

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_20210424_122819.log' has been open for output.

Started at: 2021-04-24 12:28:19

C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\matplotlib\pyplot.py:528: RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface (`matplotlib.pyplot.figure`) are retained until explicitly closed and may consume too much memory. (To control this warning, see the rcParam `figure.max_open_warning`).

max_open_warning, RuntimeWarning)

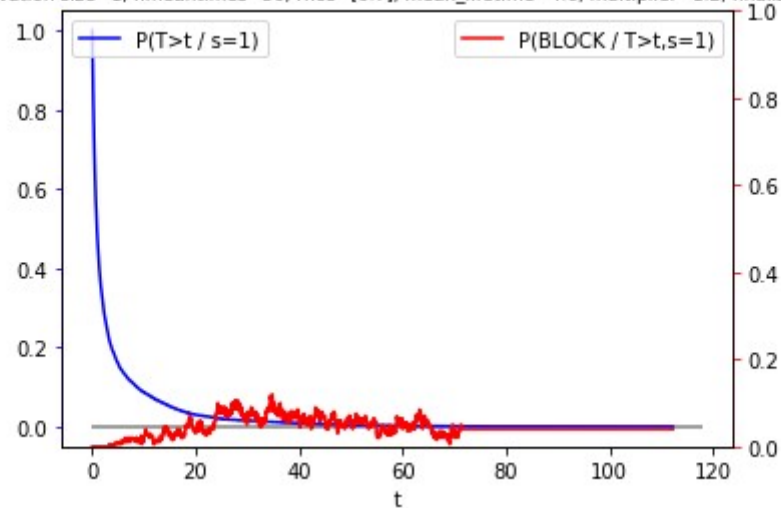
C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\pandas\core\groupby.py:4291: FutureWarning: using a dict with renaming is deprecated and will be removed in a future version

return super(DataFrameGroupBy, self).aggregate(arg, *args, **kwargs)

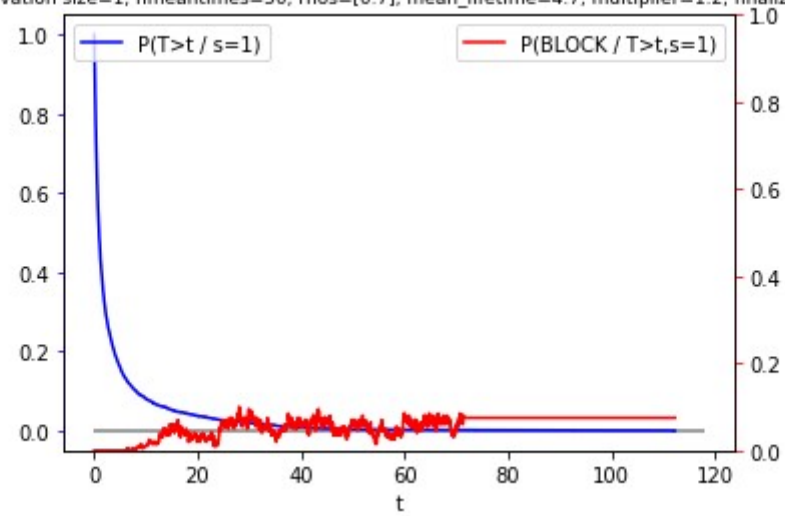
Ended at: 2021-04-24 15:11:20

Execution time: 163.0 min, 2.7 hours

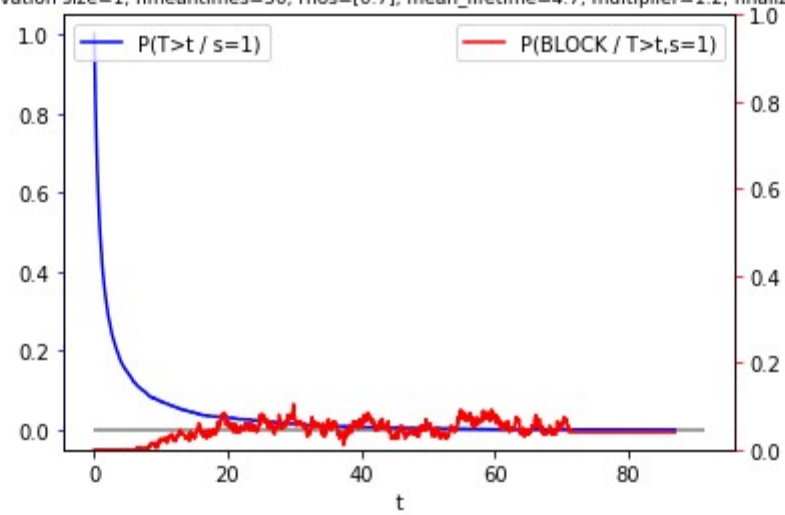
K=10, N=200, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.6, multiplier=1.2, finalize=ABS, seed=1313



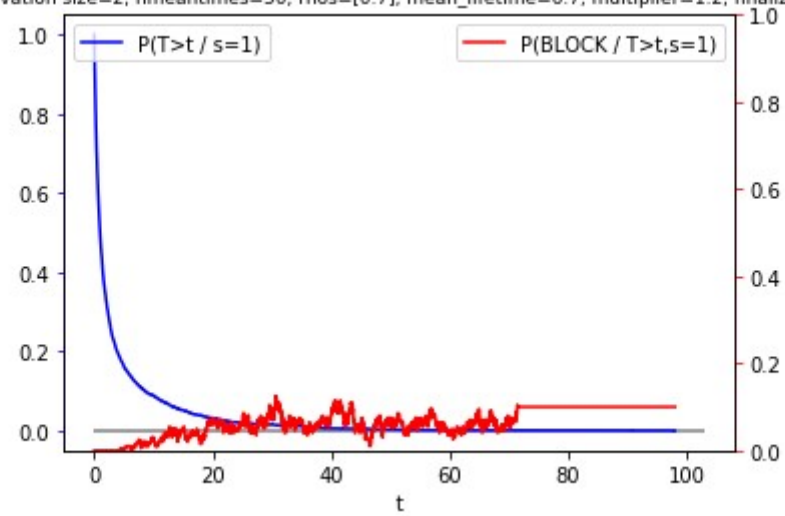
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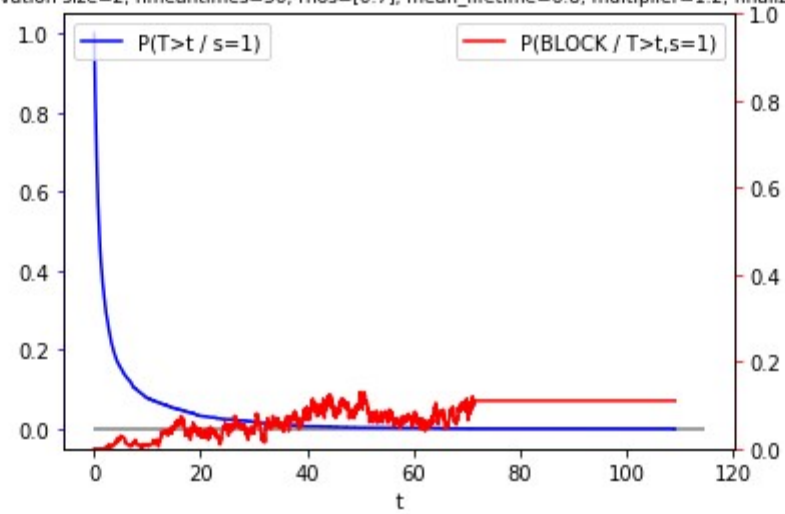
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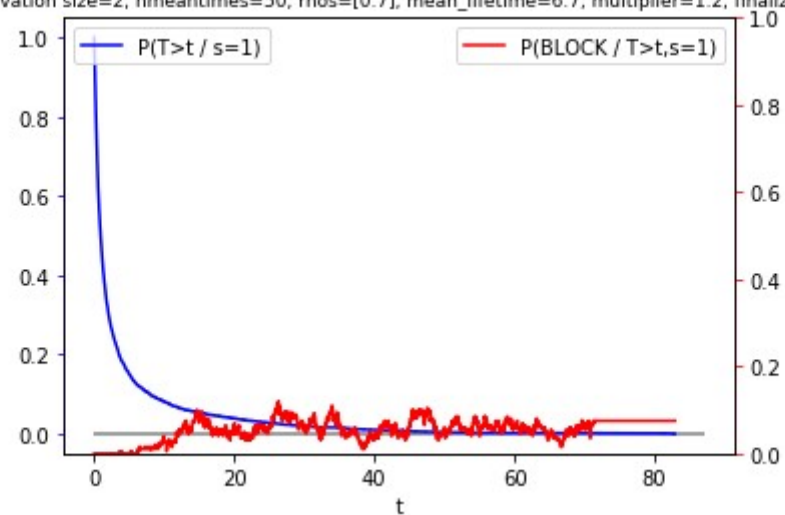
K=10, N=200, activation size=2, nmeantimes=50, rhos=[0.7], mean_lifetime=6.7, multiplier=1.2, finalize=ABS, seed=1313



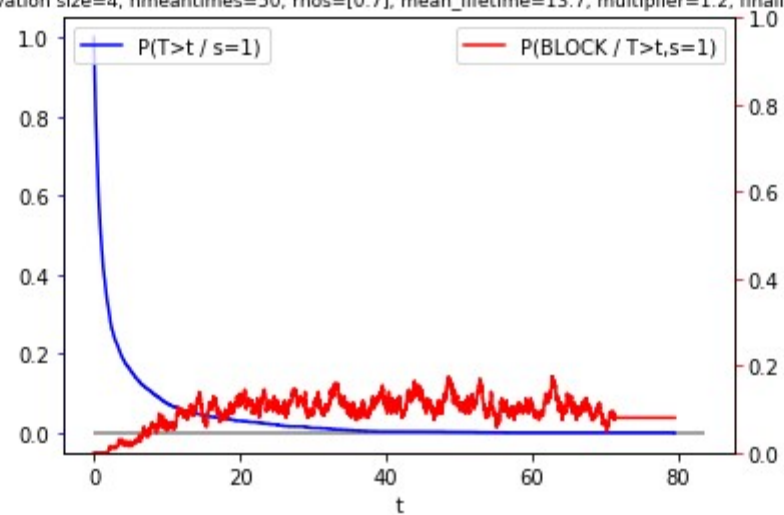
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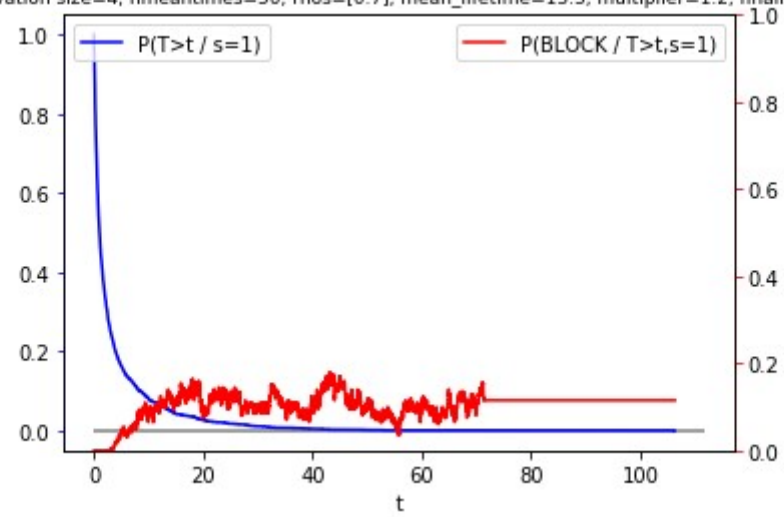
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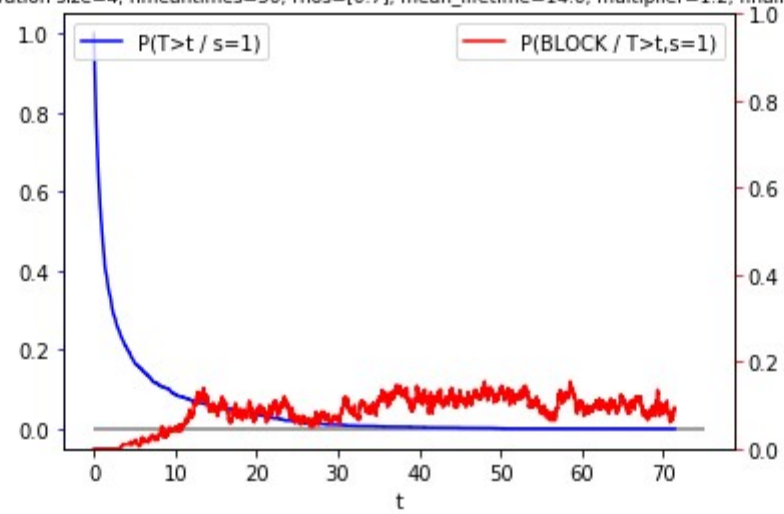
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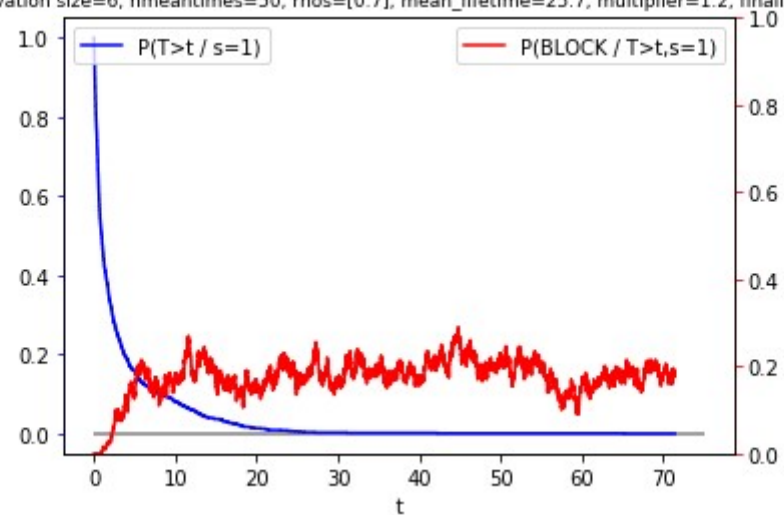
K=10, N=200, activation size=4, nmeantimes=50, rhos=[0.7], mean_lifetime=13.3, multiplier=1.2, finalize=ABS, seed=1313



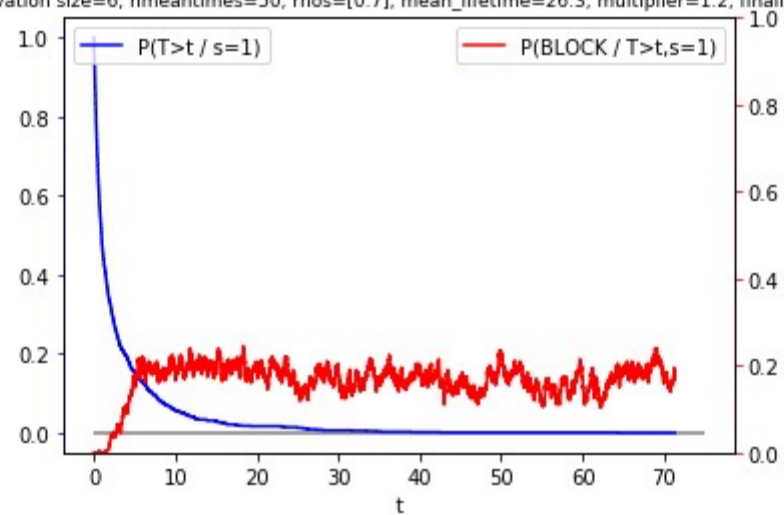
K=10, N=200, activation size=4, nmeantimes=50, rhos=[0.7], mean_lifetime=14.0, multiplier=1.2, finalize=ABS, seed=1313



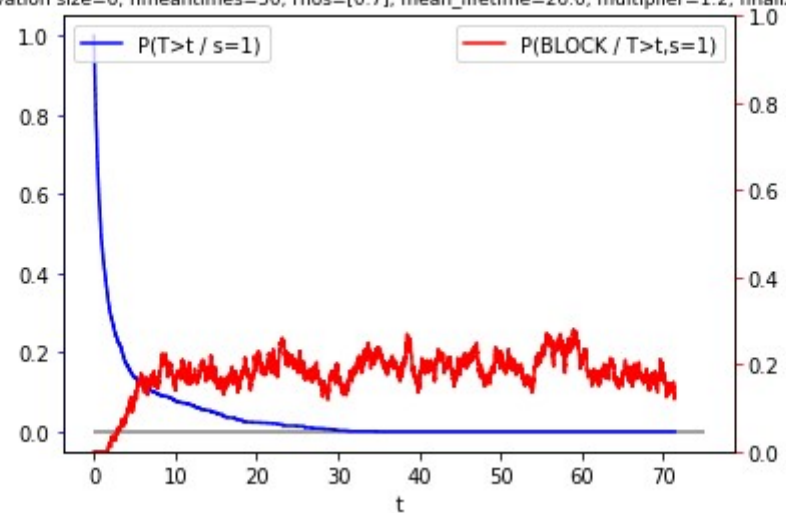
K=10, N=200, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=25.7, multiplier=1.2, finalize=ABS, seed=1313



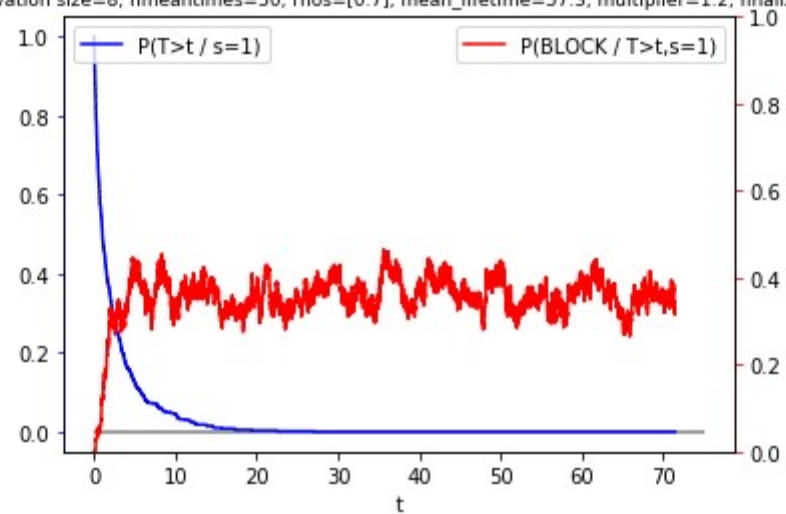
K=10, N=200, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=26.3, multiplier=1.2, finalize=ABS, seed=1313



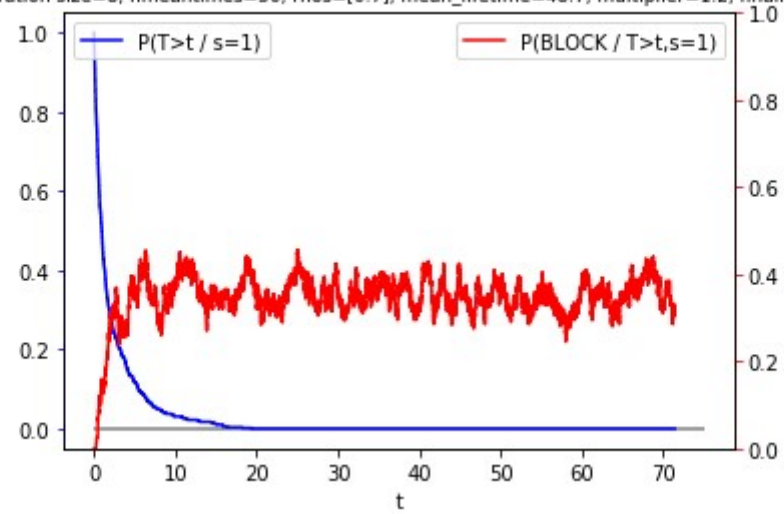
K=10, N=200, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=26.0, multiplier=1.2, finalize=ABS, seed=1313



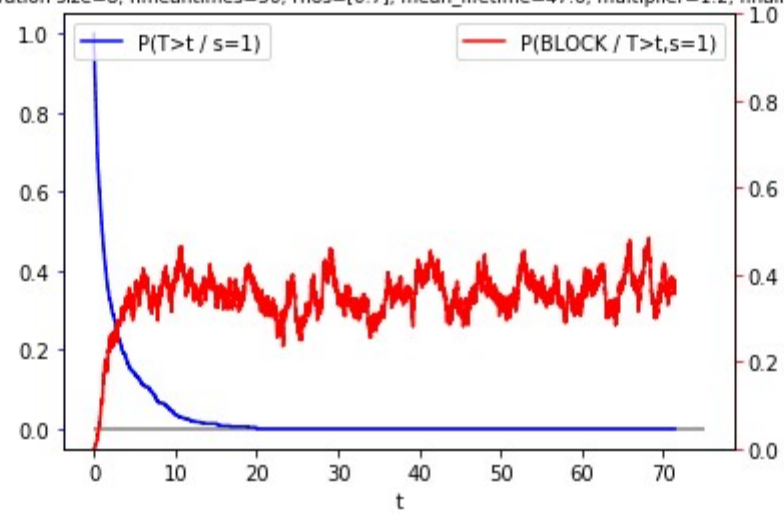
K=10, N=200, activation size=8, nmeantimes=50, rhos=[0.7], mean_lifetime=57.3, multiplier=1.2, finalize=ABS, seed=1313



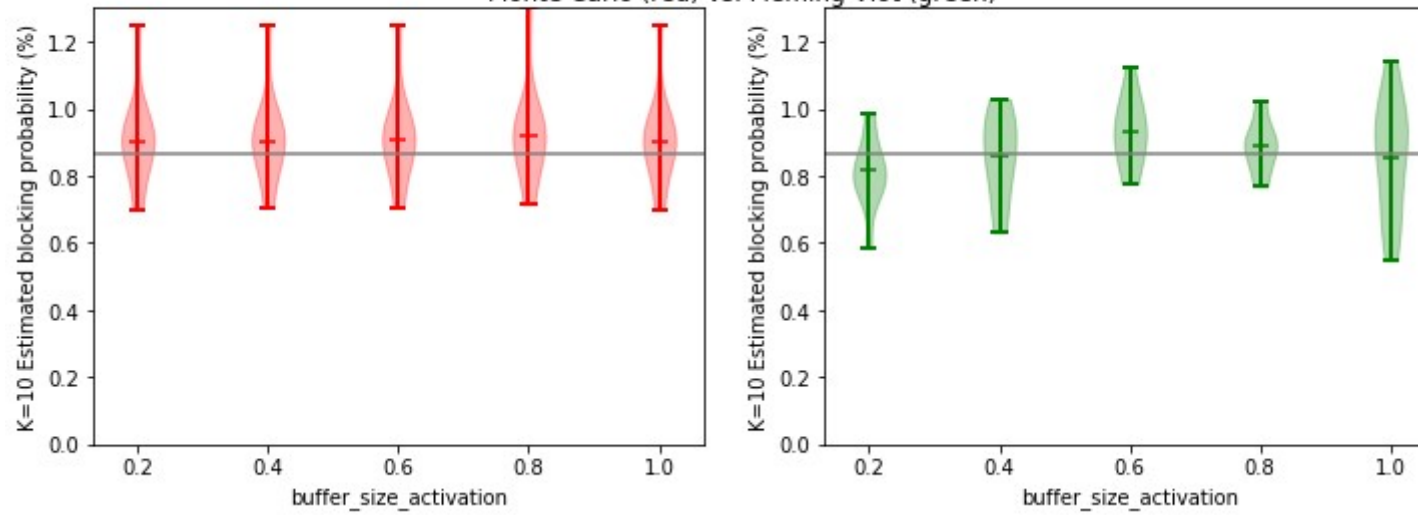
K=10, N=200, activation size=8, nmeantimes=50, rhos=[0.7], mean_lifetime=48.7, multiplier=1.2, finalize=ABS, seed=1313



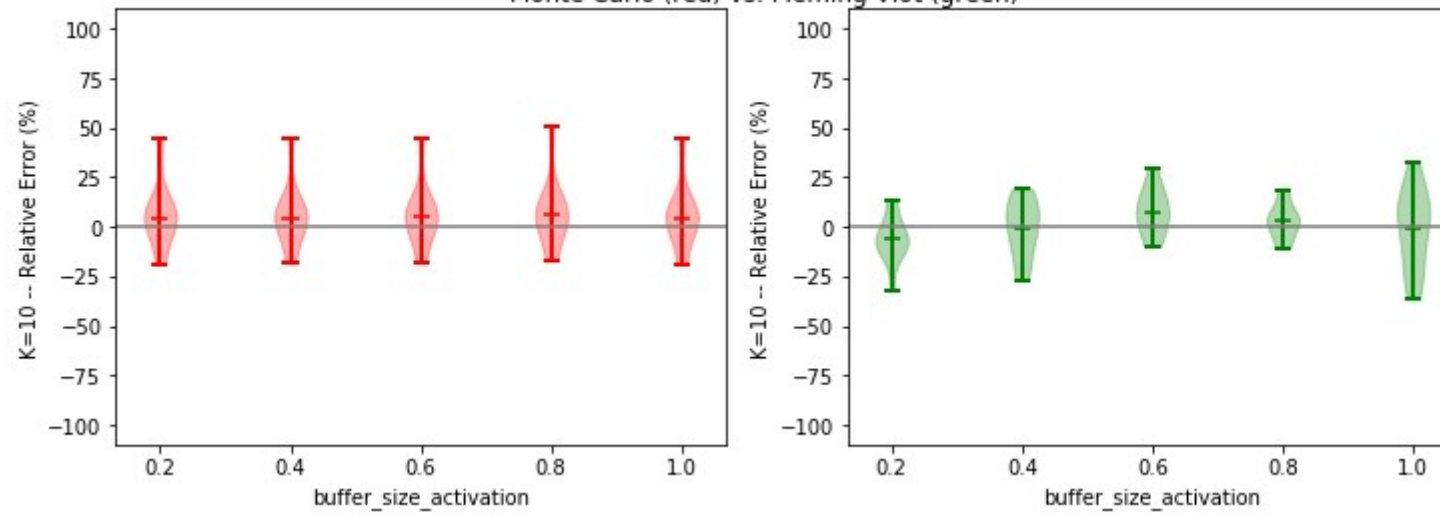
K=10, N=200, activation size=8, nmeantimes=50, rhos=[0.7], mean_lifetime=47.6, multiplier=1.2, finalize=ABS, seed=1313



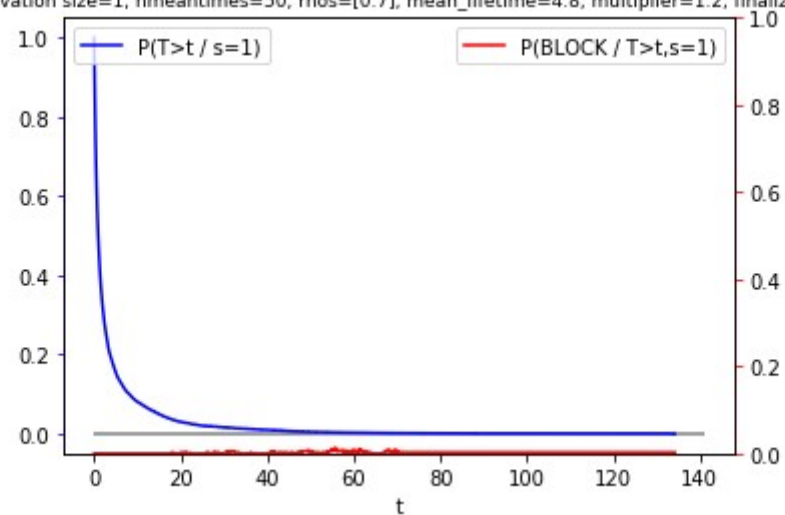
Distribution of blocking probability estimates of $\Pr(K=10) = 0.864520\%$ on 12 replications
Monte Carlo (red) vs. Fleming Viot (green)



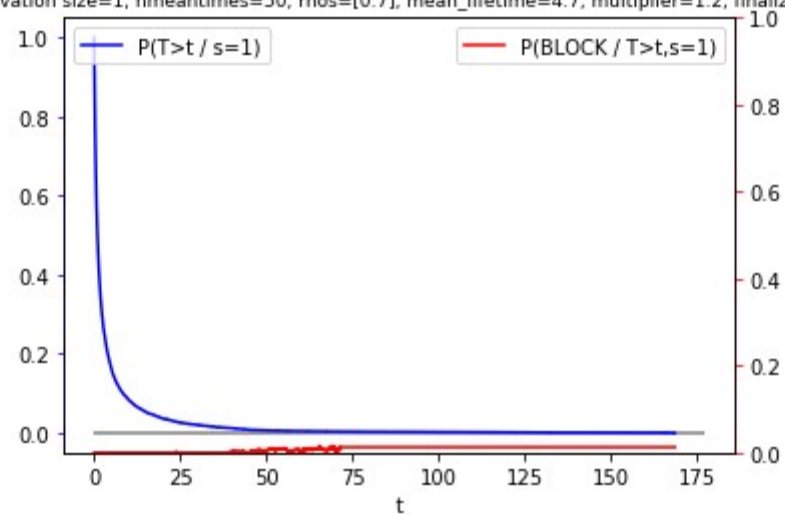
Error distribution of blocking probability estimation $\Pr(K=10)$ on 12 replications
Monte Carlo (red) vs. Fleming Viot (green)



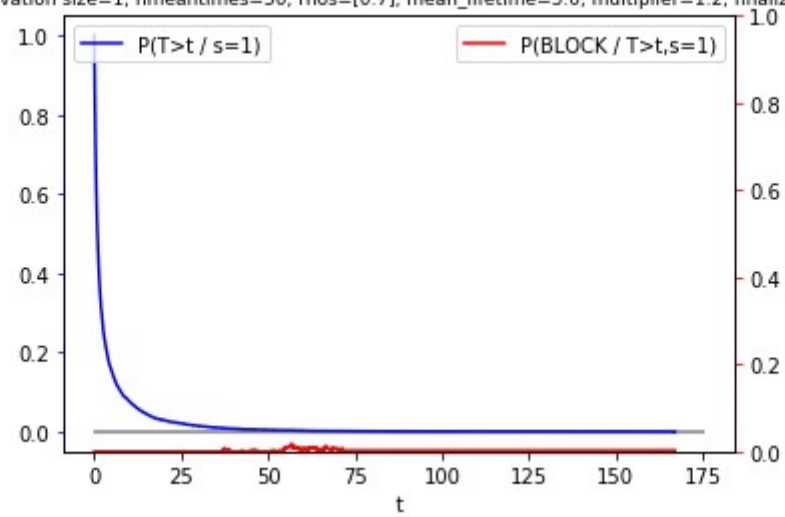
K=20, N=400, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.8, multiplier=1.2, finalize=ABS, seed=1313



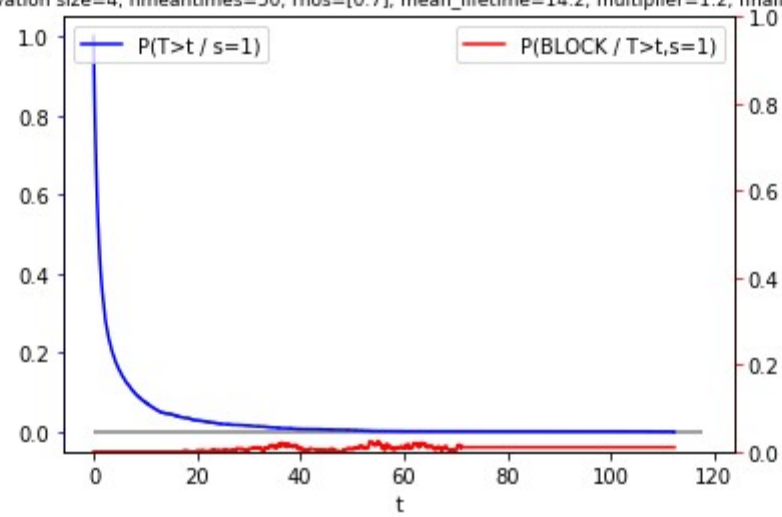
K=20, N=400, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.7, multiplier=1.2, finalize=ABS, seed=1313



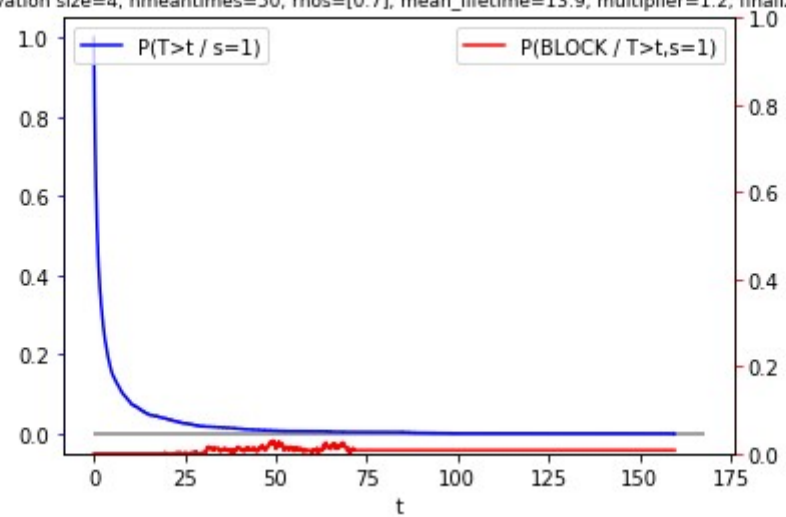
K=20, N=400, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=5.0, multiplier=1.2, finalize=ABS, seed=1313



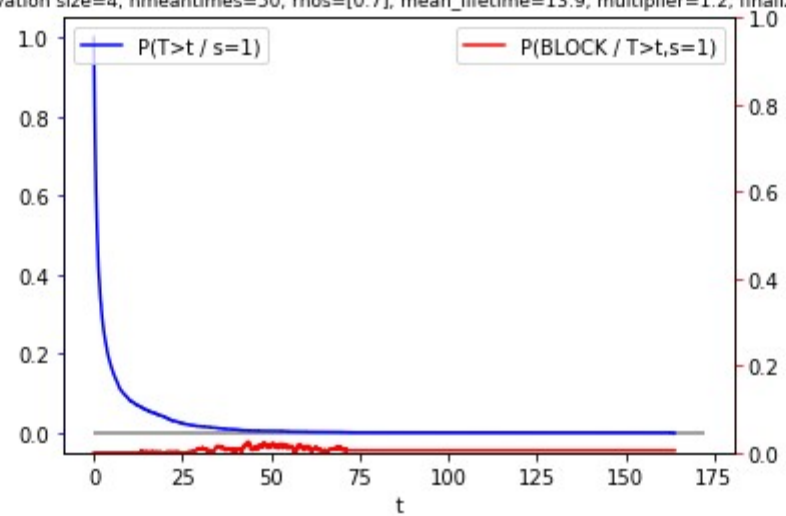
K=20, N=400, activation size=4, nmeantimes=50, rhos=[0.7], mean_lifetime=14.2, multiplier=1.2, finalize=ABS, seed=1313



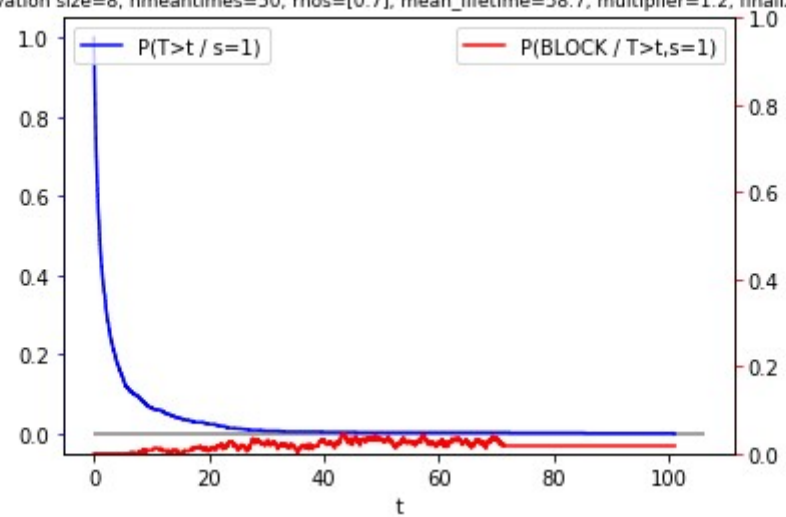
K=20, N=400, activation size=4, nmeantimes=50, rhos=[0.7], mean_lifetime=13.9, multiplier=1.2, finalize=ABS, seed=1313



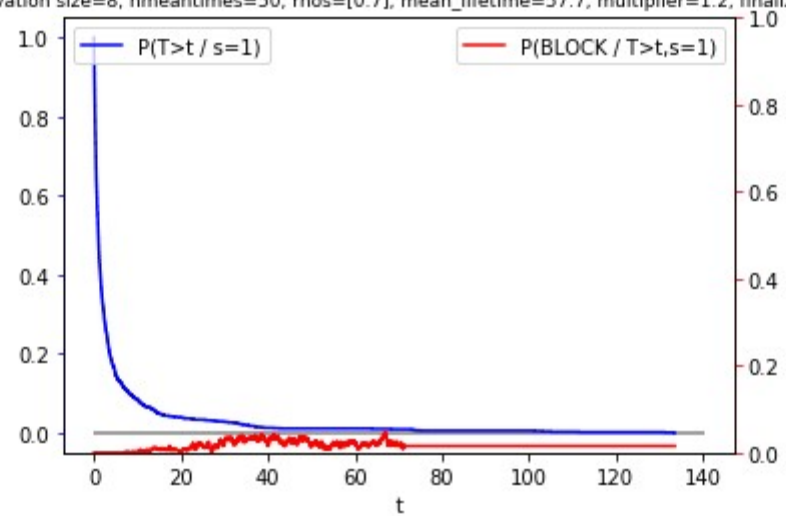
K=20, N=400, activation size=4, nmeantimes=50, rhos=[0.7], mean_lifetime=13.9, multiplier=1.2, finalize=ABS, seed=1313



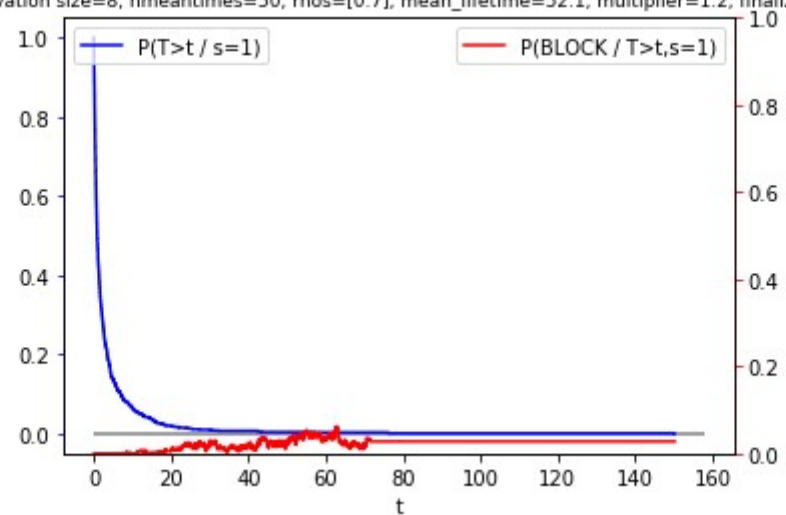
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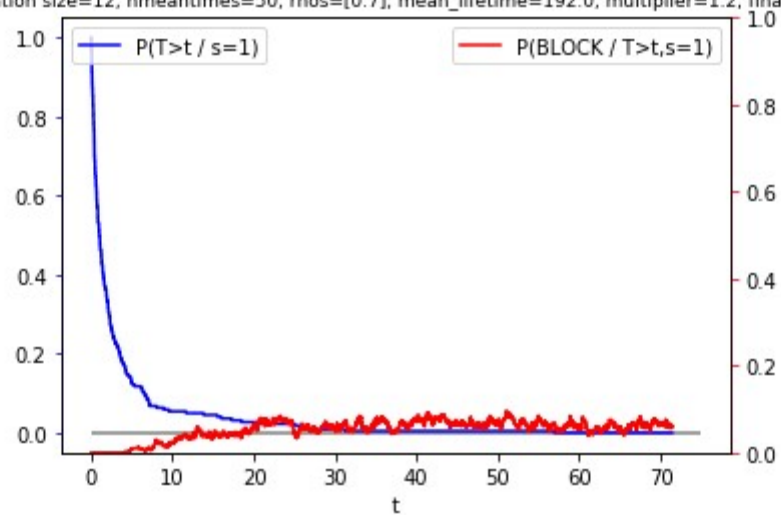
K=20, N=400, activation size=8, nmeantimes=50, rhos=[0.7], mean_lifetime=57.7, multiplier=1.2, finalize=ABS, seed=1313



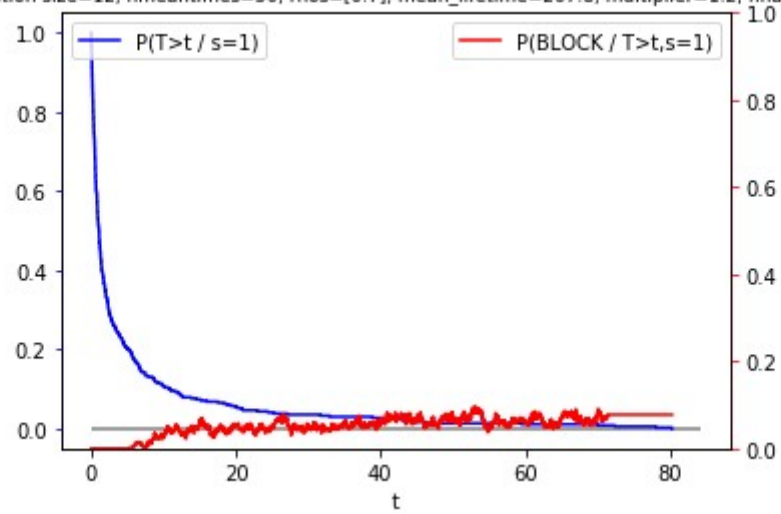
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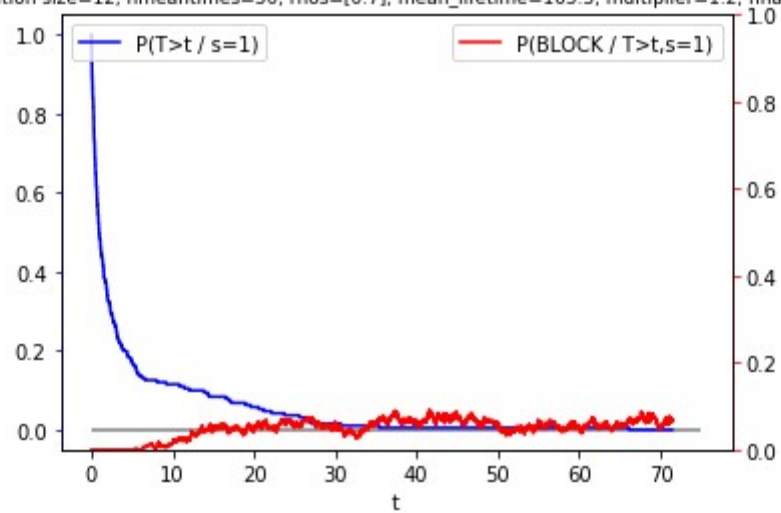
K=20, N=400, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=192.0, multiplier=1.2, finalize=ABS, seed=1313



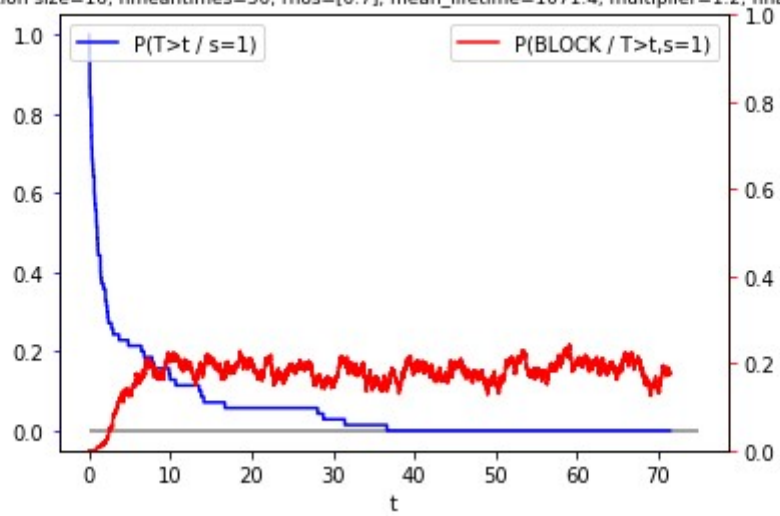
K=20, N=400, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=267.8, multiplier=1.2, finalize=ABS, seed=1313



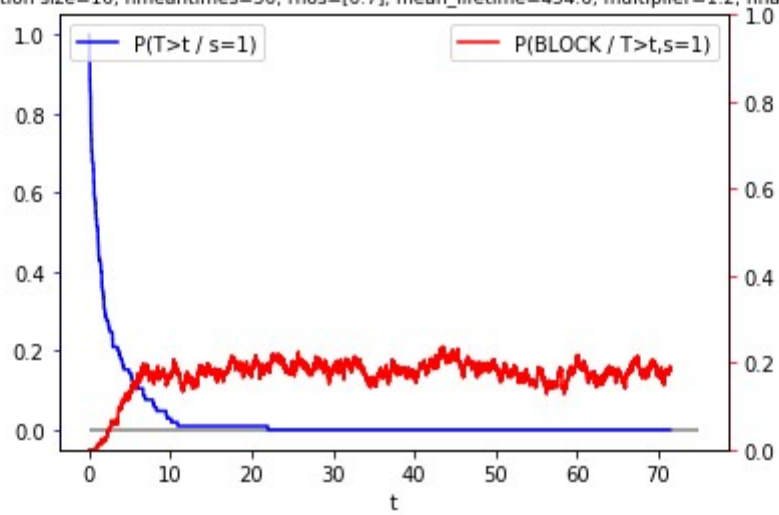
K=20, N=400, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=165.3, multiplier=1.2, finalize=ABS, seed=1313



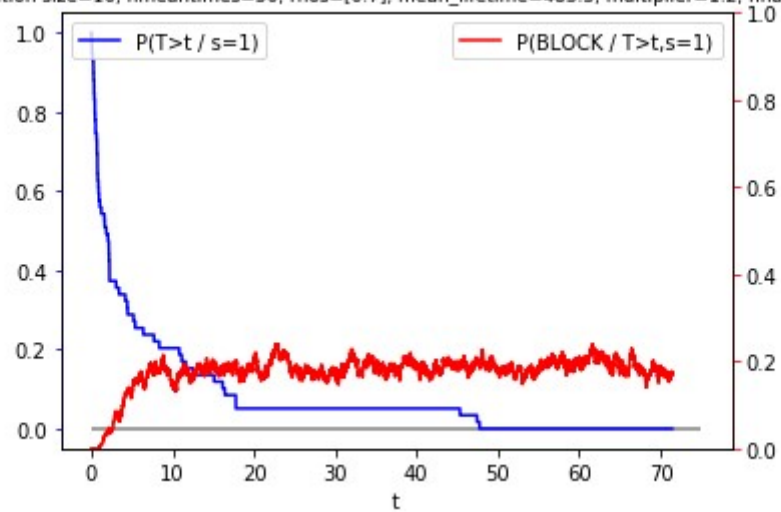
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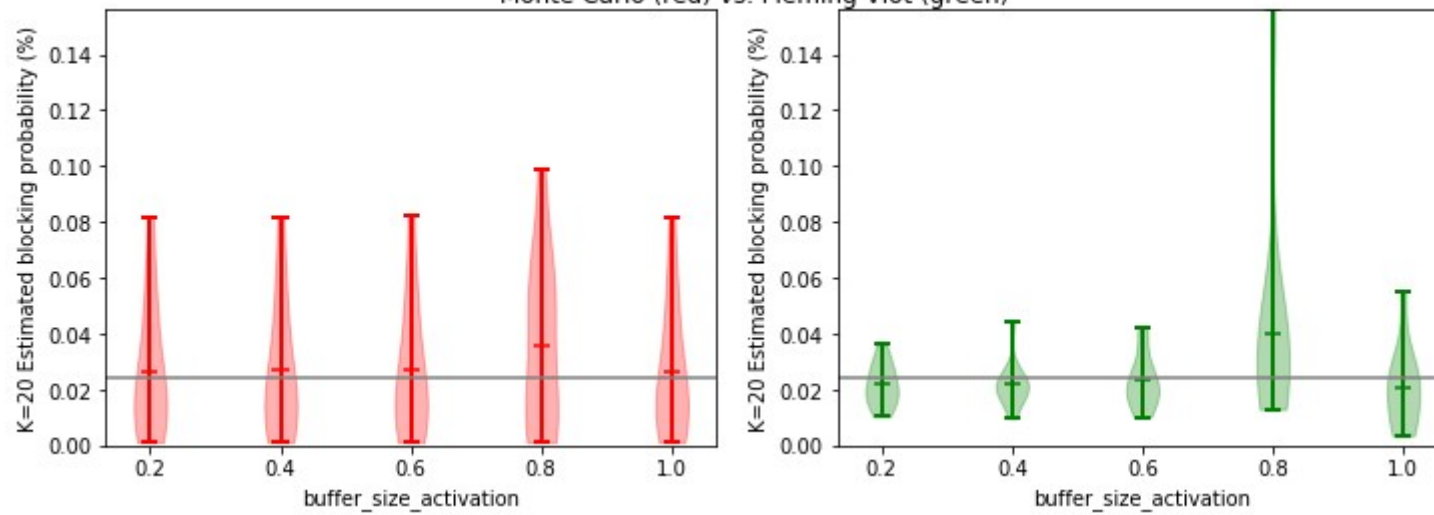
K=20, N=400, activation size=16, nmeantimes=50, rhos=[0.7], mean_lifetime=454.6, multiplier=1.2, finalize=ABS, seed=1313

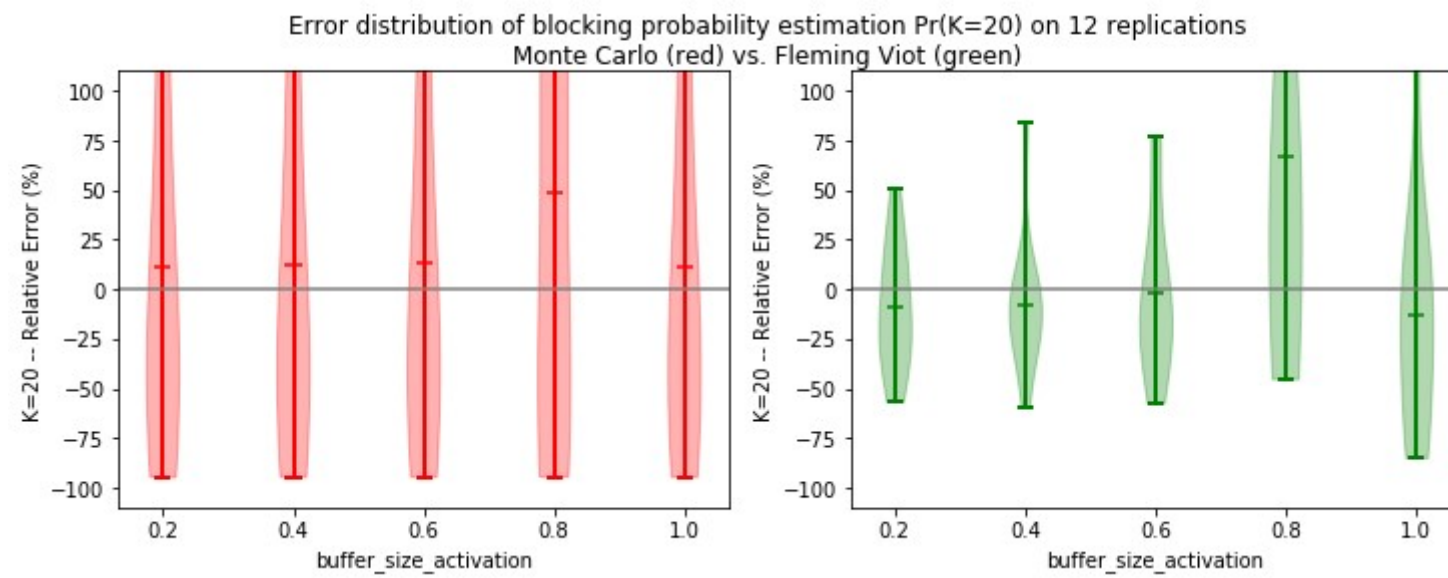


K=20, N=400, activation size=16, nmeantimes=50, rhos=[0.7], mean_lifetime=483.3, multiplier=1.2, finalize=ABS, seed=1313



Distribution of blocking probability estimates of $\Pr(K=20) = 0.023951\%$ on 12 replications
Monte Carlo (red) vs. Fleming Viot (green)





In [2]: