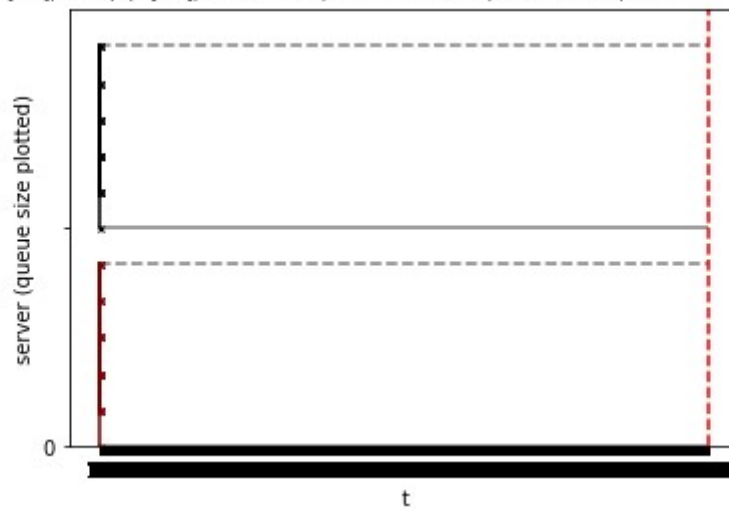

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1313
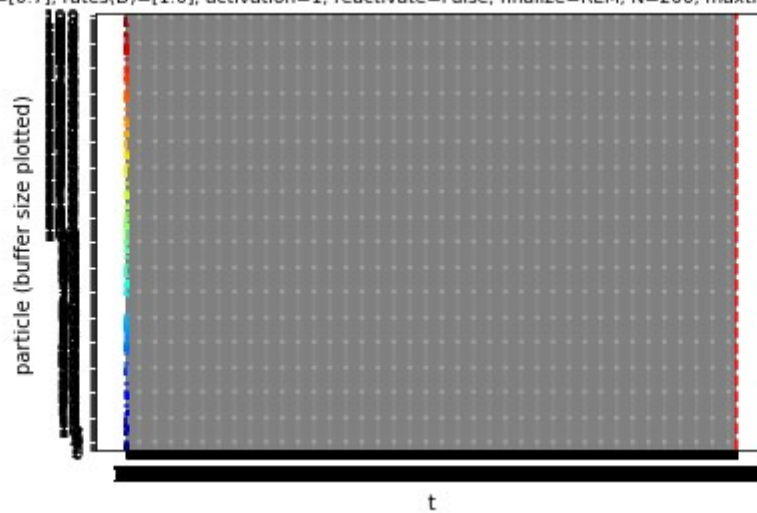
K=5, N=200, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.4, reactivate=True, finalize=ABS, seed=1313
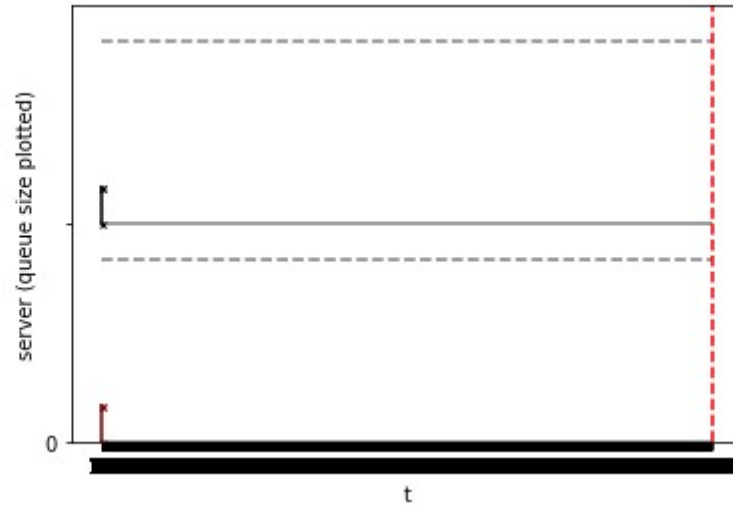

Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1314
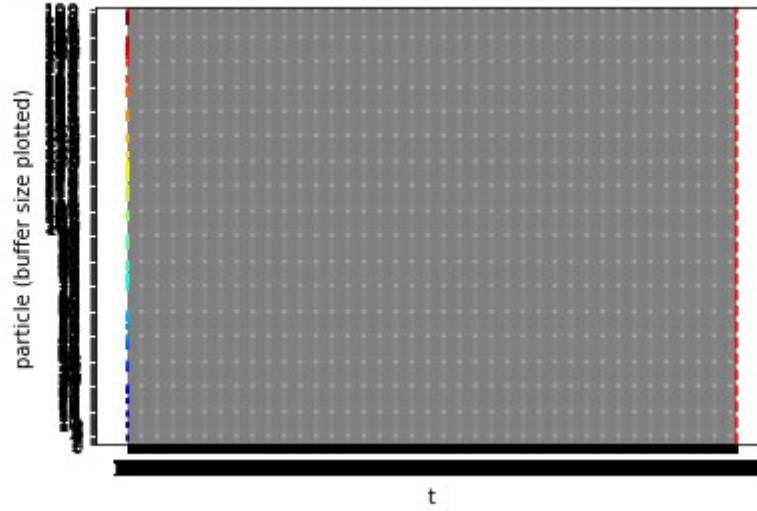

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1314
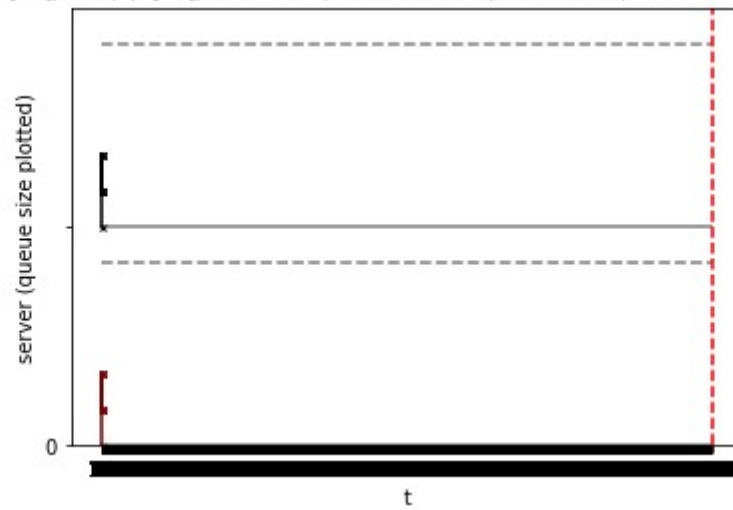
Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1315

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1315

Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1316
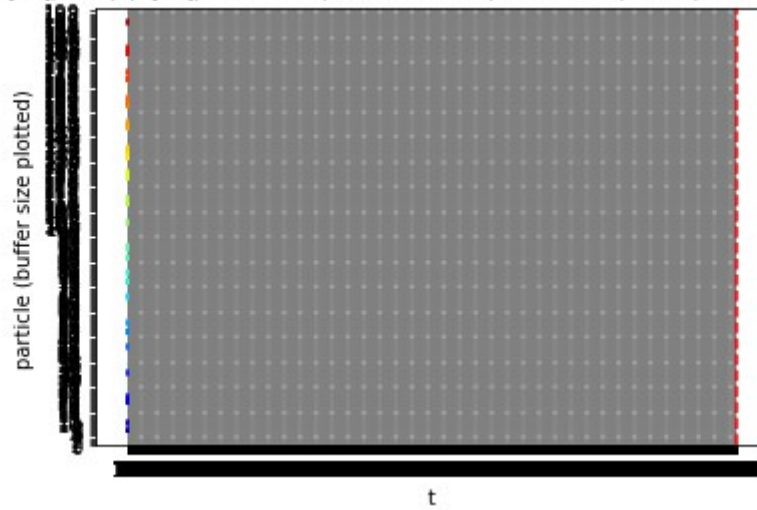
K=5, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1316
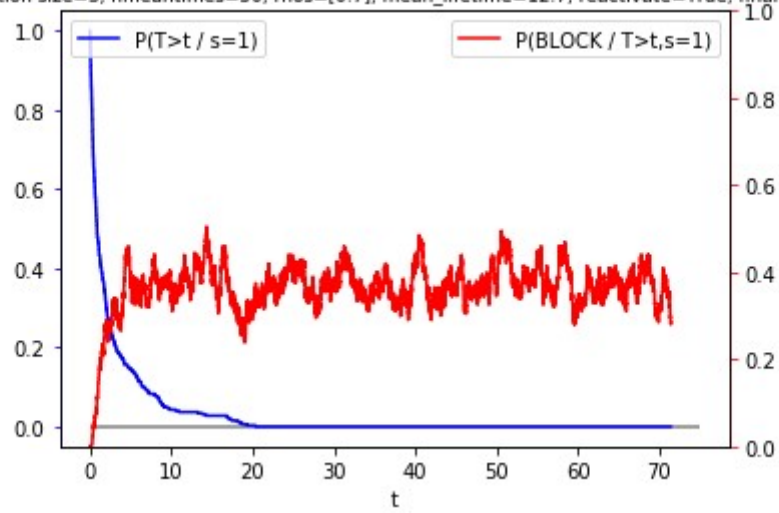

Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1313
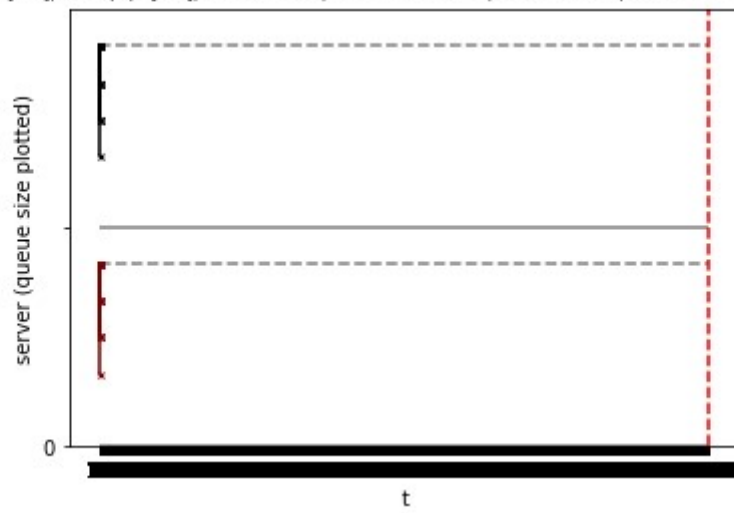

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1313
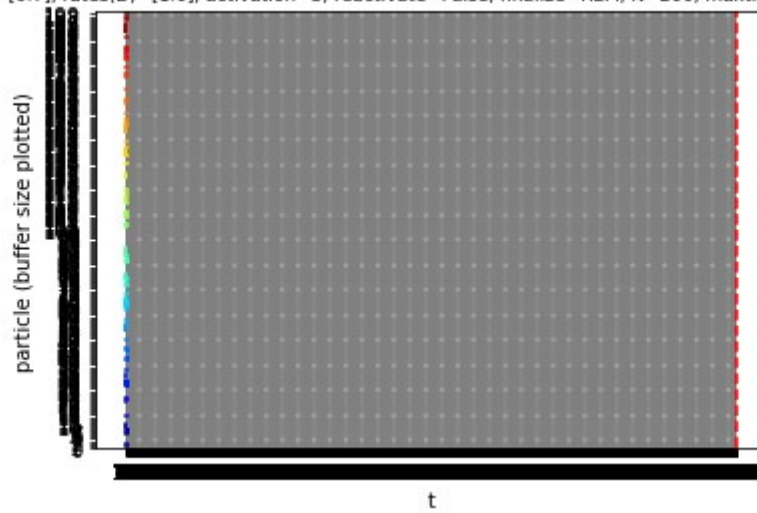
K=5, N=200, activation size=3, nmeantimes=50, rhos=[0.7], mean_lifetime=12.7, reactivate=True, finalize=ABS, seed=1313
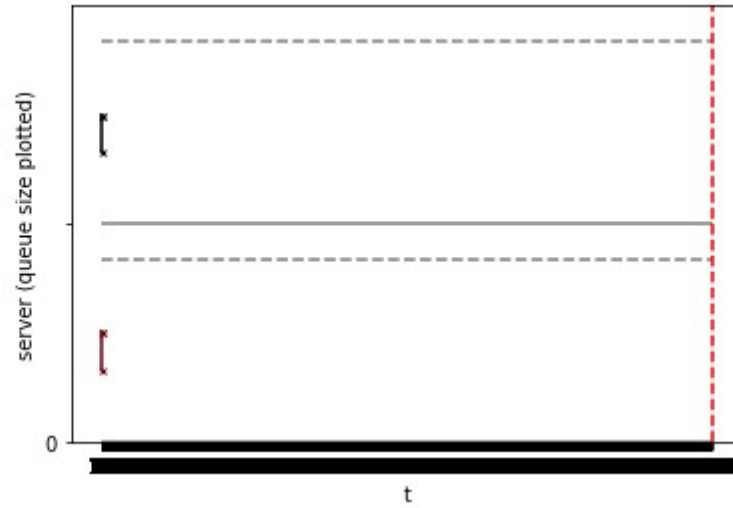

Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1314
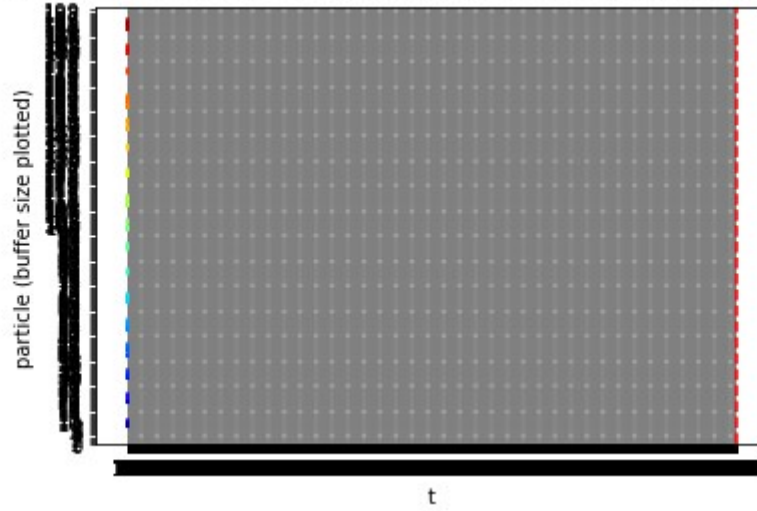

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1314
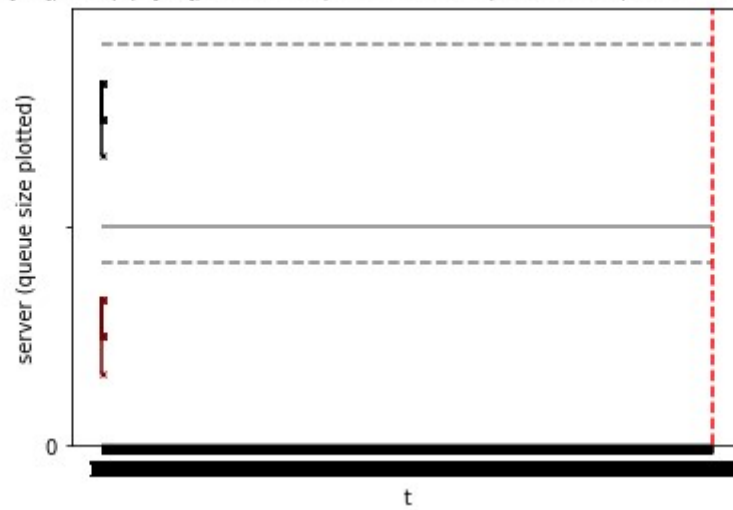
Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1315

K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1315

Particle 0: K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, #servers=1, maxtime=14285.7, seed=1316
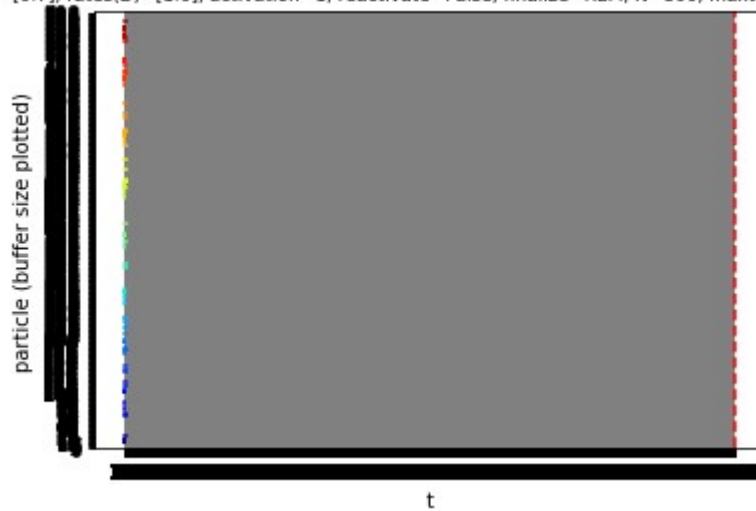
K=5, rates(B)=[0.7], rates(D)=[1.0], activation=3, reactivate=False, finalize=REM, N=200, maxtime=14285.7, seed=1316
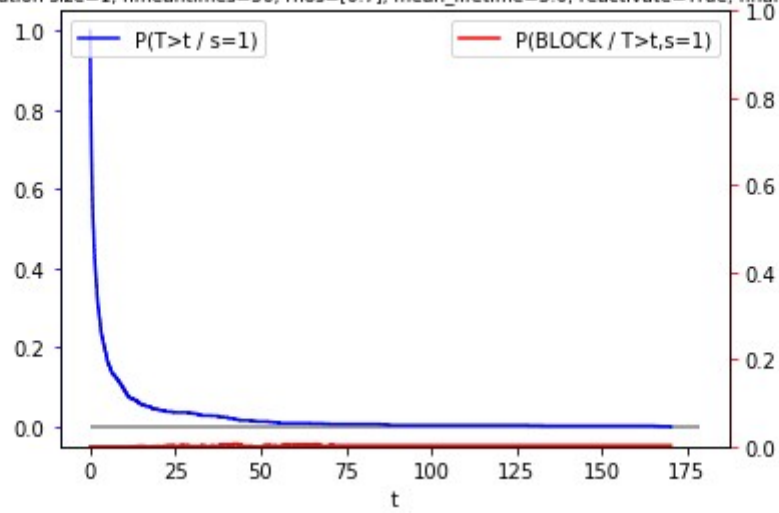

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1313
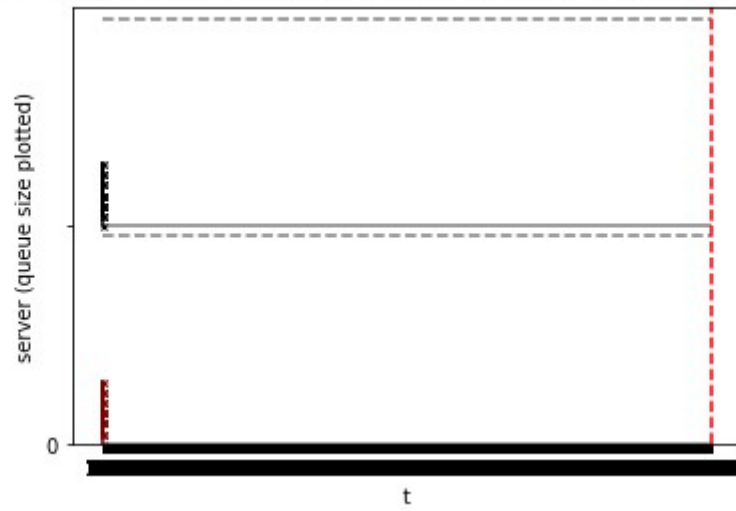

K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1313
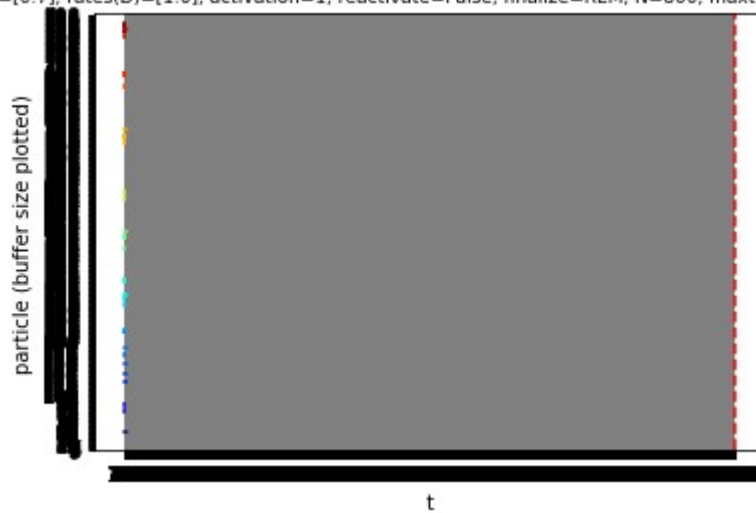
K=20, N=800, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=5.0, reactivate=True, finalize=ABS, seed=1313
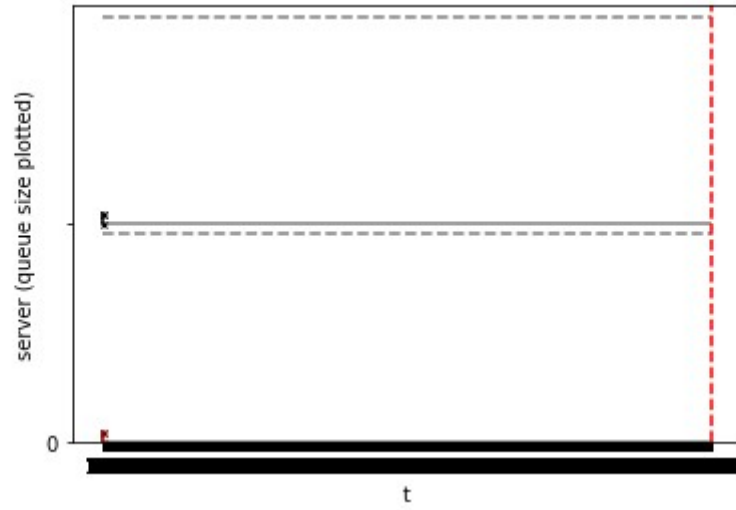

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1314

K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1314

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1315
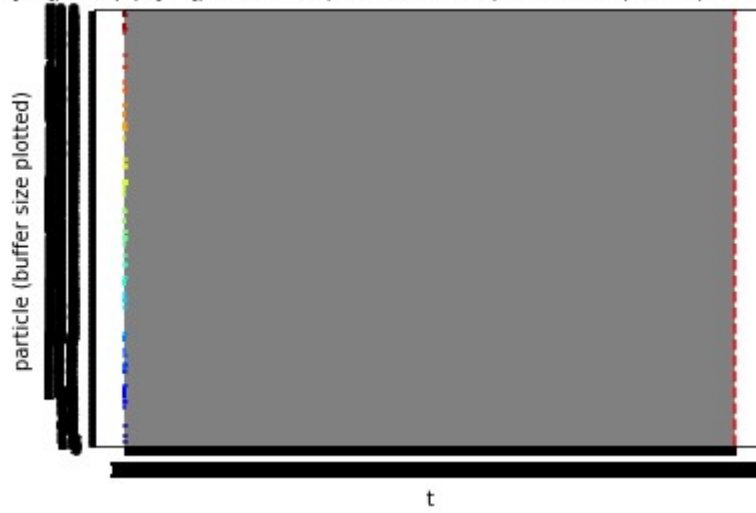

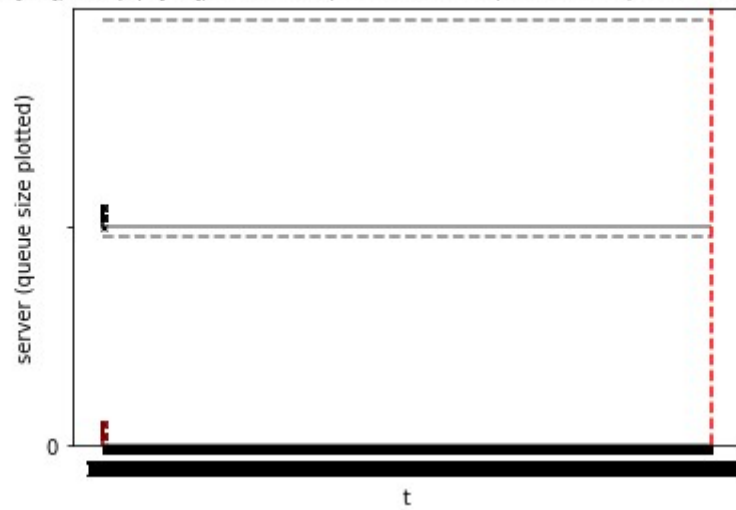K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1315

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1316
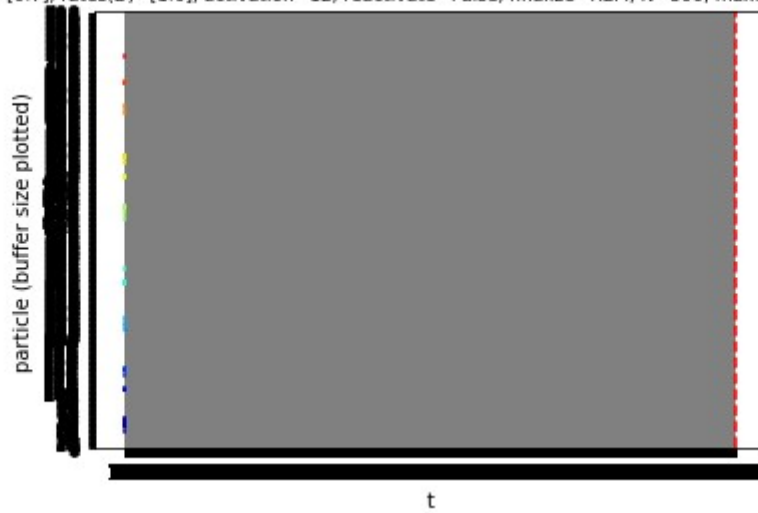
K=20, rates(B)=[0.7], rates(D)=[1.0], activation=1, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1316
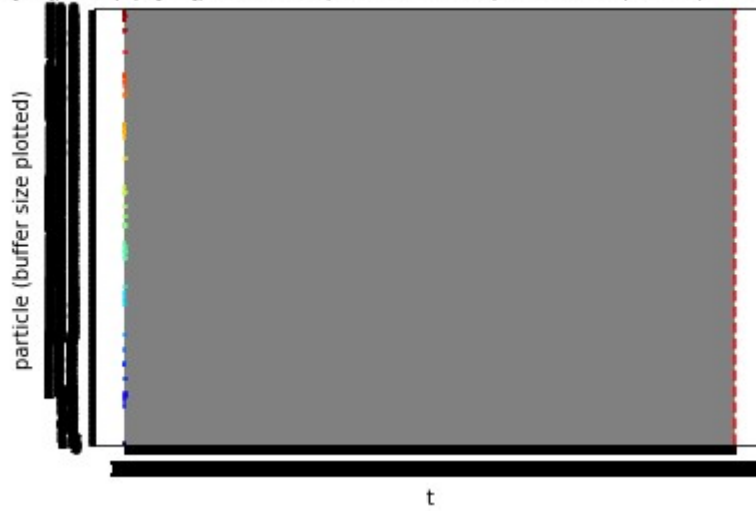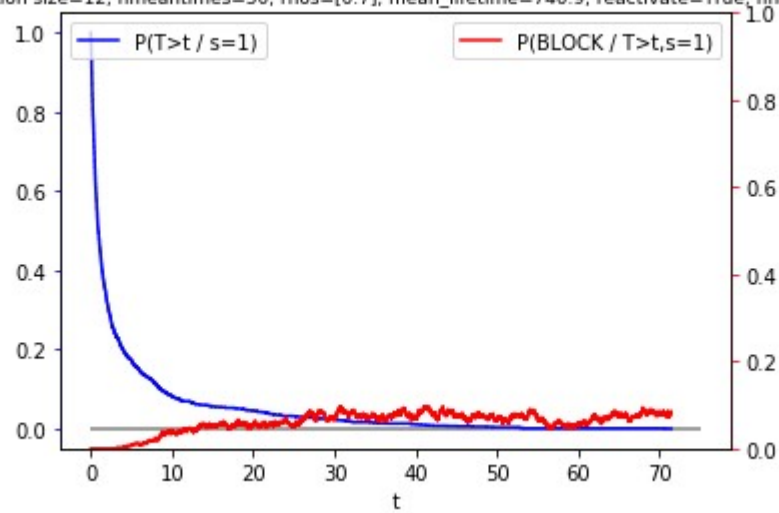

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1313
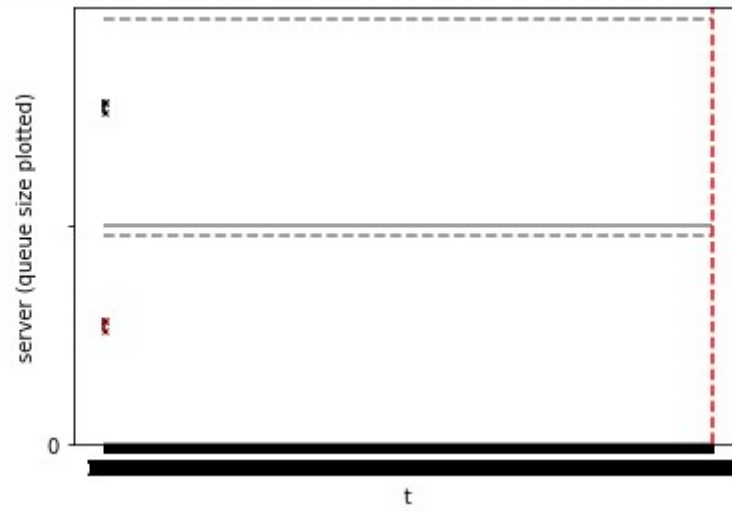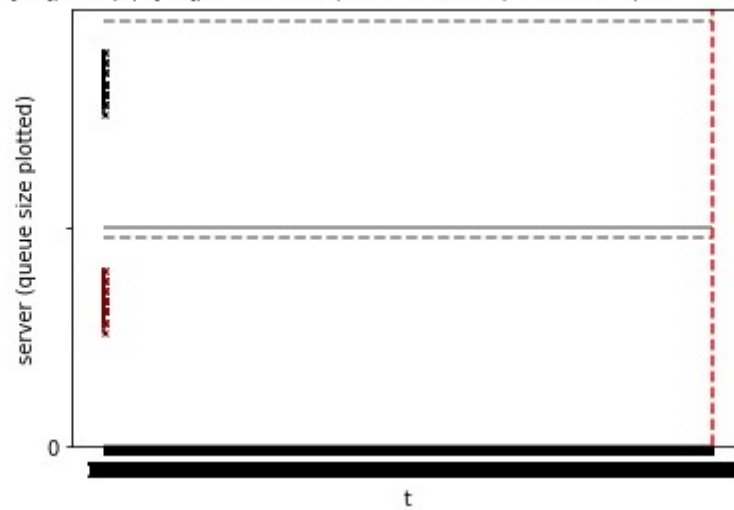

K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1313
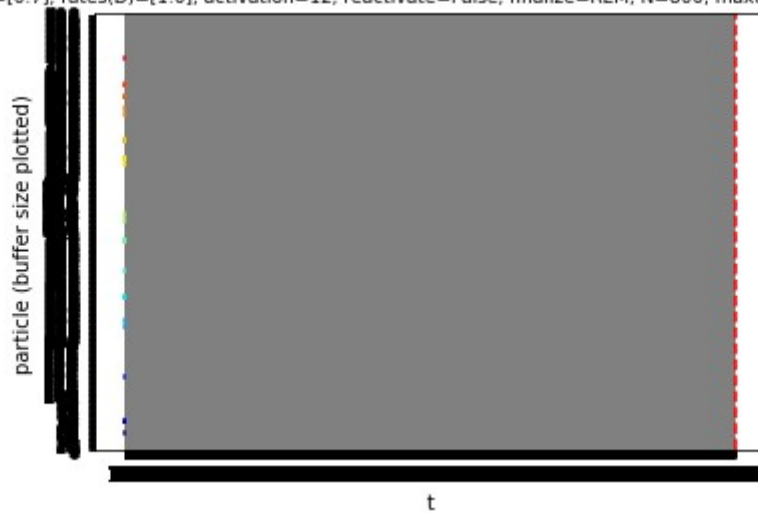
K=20, N=800, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=740.9, reactivate=True, finalize=ABS, seed=1313
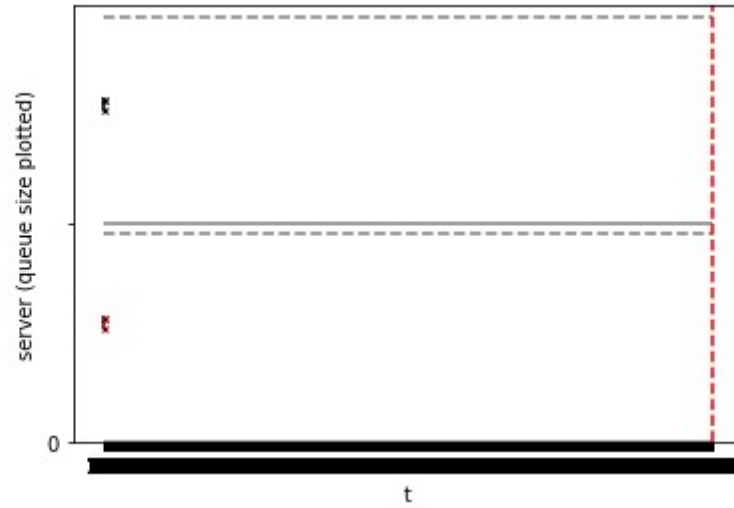

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1314

K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1314

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1315
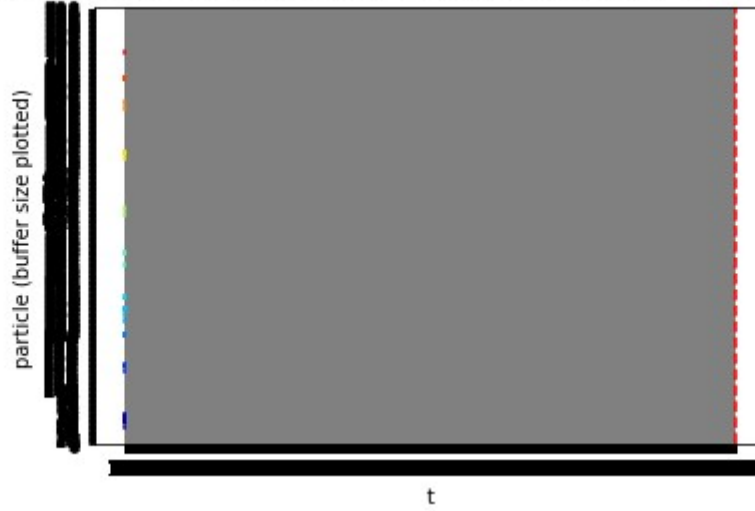

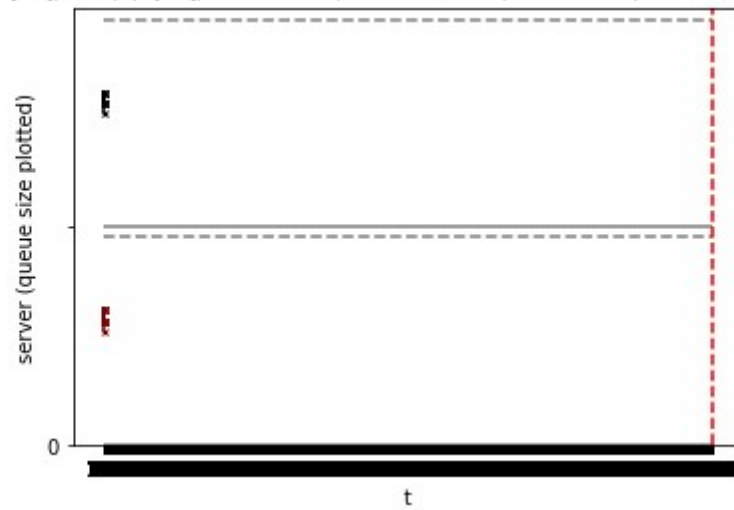K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, N=800, maxtime=57142.9, seed=1315

Particle 0: K=20, rates(B)=[0.7], rates(D)=[1.0], activation=12, reactivate=False, finalize=REM, #servers=1, maxtime=57142.9, seed=1316
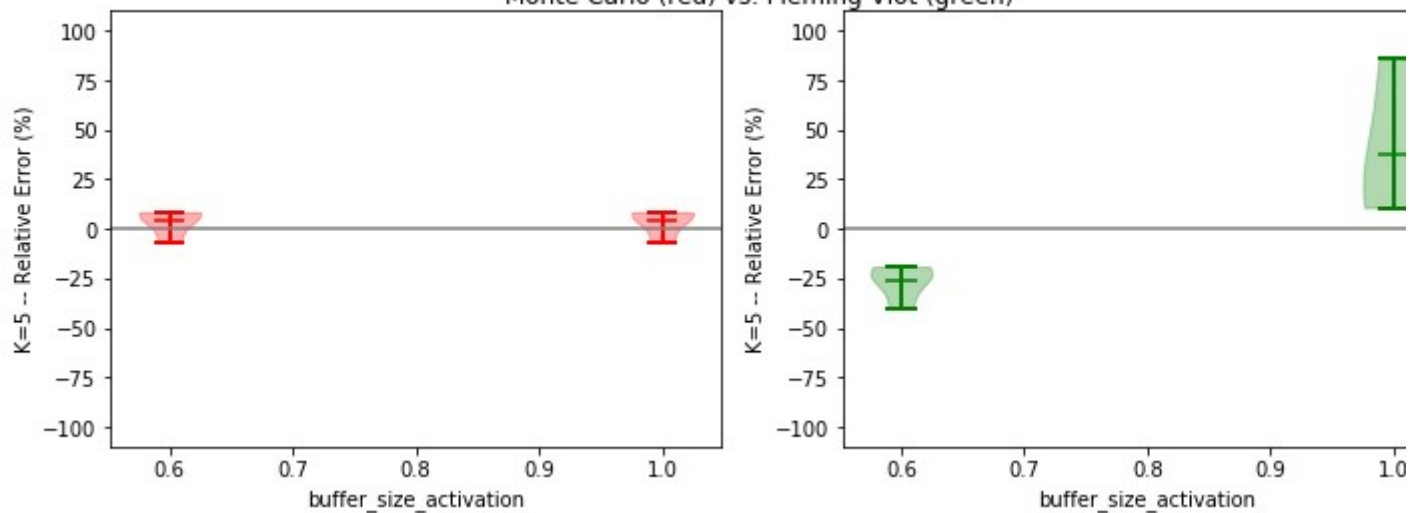
```
C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\pandas\core\groupby.py:4291: FutureWarning: using a
dict with renaming is deprecated and will be removed in a future version
  return super(DataFrameGroupBy, self).aggregate(arg, *args, **kwargs)
Ended at: 2021-04-19 14:52:29
Execution time: 147.4 min, 2.5 hours
```
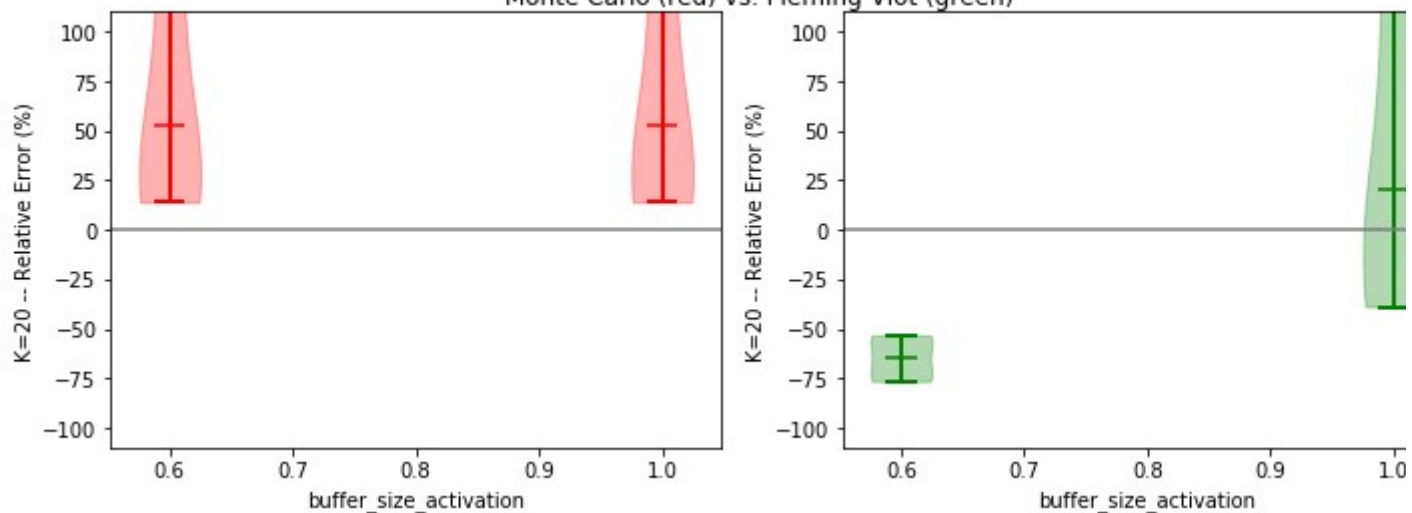
Error distribution of blocking probability estimation Pr(K=5) on 4 replications
Monte Carlo (red) vs. Fleming Viot (green)

Error distribution of blocking probability estimation Pr(K=20) on 4 replications
Monte Carlo (red) vs. Fleming Viot (green)

In [2]: