

Replication 4 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.7 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 4.8$)... --> 73.1 sec
 --> PMC(K)=0.066801% vs. Pr(K)=0.124693% vs. PFV1(K)=0.063018% vs. PFV2(K)=0.007936% vs.
 Pr(K)=0.124693%

Replication 5 of 8
 1) Estimating the expected survival time using NO reactivation... --> 60.5 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 5.0$)... --> 65.8 sec
 --> PMC(K)=0.169315% vs. Pr(K)=0.124693% vs. PFV1(K)=0.059960% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.124693%

Replication 6 of 8
 1) Estimating the expected survival time using NO reactivation... --> 61.2 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 4.9$)... --> 68.6 sec
 --> PMC(K)=0.068964% vs. Pr(K)=0.124693% vs. PFV1(K)=0.035888% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.124693%

Replication 7 of 8
 1) Estimating the expected survival time using NO reactivation... --> 68.8 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 5.1$)... --> 64.6 sec
 --> PMC(K)=0.242094% vs. Pr(K)=0.124693% vs. PFV1(K)=0.103481% vs. PFV2(K)=0.531168% vs.
 Pr(K)=0.124693%

Replication 8 of 8
 1) Estimating the expected survival time using NO reactivation... --> 60.7 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 5.0$)... --> 63.6 sec
 --> PMC(K)=0.085679% vs. Pr(K)=0.124693% vs. PFV1(K)=0.041370% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.124693%

--> NEW BUFFER SIZE(6)
 Computing TRUE blocking probability... --> 0.0 sec
 Pr(K)=0.124693%

--> NEW NPARTICLES (400)
 *****!!!!!!! Simulation 10 of 20 !!!!!*****
 K=20, buffer_size_activation=6, particles=400, nmeantimes=50

Replication 1 of 8
 1) Estimating the expected survival time using NO reactivation... --> 59.3 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.9$)... --> 66.7 sec
 --> PMC(K)=0.222771% vs. Pr(K)=0.124693% vs. PFV1(K)=0.045163% vs. PFV2(K)=0.370516% vs.
 Pr(K)=0.124693%

Replication 2 of 8
 1) Estimating the expected survival time using NO reactivation... --> 59.1 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.7$)... --> 62.5 sec
 --> PMC(K)=0.044004% vs. Pr(K)=0.124693% vs. PFV1(K)=0.057758% vs. PFV2(K)=0.550667% vs.
 Pr(K)=0.124693%

Replication 3 of 8
 1) Estimating the expected survival time using NO reactivation... --> 59.4 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.8$)... --> 66.5 sec
 --> PMC(K)=0.154945% vs. Pr(K)=0.124693% vs. PFV1(K)=0.121507% vs. PFV2(K)=0.740641% vs.
 Pr(K)=0.124693%

Replication 4 of 8
 1) Estimating the expected survival time using NO reactivation... --> 65.0 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.2$)... --> 65.8 sec
 --> PMC(K)=0.066838% vs. Pr(K)=0.124693% vs. PFV1(K)=0.194186% vs. PFV2(K)=1.623498% vs.
 Pr(K)=0.124693%

Replication 5 of 8
 1) Estimating the expected survival time using NO reactivation... --> 61.5 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.9$)... --> 65.1 sec
 --> PMC(K)=0.169511% vs. Pr(K)=0.124693% vs. PFV1(K)=0.076967% vs. PFV2(K)=0.569619% vs.
 Pr(K)=0.124693%

Replication 6 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.1 sec
 2) Estimating blocking probability using Fleming-Viot ($E(T) = 7.9$)... --> 69.2 sec
 --> PMC(K)=0.068966% vs. Pr(K)=0.124693% vs. PFV1(K)=0.064637% vs. PFV2(K)=0.553830% vs.
 Pr(K)=0.124693%

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Replication 7 of 8
1) Estimating the expected survival time using NO reactivation... --> 60.8 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 8.1)... --> 70.2 sec
--> PMC(K)=0.242148% vs. Pr(K)=0.124693% vs. PFV1(K)=0.067425% vs. PFV2(K)=0.393952% vs.
Pr(K)=0.124693%

Replication 8 of 8
1) Estimating the expected survival time using NO reactivation... --> 63.0 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 7.3)... --> 69.6 sec
--> PMC(K)=0.085659% vs. Pr(K)=0.124693% vs. PFV1(K)=0.082749% vs. PFV2(K)=0.679740% vs.
Pr(K)=0.124693%

--> NEW BUFFER SIZE(8)
Computing TRUE blocking probability... --> 0.0 sec
Pr(K)=0.124693%

--> NEW NPARTICLES (400)
*****!!!!!! Simulation 11 of 20 !!!!!*****
K=20, buffer_size_activation=8, particles=400, nmeantimes=50

Replication 1 of 8
1) Estimating the expected survival time using NO reactivation... --> 71.2 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 13.6)... --> 93.6 sec
--> PMC(K)=0.222790% vs. Pr(K)=0.124693% vs. PFV1(K)=0.097627% vs. PFV2(K)=1.124599% vs.
Pr(K)=0.124693%

Replication 2 of 8
1) Estimating the expected survival time using NO reactivation... --> 60.5 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 13.6)... --> 64.5 sec
--> PMC(K)=0.044040% vs. Pr(K)=0.124693% vs. PFV1(K)=0.103067% vs. PFV2(K)=1.467155% vs.
Pr(K)=0.124693%

Replication 3 of 8
1) Estimating the expected survival time using NO reactivation... --> 63.5 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 12.5)... --> 66.0 sec
--> PMC(K)=0.154960% vs. Pr(K)=0.124693% vs. PFV1(K)=0.063301% vs. PFV2(K)=1.211979% vs.
Pr(K)=0.124693%

Replication 4 of 8
1) Estimating the expected survival time using NO reactivation... --> 65.1 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 13.2)... --> 63.1 sec
--> PMC(K)=0.066868% vs. Pr(K)=0.124693% vs. PFV1(K)=0.089290% vs. PFV2(K)=0.932885% vs.
Pr(K)=0.124693%

Replication 5 of 8
1) Estimating the expected survival time using NO reactivation... --> 59.0 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 13.9)... --> 66.4 sec
--> PMC(K)=0.169528% vs. Pr(K)=0.124693% vs. PFV1(K)=0.103019% vs. PFV2(K)=1.232434% vs.
Pr(K)=0.124693%

Replication 6 of 8
1) Estimating the expected survival time using NO reactivation... --> 59.8 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 12.7)... --> 64.7 sec
--> PMC(K)=0.069123% vs. Pr(K)=0.124693% vs. PFV1(K)=0.108250% vs. PFV2(K)=1.203228% vs.
Pr(K)=0.124693%

Replication 7 of 8
1) Estimating the expected survival time using NO reactivation... --> 57.6 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 13.1)... --> 61.6 sec
--> PMC(K)=0.242584% vs. Pr(K)=0.124693% vs. PFV1(K)=0.148462% vs. PFV2(K)=1.760170% vs.
Pr(K)=0.124693%

Replication 8 of 8
1) Estimating the expected survival time using NO reactivation... --> 72.9 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 12.5)... --> 77.7 sec
--> PMC(K)=0.085661% vs. Pr(K)=0.124693% vs. PFV1(K)=0.128562% vs. PFV2(K)=1.830047% vs.
Pr(K)=0.124693%

--> NEW BUFFER SIZE(10)
Computing TRUE blocking probability... --> 0.0 sec
Pr(K)=0.124693%

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---> NEW NPARTICLES (400)
*****!!!!!!! Simulation 12 of 20 !!!!!*****
K=20, buffer_size_activation=10, particles=400, nmeantimes=50

Replication 1 of 8
1) Estimating the expected survival time using NO reactivation... --> 65.7 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 23.0)... --> 74.2 sec
--> PMC(K)=0.223289% vs. Pr(K)=0.124693% vs. PFV1(K)=0.099379% vs. PFV2(K)=1.212602% vs.
Pr(K)=0.124693%

Replication 2 of 8
1) Estimating the expected survival time using NO reactivation... --> 77.6 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 22.7)... --> 70.7 sec
--> PMC(K)=0.044139% vs. Pr(K)=0.124693% vs. PFV1(K)=0.133858% vs. PFV2(K)=1.451900% vs.
Pr(K)=0.124693%

Replication 3 of 8
1) Estimating the expected survival time using NO reactivation... --> 68.0 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 22.3)... --> 76.9 sec
--> PMC(K)=0.154972% vs. Pr(K)=0.124693% vs. PFV1(K)=0.116716% vs. PFV2(K)=1.497926% vs.
Pr(K)=0.124693%

Replication 4 of 8
1) Estimating the expected survival time using NO reactivation... --> 84.3 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 24.8)... --> 77.6 sec
--> PMC(K)=0.066873% vs. Pr(K)=0.124693% vs. PFV1(K)=0.121797% vs. PFV2(K)=1.274678% vs.
Pr(K)=0.124693%

Replication 5 of 8
1) Estimating the expected survival time using NO reactivation... --> 77.4 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 24.3)... --> 77.8 sec
--> PMC(K)=0.170236% vs. Pr(K)=0.124693% vs. PFV1(K)=0.128356% vs. PFV2(K)=1.152981% vs.
Pr(K)=0.124693%

Replication 6 of 8
1) Estimating the expected survival time using NO reactivation... --> 69.8 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 21.7)... --> 82.0 sec
--> PMC(K)=0.069234% vs. Pr(K)=0.124693% vs. PFV1(K)=0.144814% vs. PFV2(K)=1.240077% vs.
Pr(K)=0.124693%

Replication 7 of 8
1) Estimating the expected survival time using NO reactivation... --> 70.6 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 23.6)... --> 77.7 sec
--> PMC(K)=0.242594% vs. Pr(K)=0.124693% vs. PFV1(K)=0.161615% vs. PFV2(K)=1.192351% vs.
Pr(K)=0.124693%

Replication 8 of 8
1) Estimating the expected survival time using NO reactivation... --> 83.2 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 23.7)... --> 96.5 sec
--> PMC(K)=0.085651% vs. Pr(K)=0.124693% vs. PFV1(K)=0.148928% vs. PFV2(K)=1.469704% vs.
Pr(K)=0.124693%

---> NEW K (Queue's capacity = 40)

---> NEW BUFFER SIZE(1)
Computing TRUE blocking probability... --> 0.3 sec
Pr(K)=0.000394%

---> NEW NPARTICLES (400)
*****!!!!!!! Simulation 13 of 20 !!!!!*****
K=40, buffer_size_activation=1, particles=400, nmeantimes=50

Replication 1 of 8
1) Estimating the expected survival time using NO reactivation... --> 72.2 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 6.7)... --> 77.1 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 2 of 8
1) Estimating the expected survival time using NO reactivation... --> 61.0 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 6.7)... --> 74.8 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

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Replication 3 of 8
 1) Estimating the expected survival time using NO reactivation... --> 65.3 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.8)... --> 70.1 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 4 of 8
 1) Estimating the expected survival time using NO reactivation... --> 60.2 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.8)... --> 66.3 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 5 of 8
 1) Estimating the expected survival time using NO reactivation... --> 92.5 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.4)... --> 118.1 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 6 of 8
 1) Estimating the expected survival time using NO reactivation... --> 77.7 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.8)... --> 86.1 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 7 of 8
 1) Estimating the expected survival time using NO reactivation... --> 89.0 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.8)... --> 132.3 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 8 of 8
 1) Estimating the expected survival time using NO reactivation... --> 81.9 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 6.8)... --> 65.4 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

--> NEW BUFFER SIZE(8)
 Computing TRUE blocking probability... --> 0.2 sec
 Pr(K)=0.000394%

--> NEW NPARTICLES (400)
 *****!!!!!!! Simulation 14 of 20 !!!!!*****
 K=40, buffer_size_activation=8, particles=400, nmeantimes=50

Replication 1 of 8
 1) Estimating the expected survival time using NO reactivation... --> 61.2 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 13.8)... --> 62.6 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 2 of 8
 1) Estimating the expected survival time using NO reactivation... --> 73.6 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 13.7)... --> 63.9 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000004% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 3 of 8
 1) Estimating the expected survival time using NO reactivation... --> 58.5 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 12.5)... --> 62.2 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000037% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 4 of 8
 1) Estimating the expected survival time using NO reactivation... --> 60.9 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 13.3)... --> 64.5 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 5 of 8
 1) Estimating the expected survival time using NO reactivation... --> 60.5 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 13.9)... --> 62.1 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000022% vs. PFV2(K)=0.000000% vs.

Pr(K)=0.000394%

Replication 6 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.7 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 12.9)... --> 62.2 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 7 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.2 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 13.3)... --> 61.9 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 8 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 57.5 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 12.5)... --> 62.7 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000005% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

--> NEW BUFFER SIZE(12)
Computing TRUE blocking probability... --> 0.3 sec
Pr(K)=0.000394%

--> NEW NPARTICLES (400)
*****!!!!!! Simulation 15 of 20 !!!!!*****
K=40, buffer_size_activation=12, particles=400, nmeantimes=50

Replication 1 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.9 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 38.3)... --> 65.2 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000005% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 2 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 60.1 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 38.1)... --> 61.3 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000076% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 3 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.0 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 35.5)... --> 62.3 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000000% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 4 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.4 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 46.4)... --> 61.7 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000106% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 5 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 57.1 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 43.9)... --> 60.5 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000002% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 6 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.6 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 39.7)... --> 63.0 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000072% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 7 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 58.2 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 38.1)... --> 61.6 sec

--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000022% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 8 of 8

- 1) Estimating the expected survival time using NO reactivation... --> 57.7 sec
- 2) Estimating blocking probability using Fleming-Viot (E(T) = 45.6)... --> 62.2 sec

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--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000003% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

--> NEW BUFFER SIZE(16)
Computing TRUE blocking probability... --> 0.2 sec
Pr(K)=0.000394%

--> NEW NPARTICLES (400)
*****!!!!!!! Simulation 16 of 20 !!!!!*****
K=40, buffer_size_activation=16, particles=400, nmeantimes=50

Replication 1 of 8
1) Estimating the expected survival time using NO reactivation... --> 59.8 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 88.8)... --> 62.0 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000185% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 2 of 8
1) Estimating the expected survival time using NO reactivation... --> 57.5 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 107.5)... --> 61.0 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000044% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 3 of 8
1) Estimating the expected survival time using NO reactivation... --> 58.4 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 120.9)... --> 64.5 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000075% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 4 of 8
1) Estimating the expected survival time using NO reactivation... --> 58.9 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 152.1)... --> 63.7 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000142% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 5 of 8
1) Estimating the expected survival time using NO reactivation... --> 61.1 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 136.5)... --> 66.4 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000022% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 6 of 8
1) Estimating the expected survival time using NO reactivation... --> 62.1 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 121.8)... --> 66.9 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000362% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 7 of 8
1) Estimating the expected survival time using NO reactivation... --> 61.7 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 93.5)... --> 63.9 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000162% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

Replication 8 of 8
1) Estimating the expected survival time using NO reactivation... --> 62.1 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 150.9)... --> 67.0 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000110% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

--> NEW BUFFER SIZE(20)
Computing TRUE blocking probability... --> 0.2 sec
Pr(K)=0.000394%

--> NEW NPARTICLES (400)
*****!!!!!!! Simulation 17 of 20 !!!!!*****
K=40, buffer_size_activation=20, particles=400, nmeantimes=50

Replication 1 of 8
1) Estimating the expected survival time using NO reactivation... --> 61.3 sec
2) Estimating blocking probability using Fleming-Viot (E(T) = 362.0)... --> 64.1 sec
--> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000191% vs. PFV2(K)=0.000000% vs.
Pr(K)=0.000394%

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Replication 2 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.2 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 750.5)... --> 67.1 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000080% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 3 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.7 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 313.8)... --> 66.5 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000090% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 4 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.8 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 856.5)... --> 70.3 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000047% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 5 of 8
 1) Estimating the expected survival time using NO reactivation... --> 70.1 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 379.7)... --> 66.7 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000098% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 6 of 8
 1) Estimating the expected survival time using NO reactivation... --> 63.4 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 495.4)... --> 66.8 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000228% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 7 of 8
 1) Estimating the expected survival time using NO reactivation... --> 70.6 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 293.2)... --> 66.0 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000266% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Replication 8 of 8
 1) Estimating the expected survival time using NO reactivation... --> 62.0 sec
 2) Estimating blocking probability using Fleming-Viot (E(T) = 832.7)... --> 66.3 sec
 --> PMC(K)=0.000000% vs. Pr(K)=0.000394% vs. PFV1(K)=0.000052% vs. PFV2(K)=0.000000% vs.
 Pr(K)=0.000394%

Top and bottom 5 records in the results data frame:

	E(T)	K	PFV1(K)	PFV2(K)	PMC(K)	Pr(K)	\
1	4.906411	5.0	0.102876	0.249326	0.119261	0.119875	
2	4.922706	5.0	0.088311	0.260383	0.118891	0.119875	
3	4.986134	5.0	0.099119	0.244629	0.120777	0.119875	
4	5.014999	5.0	0.100563	0.261759	0.118346	0.119875	
5	4.723236	5.0	0.093723	0.306693	0.115655	0.119875	

	buffer_size_activation	buffer_size_activation_value	integral	nmeantimes	\
1	1.0	1.0	0.504750	50.0	
2	1.0	1.0	0.434728	50.0	
3	1.0	1.0	0.494221	50.0	
4	1.0	1.0	0.504322	50.0	
5	1.0	1.0	0.442677	50.0	

	nparticles	rep	seed
1	400.0	1.0	1717.0
2	400.0	2.0	1718.0
3	400.0	3.0	1719.0
4	400.0	4.0	1720.0
5	400.0	5.0	1721.0

	E(T)	K	PFV1(K)	PFV2(K)	PMC(K)	Pr(K)	\
132	856.521705	40.0	4.749205e-07	0.0	0.0	0.000004	
133	379.714346	40.0	9.829498e-07	0.0	0.0	0.000004	
134	495.391615	40.0	2.281541e-06	0.0	0.0	0.000004	
135	293.159243	40.0	2.664488e-06	0.0	0.0	0.000004	
136	832.731256	40.0	5.239287e-07	0.0	0.0	0.000004	

	buffer_size_activation	buffer_size_activation_value	integral	\
132	0.5	20.0	0.000407	
133	0.5	20.0	0.000373	
134	0.5	20.0	0.001130	

```

135             0.5                20.0  0.000781
136             0.5                20.0  0.000436

```

```

      nmeantimes  nparticles  rep  seed
132         50.0        400.0  4.0 1720.0
133         50.0        400.0  5.0 1721.0
134         50.0        400.0  6.0 1722.0
135         50.0        400.0  7.0 1723.0
136         50.0        400.0  8.0 1724.0

```

Execution time: 299.9 min

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)

```

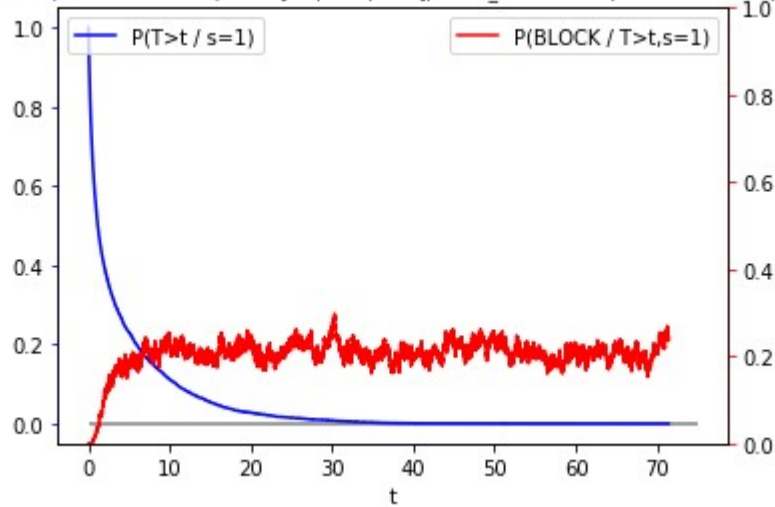
C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\matplotlib\pyplot.py:528: RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface (`matplotlib.pyplot.figure`) are retained until explicitly closed and may consume too much memory. (To control this warning,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

```

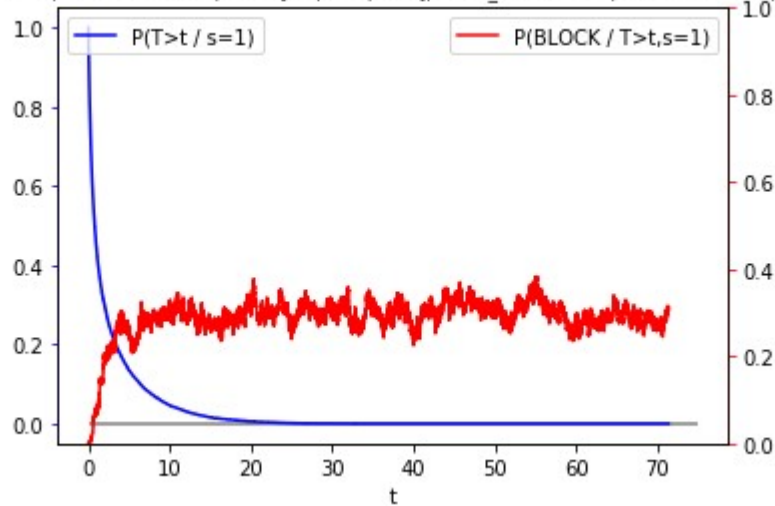
    max_open_warning, RuntimeWarning)

```

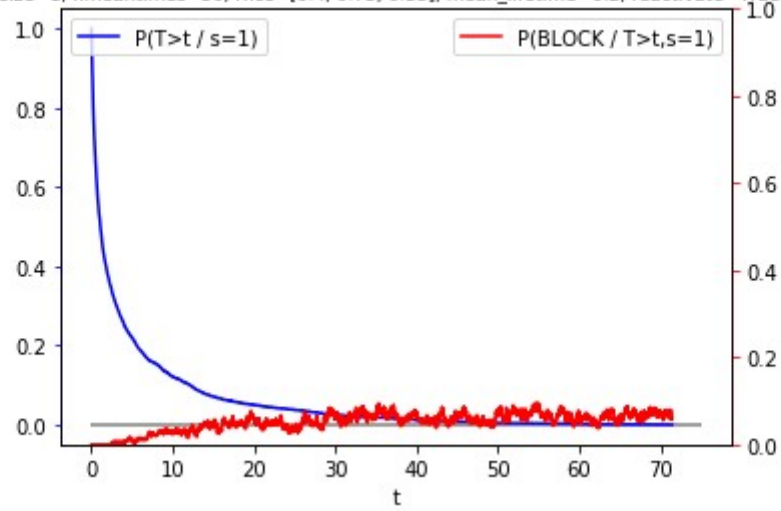
K=5, N=400, activation size=1, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=4.9, reactivate=True, finalize=ABS, seed=1717



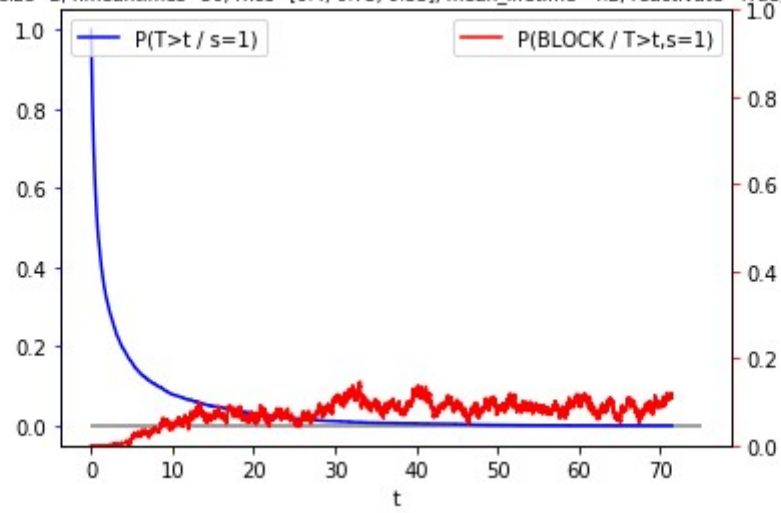
K=5, N=400, activation size=2, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=3.3, reactivate=True, finalize=ABS, seed=1717



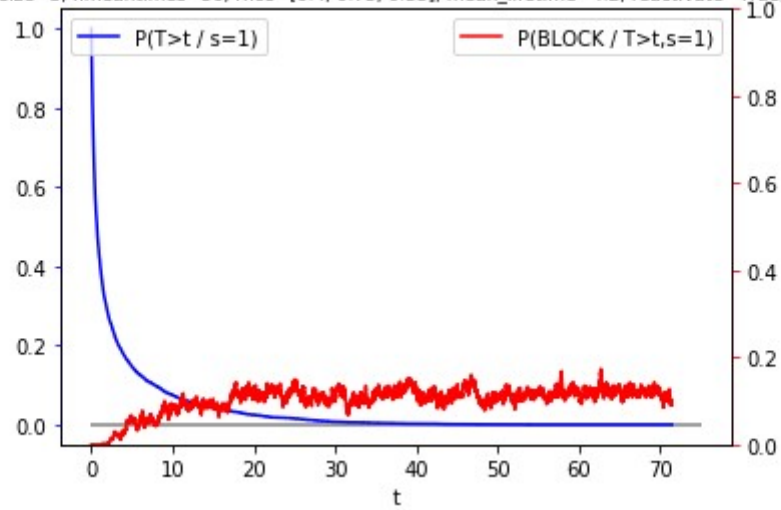
K=10, N=400, activation size=1, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=6.2, reactivate=True, finalize=ABS, seed=1717



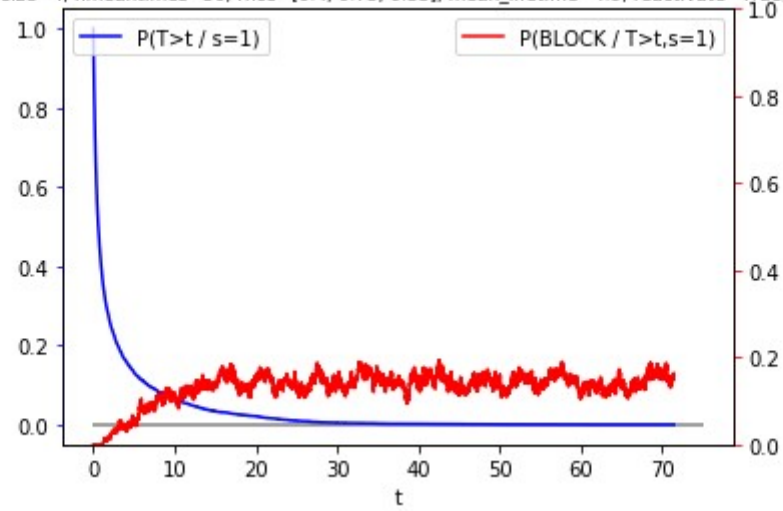
K=10, N=400, activation size=2, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=4.2, reactivate=True, finalize=ABS, seed=1717



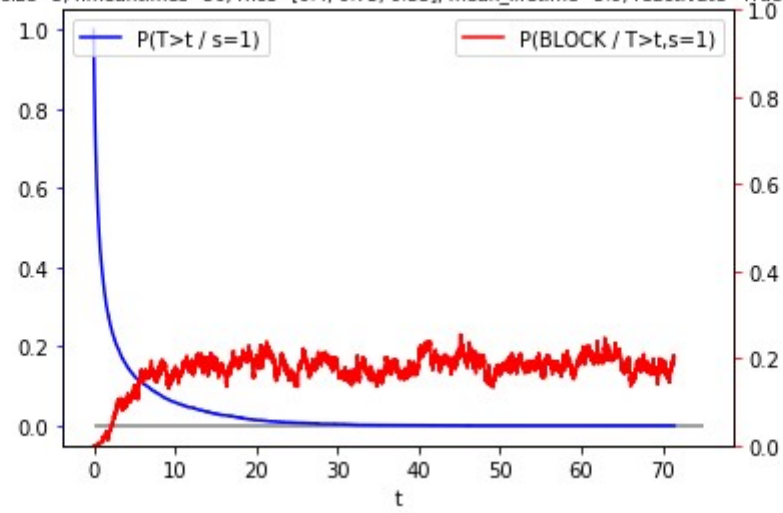
K=10, N=400, activation size=3, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=4.2, reactivate=True, finalize=ABS, seed=1717



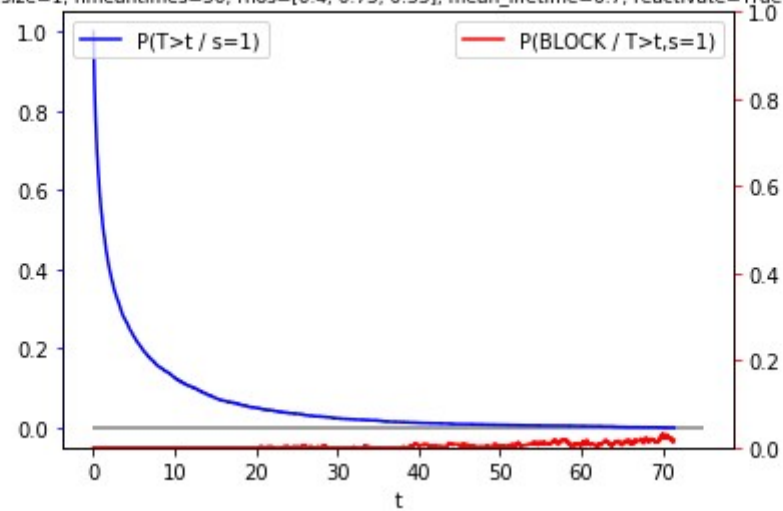
K=10, N=400, activation size=4, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=4.9, reactivate=True, finalize=ABS, seed=1717



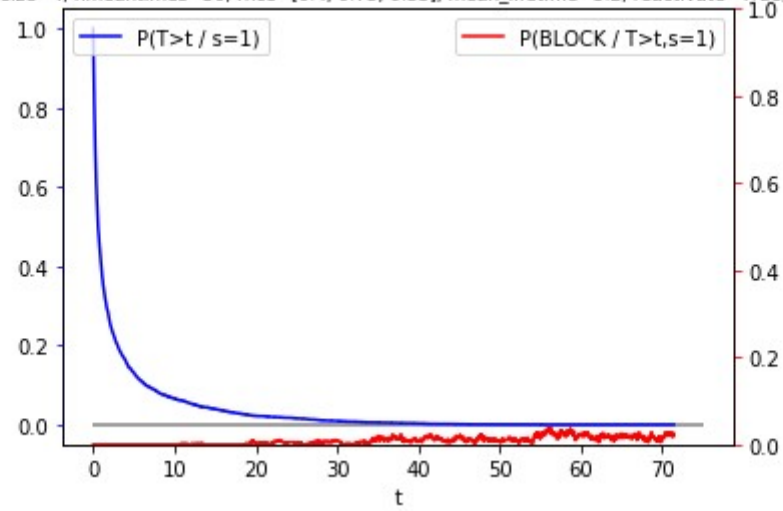
K=10, N=400, activation size=5, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=5.9, reactivate=True, finalize=ABS, seed=1717



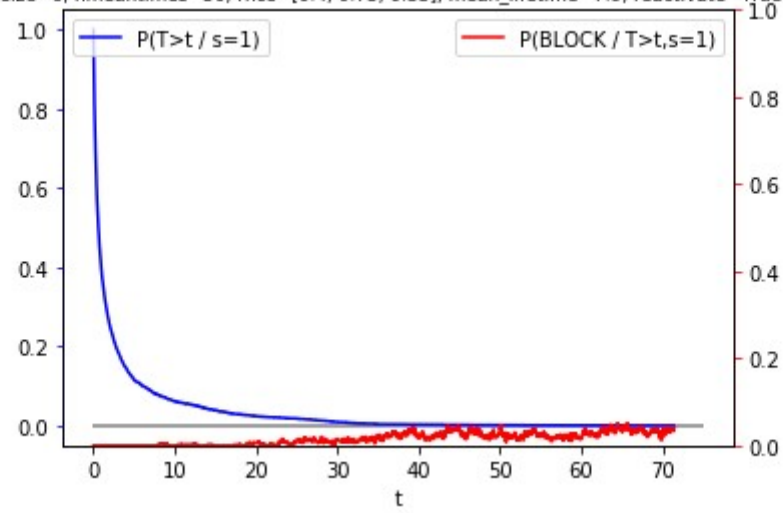
K=20, N=400, activation size=1, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=6.7, reactivate=True, finalize=ABS, seed=1717



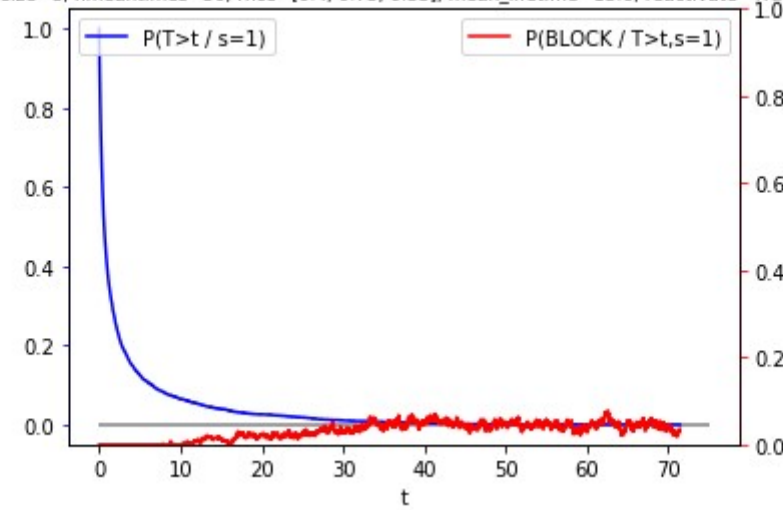
K=20, N=400, activation size=4, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=5.2, reactivate=True, finalize=ABS, seed=1717



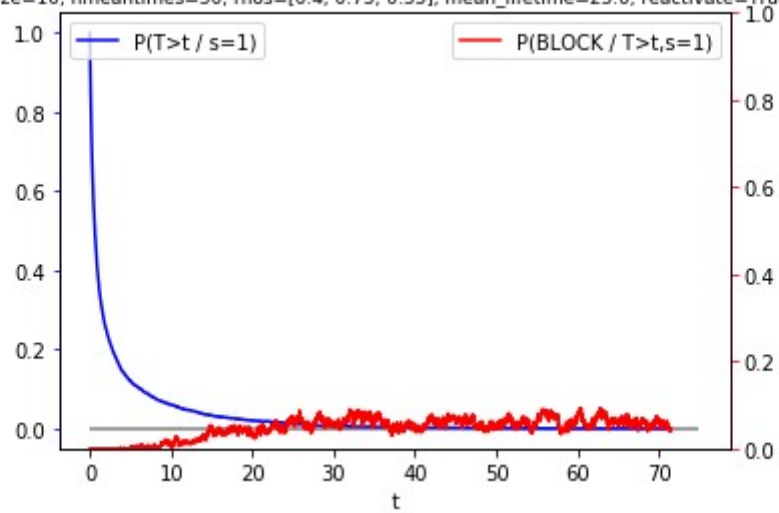
K=20, N=400, activation size=6, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=7.9, reactivate=True, finalize=ABS, seed=1717



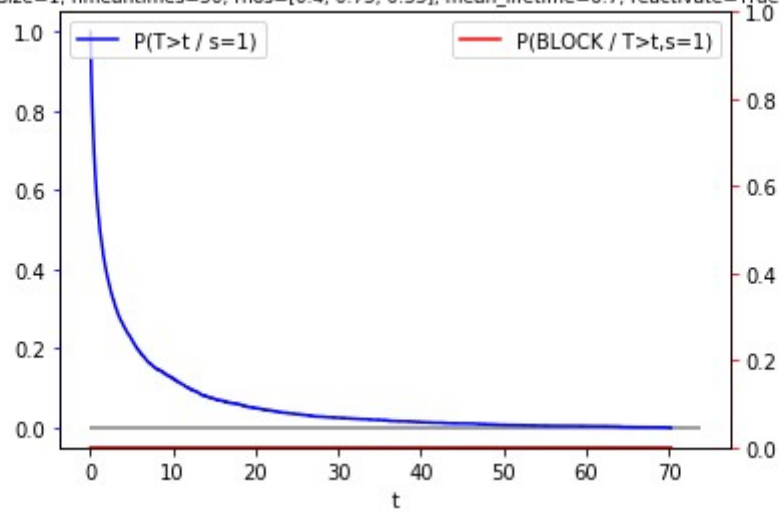
K=20, N=400, activation size=8, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=13.6, reactivate=True, finalize=ABS, seed=1717



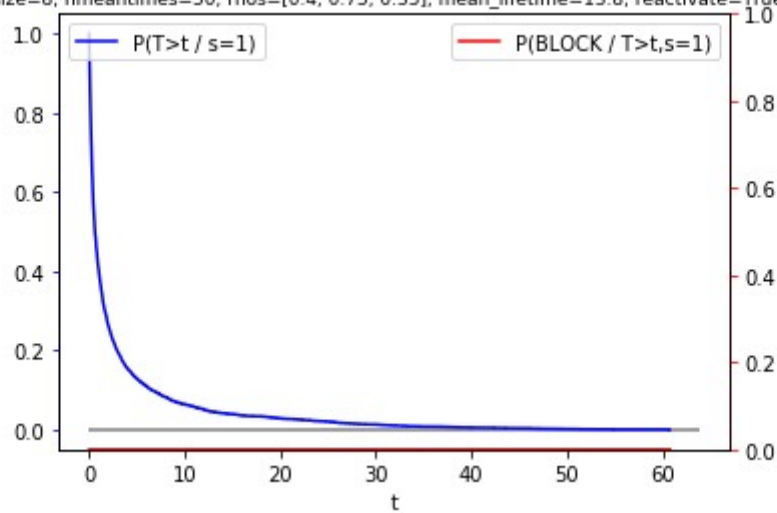
K=20, N=400, activation size=10, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=23.0, reactivate=True, finalize=ABS, seed=1717



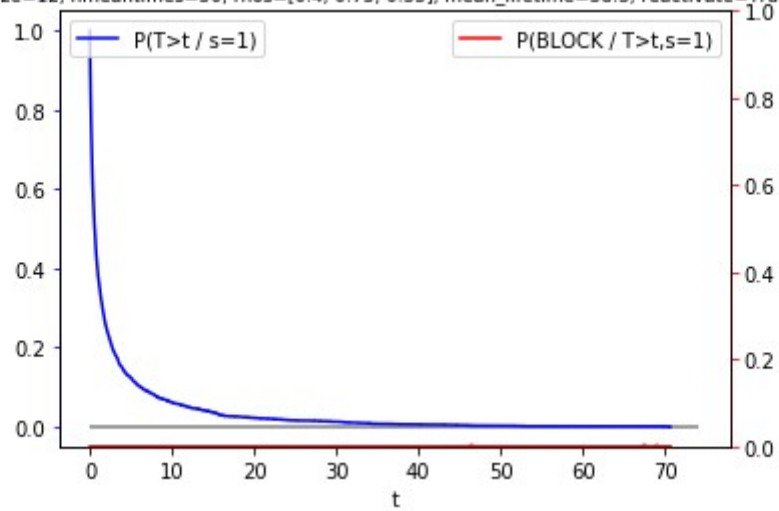
K=40, N=400, activation size=1, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=6.7, reactivate=True, finalize=ABS, seed=1717



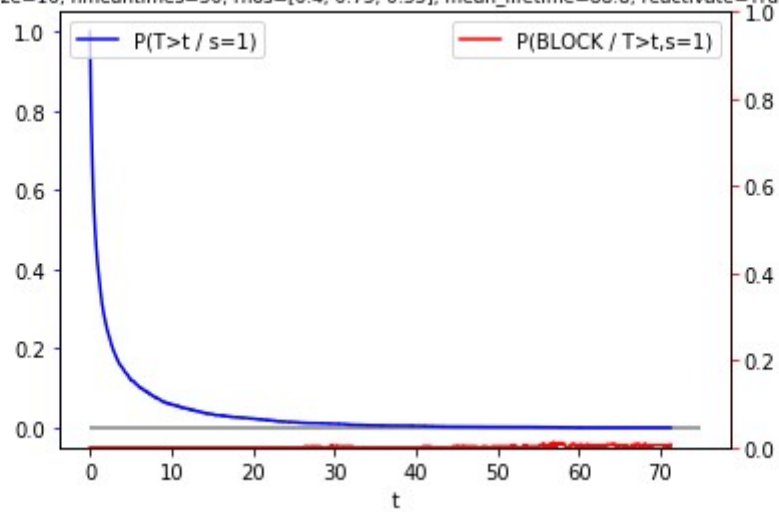
K=40, N=400, activation size=8, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=13.8, reactivate=True, finalize=ABS, seed=1717



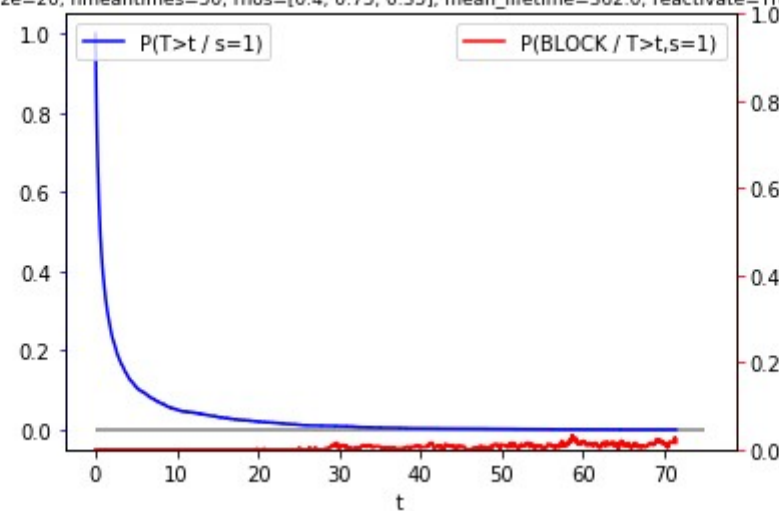
K=40, N=400, activation size=12, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=38.3, reactivate=True, finalize=ABS, seed=1717

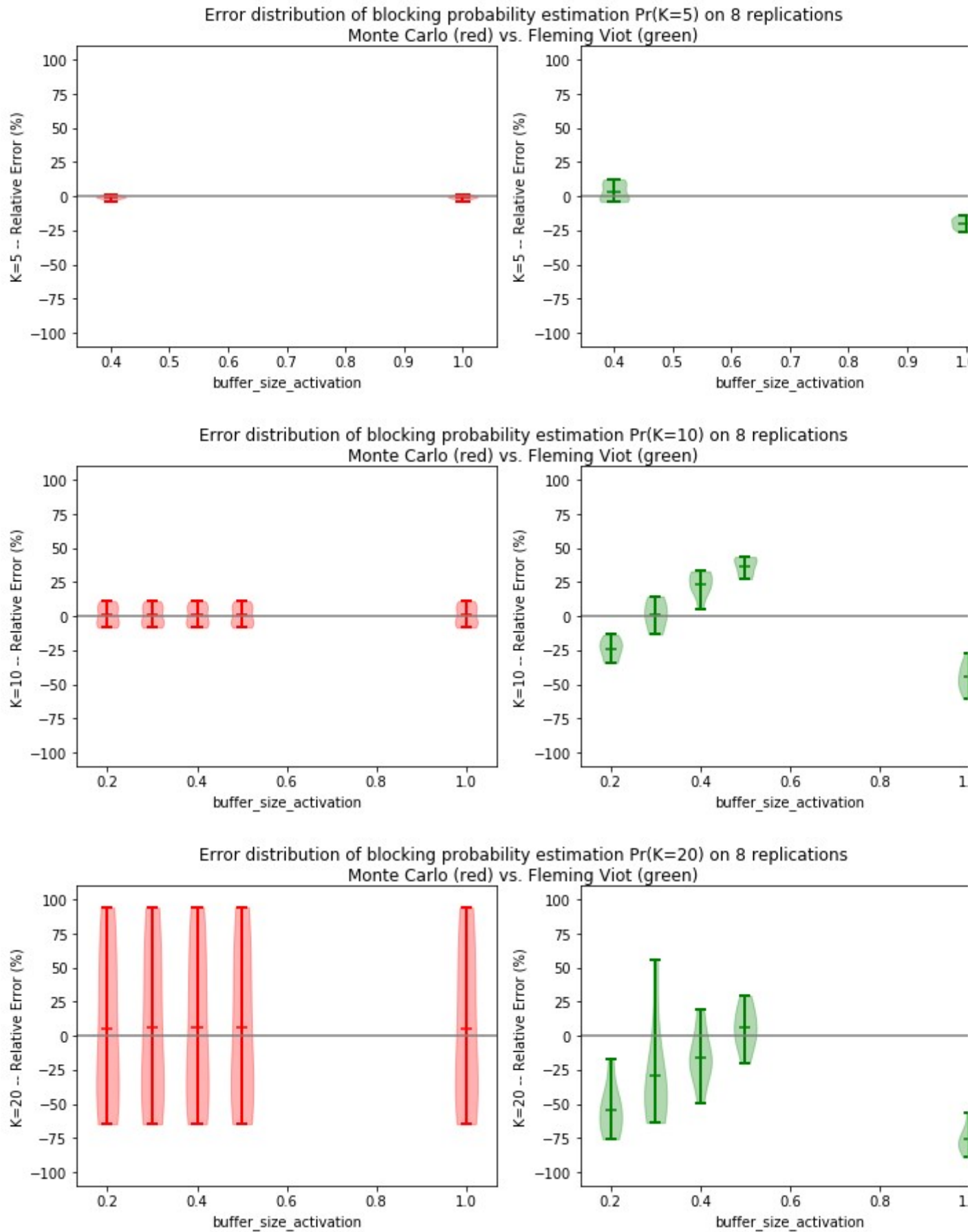


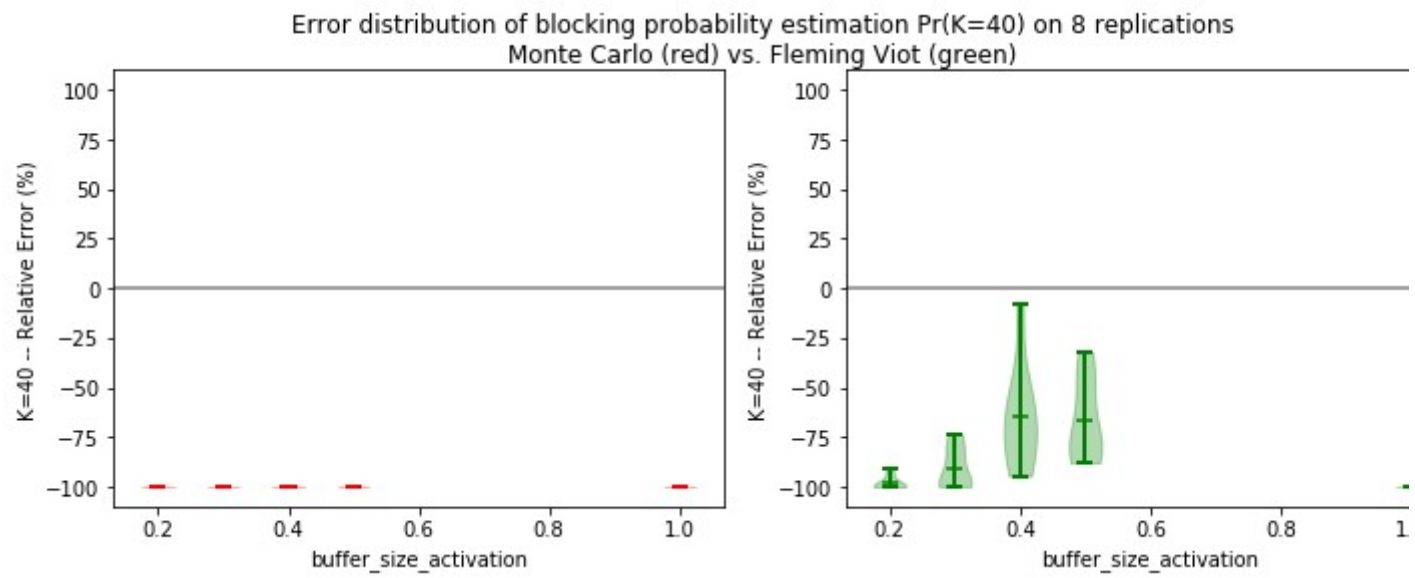
K=40, N=400, activation size=16, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=88.8, reactivate=True, finalize=ABS, seed=1717



K=40, N=400, activation size=20, nmeantimes=50, rhos=[0.4, 0.75, 0.35], mean_lifetime=362.0, reactivate=True, finalize=ABS, seed=1717







In [375]: