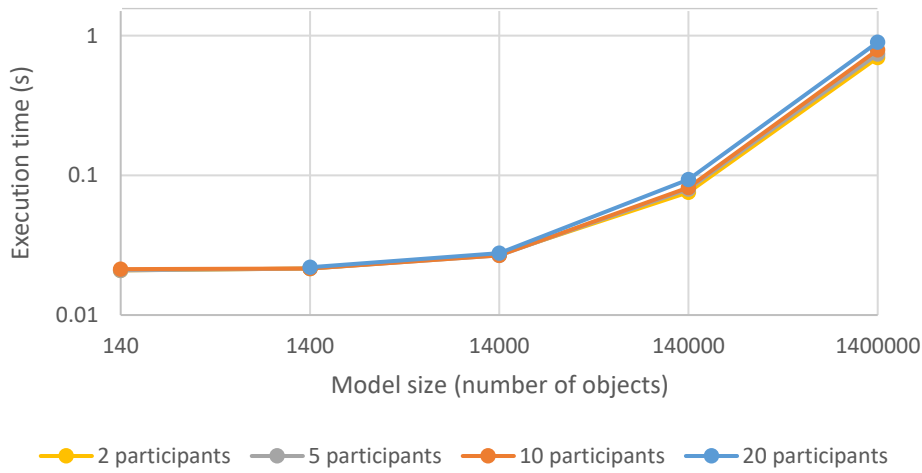


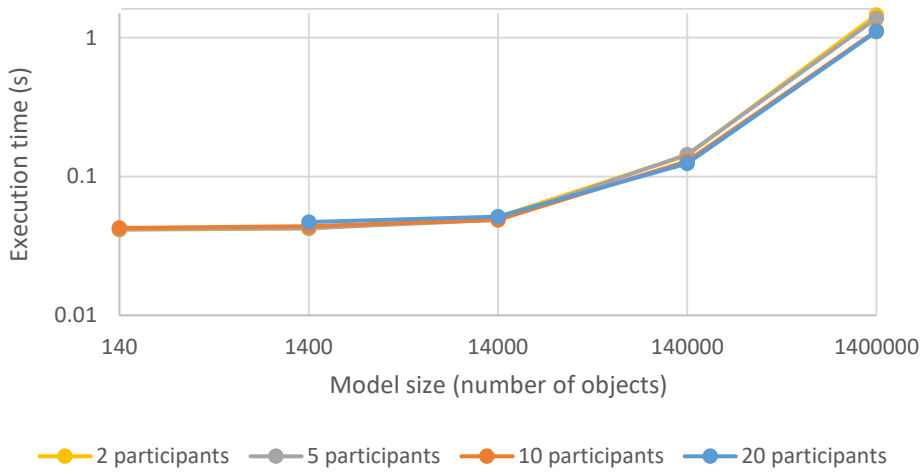
CloseTrains wrt. Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0219927	1400	20	30720
CloseTrains	0.0277925	14000	20	30720
CloseTrains	0.0931327	140000	20	30720
CloseTrains	0.896907	1400000	20	30720
CloseTrains	0.0213211	140	10	30720
CloseTrains	0.0215125	1400	10	30720
CloseTrains	0.0267582	14000	10	30720
CloseTrains	0.0818697	140000	10	30720
CloseTrains	0.791928	1400000	10	30720
CloseTrains	0.0208707	140	5	30720
CloseTrains	0.0214922	1400	5	30720
CloseTrains	0.0267465	14000	5	30720
CloseTrains	0.0796234	140000	5	30720
CloseTrains	0.738077	1400000	5	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720



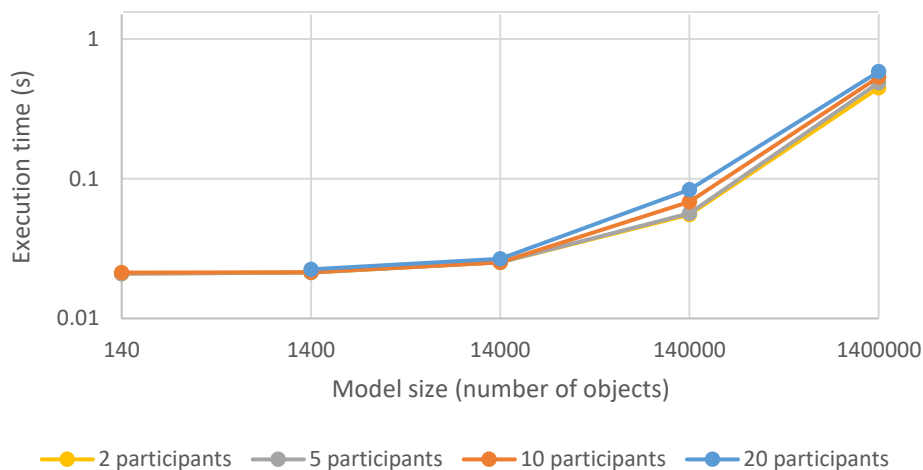
Derailment wrt. Participants

query	avg_time_s	matches	size	participants	buffer_bytes
query	avg_time_s	matches	size	participants	buffer_bytes
Derailment	0.0470231	73	1400	20	30720
Derailment	0.0514506	977	14000	20	30720
Derailment	0.124167	8193	140000	20	30720
Derailment	1.10578	68929	1400000	20	30720
Derailment	0.0426138	9	140	10	30720
Derailment	0.0437484	73	1400	10	30720
Derailment	0.0486917	977	14000	10	30720
Derailment	0.128754	8193	140000	10	30720
Derailment	1.12327	68929	1400000	10	30720
Derailment	0.0417068	9	140	5	30720
Derailment	0.0425643	73	1400	5	30720
Derailment	0.0486611	977	14000	5	30720
Derailment	0.144364	8193	140000	5	30720
Derailment	1.37604	68929	1400000	5	30720
Derailment	0.0413622	9	140	2	30720
Derailment	0.0422128	73	1400	2	30720
Derailment	0.0510104	977	14000	2	30720
Derailment	0.142515	8193	140000	2	30720
Derailment	1.45862	68929	1400000	2	30720



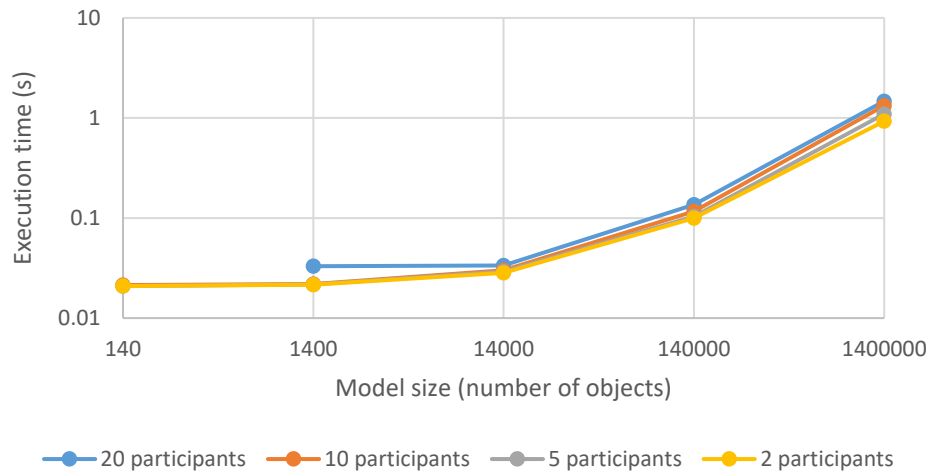
EndOfSiding wrt. Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0219927	1400	20	30720
CloseTrains	0.0277925	14000	20	30720
CloseTrains	0.0931327	140000	20	30720
CloseTrains	0.896907	1400000	20	30720
EndOfSiding	0.0224727	1400	20	30720
EndOfSiding	0.0267788	14000	20	30720
EndOfSiding	0.0834261	140000	20	30720
EndOfSiding	0.583936	1400000	20	30720
CloseTrains	0.0213211	140	10	30720
CloseTrains	0.0215125	1400	10	30720
CloseTrains	0.0267582	14000	10	30720
CloseTrains	0.0818697	140000	10	30720
CloseTrains	0.791928	1400000	10	30720
EndOfSiding	0.0212956	140	10	30720
EndOfSiding	0.0213708	1400	10	30720
EndOfSiding	0.0252115	14000	10	30720
EndOfSiding	0.0683511	140000	10	30720
EndOfSiding	0.534543	1400000	10	30720
CloseTrains	0.0208707	140	5	30720
CloseTrains	0.0214922	1400	5	30720
CloseTrains	0.0267465	14000	5	30720
CloseTrains	0.0796234	140000	5	30720
CloseTrains	0.738077	1400000	5	30720
EndOfSiding	0.0208824	140	5	30720
EndOfSiding	0.0212685	1400	5	30720
EndOfSiding	0.0251956	14000	5	30720
EndOfSiding	0.0564149	140000	5	30720
EndOfSiding	0.486802	1400000	5	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720
EndOfSiding	0.0209505	140	2	30720
EndOfSiding	0.021316	1400	2	30720
EndOfSiding	0.0252763	14000	2	30720
EndOfSiding	0.0554034	140000	2	30720
EndOfSiding	0.447518	1400000	2	30720



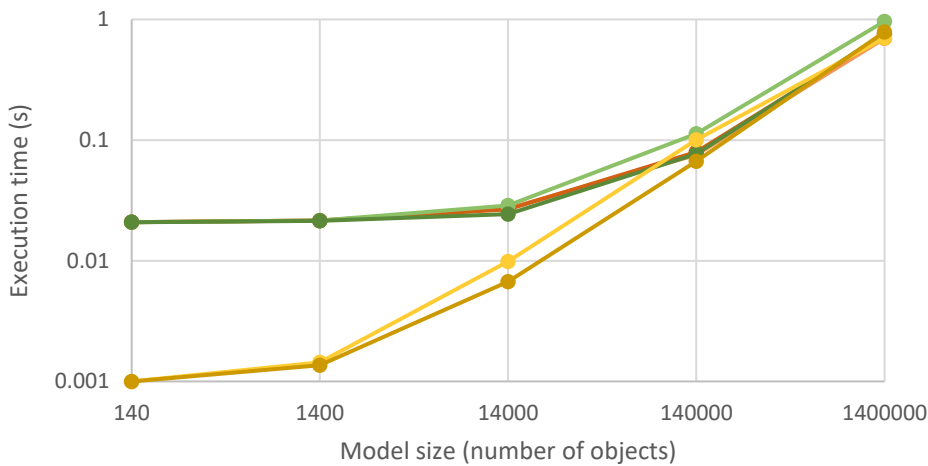
TrainLoc. wrt. Participants

query	avg_time_s	size	participants	buffer_bytes
TrainLocatior	0.0330078	1400	20	30720
TrainLocatior	0.0335989	14000	20	30720
TrainLocatior	0.136279	140000	20	30720
TrainLocatior	1.47185	1400000	20	30720
TrainLocatior	0.0213904	140	10	30720
TrainLocatior	0.021842	1400	10	30720
TrainLocatior	0.030043	14000	10	30720
TrainLocatior	0.116288	140000	10	30720
TrainLocatior	1.32853	1400000	10	30720
TrainLocatior	0.0208819	140	5	30720
TrainLocatior	0.0217661	1400	5	30720
TrainLocatior	0.0291604	14000	5	30720
TrainLocatior	0.10371	140000	5	30720
TrainLocatior	1.09643	1400000	5	30720
TrainLocatior	0.0208788	140	2	30720
TrainLocatior	0.0216233	1400	2	30720
TrainLocatior	0.0283392	14000	2	30720
TrainLocatior	0.100165	140000	2	30720
TrainLocatior	0.929004	1400000	2	30720



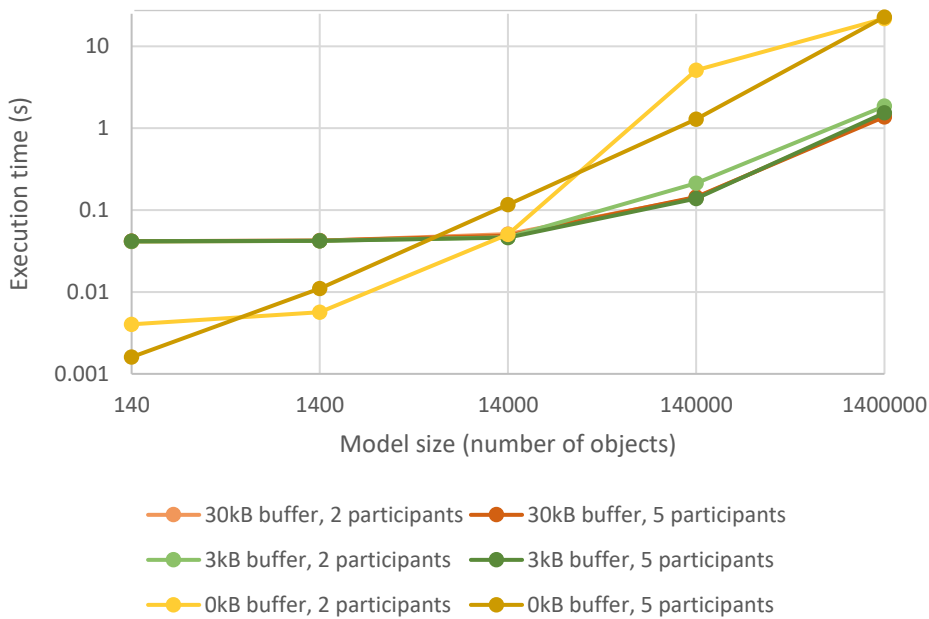
CloseTrains with Varying Buffer

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0208707	140	5	30720
CloseTrains	0.0214922	1400	5	30720
CloseTrains	0.0267465	14000	5	30720
CloseTrains	0.0796234	140000	5	30720
CloseTrains	0.738077	1400000	5	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720
CloseTrains	0.0208405	140	5	3072
CloseTrains	0.0213852	1400	5	3072
CloseTrains	0.0243737	14000	5	3072
CloseTrains	0.0768831	140000	5	3072
CloseTrains	0.761636	1400000	5	3072
CloseTrains	0.0208688	140	2	3072
CloseTrains	0.0215123	1400	2	3072
CloseTrains	0.02862	14000	2	3072
CloseTrains	0.112432	140000	2	3072
CloseTrains	0.964213	1400000	2	3072
CloseTrains	0.001	140	5	0
CloseTrains	0.00136522	1400	5	0
CloseTrains	0.00671069	14000	5	0
CloseTrains	0.0667921	140000	5	0
CloseTrains	0.786713	1400000	5	0
CloseTrains	0.001	140	2	0
CloseTrains	0.00144162	1400	2	0
CloseTrains	0.00986051	14000	2	0
CloseTrains	0.100665	140000	2	0
CloseTrains	0.701056	1400000	2	0



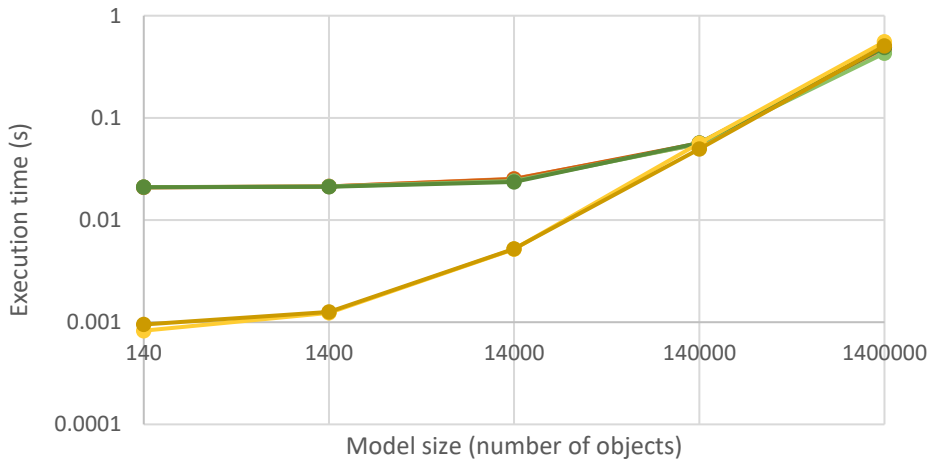
Derailment with Varying Buffer

query	avg_time_s	matches	size	participants	buffer_bytes
Derailment	0.0417068	9	140	5	30720
Derailment	0.0425643	73	1400	5	30720
Derailment	0.0486611	977	14000	5	30720
Derailment	0.144364	8193	140000	5	30720
Derailment	1.37604	68929	1400000	5	30720
Derailment	0.0413622	9	140	2	30720
Derailment	0.0422128	73	1400	2	30720
Derailment	0.0510104	977	14000	2	30720
Derailment	0.142515	8193	140000	2	30720
Derailment	1.45862	68929	1400000	2	30720
Derailment	0.0417237	9	140	5	3072
Derailment	0.0421297	73	1400	5	3072
Derailment	0.0459976	977	14000	5	3072
Derailment	0.138422	8193	140000	5	3072
Derailment	1.54049	68929	1400000	5	3072
Derailment	0.0412523	9	140	2	3072
Derailment	0.0422214	73	1400	2	3072
Derailment	0.0463368	977	14000	2	3072
Derailment	0.213032	8193	140000	2	3072
Derailment	1.85733	68929	1400000	2	3072
Derailment	0.00160328	9	140	5	0
Derailment	0.0110045	73	1400	5	0
Derailment	0.116454	977	14000	5	0
Derailment	1.28976	8193	140000	5	0
Derailment	22.8156	68929	1400000	5	0
Derailment	0.00402813	9	140	2	0
Derailment	0.00567979	73	1400	2	0
Derailment	0.0505056	977	14000	2	0
Derailment	5.09485	8193	140000	2	0
Derailment	21.8597	68929	1400000	2	0



EndOfSiding with Varying Buffer

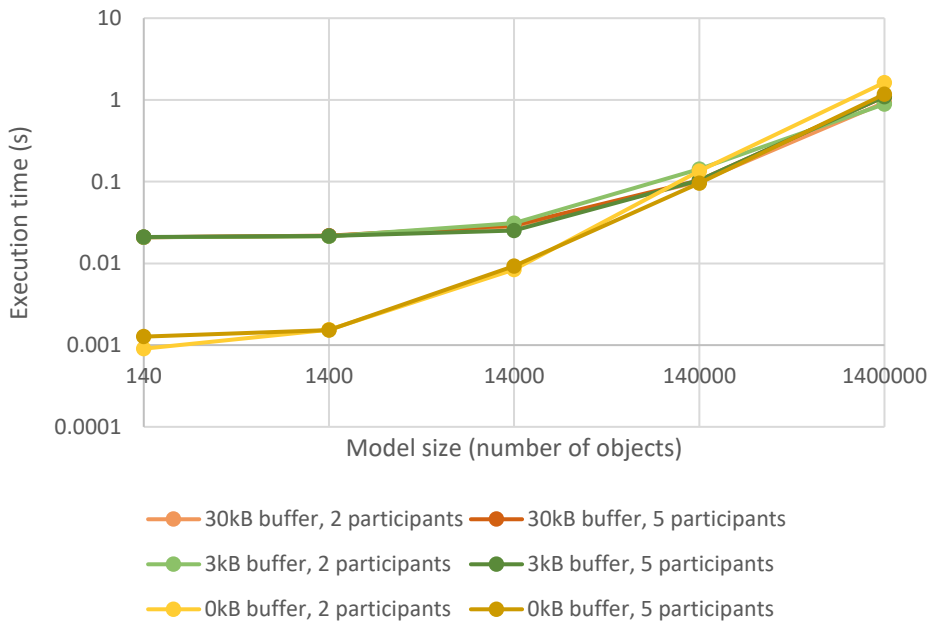
query	avg_time_s	size	participants	buffer_bytes
EndOfSiding	0.0208824	140	5	30720
EndOfSiding	0.0212685	1400	5	30720
EndOfSiding	0.0251956	14000	5	30720
EndOfSiding	0.0564149	140000	5	30720
EndOfSiding	0.486802	1400000	5	30720
EndOfSiding	0.0209505	140	2	30720
EndOfSiding	0.021316	1400	2	30720
EndOfSiding	0.0252763	14000	2	30720
EndOfSiding	0.0554034	140000	2	30720
EndOfSiding	0.447518	1400000	2	30720
EndOfSiding	0.0209449	140	5	3072
EndOfSiding	0.0211878	1400	5	3072
EndOfSiding	0.0236544	14000	5	3072
EndOfSiding	0.057056	140000	5	3072
EndOfSiding	0.487129	1400000	5	3072
EndOfSiding	0.0209768	140	2	3072
EndOfSiding	0.0213998	1400	2	3072
EndOfSiding	0.0240579	14000	2	3072
EndOfSiding	0.0558491	140000	2	3072
EndOfSiding	0.429446	1400000	2	3072
EndOfSiding	0.0009499	140	5	0
EndOfSiding	0.00125933	1400	5	0
EndOfSiding	0.00522429	14000	5	0
EndOfSiding	0.0496242	140000	5	0
EndOfSiding	0.506551	1400000	5	0
EndOfSiding	0.00082588	140	2	0
EndOfSiding	0.00123391	1400	2	0
EndOfSiding	0.00518577	14000	2	0
EndOfSiding	0.0564853	140000	2	0
EndOfSiding	0.55632	1400000	2	0



- 30kB buffer, 2 participants
- 30kB buffer, 5 participants
- 3kB buffer, 2 participants
- 3kB buffer, 5 participants
- 0kB buffer, 2 participants
- 0kB buffer, 5 participants

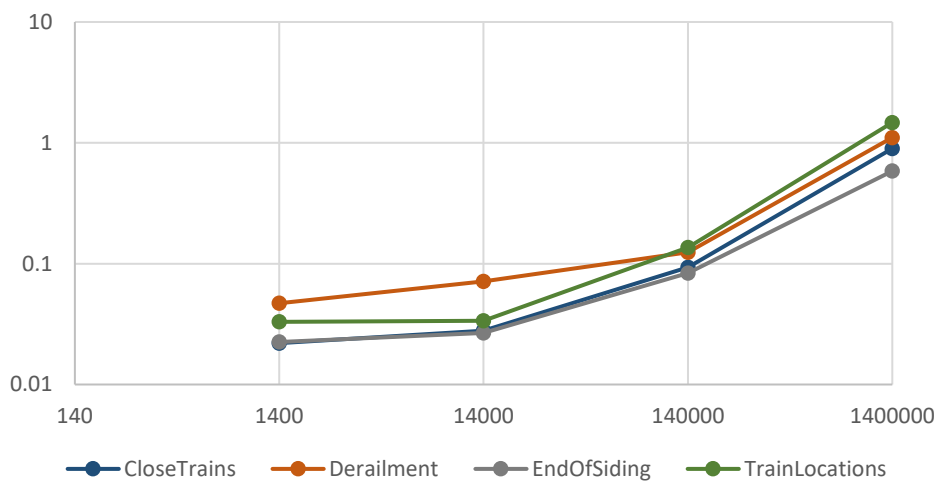
TrainLoc. with Varying Buffer

query	avg_time_s	size	participants	buffer_bytes
TrainLocati	0.0208819	140	5	30720
TrainLocati	0.0217661	1400	5	30720
TrainLocati	0.0291604	14000	5	30720
TrainLocati	0.10371	140000	5	30720
TrainLocati	1.09643	1400000	5	30720
TrainLocati	0.0208788	140	2	30720
TrainLocati	0.0216233	1400	2	30720
TrainLocati	0.0283392	14000	2	30720
TrainLocati	0.100165	140000	2	30720
TrainLocati	0.929004	1400000	2	30720
TrainLocati	0.0210116	140	5	3072
TrainLocati	0.0216406	1400	5	3072
TrainLocati	0.0251505	14000	5	3072
TrainLocati	0.104397	140000	5	3072
TrainLocati	1.09579	1400000	5	3072
TrainLocati	0.0208859	140	2	3072
TrainLocati	0.0214711	1400	2	3072
TrainLocati	0.0311239	14000	2	3072
TrainLocati	0.142735	140000	2	3072
TrainLocati	0.888162	1400000	2	3072
TrainLocati	0.00127022	140	5	0
TrainLocati	0.00153007	1400	5	0
TrainLocati	0.00925285	14000	5	0
TrainLocati	0.0962622	140000	5	0
TrainLocati	1.17555	1400000	5	0
TrainLocati	0.0009046	140	2	0
TrainLocati	0.00154168	1400	2	0
TrainLocati	0.0083757	14000	2	0
TrainLocati	0.134563	140000	2	0
TrainLocati	1.633125	1400000	2	0



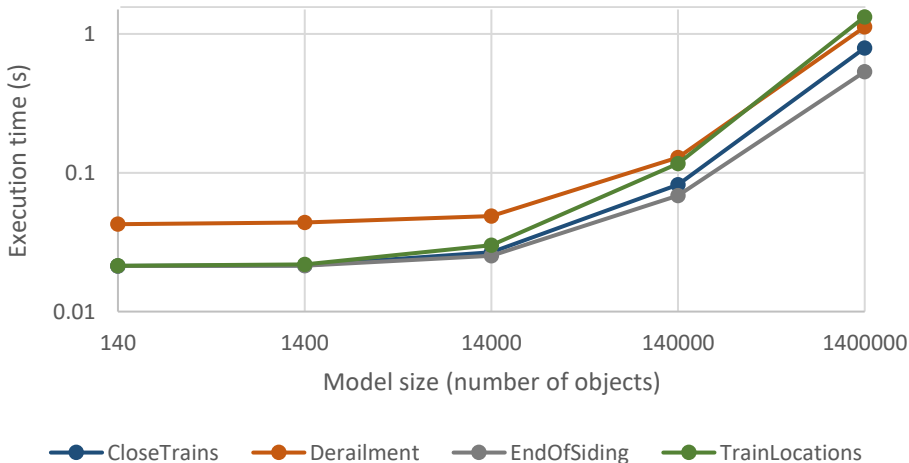
Exec. Times - 20 Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0219927	1400	20	30720
CloseTrains	0.0277925	14000	20	30720
CloseTrains	0.0931327	140000	20	30720
CloseTrains	0.896907	1400000	20	30720
Derailment	0.0470231	1400	20	30720
Derailment	0.0714506	14000	20	30720
Derailment	0.124167	140000	20	30720
Derailment	1.10578	1400000	20	30720
EndOfSiding	0.0224727	1400	20	30720
EndOfSiding	0.0267788	14000	20	30720
EndOfSiding	0.0834261	140000	20	30720
EndOfSiding	0.583936	1400000	20	30720
TrainLocatior	0.0330078	1400	20	30720
TrainLocatior	0.0335989	14000	20	30720
TrainLocatior	0.136279	140000	20	30720
TrainLocatior	1.47185	1400000	20	30720



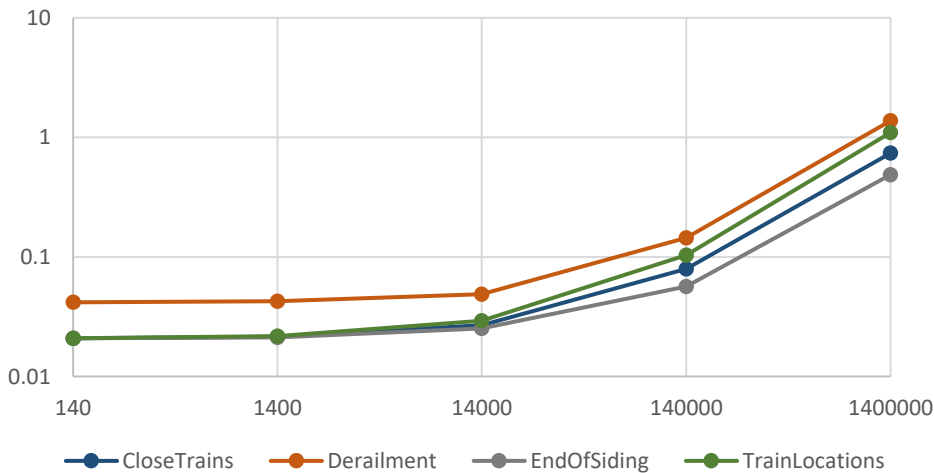
Exec. Times - 10 Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0213211	140	10	30720
CloseTrains	0.0215125	1400	10	30720
CloseTrains	0.0267582	14000	10	30720
CloseTrains	0.0818697	140000	10	30720
CloseTrains	0.791928	1400000	10	30720
Derailment	0.0426138	140	10	30720
Derailment	0.0437484	1400	10	30720
Derailment	0.0486917	14000	10	30720
Derailment	0.128754	140000	10	30720
Derailment	1.12327	1400000	10	30720
EndOfSiding	0.0212956	140	10	30720
EndOfSiding	0.0213708	1400	10	30720
EndOfSiding	0.0252115	14000	10	30720
EndOfSiding	0.0683511	140000	10	30720
EndOfSiding	0.534543	1400000	10	30720
TrainLocatior	0.0213904	140	10	30720
TrainLocatior	0.021842	1400	10	30720
TrainLocatior	0.030043	14000	10	30720
TrainLocatior	0.116288	140000	10	30720
TrainLocatior	1.32853	1400000	10	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720
Derailment	0.0413622	140	2	30720
Derailment	0.0422128	1400	2	30720
Derailment	0.0510104	14000	2	30720
Derailment	0.142515	140000	2	30720
Derailment	1.45862	1400000	2	30720
EndOfSiding	0.0209505	140	2	30720
EndOfSiding	0.021316	1400	2	30720
EndOfSiding	0.0252763	14000	2	30720
EndOfSiding	0.0554034	140000	2	30720
EndOfSiding	0.447518	1400000	2	30720
TrainLocatior	0.0208788	140	2	30720
TrainLocatior	0.0216233	1400	2	30720
TrainLocatior	0.0283392	14000	2	30720
TrainLocatior	0.100165	140000	2	30720
TrainLocatior	0.929004	1400000	2	30720



Exec. Times - 5 Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0208707	140	5	30720
CloseTrains	0.0214922	1400	5	30720
CloseTrains	0.0267465	14000	5	30720
CloseTrains	0.0796234	140000	5	30720
CloseTrains	0.738077	1400000	5	30720
Derailment	0.0417068	140	5	30720
Derailment	0.0425643	1400	5	30720
Derailment	0.0486611	14000	5	30720
Derailment	0.144364	140000	5	30720
Derailment	1.37604	1400000	5	30720
EndOfSiding	0.0208824	140	5	30720
EndOfSiding	0.0212685	1400	5	30720
EndOfSiding	0.0251956	14000	5	30720
EndOfSiding	0.0564149	140000	5	30720
EndOfSiding	0.486802	1400000	5	30720
TrainLocati	0.0208819	140	5	30720
TrainLocati	0.0217661	1400	5	30720
TrainLocati	0.0291604	14000	5	30720
TrainLocati	0.10371	140000	5	30720
TrainLocati	1.09643	1400000	5	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720
Derailment	0.0413622	140	2	30720
Derailment	0.0422128	1400	2	30720
Derailment	0.0510104	14000	2	30720
Derailment	0.142515	140000	2	30720
Derailment	1.45862	1400000	2	30720
EndOfSiding	0.0209505	140	2	30720
EndOfSiding	0.021316	1400	2	30720
EndOfSiding	0.0252763	14000	2	30720
EndOfSiding	0.0554034	140000	2	30720
EndOfSiding	0.447518	1400000	2	30720
TrainLocati	0.0208788	140	2	30720
TrainLocati	0.0216233	1400	2	30720
TrainLocati	0.0283392	14000	2	30720
TrainLocati	0.100165	140000	2	30720
TrainLocati	0.929004	1400000	2	30720



Exec. Times - 2 Participants

query	avg_time_s	size	participants	buffer_bytes
CloseTrains	0.0219927	1400	20	30720
CloseTrains	0.0277925	14000	20	30720
CloseTrains	0.0931327	140000	20	30720
CloseTrains	0.896907	1400000	20	30720
Derailment	0.0470231	1400	20	30720
Derailment	0.0714506	14000	20	30720
Derailment	0.124167	140000	20	30720
Derailment	1.10578	1400000	20	30720
EndOfSiding	0.0224727	1400	20	30720
EndOfSiding	0.0267788	14000	20	30720
EndOfSiding	0.0834261	140000	20	30720
EndOfSiding	0.583936	1400000	20	30720
TrainLocati	0.0330078	1400	20	30720
TrainLocati	0.0335989	14000	20	30720
TrainLocati	0.136279	140000	20	30720
TrainLocati	1.47185	1400000	20	30720
CloseTrains	0.0208826	140	2	30720
CloseTrains	0.0215583	1400	2	30720
CloseTrains	0.0271646	14000	2	30720
CloseTrains	0.0755003	140000	2	30720
CloseTrains	0.69612	1400000	2	30720
Derailment	0.0413622	140	2	30720
Derailment	0.0422128	1400	2	30720
Derailment	0.0510104	14000	2	30720
Derailment	0.142515	140000	2	30720
Derailment	1.45862	1400000	2	30720
EndOfSiding	0.0209505	140	2	30720
EndOfSiding	0.021316	1400	2	30720
EndOfSiding	0.0252763	14000	2	30720
EndOfSiding	0.0554034	140000	2	30720
EndOfSiding	0.447518	1400000	2	30720
TrainLocati	0.0208788	140	2	30720
TrainLocati	0.0216233	1400	2	30720
TrainLocati	0.0283392	14000	2	30720
TrainLocati	0.100165	140000	2	30720
TrainLocati	0.929004	1400000	2	30720

